

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: LUMARK

Report Number: P196211

Luminaire Tested: **NAV-AF-05-D-UNV-SLL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-AF-05-D-UNV-SLL-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21949.5 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

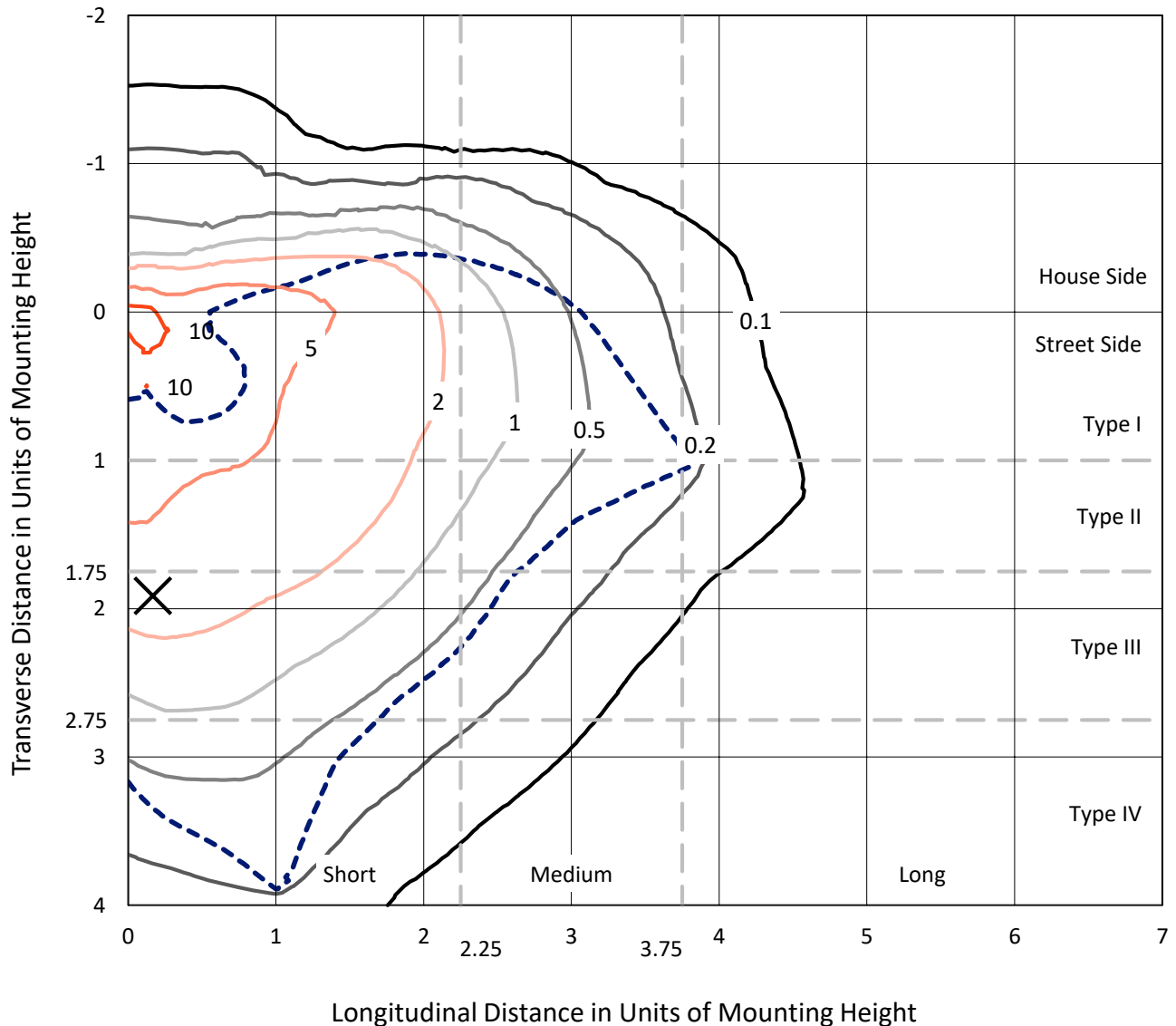
Input Watts (W): 210
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

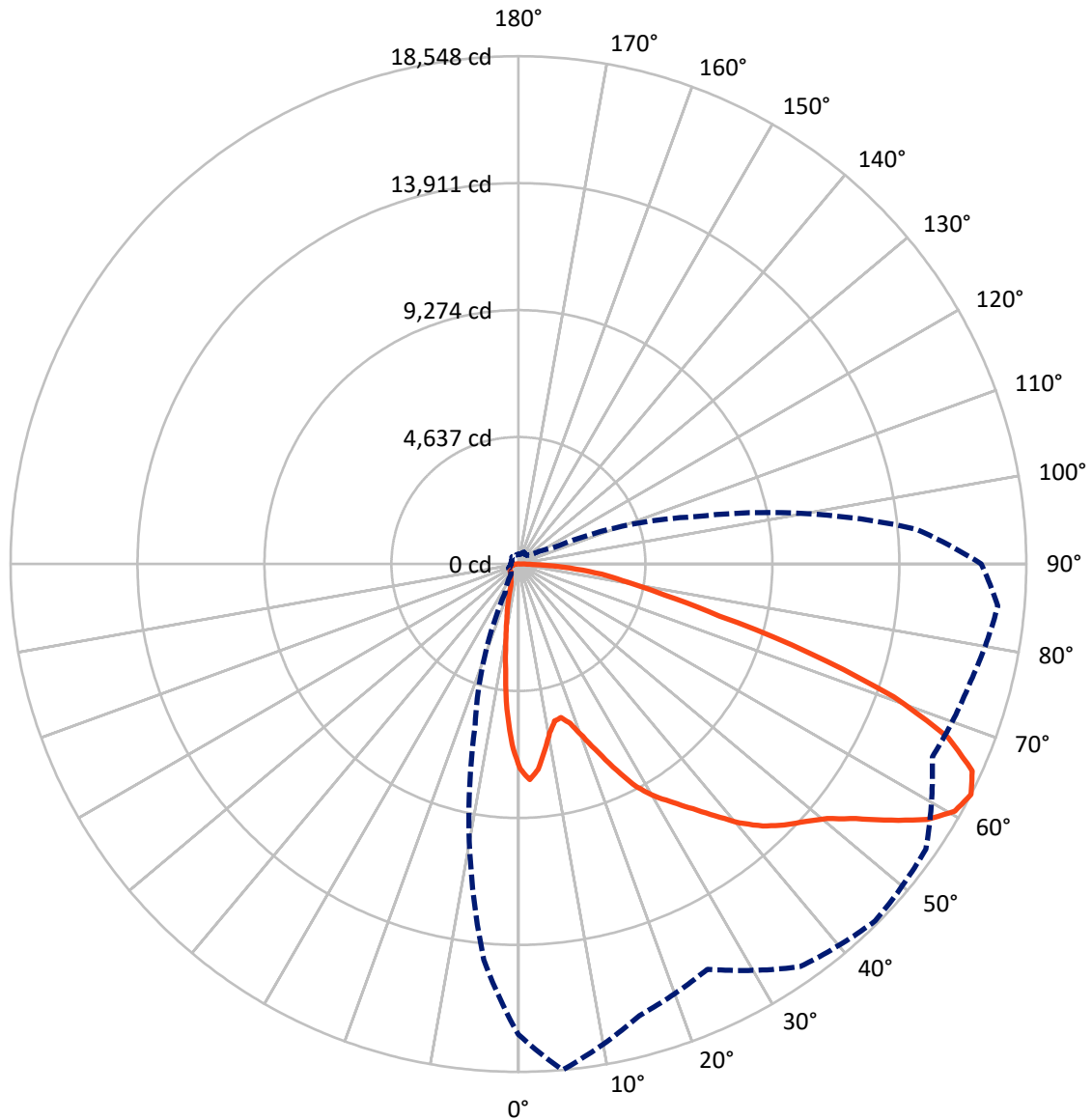
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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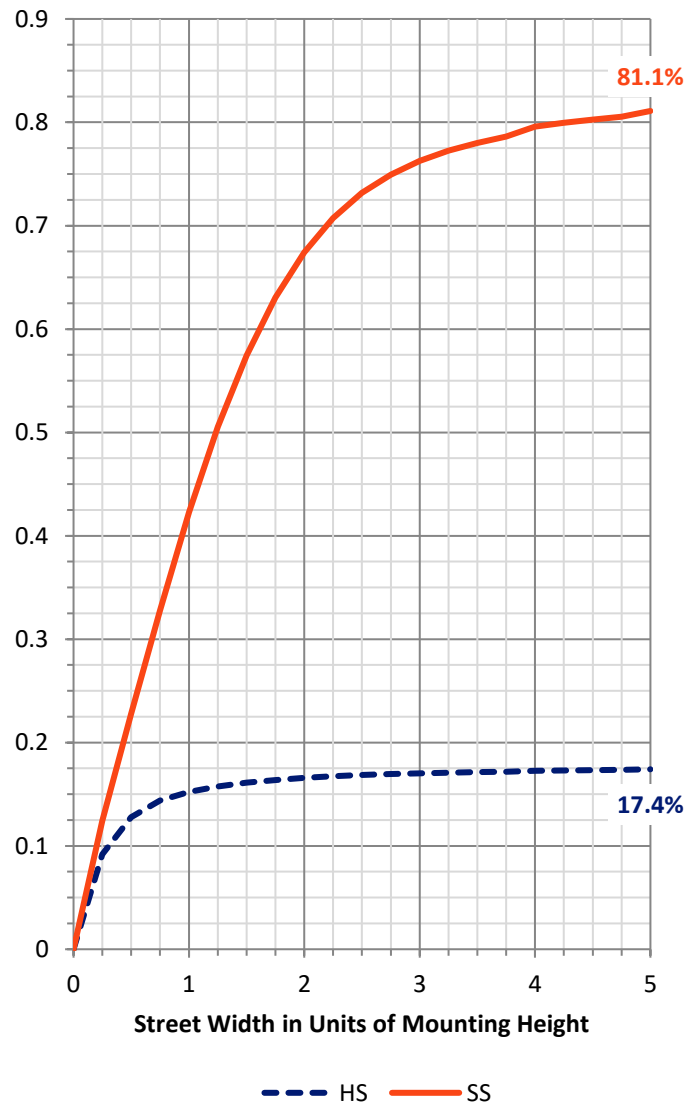
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3888.4 | 0.0 | 3888.4 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 18061.1 | 0.0 | 18061.1 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 21949.5 | 0.0 | 21949.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 544.2 | 2.5 |
| 10°-20° | 994.0 | 4.5 |
| 20°-30° | 1429.6 | 6.5 |
| 30°-40° | 2189.6 | 10.0 |
| 40°-50° | 3201.2 | 14.6 |
| 50°-60° | 4657.8 | 21.2 |
| 60°-70° | 5396.7 | 24.6 |
| 70°-80° | 2813.2 | 12.8 |
| 80°-90° | 723.1 | 3.3 |
| 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° | 21949.5 | 100.0 |
| 0°-180° | 21949.5 | 100.0 |



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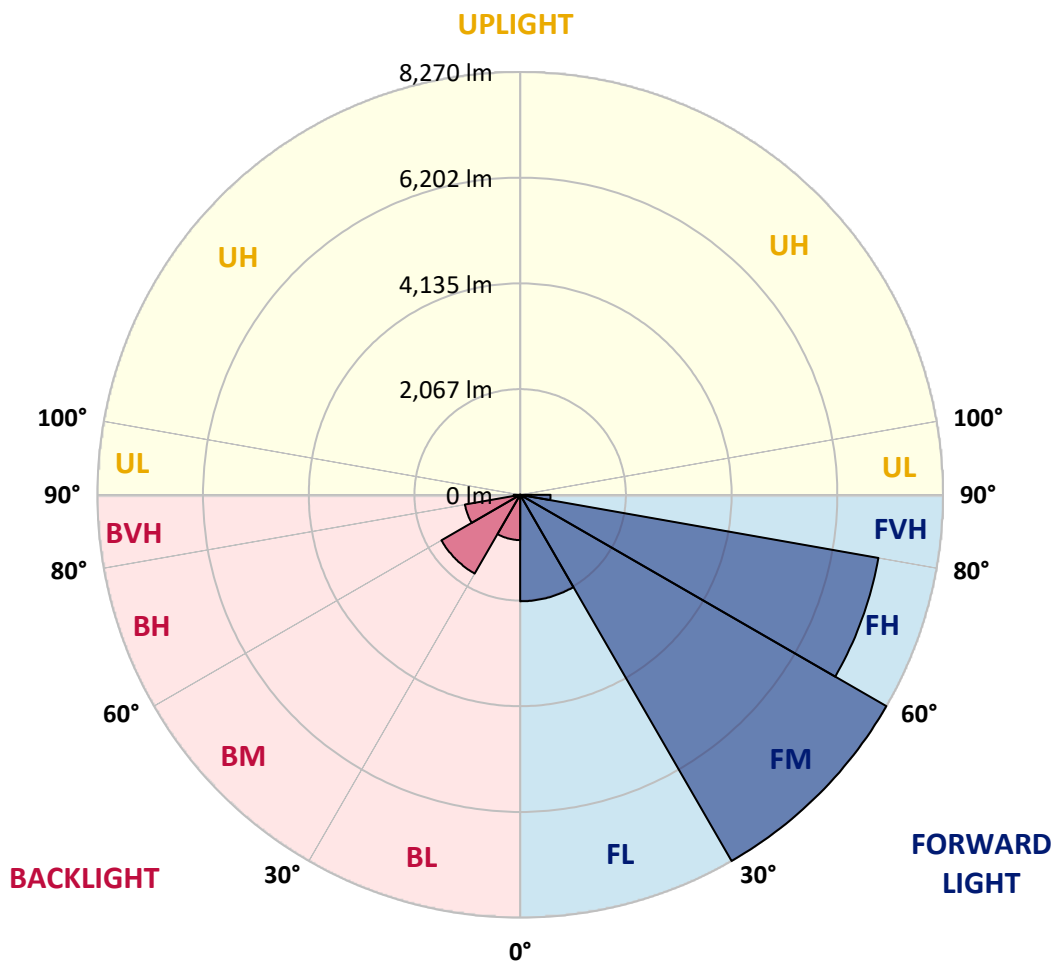
CATALOG NUMBER: NAV-AF-05-D-UNV-SLL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2083.1 | 9.5 | | | |
| FM | (30°-60°) | 8269.5 | 37.7 | | | |
| FH | (60°-80°) | 7113.5 | 32.4 | | | G3/7500 |
| FVH | (80°-90°) | 594.9 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 884.7 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 1779.1 | 8.1 | B2/2500 | | |
| BH | (60°-80°) | 1096.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 128.2 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CATALOG NUMBER: NAV-AF-05-D-UNV-SLL-800

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 |
| 2.5° | 7724.9 | 7888.8 | 8076.6 | 8321.7 | 8488.9 | 8555.7 | 8611.3 | 8517.5 | 8426.8 | 8256.4 | 8196.0 |
| 5° | 7215.7 | 7530.8 | 8048.0 | 8539.7 | 8972.6 | 9220.9 | 9297.3 | 9123.8 | 8815.1 | 8369.5 | 8133.9 |
| 7.5° | 6459.7 | 6875.0 | 7602.4 | 8326.5 | 8947.1 | 9360.9 | 9391.2 | 9047.4 | 8439.4 | 7709.0 | 7327.1 |
| 10° | 5799.2 | 6268.7 | 7110.6 | 7920.6 | 8578.0 | 9001.3 | 8918.5 | 8436.3 | 7702.6 | 6871.9 | 6440.6 |
| 12.5° | 5415.7 | 5885.1 | 6743.0 | 7565.7 | 8184.8 | 8345.5 | 8176.9 | 7771.1 | 7075.5 | 6243.3 | 5808.8 |
| 15° | 5334.6 | 5818.3 | 6612.5 | 7306.3 | 7689.9 | 7586.4 | 7419.4 | 7214.1 | 6719.2 | 6038.0 | 5617.8 |
| 17.5° | 5579.6 | 6120.7 | 6785.9 | 7166.3 | 7150.4 | 6902.2 | 6762.1 | 6801.9 | 6717.5 | 6260.8 | 5821.5 |
| 20° | 6084.1 | 6723.9 | 7226.7 | 7128.1 | 6720.7 | 6372.2 | 6291.0 | 6602.9 | 6992.8 | 6819.4 | 6337.2 |
| 22.5° | 6747.8 | 7476.6 | 7828.3 | 7237.9 | 6496.4 | 6120.7 | 6104.8 | 6591.8 | 7494.1 | 7664.5 | 7077.2 |
| 25° | 7497.3 | 8347.2 | 8434.7 | 7432.0 | 6472.4 | 6098.4 | 6084.1 | 6763.6 | 8097.3 | 8501.5 | 7906.3 |
| 27.5° | 8414.0 | 9225.7 | 8940.8 | 7691.5 | 6577.5 | 6163.7 | 6173.2 | 7056.5 | 8726.0 | 9329.1 | 8840.5 |
| 30° | 9104.7 | 9849.5 | 9252.7 | 7946.1 | 6746.2 | 6278.3 | 6302.2 | 7373.2 | 9064.9 | 9903.6 | 9586.9 |
| 32.5° | 9750.9 | 10382.6 | 9551.9 | 8197.5 | 6992.8 | 6448.6 | 6531.3 | 7767.9 | 9472.3 | 10397.0 | 10291.9 |
| 35° | 10465.4 | 10979.4 | 9884.5 | 8466.6 | 7346.1 | 6747.8 | 6867.1 | 8143.5 | 9876.6 | 10890.3 | 10990.6 |
| 37.5° | 11275.5 | 11662.2 | 10245.8 | 8846.9 | 7855.4 | 7301.6 | 7368.4 | 8527.0 | 10158.2 | 11436.2 | 11740.1 |
| 40° | 12118.9 | 12427.6 | 10640.4 | 9354.6 | 8595.4 | 8049.6 | 8081.4 | 9018.7 | 10379.5 | 12001.2 | 12467.4 |
| 42.5° | 12843.0 | 13083.3 | 11036.7 | 9984.8 | 9445.3 | 8811.9 | 8838.9 | 9548.7 | 10591.1 | 12488.1 | 13049.9 |
| 45° | 13422.3 | 13599.0 | 11410.7 | 10648.4 | 10352.4 | 9763.6 | 9757.2 | 10088.2 | 10874.4 | 12898.7 | 13497.1 |
| 47.5° | 13961.8 | 14055.8 | 11827.7 | 11294.5 | 11293.0 | 10988.9 | 10761.4 | 10724.8 | 11251.5 | 13244.0 | 13887.0 |
| 50° | 14579.3 | 14614.3 | 12378.3 | 11947.0 | 12441.9 | 12394.3 | 11974.0 | 11533.3 | 11740.1 | 13632.4 | 14296.0 |
| 52.5° | 15438.7 | 15440.2 | 13061.0 | 12583.6 | 13710.4 | 13861.5 | 13372.9 | 12448.3 | 12462.6 | 14388.3 | 15002.6 |
| 55° | 16449.3 | 16519.2 | 13950.7 | 13345.9 | 15037.6 | 15295.5 | 14835.5 | 13535.3 | 13500.3 | 15607.4 | 16148.5 |
| 57.5° | 17230.7 | 17601.5 | 14986.7 | 14299.2 | 16277.4 | 16613.1 | 16242.3 | 14662.1 | 14775.0 | 16864.6 | 17093.8 |
| 60° | 17450.3 | 18317.6 | 16019.5 | 15368.6 | 17326.1 | 17830.6 | 17453.5 | 15879.5 | 16022.8 | 17681.0 | 17365.9 |
| 62.5° | 17187.7 | 18548.3 | 17071.5 | 16326.7 | 17948.4 | 18432.2 | 18161.7 | 16676.9 | 17039.7 | 17576.0 | 16906.0 |
| 65° | 16409.5 | 18214.2 | 17985.0 | 16734.1 | 17590.4 | 17762.2 | 17690.6 | 16718.2 | 17591.9 | 16583.0 | 15634.5 |
| 67.5° | 14592.0 | 16925.1 | 17577.6 | 15863.6 | 15917.7 | 15733.1 | 15639.2 | 15581.9 | 16971.3 | 14980.3 | 13629.2 |
| 70° | 11867.5 | 14542.7 | 15634.5 | 13275.9 | 12874.9 | 12696.6 | 12387.8 | 13151.8 | 15254.0 | 12763.5 | 11216.6 |
| 72.5° | 9141.3 | 11125.8 | 12823.9 | 10064.3 | 9230.4 | 9290.8 | 8940.8 | 10056.4 | 12636.1 | 9867.0 | 8563.6 |
| 75° | 6491.5 | 7586.4 | 10236.3 | 7231.5 | 6127.1 | 6123.9 | 6096.9 | 7237.9 | 9970.5 | 7082.0 | 6265.6 |
| 77.5° | 4678.9 | 5461.8 | 8019.3 | 4839.6 | 4347.8 | 4403.5 | 4314.4 | 4919.2 | 7772.7 | 5094.2 | 4642.3 |
| 80° | 3731.9 | 4043.9 | 5183.4 | 3227.5 | 3237.0 | 3367.6 | 3348.4 | 3364.3 | 5113.3 | 3689.0 | 3471.0 |
| 82.5° | 2681.6 | 3069.9 | 3962.7 | 2473.1 | 2140.5 | 2278.9 | 2306.0 | 2495.4 | 3607.8 | 2608.4 | 2288.5 |
| 85° | 1375.1 | 1871.6 | 3646.0 | 2142.1 | 1338.4 | 1109.3 | 1276.3 | 1968.7 | 3133.6 | 1562.8 | 1115.6 |
| 87.5° | 267.4 | 518.8 | 2672.0 | 1190.4 | 601.6 | 303.9 | 501.3 | 833.9 | 1822.2 | 283.3 | 138.4 |
| 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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CATALOG NUMBER: NAV-AF-05-D-UNV-SLL-800

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 |
| 2.5° | 8092.6 | 7888.8 | 7697.8 | 7500.5 | 7347.8 | 7161.6 | 6978.5 | 6819.4 | 6665.0 | 6563.2 | 6595.0 |
| 5° | 7895.2 | 7398.7 | 6953.1 | 6539.3 | 6297.4 | 6006.2 | 5746.7 | 5528.7 | 5360.1 | 5251.8 | 5317.0 |
| 7.5° | 6996.1 | 6324.4 | 5737.2 | 5191.3 | 4847.6 | 4470.4 | 4168.0 | 3954.7 | 3824.3 | 3751.1 | 3857.6 |
| 10° | 6076.1 | 5321.8 | 4662.9 | 4094.8 | 3755.9 | 3436.0 | 3162.2 | 2936.3 | 2761.1 | 2678.4 | 2721.4 |
| 12.5° | 5417.3 | 4578.6 | 3887.9 | 3506.0 | 3214.7 | 2928.3 | 2645.0 | 2380.8 | 2158.0 | 2056.1 | 2035.5 |
| 15° | 5170.6 | 4179.2 | 3474.1 | 3047.7 | 2758.0 | 2446.1 | 2140.5 | 1857.3 | 1645.5 | 1558.1 | 1538.9 |
| 17.5° | 5278.8 | 4093.2 | 3229.0 | 2724.5 | 2304.4 | 1925.7 | 1581.9 | 1314.5 | 1158.6 | 1109.3 | 1114.0 |
| 20° | 5659.2 | 4125.0 | 3031.7 | 2392.0 | 1873.1 | 1424.4 | 1080.6 | 896.0 | 829.1 | 818.1 | 830.7 |
| 22.5° | 6181.2 | 4255.6 | 2888.5 | 2105.5 | 1492.8 | 1036.0 | 803.7 | 716.2 | 698.7 | 697.0 | 709.8 |
| 25° | 6870.3 | 4510.2 | 2793.0 | 1850.8 | 1179.3 | 821.2 | 700.2 | 650.9 | 636.6 | 639.8 | 652.5 |
| 27.5° | 7682.0 | 4833.2 | 2731.0 | 1631.2 | 969.1 | 732.0 | 654.1 | 611.1 | 596.8 | 600.0 | 609.6 |
| 30° | 8423.6 | 5116.5 | 2638.6 | 1465.7 | 870.5 | 700.2 | 628.6 | 585.6 | 566.5 | 566.5 | 573.0 |
| 32.5° | 9087.2 | 5361.6 | 2530.4 | 1341.6 | 779.8 | 628.6 | 569.8 | 536.3 | 522.0 | 526.8 | 530.0 |
| 35° | 9676.0 | 5490.5 | 2446.1 | 1268.4 | 706.7 | 579.3 | 520.4 | 485.4 | 466.3 | 469.4 | 474.2 |
| 37.5° | 10255.3 | 5539.9 | 2390.3 | 1228.6 | 654.1 | 549.0 | 494.9 | 466.3 | 445.6 | 442.4 | 440.8 |
| 40° | 10805.9 | 5528.7 | 2337.9 | 1217.4 | 619.1 | 526.8 | 479.0 | 453.6 | 432.9 | 428.1 | 426.5 |
| 42.5° | 11281.8 | 5492.1 | 2288.5 | 1187.2 | 595.2 | 510.9 | 466.3 | 444.1 | 423.3 | 417.0 | 413.8 |
| 45° | 11716.3 | 5469.8 | 2234.4 | 1131.5 | 607.9 | 504.5 | 459.9 | 436.1 | 417.0 | 409.0 | 405.8 |
| 47.5° | 12198.5 | 5549.4 | 2173.9 | 1071.0 | 604.8 | 506.1 | 459.9 | 432.9 | 413.8 | 405.8 | 402.6 |
| 50° | 12773.0 | 5818.3 | 2099.1 | 988.3 | 576.1 | 541.1 | 458.4 | 428.1 | 410.6 | 405.8 | 399.5 |
| 52.5° | 13584.6 | 6254.4 | 1995.7 | 881.7 | 553.8 | 577.7 | 456.7 | 420.1 | 405.8 | 397.8 | 389.9 |
| 55° | 14697.0 | 6690.5 | 1862.0 | 768.6 | 518.8 | 552.2 | 459.9 | 410.6 | 394.7 | 386.7 | 377.2 |
| 57.5° | 15609.0 | 7021.5 | 1693.3 | 674.7 | 487.0 | 522.0 | 455.1 | 399.5 | 382.0 | 374.0 | 366.0 |
| 60° | 15550.1 | 7053.3 | 1532.6 | 614.3 | 467.9 | 469.4 | 466.3 | 391.5 | 370.8 | 364.5 | 358.0 |
| 62.5° | 14587.3 | 6660.2 | 1382.9 | 584.1 | 453.6 | 428.1 | 475.9 | 382.0 | 359.7 | 353.3 | 348.5 |
| 65° | 12984.6 | 5745.1 | 1303.4 | 584.1 | 440.8 | 405.8 | 415.3 | 369.2 | 348.5 | 342.2 | 339.0 |
| 67.5° | 10952.3 | 4616.8 | 1228.6 | 596.8 | 423.3 | 389.9 | 377.2 | 356.5 | 337.4 | 331.0 | 327.9 |
| 70° | 8778.5 | 3633.3 | 1176.1 | 590.4 | 407.4 | 372.4 | 356.5 | 339.0 | 319.9 | 318.2 | 315.1 |
| 72.5° | 6886.2 | 2918.7 | 1152.3 | 590.4 | 383.5 | 351.7 | 335.8 | 323.0 | 303.9 | 302.4 | 297.6 |
| 75° | 5517.6 | 2191.5 | 1053.5 | 579.3 | 359.7 | 324.7 | 310.4 | 299.2 | 280.1 | 281.7 | 278.5 |
| 77.5° | 4273.1 | 1550.1 | 880.0 | 522.0 | 329.4 | 294.4 | 283.3 | 275.3 | 253.1 | 254.6 | 254.6 |
| 80° | 3342.1 | 1008.9 | 682.7 | 432.9 | 294.4 | 259.4 | 251.4 | 245.1 | 221.2 | 224.4 | 224.4 |
| 82.5° | 2290.1 | 600.0 | 494.9 | 348.5 | 253.1 | 221.2 | 219.6 | 210.1 | 184.6 | 186.2 | 189.3 |
| 85° | 1250.9 | 394.7 | 329.4 | 257.8 | 199.0 | 179.8 | 176.7 | 171.9 | 148.0 | 148.0 | 149.6 |
| 87.5° | 230.8 | 211.6 | 194.2 | 170.3 | 133.7 | 128.9 | 124.1 | 128.9 | 111.4 | 108.2 | 108.2 |
| 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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CATALOG NUMBER: NAV-AF-05-D-UNV-SLL-800

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 | 7483.0 |
| 2.5° | 6520.2 | 6410.3 | 6334.0 | 6267.1 | 6106.4 | 6117.6 | 6139.9 | 6171.7 | 6071.4 | 6123.9 | 6189.2 |
| 5° | 5251.8 | 5161.1 | 5092.7 | 4986.1 | 4761.6 | 4682.0 | 4631.1 | 4608.8 | 4459.2 | 4491.1 | 4561.1 |
| 7.5° | 3872.0 | 3870.4 | 3846.5 | 3727.2 | 3456.7 | 3292.7 | 3184.4 | 3151.1 | 3058.7 | 3093.8 | 3200.4 |
| 10° | 2726.2 | 2754.8 | 2743.7 | 2637.1 | 2395.1 | 2277.4 | 2253.5 | 2320.4 | 2321.9 | 2390.3 | 2573.3 |
| 12.5° | 1970.2 | 1954.3 | 1940.0 | 1852.5 | 1671.0 | 1652.0 | 1706.1 | 1798.3 | 1820.6 | 1893.8 | 2084.8 |
| 15° | 1470.5 | 1432.3 | 1424.4 | 1355.9 | 1236.5 | 1254.0 | 1293.8 | 1341.6 | 1343.1 | 1394.1 | 1551.7 |
| 17.5° | 1102.8 | 1102.8 | 1115.6 | 1071.0 | 985.1 | 977.1 | 956.5 | 943.8 | 924.6 | 945.3 | 1031.2 |
| 20° | 856.2 | 896.0 | 927.8 | 902.3 | 824.4 | 786.1 | 746.3 | 721.0 | 706.7 | 708.2 | 733.7 |
| 22.5° | 733.7 | 765.5 | 806.9 | 794.1 | 728.9 | 679.5 | 654.1 | 636.6 | 625.4 | 625.4 | 639.8 |
| 25° | 671.6 | 692.2 | 730.5 | 724.1 | 668.4 | 628.6 | 607.9 | 590.4 | 577.7 | 576.1 | 590.4 |
| 27.5° | 622.3 | 634.9 | 660.4 | 657.2 | 600.0 | 574.5 | 561.8 | 550.7 | 542.7 | 541.1 | 555.5 |
| 30° | 577.7 | 584.1 | 596.8 | 592.0 | 549.0 | 523.5 | 518.8 | 514.0 | 509.2 | 510.9 | 531.5 |
| 32.5° | 537.9 | 542.7 | 550.7 | 544.3 | 502.9 | 480.6 | 472.7 | 466.3 | 461.6 | 466.3 | 490.2 |
| 35° | 493.4 | 507.7 | 517.2 | 514.0 | 469.4 | 442.4 | 424.9 | 409.0 | 402.6 | 407.4 | 434.4 |
| 37.5° | 455.1 | 479.0 | 491.7 | 488.6 | 442.4 | 410.6 | 388.3 | 385.1 | 385.1 | 391.5 | 418.6 |
| 40° | 440.8 | 458.4 | 469.4 | 464.7 | 418.6 | 386.7 | 374.0 | 369.2 | 370.8 | 377.2 | 405.8 |
| 42.5° | 428.1 | 444.1 | 447.2 | 437.6 | 391.5 | 370.8 | 362.8 | 356.5 | 359.7 | 367.6 | 396.3 |
| 45° | 417.0 | 429.7 | 428.1 | 413.8 | 369.2 | 354.9 | 354.9 | 350.2 | 351.7 | 358.0 | 388.3 |
| 47.5° | 409.0 | 415.3 | 412.1 | 397.8 | 353.3 | 342.2 | 347.0 | 347.0 | 350.2 | 354.9 | 385.1 |
| 50° | 396.3 | 401.0 | 397.8 | 385.1 | 340.5 | 331.0 | 335.8 | 342.2 | 345.3 | 350.2 | 377.2 |
| 52.5° | 383.5 | 386.7 | 385.1 | 372.4 | 327.9 | 321.5 | 321.5 | 327.9 | 334.2 | 340.5 | 364.5 |
| 55° | 370.8 | 374.0 | 375.6 | 366.0 | 318.2 | 311.9 | 310.4 | 310.4 | 316.7 | 326.2 | 351.7 |
| 57.5° | 361.3 | 361.3 | 364.5 | 358.0 | 308.7 | 300.7 | 292.9 | 294.4 | 302.4 | 310.4 | 335.8 |
| 60° | 350.2 | 351.7 | 356.5 | 350.2 | 296.0 | 283.3 | 276.9 | 284.9 | 288.1 | 296.0 | 323.0 |
| 62.5° | 340.5 | 340.5 | 343.7 | 339.0 | 284.9 | 272.1 | 267.4 | 275.3 | 275.3 | 283.3 | 310.4 |
| 65° | 332.7 | 331.0 | 331.0 | 329.4 | 273.7 | 261.0 | 257.8 | 261.0 | 262.6 | 270.6 | 297.6 |
| 67.5° | 326.2 | 318.2 | 318.2 | 321.5 | 262.6 | 249.9 | 248.3 | 248.3 | 249.9 | 259.4 | 283.3 |
| 70° | 311.9 | 305.6 | 303.9 | 315.1 | 251.4 | 235.6 | 235.6 | 232.3 | 235.6 | 240.3 | 265.8 |
| 72.5° | 296.0 | 291.2 | 289.6 | 305.6 | 240.3 | 219.6 | 216.5 | 214.8 | 216.5 | 221.2 | 245.1 |
| 75° | 275.3 | 272.1 | 275.3 | 299.2 | 229.1 | 202.1 | 197.3 | 195.8 | 195.8 | 197.3 | 222.8 |
| 77.5° | 251.4 | 248.3 | 272.1 | 278.5 | 222.8 | 181.5 | 176.7 | 173.5 | 170.3 | 170.3 | 199.0 |
| 80° | 222.8 | 221.2 | 262.6 | 235.6 | 213.3 | 159.2 | 151.2 | 146.4 | 143.2 | 141.7 | 170.3 |
| 82.5° | 194.2 | 191.0 | 224.4 | 184.6 | 176.7 | 130.5 | 119.4 | 109.8 | 105.1 | 105.1 | 130.5 |
| 85° | 159.2 | 157.5 | 176.7 | 135.2 | 122.5 | 95.4 | 79.6 | 71.6 | 65.3 | 65.3 | 84.4 |
| 87.5° | 116.2 | 113.0 | 109.8 | 81.1 | 62.1 | 43.0 | 30.3 | 28.6 | 25.5 | 23.8 | 35.0 |
| 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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| 82.5° | 138.4 | 140.0 | 152.8 | 214.8 | 305.6 | 501.3 | 2349.0 | 2681.6 |
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