

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P401060

Luminaire Tested: **ENV-SA1B-722-U-SLL**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1B-722-U-SLL
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2228 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

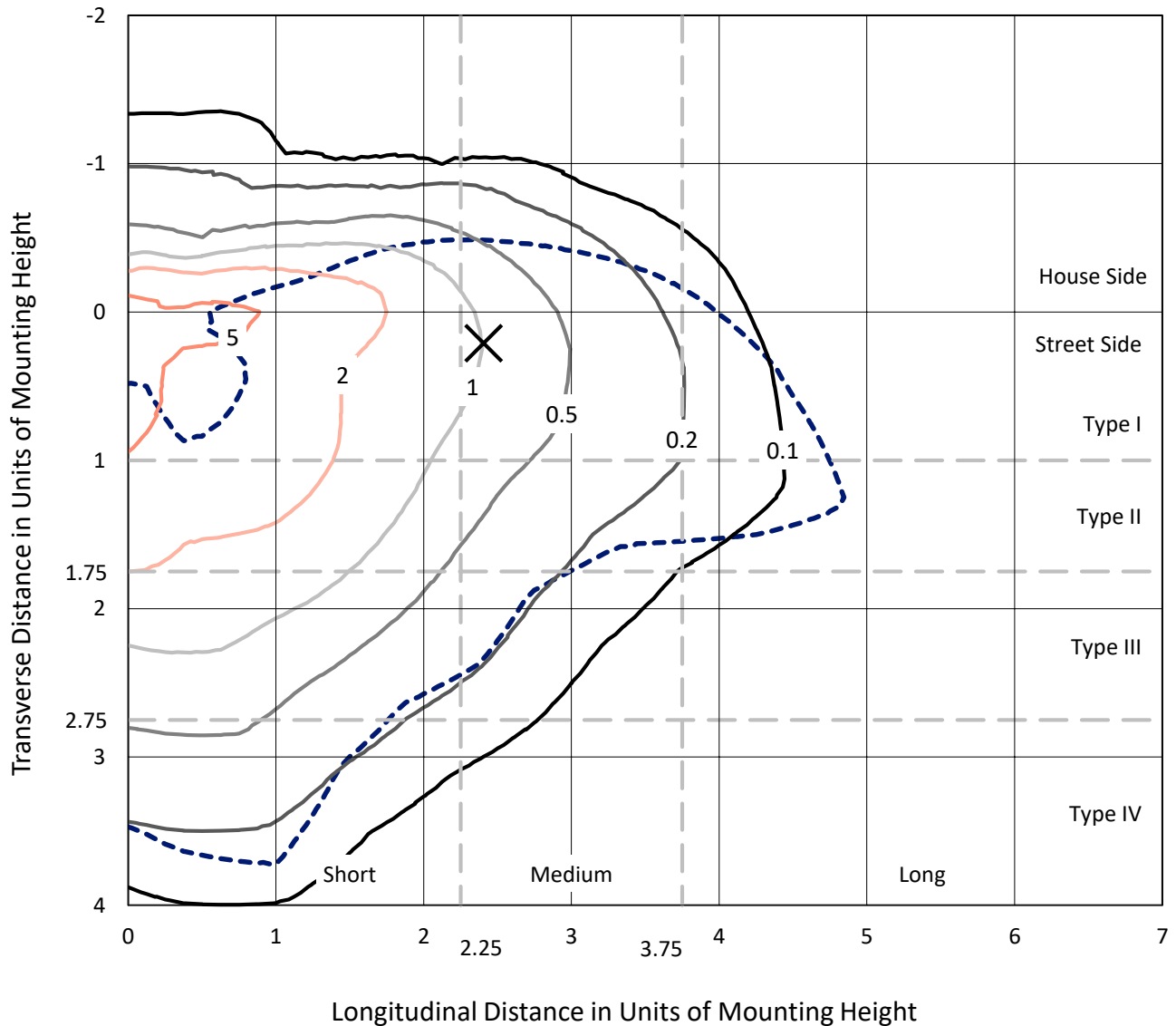


REPORT NUMBER: P401060

CATALOG NUMBER: ENV-SA1B-722-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

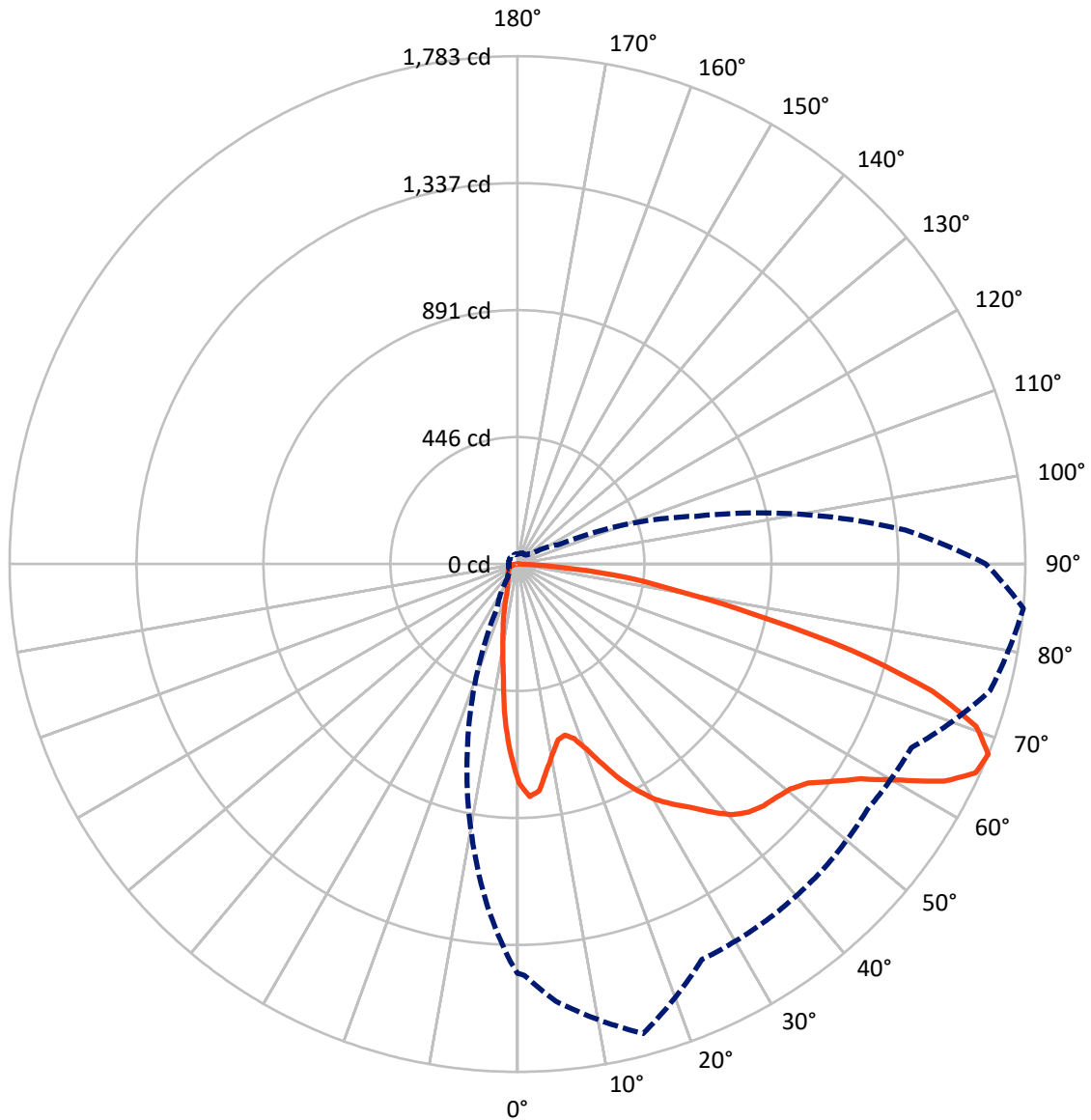


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P401060

CATALOG NUMBER: ENV-SA1B-722-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P401060

CATALOG NUMBER: ENV-SA1B-722-U-SLL

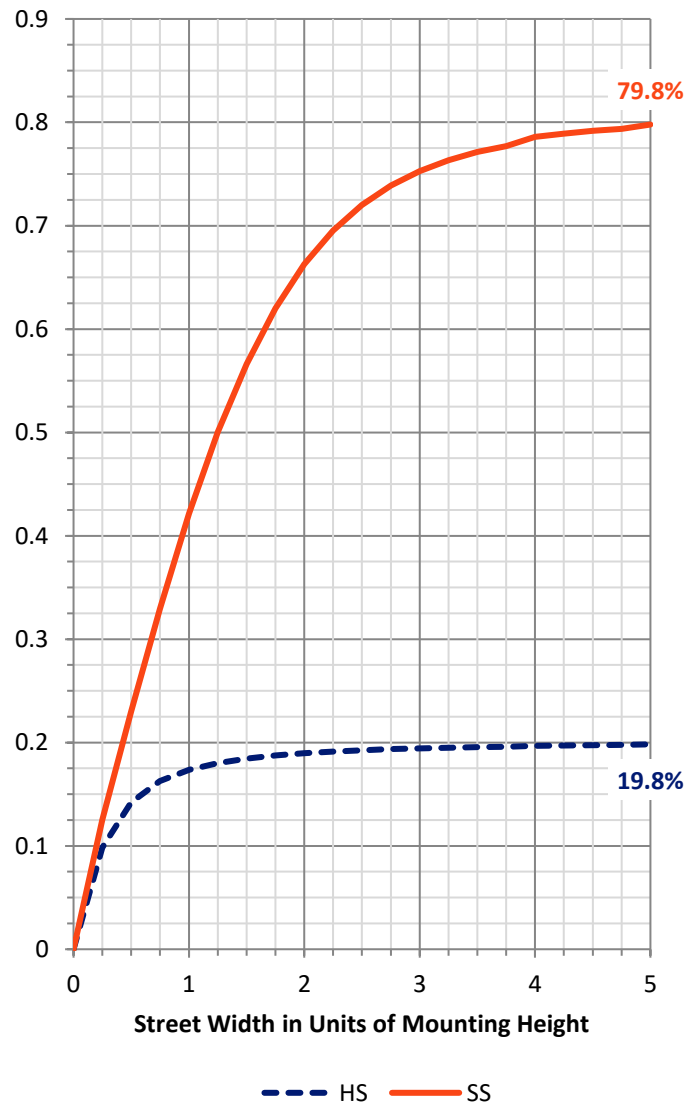
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 448.9 | 0.0 | 448.9 |
| | % Fixture | 20.1 | 0.0 | 20.1 |
| Street Side | Lumens | 1779.1 | 0.0 | 1779.1 |
| | % Fixture | 79.9 | 0.0 | 79.9 |
| Total | Lumens | 2228.0 | 0.0 | 2228.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.5 | 2.6 |
| 10°-20° | 115.4 | 5.2 |
| 20°-30° | 161.3 | 7.2 |
| 30°-40° | 227.3 | 10.2 |
| 40°-50° | 315.0 | 14.1 |
| 50°-60° | 442.6 | 19.9 |
| 60°-70° | 541.1 | 24.3 |
| 70°-80° | 318.0 | 14.3 |
| 80°-90° | 48.7 | 2.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2228.0 | 100.0 |
| 0°-180° | 2228.0 | 100.0 |



REPORT NUMBER: P401060

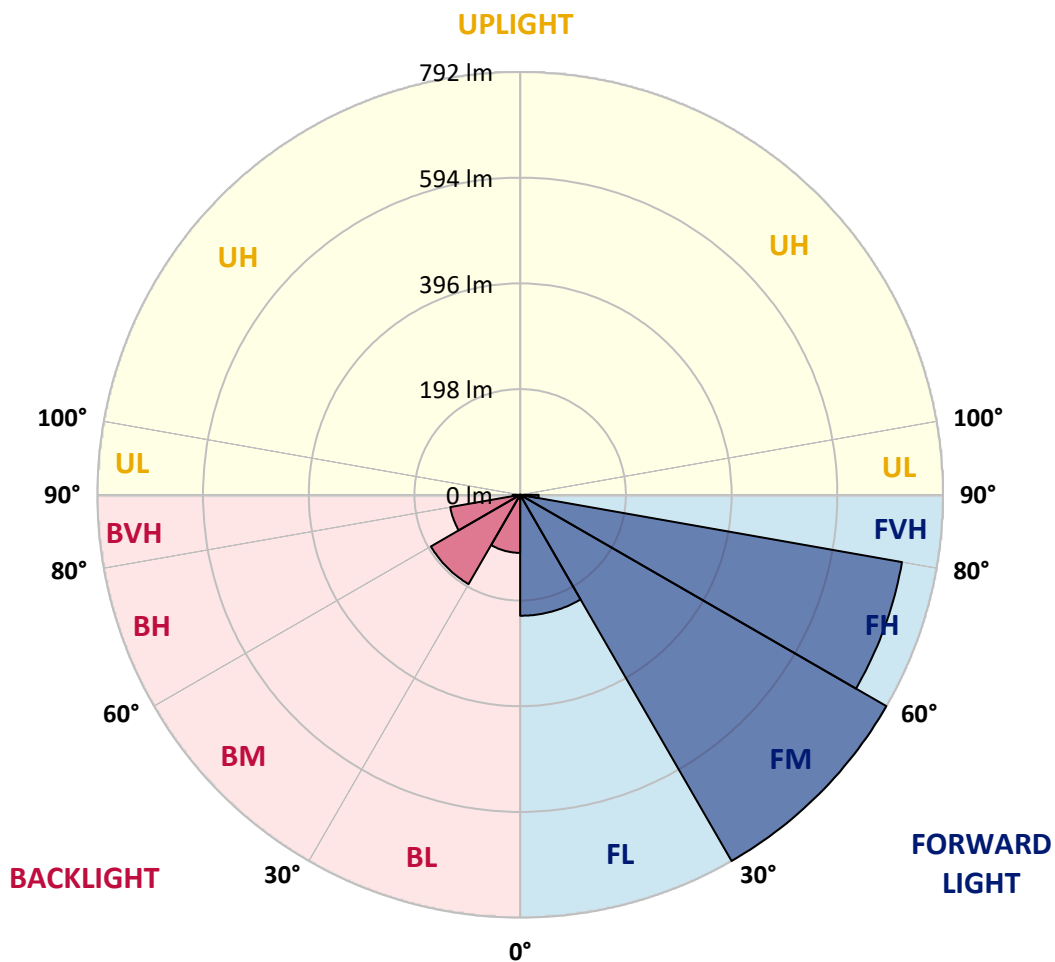
CATALOG NUMBER: ENV-SA1B-722-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 226.5 | 10.2 | | | |
| FM | (30°-60°) | 792.0 | 35.5 | | | |
| FH | (60°-80°) | 726.2 | 32.6 | | | G1/1800 |
| FVH | (80°-90°) | 34.5 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 108.7 | 4.9 | B0/110 | | |
| BM | (30°-60°) | 193.0 | 8.7 | B0/220 | | |
| BH | (60°-80°) | 133.0 | 6.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 14.2 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P401060

CATALOG NUMBER: ENV-SA1B-722-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 |
| 2.5° | 790.9 | 787.3 | 799.5 | 817.4 | 829.5 | 838.1 | 841.0 | 840.7 | 838.1 | 831.3 | 817.0 |
| 5° | 755.8 | 752.5 | 777.3 | 817.0 | 851.8 | 876.8 | 884.0 | 874.0 | 861.4 | 834.9 | 799.8 |
| 7.5° | 689.1 | 694.2 | 725.7 | 781.6 | 837.4 | 877.2 | 886.9 | 871.1 | 845.3 | 791.2 | 732.1 |
| 10° | 638.6 | 641.1 | 676.6 | 743.9 | 803.4 | 844.2 | 861.1 | 847.1 | 813.4 | 745.0 | 676.6 |
| 12.5° | 607.5 | 610.0 | 644.4 | 706.7 | 770.1 | 802.0 | 807.0 | 806.6 | 778.7 | 712.4 | 633.3 |
| 15° | 611.8 | 615.0 | 649.4 | 701.0 | 736.8 | 750.7 | 751.1 | 755.0 | 746.8 | 696.3 | 622.9 |
| 17.5° | 653.3 | 653.3 | 686.3 | 717.4 | 709.2 | 699.2 | 706.7 | 713.9 | 728.2 | 706.0 | 644.0 |
| 20° | 718.9 | 721.7 | 752.2 | 746.8 | 696.7 | 671.6 | 662.6 | 675.2 | 719.6 | 735.0 | 693.8 |
| 22.5° | 789.8 | 797.3 | 829.2 | 789.8 | 694.5 | 645.8 | 635.8 | 649.4 | 720.7 | 780.8 | 762.2 |
| 25° | 868.2 | 877.5 | 899.0 | 839.9 | 701.0 | 631.5 | 624.7 | 637.6 | 723.5 | 823.1 | 836.0 |
| 27.5° | 939.9 | 940.6 | 961.7 | 882.2 | 717.8 | 632.9 | 621.4 | 638.3 | 731.4 | 856.4 | 901.2 |
| 30° | 990.7 | 990.7 | 1000.0 | 903.7 | 738.6 | 641.9 | 624.3 | 649.0 | 742.5 | 874.7 | 960.3 |
| 32.5° | 1037.3 | 1039.8 | 1035.1 | 926.3 | 758.3 | 654.8 | 631.1 | 670.5 | 760.1 | 889.7 | 1005.8 |
| 35° | 1096.4 | 1096.0 | 1075.3 | 944.2 | 776.5 | 668.7 | 648.0 | 697.7 | 785.5 | 911.9 | 1049.1 |
| 37.5° | 1169.5 | 1165.9 | 1121.8 | 960.3 | 798.7 | 692.7 | 679.8 | 735.0 | 819.5 | 938.1 | 1103.9 |
| 40° | 1235.7 | 1230.0 | 1164.4 | 975.3 | 816.3 | 739.3 | 731.8 | 781.2 | 862.5 | 970.7 | 1157.3 |
| 42.5° | 1287.3 | 1278.7 | 1200.6 | 986.1 | 842.8 | 812.4 | 818.8 | 864.3 | 905.8 | 999.7 | 1190.6 |
| 45° | 1330.6 | 1321.7 | 1227.8 | 991.4 | 906.9 | 916.6 | 929.1 | 967.1 | 952.0 | 1007.6 | 1211.0 |
| 47.5° | 1361.8 | 1347.1 | 1239.7 | 1007.2 | 993.6 | 1038.4 | 1077.1 | 1079.6 | 1017.2 | 1007.2 | 1223.5 |
| 50° | 1380.1 | 1364.0 | 1250.8 | 1046.2 | 1094.2 | 1176.6 | 1217.8 | 1198.5 | 1084.9 | 1013.7 | 1241.5 |
| 52.5° | 1417.0 | 1400.1 | 1297.0 | 1109.6 | 1197.4 | 1316.7 | 1338.9 | 1307.7 | 1155.1 | 1047.0 | 1277.3 |
| 55° | 1509.7 | 1502.2 | 1386.5 | 1194.9 | 1298.8 | 1429.9 | 1439.9 | 1408.7 | 1228.6 | 1104.6 | 1345.7 |
| 57.5° | 1614.7 | 1598.2 | 1507.6 | 1302.0 | 1395.8 | 1518.3 | 1534.4 | 1491.5 | 1305.6 | 1185.6 | 1422.0 |
| 60° | 1644.1 | 1640.8 | 1610.0 | 1427.0 | 1496.1 | 1612.9 | 1614.0 | 1559.2 | 1395.5 | 1281.9 | 1538.4 |
| 62.5° | 1601.1 | 1611.5 | 1652.6 | 1542.7 | 1580.3 | 1676.3 | 1667.3 | 1610.4 | 1489.7 | 1435.2 | 1679.9 |
| 65° | 1526.2 | 1540.9 | 1623.6 | 1651.9 | 1599.6 | 1663.8 | 1644.8 | 1608.6 | 1549.1 | 1600.4 | 1767.6 |
| 67.5° | 1436.3 | 1444.2 | 1540.5 | 1706.4 | 1531.9 | 1525.9 | 1516.9 | 1500.4 | 1525.5 | 1717.8 | 1782.7 |
| 70° | 1342.8 | 1349.6 | 1438.5 | 1631.5 | 1328.9 | 1259.0 | 1251.5 | 1237.2 | 1334.9 | 1716.4 | 1708.9 |
| 72.5° | 1131.9 | 1127.6 | 1209.6 | 1361.8 | 1014.7 | 919.8 | 983.6 | 952.4 | 1079.9 | 1542.0 | 1522.3 |
| 75° | 703.1 | 726.8 | 829.5 | 954.9 | 695.2 | 630.0 | 718.2 | 710.3 | 876.8 | 1327.8 | 1212.1 |
| 77.5° | 428.4 | 433.0 | 491.1 | 595.3 | 418.7 | 436.6 | 461.7 | 510.4 | 650.1 | 1076.3 | 845.0 |
| 80° | 224.2 | 208.5 | 251.1 | 326.7 | 248.6 | 293.0 | 338.5 | 392.2 | 412.6 | 701.7 | 564.9 |
| 82.5° | 64.8 | 64.5 | 84.9 | 136.8 | 117.8 | 144.0 | 170.9 | 246.4 | 270.4 | 417.3 | 386.8 |
| 85° | 0.4 | 0.4 | 0.4 | 0.7 | 1.1 | 1.8 | 7.5 | 63.4 | 83.8 | 193.4 | 159.0 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.7 | 0.7 | 1.4 | 2.1 | 2.9 | 3.6 | 4.3 | 15.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P401060

CATALOG NUMBER: ENV-SA1B-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 |
| 2.5° | 812.4 | 807.0 | 795.5 | 780.1 | 769.4 | 750.7 | 746.8 | 735.0 | 723.2 | 713.5 | 713.9 |
| 5° | 783.0 | 764.7 | 736.8 | 704.5 | 673.7 | 646.2 | 640.8 | 624.7 | 620.0 | 615.4 | 602.5 |
| 7.5° | 706.0 | 684.5 | 645.4 | 597.8 | 559.1 | 533.0 | 505.0 | 488.2 | 473.2 | 456.0 | 460.3 |
| 10° | 646.9 | 616.1 | 562.3 | 506.5 | 458.1 | 423.0 | 392.2 | 376.4 | 354.6 | 338.8 | 336.7 |
| 12.5° | 601.4 | 568.1 | 503.6 | 438.1 | 392.6 | 372.2 | 352.5 | 327.7 | 303.4 | 282.6 | 271.9 |
| 15° | 586.3 | 548.7 | 473.9 | 408.7 | 372.9 | 348.2 | 320.6 | 292.3 | 262.5 | 240.3 | 231.7 |
| 17.5° | 603.9 | 559.5 | 473.5 | 396.1 | 351.4 | 315.2 | 280.8 | 248.9 | 213.8 | 191.6 | 184.8 |
| 20° | 652.2 | 596.7 | 483.5 | 384.3 | 325.2 | 276.2 | 227.8 | 193.4 | 157.6 | 141.8 | 134.7 |
| 22.5° | 719.6 | 647.2 | 498.9 | 370.0 | 296.2 | 228.5 | 174.1 | 130.7 | 113.2 | 105.3 | 103.5 |
| 25° | 788.7 | 711.3 | 520.8 | 357.8 | 264.3 | 182.0 | 125.0 | 104.6 | 96.4 | 92.8 | 92.8 |
| 27.5° | 864.7 | 775.5 | 544.4 | 343.1 | 231.4 | 135.4 | 101.7 | 92.1 | 87.8 | 85.6 | 85.2 |
| 30° | 926.3 | 827.8 | 571.3 | 325.9 | 201.7 | 111.0 | 90.3 | 83.8 | 79.9 | 78.8 | 78.8 |
| 32.5° | 970.7 | 866.8 | 599.6 | 308.8 | 174.4 | 100.3 | 83.8 | 78.1 | 73.8 | 73.1 | 73.1 |
| 35° | 1022.6 | 904.1 | 612.5 | 299.1 | 158.0 | 93.5 | 79.2 | 73.4 | 69.5 | 67.7 | 67.7 |
| 37.5° | 1084.9 | 948.5 | 619.7 | 289.8 | 150.8 | 87.0 | 75.9 | 69.5 | 65.5 | 63.4 | 63.4 |
| 40° | 1164.1 | 999.0 | 627.2 | 280.5 | 146.5 | 81.7 | 72.4 | 65.9 | 62.7 | 60.2 | 60.2 |
| 42.5° | 1220.7 | 1045.5 | 632.9 | 272.6 | 139.0 | 79.2 | 69.5 | 63.4 | 59.5 | 57.3 | 57.0 |
| 45° | 1250.4 | 1088.9 | 635.4 | 267.9 | 130.4 | 81.3 | 67.3 | 61.2 | 56.6 | 54.4 | 54.1 |
| 47.5° | 1270.5 | 1124.7 | 638.6 | 264.3 | 123.6 | 77.4 | 67.0 | 59.1 | 54.4 | 51.6 | 51.6 |
| 50° | 1302.3 | 1172.0 | 646.9 | 257.5 | 119.6 | 72.4 | 72.4 | 58.0 | 51.9 | 49.4 | 49.1 |
| 52.5° | 1359.3 | 1239.7 | 669.1 | 250.0 | 115.3 | 67.3 | 74.5 | 58.4 | 50.1 | 47.3 | 46.6 |
| 55° | 1445.3 | 1347.5 | 706.0 | 239.3 | 109.2 | 61.2 | 69.5 | 58.7 | 48.4 | 45.8 | 44.8 |
| 57.5° | 1557.0 | 1477.9 | 749.0 | 230.7 | 98.9 | 56.2 | 63.4 | 57.0 | 46.2 | 44.1 | 43.3 |
| 60° | 1632.2 | 1564.9 | 776.2 | 219.6 | 84.2 | 53.0 | 54.4 | 55.2 | 44.1 | 41.5 | 41.2 |
| 62.5° | 1672.7 | 1566.3 | 776.5 | 204.2 | 70.6 | 50.1 | 48.7 | 56.2 | 42.3 | 39.0 | 38.7 |
| 65° | 1675.6 | 1490.0 | 737.5 | 184.5 | 65.9 | 46.9 | 44.8 | 49.8 | 40.5 | 37.3 | 36.9 |
| 67.5° | 1644.4 | 1365.7 | 648.3 | 161.9 | 67.7 | 44.4 | 41.5 | 41.9 | 38.3 | 35.5 | 35.1 |
| 70° | 1532.7 | 1204.9 | 520.1 | 144.0 | 68.1 | 41.2 | 39.0 | 38.0 | 36.2 | 33.7 | 33.0 |
| 72.5° | 1322.4 | 1006.8 | 394.0 | 138.3 | 69.1 | 38.7 | 36.2 | 35.1 | 33.7 | 31.5 | 30.8 |
| 75° | 997.9 | 785.5 | 295.9 | 128.9 | 69.8 | 35.8 | 33.0 | 32.2 | 30.8 | 28.7 | 28.3 |
| 77.5° | 689.5 | 582.4 | 205.6 | 108.9 | 62.3 | 32.6 | 29.7 | 29.0 | 27.9 | 25.8 | 25.4 |
| 80° | 465.6 | 399.4 | 126.1 | 81.7 | 47.3 | 28.7 | 25.8 | 25.8 | 24.7 | 22.6 | 22.6 |
| 82.5° | 324.2 | 298.4 | 72.7 | 53.4 | 34.4 | 23.6 | 22.6 | 22.6 | 21.5 | 19.3 | 19.0 |
| 85° | 135.4 | 180.5 | 32.6 | 29.0 | 24.0 | 18.6 | 18.6 | 19.0 | 17.9 | 16.1 | 15.8 |
| 87.5° | 4.7 | 19.3 | 12.9 | 13.6 | 14.3 | 12.9 | 14.3 | 14.3 | 14.0 | 12.5 | 12.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P401060

CATALOG NUMBER: ENV-SA1B-722-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 |
| 2.5° | 703.5 | 698.8 | 684.5 | 682.7 | 671.9 | 671.2 | 675.9 | 668.0 | 668.7 | 678.4 | 677.0 |
| 5° | 605.3 | 594.6 | 594.2 | 582.4 | 569.2 | 565.9 | 554.5 | 550.2 | 548.4 | 544.4 | 558.8 |
| 7.5° | 473.5 | 468.5 | 472.8 | 471.4 | 459.2 | 452.4 | 428.0 | 409.4 | 400.1 | 404.0 | 405.1 |
| 10° | 336.7 | 344.2 | 355.7 | 366.8 | 358.2 | 335.6 | 325.2 | 310.2 | 308.4 | 307.3 | 314.5 |
| 12.5° | 266.8 | 258.2 | 263.6 | 267.6 | 259.3 | 249.7 | 245.4 | 238.9 | 242.5 | 250.7 | 255.4 |
| 15° | 221.7 | 206.7 | 199.9 | 195.2 | 197.4 | 191.6 | 193.8 | 191.6 | 194.1 | 196.6 | 205.2 |
| 17.5° | 175.2 | 169.8 | 156.9 | 150.8 | 151.2 | 148.6 | 149.4 | 149.0 | 147.6 | 153.3 | 160.1 |
| 20° | 131.8 | 130.4 | 127.5 | 123.2 | 123.9 | 122.1 | 121.1 | 115.0 | 112.5 | 114.3 | 120.0 |
| 22.5° | 102.8 | 104.6 | 106.4 | 106.0 | 107.8 | 103.2 | 98.9 | 93.5 | 92.8 | 93.1 | 94.6 |
| 25° | 92.1 | 92.8 | 94.2 | 96.0 | 97.1 | 92.8 | 86.7 | 83.5 | 83.1 | 83.8 | 83.8 |
| 27.5° | 85.6 | 84.9 | 86.7 | 88.8 | 90.3 | 84.9 | 79.9 | 77.0 | 76.3 | 75.6 | 75.2 |
| 30° | 78.8 | 78.8 | 80.2 | 82.4 | 83.5 | 78.8 | 74.5 | 71.6 | 69.8 | 68.8 | 68.4 |
| 32.5° | 73.8 | 74.1 | 74.9 | 76.3 | 78.1 | 73.4 | 69.8 | 67.3 | 64.1 | 63.0 | 62.3 |
| 35° | 68.1 | 69.5 | 70.6 | 70.9 | 72.4 | 69.1 | 65.5 | 61.6 | 58.7 | 57.7 | 57.7 |
| 37.5° | 63.4 | 64.5 | 66.3 | 65.9 | 67.0 | 64.8 | 60.9 | 56.6 | 55.2 | 54.8 | 54.4 |
| 40° | 59.8 | 59.8 | 61.2 | 62.7 | 64.1 | 60.2 | 55.5 | 53.4 | 52.3 | 51.6 | 51.9 |
| 42.5° | 56.6 | 56.2 | 56.2 | 58.7 | 61.2 | 55.5 | 51.6 | 50.1 | 49.8 | 49.1 | 49.4 |
| 45° | 53.7 | 53.4 | 52.3 | 53.4 | 57.0 | 50.9 | 48.4 | 47.3 | 46.9 | 46.9 | 46.9 |
| 47.5° | 51.2 | 50.5 | 49.1 | 49.4 | 51.9 | 47.3 | 45.1 | 44.8 | 44.4 | 44.4 | 44.8 |
| 50° | 48.4 | 47.6 | 46.6 | 46.2 | 46.9 | 44.8 | 43.0 | 42.3 | 42.3 | 42.3 | 43.0 |
| 52.5° | 45.8 | 45.5 | 44.1 | 43.7 | 44.1 | 42.6 | 40.8 | 40.5 | 40.5 | 40.5 | 41.5 |
| 55° | 44.1 | 43.3 | 42.6 | 41.9 | 42.6 | 40.8 | 39.4 | 38.7 | 38.7 | 39.4 | 40.1 |
| 57.5° | 42.3 | 41.5 | 41.2 | 40.5 | 41.2 | 39.4 | 38.0 | 37.3 | 37.6 | 38.0 | 38.0 |
| 60° | 40.5 | 39.8 | 39.4 | 38.7 | 39.8 | 38.0 | 36.5 | 36.2 | 36.2 | 35.8 | 35.8 |
| 62.5° | 38.7 | 38.3 | 37.6 | 36.9 | 38.3 | 36.2 | 35.1 | 34.4 | 34.0 | 34.0 | 34.0 |
| 65° | 36.5 | 36.2 | 35.8 | 35.5 | 36.2 | 34.4 | 33.3 | 33.0 | 32.2 | 31.9 | 32.2 |
| 67.5° | 34.7 | 34.7 | 34.0 | 33.3 | 34.4 | 32.2 | 31.5 | 31.2 | 30.1 | 29.7 | 30.1 |
| 70° | 32.6 | 32.6 | 31.9 | 31.5 | 33.0 | 30.1 | 29.4 | 29.0 | 28.3 | 27.9 | 27.9 |
| 72.5° | 30.4 | 30.4 | 29.7 | 29.4 | 31.2 | 27.9 | 27.2 | 26.9 | 25.8 | 25.4 | 25.4 |
| 75° | 28.3 | 27.9 | 27.6 | 27.2 | 29.4 | 25.8 | 24.7 | 24.0 | 22.9 | 22.6 | 22.2 |
| 77.5° | 25.8 | 25.4 | 24.7 | 25.1 | 26.5 | 22.9 | 21.5 | 21.1 | 20.1 | 19.7 | 19.3 |
| 80° | 22.6 | 22.2 | 21.8 | 22.6 | 22.6 | 20.1 | 18.3 | 17.6 | 16.5 | 15.8 | 15.4 |
| 82.5° | 19.3 | 19.0 | 19.0 | 19.7 | 18.6 | 17.6 | 15.4 | 14.0 | 12.2 | 11.1 | 10.7 |
| 85° | 15.8 | 16.5 | 15.8 | 16.5 | 14.0 | 14.0 | 10.7 | 8.2 | 5.7 | 4.7 | 4.3 |
| 87.5° | 12.2 | 12.5 | 12.2 | 12.5 | 9.7 | 9.3 | 5.0 | 2.9 | 0.4 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 | 769.7 |
| 2.5° | 687.7 | 688.4 | 703.8 | 719.2 | 728.5 | 751.8 | 763.3 | 776.2 | 783.0 | 790.9 |
| 5° | 552.0 | 565.6 | 578.1 | 608.9 | 624.7 | 661.6 | 688.4 | 731.4 | 745.0 | 755.8 |
| 7.5° | 416.9 | 437.3 | 452.7 | 491.1 | 520.8 | 566.6 | 613.6 | 664.8 | 679.5 | 689.1 |
| 10° | 331.3 | 349.9 | 379.0 | 409.0 | 442.4 | 497.9 | 548.7 | 601.7 | 627.5 | 638.6 |
| 12.5° | 278.3 | 308.0 | 342.1 | 370.0 | 396.5 | 437.3 | 501.8 | 568.8 | 595.7 | 607.5 |
| 15° | 229.6 | 262.9 | 297.6 | 332.0 | 365.0 | 411.2 | 478.9 | 565.9 | 600.0 | 611.8 |
| 17.5° | 182.3 | 209.5 | 244.6 | 286.2 | 334.2 | 392.9 | 483.2 | 596.4 | 637.9 | 653.3 |
| 20° | 129.7 | 156.2 | 192.0 | 243.2 | 300.2 | 373.9 | 493.2 | 642.2 | 701.3 | 718.9 |
| 22.5° | 97.8 | 112.5 | 145.4 | 195.9 | 269.7 | 358.9 | 509.0 | 704.9 | 774.0 | 789.8 |
| 25° | 86.0 | 91.0 | 107.8 | 156.5 | 239.3 | 345.3 | 529.8 | 767.2 | 851.0 | 868.2 |
| 27.5° | 76.3 | 79.2 | 87.8 | 125.7 | 216.7 | 331.3 | 554.5 | 834.6 | 917.3 | 939.9 |
| 30° | 68.8 | 72.4 | 79.5 | 105.3 | 194.9 | 311.3 | 577.0 | 895.1 | 973.5 | 990.7 |
| 32.5° | 63.0 | 67.0 | 73.4 | 95.3 | 176.2 | 296.2 | 589.9 | 940.2 | 1021.5 | 1037.3 |
| 35° | 59.1 | 62.7 | 69.1 | 86.3 | 159.7 | 285.8 | 593.9 | 985.0 | 1080.3 | 1096.4 |
| 37.5° | 55.5 | 59.1 | 64.8 | 77.4 | 148.3 | 272.2 | 600.0 | 1038.4 | 1148.3 | 1169.5 |
| 40° | 53.0 | 55.9 | 61.2 | 71.3 | 132.5 | 257.5 | 607.1 | 1100.7 | 1214.6 | 1235.7 |
| 42.5° | 50.5 | 53.7 | 58.4 | 71.6 | 116.8 | 245.0 | 611.8 | 1148.7 | 1267.2 | 1287.3 |
| 45° | 48.4 | 51.9 | 57.3 | 70.2 | 104.9 | 233.5 | 609.6 | 1188.8 | 1315.2 | 1330.6 |
| 47.5° | 46.2 | 50.5 | 60.2 | 67.3 | 101.4 | 223.1 | 611.4 | 1227.5 | 1349.6 | 1361.8 |
| 50° | 44.8 | 50.1 | 64.5 | 63.0 | 102.1 | 218.5 | 628.6 | 1273.7 | 1375.4 | 1380.1 |
| 52.5° | 43.7 | 51.2 | 60.9 | 57.0 | 102.1 | 216.3 | 661.6 | 1348.2 | 1420.2 | 1417.0 |
| 55° | 41.9 | 50.9 | 57.0 | 51.6 | 97.8 | 217.4 | 692.7 | 1446.7 | 1527.6 | 1509.7 |
| 57.5° | 40.5 | 48.7 | 51.2 | 47.6 | 87.8 | 217.8 | 738.9 | 1529.8 | 1612.2 | 1614.7 |
| 60° | 38.7 | 52.3 | 44.4 | 44.4 | 75.2 | 216.0 | 779.8 | 1528.4 | 1627.6 | 1644.1 |
| 62.5° | 36.9 | 51.2 | 39.8 | 41.2 | 66.6 | 209.2 | 804.5 | 1439.2 | 1570.6 | 1601.1 |
| 65° | 34.7 | 40.5 | 36.5 | 38.3 | 63.0 | 192.3 | 769.4 | 1328.5 | 1493.6 | 1526.2 |
| 67.5° | 32.2 | 33.3 | 33.3 | 35.5 | 61.6 | 166.9 | 680.9 | 1206.4 | 1396.9 | 1436.3 |
| 70° | 29.4 | 29.7 | 30.4 | 33.7 | 57.3 | 143.6 | 554.5 | 1076.3 | 1293.0 | 1342.8 |
| 72.5° | 26.5 | 26.9 | 26.9 | 30.4 | 53.7 | 123.9 | 392.6 | 852.8 | 1079.6 | 1131.9 |
| 75° | 23.3 | 23.6 | 23.3 | 26.5 | 46.9 | 92.8 | 233.2 | 539.4 | 644.0 | 703.1 |
| 77.5° | 19.7 | 19.7 | 19.0 | 20.8 | 32.2 | 58.7 | 127.5 | 327.7 | 391.9 | 428.4 |
| 80° | 16.1 | 14.7 | 12.2 | 12.5 | 17.6 | 33.7 | 57.0 | 188.0 | 214.9 | 224.2 |
| 82.5° | 10.7 | 8.2 | 5.0 | 4.7 | 5.7 | 9.3 | 13.3 | 74.5 | 68.4 | 64.8 |
| 85° | 2.1 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)