

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: STREETWORKS

Report Number: P402619

Luminaire Tested: **GAN-AF-07-LED-U-SL3-AMB-HSS**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402619  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/8/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-SL3-AMB-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

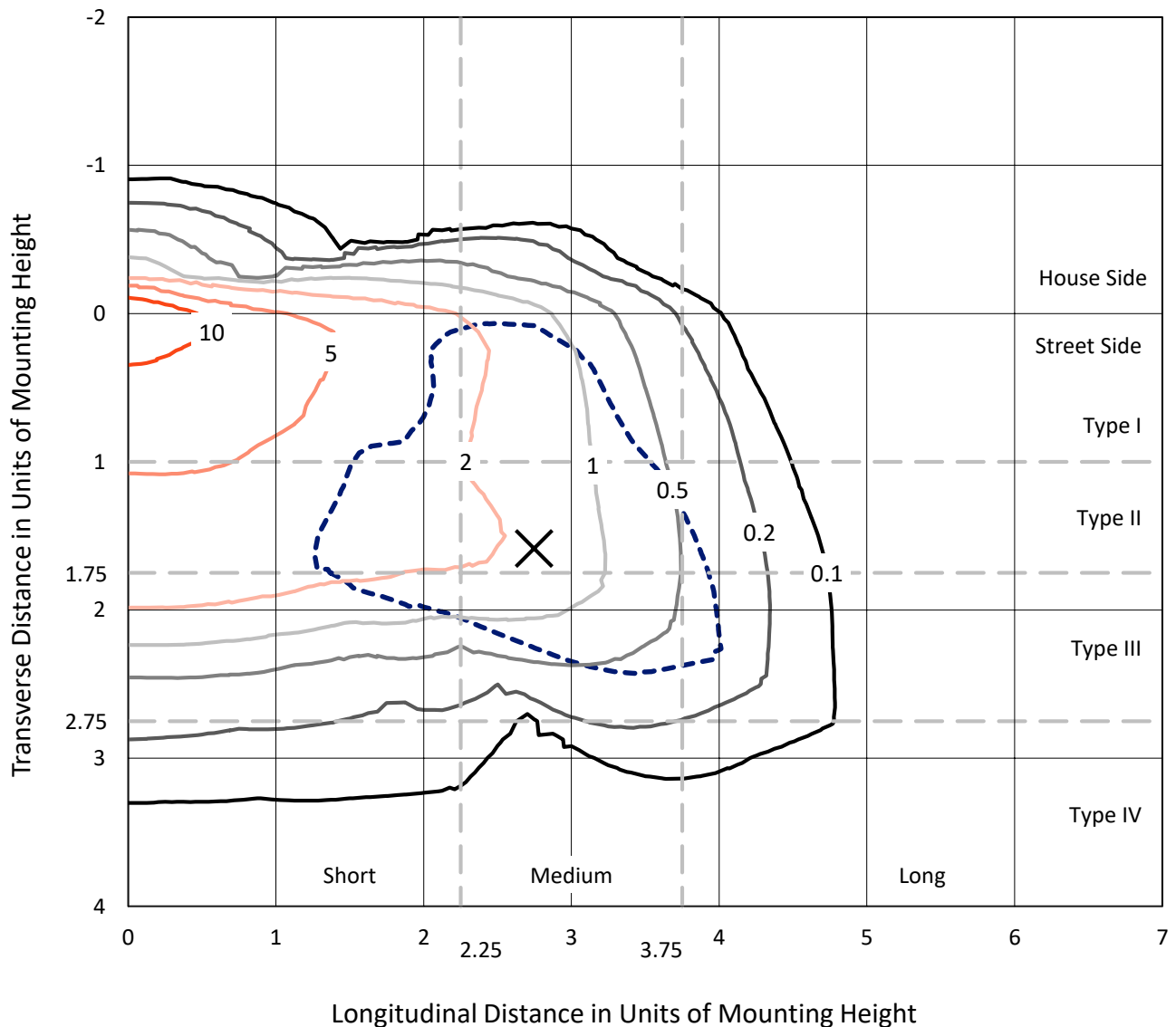
Lumens per Lamp: N/A  
Luminaire Lumens: 5691 lumens  
Efficiency: N/A  
Efficacy: 41.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 138.8  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

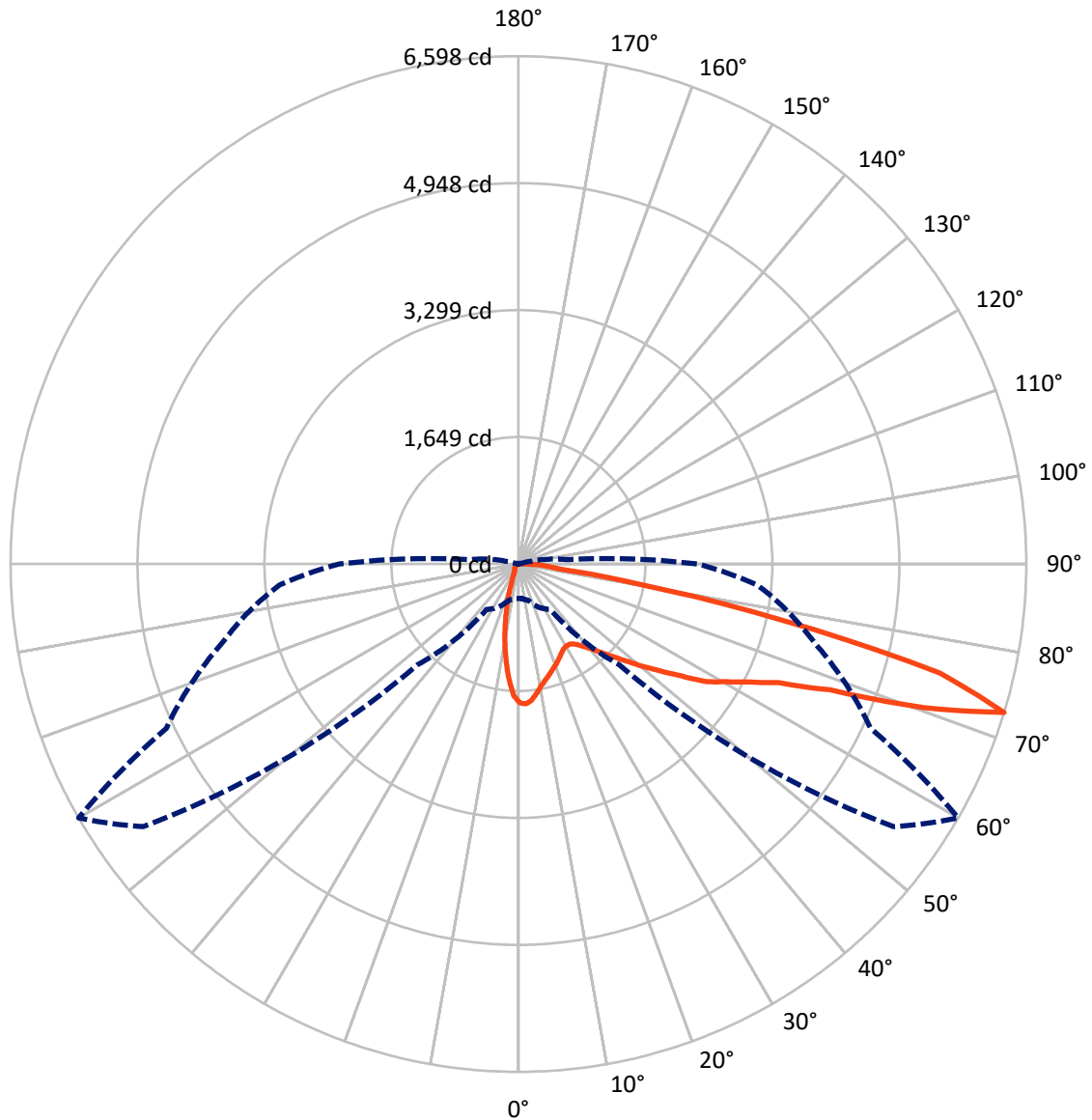
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Medium - Non-Cutoff

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CATALOG NUMBER: GAN-AF-07-LED-U-SL3-AMB-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: GAN-AF-07-LED-U-SL3-AMB-HSS

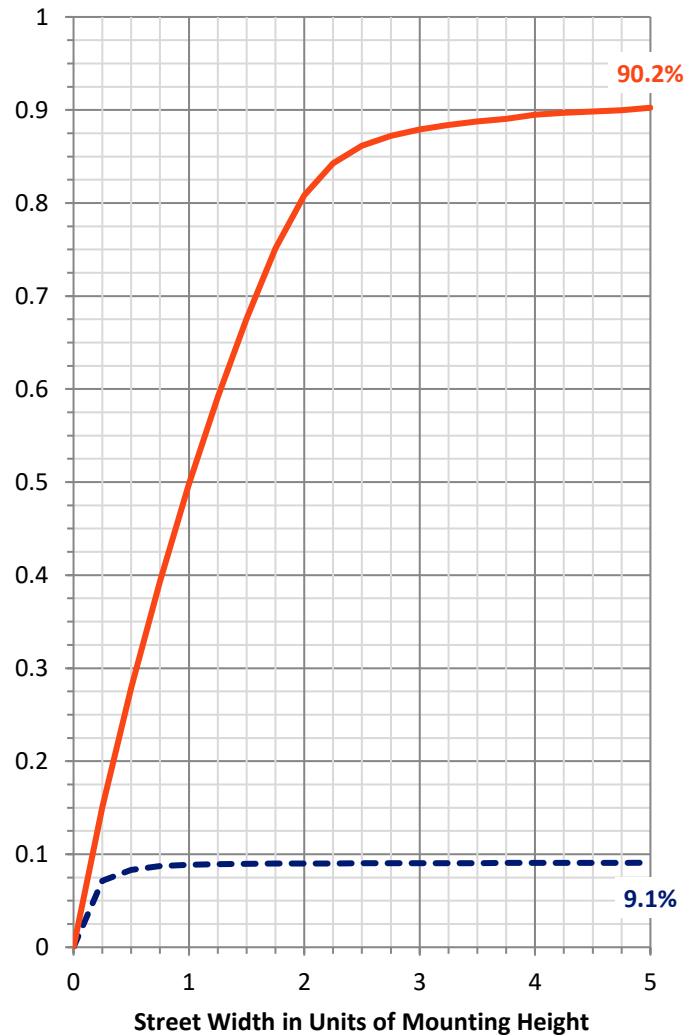
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	522.5	0.0	522.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	5168.6	0.0	5168.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	5691.0	0.0	5691.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	2.5
10°-20°	273.5	4.8
20°-30°	358.9	6.3
30°-40°	484.0	8.5
40°-50°	720.5	12.7
50°-60°	1117.8	19.6
60°-70°	1533.2	26.9
70°-80°	966.5	17.0
80°-90°	96.8	1.7
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°	5691.0	100.0
0°-180°	5691.0	100.0



--- HS    — SS

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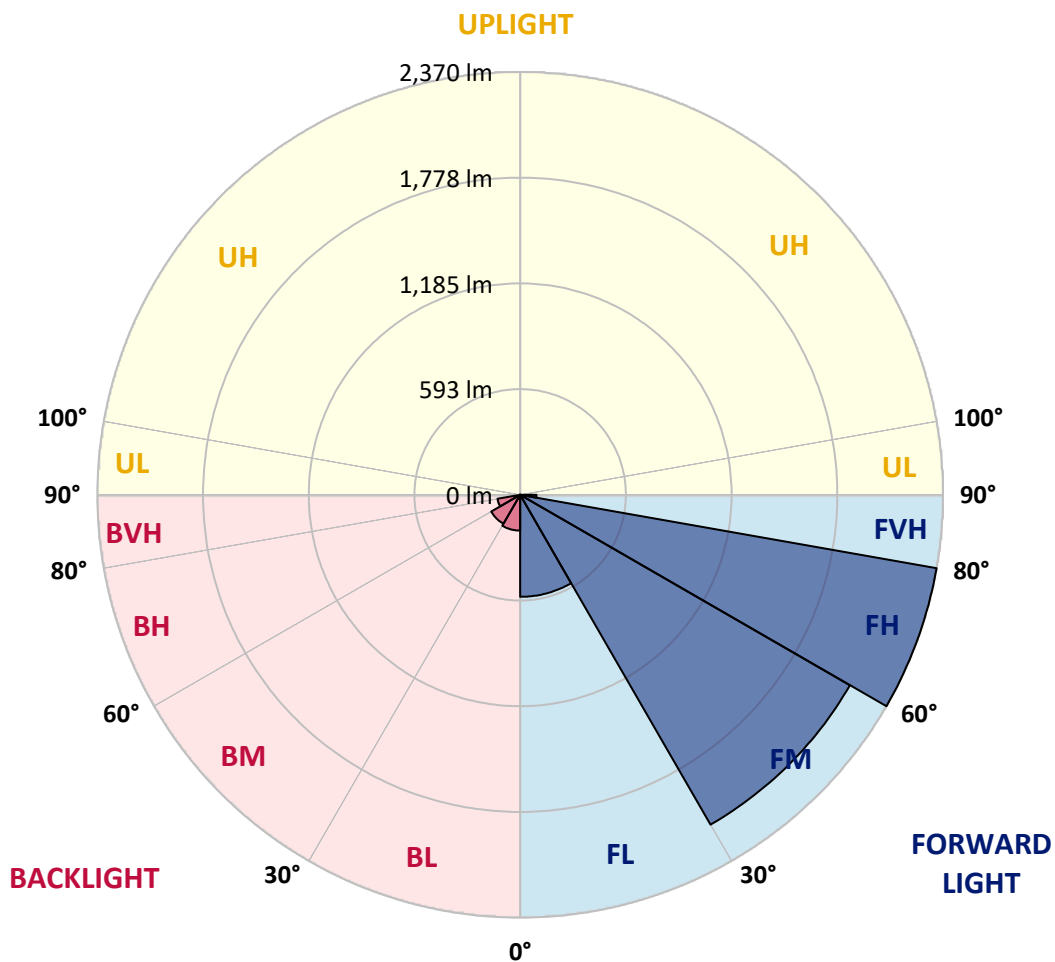
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.9	10.0			
FM (30°-60°)	2134.7	37.5			
FH (60°-80°)	2370.4	41.7			G2/5000
FVH (80°-90°)	91.6	1.6			G1/100
BL (0°-30°)	200.4	3.5	B1/500		
BM (30°-60°)	187.5	3.3	B0/220		
BH (60°-80°)	129.3	2.3	B1/500		G1/500
BVH (80°-90°)	5.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7
2.5°	1830.4	1827.3	1827.3	1830.4	1833.4	1824.2	1824.2	1821.2	1812.0	1808.9	1790.5
5°	1713.9	1723.0	1723.0	1735.3	1747.6	1753.7	1778.2	1778.2	1775.2	1775.2	1747.6
7.5°	1572.8	1572.8	1594.3	1615.7	1646.4	1655.6	1683.2	1695.5	1701.6	1716.9	1692.4
10°	1447.1	1456.3	1459.4	1490.0	1517.6	1551.4	1597.3	1612.7	1628.0	1658.7	1634.1
12.5°	1352.1	1358.2	1367.4	1395.0	1428.7	1465.5	1520.7	1548.3	1563.6	1606.5	1588.1
15°	1254.0	1260.1	1278.5	1303.0	1349.0	1395.0	1456.3	1493.1	1520.7	1569.8	1554.4
17.5°	1189.6	1192.6	1195.7	1217.2	1263.2	1324.5	1401.1	1437.9	1474.7	1536.0	1529.9
20°	1158.9	1162.0	1158.9	1171.2	1198.8	1250.9	1342.9	1391.9	1431.8	1520.7	1511.5
22.5°	1149.7	1152.8	1146.7	1143.6	1155.9	1201.8	1284.6	1339.8	1395.0	1517.6	1505.4
25°	1155.9	1155.9	1146.7	1137.5	1137.5	1162.0	1232.5	1290.8	1358.2	1523.8	1499.2
27.5°	1180.4	1177.3	1168.1	1149.7	1134.4	1143.6	1198.8	1250.9	1324.5	1533.0	1499.2
30°	1211.0	1208.0	1204.9	1189.6	1162.0	1143.6	1183.4	1232.5	1306.1	1554.4	1502.3
32.5°	1244.8	1247.8	1247.8	1235.6	1204.9	1165.1	1192.6	1238.6	1309.1	1585.1	1511.5
35°	1306.1	1300.0	1309.1	1303.0	1269.3	1217.2	1238.6	1278.5	1339.8	1618.8	1533.0
37.5°	1364.3	1364.3	1376.6	1379.7	1349.0	1284.6	1312.2	1352.1	1388.9	1674.0	1572.8
40°	1431.8	1428.7	1447.1	1465.5	1441.0	1385.8	1413.4	1447.1	1480.8	1756.8	1640.3
42.5°	1487.0	1493.1	1520.7	1551.4	1560.6	1483.9	1529.9	1566.7	1582.0	1848.8	1741.4
45°	1539.1	1548.3	1600.4	1649.5	1680.1	1618.8	1670.9	1710.8	1726.1	1965.3	1864.1
47.5°	1594.3	1606.5	1670.9	1747.6	1802.8	1772.1	1830.4	1879.4	1888.6	2109.4	2048.0
50°	1652.5	1664.8	1738.4	1842.6	1934.6	1953.0	2026.6	2084.8	2075.6	2253.5	2235.1
52.5°	1726.1	1741.4	1842.6	1959.1	2084.8	2140.0	2253.5	2305.6	2278.0	2440.5	2406.7
55°	1919.3	1925.4	1995.9	2115.5	2244.3	2354.6	2520.2	2566.2	2495.7	2578.4	2581.5
57.5°	2247.3	2247.3	2262.7	2299.4	2419.0	2581.5	2845.2	2885.0	2753.2	2719.5	2734.8
60°	2443.5	2474.2	2538.6	2609.1	2664.3	2826.8	3102.7	3102.7	2915.7	2866.6	2872.8
62.5°	2394.5	2419.0	2609.1	2768.5	3016.9	3225.3	3381.7	3375.6	3099.6	3004.6	3047.5
65°	1753.7	1796.6	2041.9	2541.6	3154.8	3777.2	3847.7	3712.8	3326.5	3213.1	3387.8
67.5°	941.2	975.0	1180.4	1628.0	2489.5	4154.3	4804.3	4362.8	3734.3	3639.2	3734.3
70°	619.3	613.2	628.5	800.2	1361.3	3443.0	6085.9	5583.0	4411.9	3979.6	3737.4
72.5°	447.6	447.6	487.5	619.3	720.5	1848.8	5947.9	6597.9	5046.5	3988.8	3115.0
75°	300.5	306.6	371.0	499.7	671.4	607.1	4626.5	5653.6	4960.7	2995.4	1624.9
77.5°	156.4	165.6	245.3	395.5	616.3	542.7	2590.7	3501.3	2915.7	1376.6	361.8
80°	70.5	73.6	107.3	297.4	564.1	502.8	846.2	1560.6	922.8	165.6	61.3
82.5°	33.7	33.7	46.0	147.2	466.0	432.3	521.2	554.9	217.7	52.1	42.9
85°	12.3	12.3	24.5	82.8	275.9	260.6	444.6	371.0	122.6	33.7	30.7
87.5°	6.1	6.1	9.2	24.5	73.6	211.5	306.6	245.3	52.1	12.3	12.3
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: P402619

CATALOG NUMBER: GAN-AF-07-LED-U-SL3-AMB-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7	1799.7
2.5°	1781.3	1772.1	1747.6	1726.1	1698.5	1661.7	1655.6	1618.8	1588.1	1585.1	1575.9
5°	1732.2	1704.7	1643.3	1554.4	1471.6	1404.2	1330.6	1284.6	1260.1	1232.5	1250.9
7.5°	1664.8	1618.8	1496.2	1358.2	1223.3	1106.8	993.4	910.6	876.9	827.8	837.0
10°	1594.3	1529.9	1352.1	1143.6	968.8	797.1	650.0	527.3	463.0	441.5	441.5
12.5°	1545.2	1453.2	1204.9	944.3	714.4	493.6	358.7	260.6	196.2	174.8	174.8
15°	1496.2	1382.7	1070.0	754.2	472.2	285.1	171.7	147.2	144.1	144.1	144.1
17.5°	1453.2	1300.0	929.0	576.4	309.7	159.4	141.0	138.0	134.9	134.9	134.9
20°	1410.3	1226.4	809.4	413.9	171.7	134.9	128.8	128.8	128.8	128.8	125.7
22.5°	1370.5	1162.0	680.6	285.1	131.8	122.6	119.6	119.6	119.6	116.5	116.5
25°	1339.8	1103.7	564.1	180.9	116.5	113.4	110.4	107.3	104.2	104.2	104.2
27.5°	1309.1	1048.5	441.5	125.7	107.3	101.2	98.1	95.0	88.9	88.9	85.8
30°	1287.7	993.4	352.6	107.3	98.1	92.0	85.8	79.7	73.6	70.5	70.5
32.5°	1275.4	950.4	263.7	98.1	88.9	79.7	73.6	67.5	61.3	55.2	55.2
35°	1266.2	907.5	180.9	88.9	79.7	70.5	64.4	55.2	46.0	42.9	42.9
37.5°	1281.6	876.9	122.6	82.8	73.6	64.4	52.1	46.0	39.9	36.8	36.8
40°	1315.3	852.3	98.1	76.6	67.5	55.2	46.0	36.8	30.7	27.6	27.6
42.5°	1373.5	843.1	85.8	73.6	61.3	49.1	36.8	30.7	27.6	24.5	24.5
45°	1480.8	840.1	79.7	67.5	55.2	39.9	30.7	24.5	21.5	18.4	18.4
47.5°	1600.4	846.2	76.6	64.4	49.1	36.8	27.6	21.5	18.4	15.3	15.3
50°	1747.6	870.7	70.5	58.3	46.0	30.7	21.5	18.4	12.3	12.3	12.3
52.5°	1888.6	895.2	67.5	55.2	39.9	27.6	18.4	12.3	12.3	9.2	9.2
55°	2026.6	950.4	61.3	55.2	36.8	21.5	15.3	12.3	9.2	6.1	6.1
57.5°	2164.5	990.3	58.3	49.1	30.7	18.4	12.3	9.2	6.1	6.1	6.1
60°	2305.6	1027.1	52.1	42.9	24.5	15.3	9.2	6.1	6.1	6.1	6.1
62.5°	2483.4	1088.4	46.0	36.8	21.5	12.3	9.2	6.1	3.1	3.1	3.1
65°	2817.6	1192.6	39.9	30.7	15.3	12.3	9.2	6.1	3.1	3.1	3.1
67.5°	3032.2	1177.3	33.7	24.5	15.3	9.2	6.1	6.1	3.1	3.1	3.1
70°	2989.3	1063.9	27.6	21.5	12.3	9.2	6.1	6.1	3.1	3.1	3.1
72.5°	2324.0	646.9	24.5	18.4	12.3	9.2	6.1	6.1	3.1	3.1	3.1
75°	1060.8	144.1	21.5	15.3	9.2	9.2	6.1	6.1	3.1	3.1	3.1
77.5°	187.0	36.8	18.4	12.3	12.3	9.2	9.2	6.1	3.1	3.1	3.1
80°	49.1	24.5	18.4	12.3	12.3	15.3	12.3	9.2	3.1	3.1	3.1
82.5°	33.7	18.4	18.4	15.3	15.3	18.4	15.3	9.2	3.1	3.1	3.1
85°	24.5	15.3	18.4	18.4	12.3	15.3	15.3	9.2	3.1	3.1	3.1
87.5°	12.3	6.1	6.1	6.1	6.1	9.2	9.2	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)