

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: McGRAW-EDISON

Report Number: P382930

Luminaire Tested: **GLEON-SA2D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10501.3 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

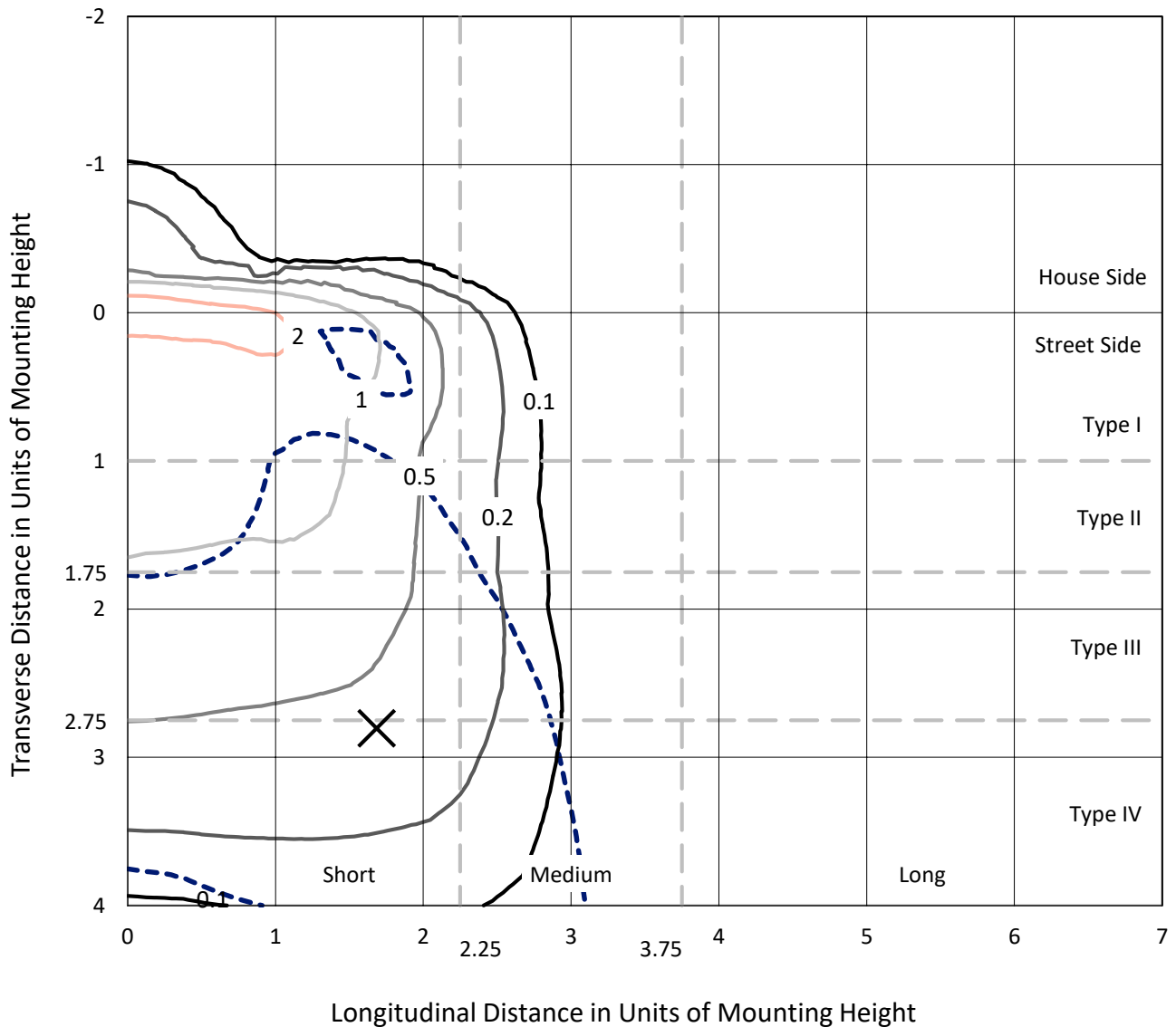
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

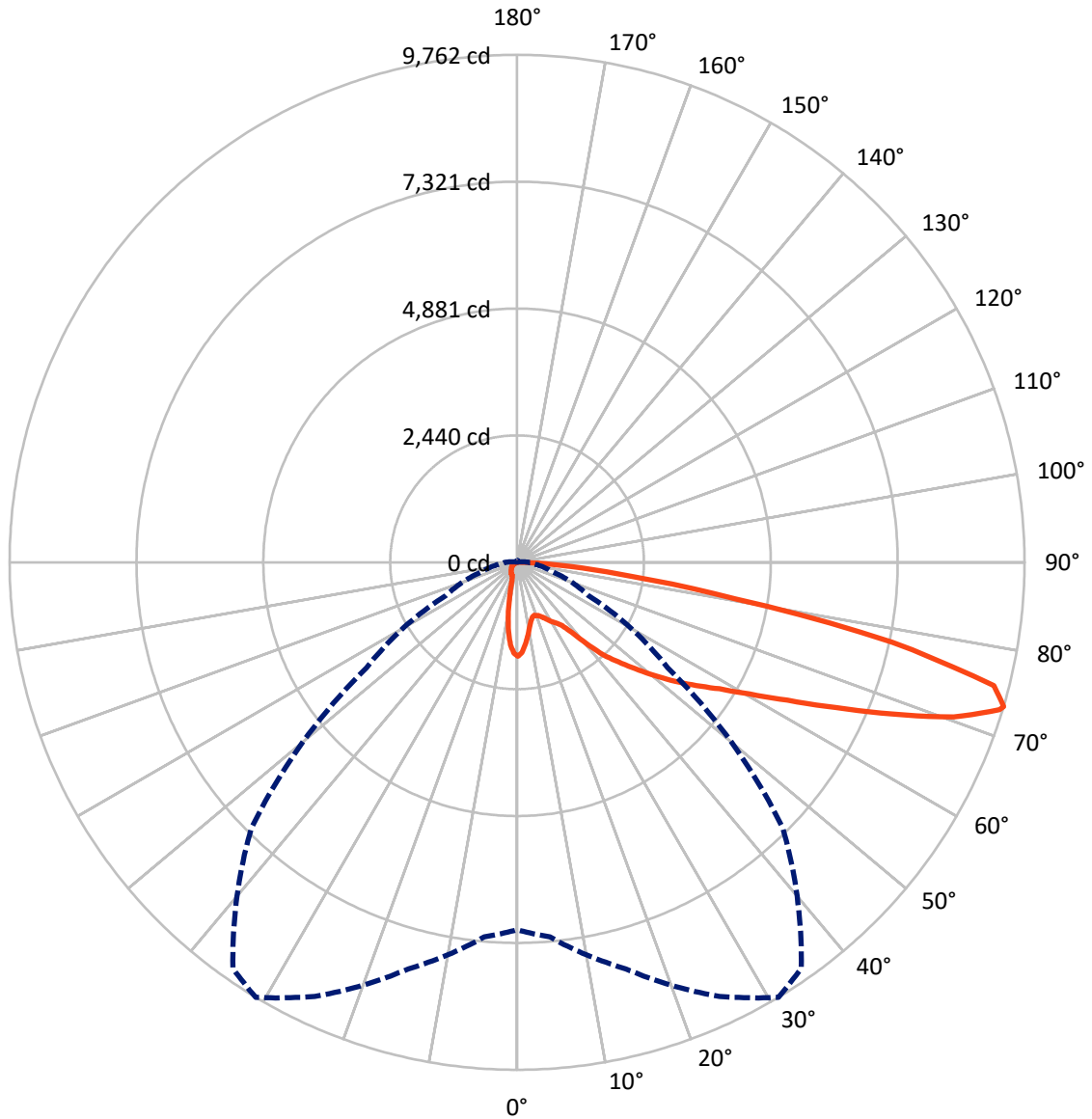
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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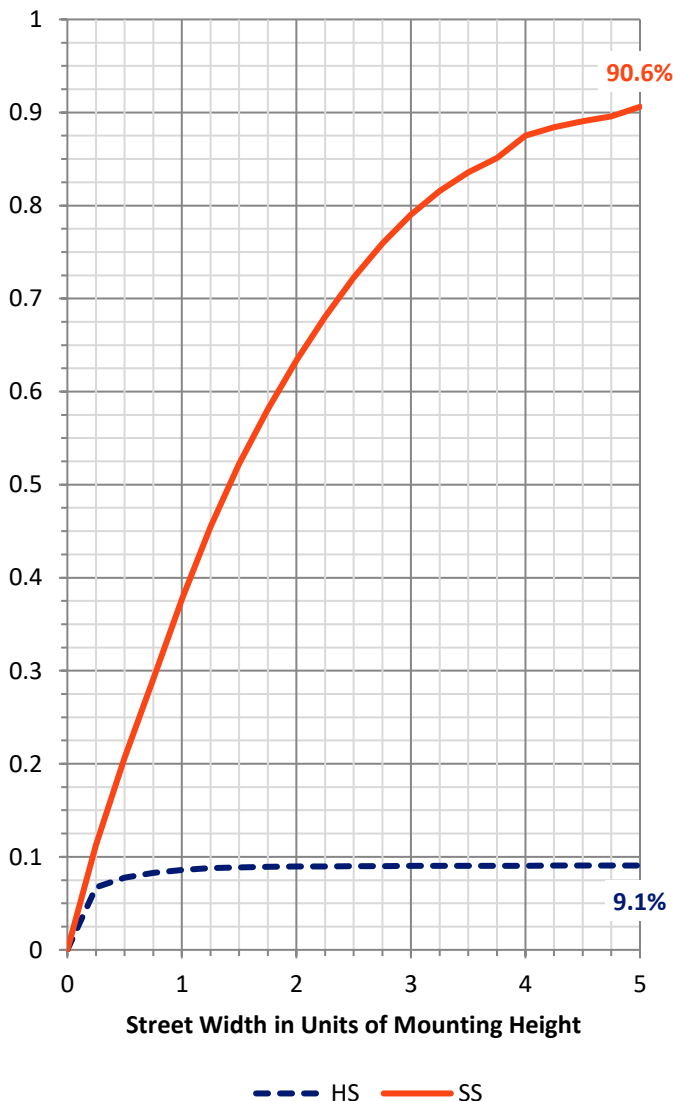
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	957.2	0.0	957.2
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	9544.1	0.0	9544.1
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	10501.3	0.0	10501.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	1.4
10°-20°	325.3	3.1
20°-30°	487.4	4.6
30°-40°	775.4	7.4
40°-50°	1384.6	13.2
50°-60°	2148.5	20.5
60°-70°	2856.2	27.2
70°-80°	2148.4	20.5
80°-90°	225.8	2.1
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°	10501.3	100.0
0°-180°	10501.3	100.0

**Coefficient of Utilization**



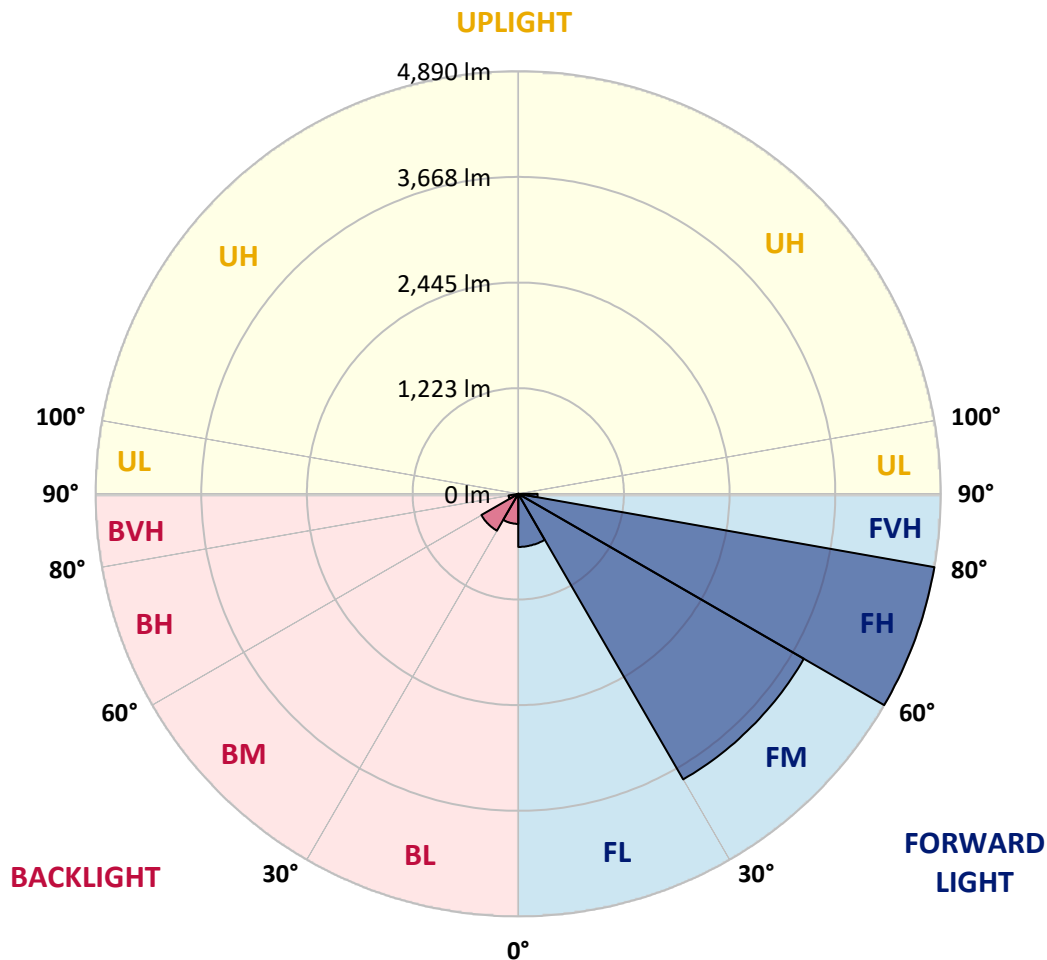
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.3	5.9			
FM (30°-60°)	3815.8	36.3			
FH (60°-80°)	4890.1	46.6			G2/5000
FVH (80°-90°)	223.9	2.1			G2/225
BL (0°-30°)	348.1	3.3	B1/500		
BM (30°-60°)	492.7	4.7	B1/1000		
BH (60°-80°)	114.5	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7
2.5°	1712.2	1719.5	1727.1	1728.7	1741.5	1742.0	1760.5	1774.4	1788.3	1801.6	1806.3
5°	1536.5	1548.3	1562.2	1576.1	1603.3	1614.1	1659.3	1705.6	1749.7	1791.8	1812.4
7.5°	1348.9	1362.3	1381.8	1416.2	1446.5	1467.7	1539.0	1621.3	1703.5	1781.1	1825.8
10°	1177.8	1190.1	1210.6	1247.2	1293.9	1322.7	1418.8	1532.9	1653.7	1771.3	1845.9
12.5°	1068.9	1075.6	1086.8	1125.9	1168.1	1200.4	1313.5	1454.8	1612.5	1770.8	1878.2
15°	1048.8	1050.9	1041.7	1059.1	1092.0	1123.4	1237.9	1391.5	1581.2	1779.1	1920.4
17.5°	1080.7	1079.7	1048.8	1046.8	1073.0	1098.7	1201.0	1347.9	1559.1	1798.1	1974.8
20°	1128.9	1125.4	1071.9	1062.2	1089.9	1114.0	1198.3	1331.5	1550.8	1829.9	2041.1
22.5°	1193.2	1187.1	1103.3	1093.0	1122.8	1147.9	1230.2	1347.4	1558.1	1872.6	2118.2
25°	1272.9	1263.6	1157.3	1145.9	1176.3	1201.4	1287.2	1393.1	1579.6	1924.5	2215.8
27.5°	1362.8	1349.4	1243.6	1214.3	1248.7	1274.9	1363.3	1463.0	1613.5	1979.4	2335.6
30°	1447.6	1430.1	1334.5	1286.2	1328.4	1357.6	1445.5	1546.3	1668.0	2064.2	2499.4
32.5°	1532.9	1513.4	1415.7	1358.2	1396.2	1428.1	1530.3	1660.9	1770.3	2193.7	2717.3
35°	1729.1	1708.6	1588.9	1493.8	1493.3	1511.3	1649.0	1817.5	1905.5	2374.0	2977.4
37.5°	2059.6	2047.8	1933.7	1753.4	1705.0	1685.0	1810.9	2004.6	2099.7	2622.3	3270.8
40°	2421.4	2411.1	2283.1	2119.7	2046.2	1996.9	2043.2	2265.2	2374.0	2925.4	3570.3
42.5°	2829.9	2781.0	2552.9	2504.1	2438.3	2400.8	2359.1	2586.3	2711.2	3255.4	3867.4
45°	3200.9	3118.7	2822.7	2748.7	2733.8	2743.0	2766.1	3017.9	3090.4	3647.5	4163.4
47.5°	3421.9	3357.1	3130.0	3059.1	3055.0	3116.1	3290.9	3505.6	3468.2	3989.2	4423.9
50°	3632.0	3573.5	3384.9	3402.4	3421.4	3504.6	3886.4	4007.1	3812.9	4299.1	4662.9
52.5°	3802.1	3712.8	3614.0	3712.2	3805.7	3939.9	4501.1	4457.4	4057.5	4545.7	4867.4
55°	3900.3	3859.7	3907.5	4006.1	4181.9	4399.8	5081.2	4831.9	4236.4	4770.8	5003.6
57.5°	4260.0	4180.3	4275.4	4360.8	4589.9	4894.6	5578.1	5110.9	4365.3	4910.1	5034.9
60°	4695.3	4631.0	4687.0	4828.9	5138.2	5496.4	6042.7	5338.6	4432.7	4999.4	4953.7
62.5°	5388.0	5303.2	5268.2	5427.0	5837.1	6228.1	6395.2	5496.4	4417.8	4959.9	4675.3
65°	6316.0	6228.1	6071.9	6215.8	6737.4	7013.3	6789.3	5529.8	4315.0	4639.8	3971.2
67.5°	7266.6	7202.9	7069.3	7311.9	7782.6	7871.5	7206.1	5448.6	3984.0	3762.1	2805.7
70°	7894.6	7867.4	7954.2	8490.7	8910.5	8884.8	7588.4	5012.3	3105.3	2313.5	1388.0
72.5°	7441.9	7572.5	8213.7	9186.5	9699.4	9489.7	7392.0	3848.9	1774.9	890.0	401.3
73°	7066.8	7233.7	8097.1	9212.7	9761.5	9531.8	7227.1	3532.9	1512.8	702.5	304.2
75°	4916.2	5121.3	6703.5	8580.1	9470.7	9081.7	6024.1	2162.4	700.9	311.4	122.8
77.5°	2386.9	2538.6	3691.2	6199.4	7365.4	7095.6	3750.2	805.8	316.5	194.8	56.5
80°	891.0	990.7	1602.3	3155.2	4256.4	4367.9	1649.5	304.7	210.7	156.7	28.8
82.5°	233.3	260.0	591.0	1407.0	2181.4	2283.1	520.1	153.6	154.2	129.0	17.5
85°	74.5	85.3	184.4	631.6	1027.8	902.4	135.6	74.5	112.1	96.1	9.8
87.5°	9.2	11.8	58.6	148.5	226.6	125.9	21.1	22.1	47.8	53.5	5.7
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7	1806.7
2.5°	1810.9	1808.3	1808.8	1795.5	1786.7	1769.3	1751.3	1743.0	1734.4	1730.7	1734.4
5°	1820.2	1815.5	1802.2	1761.0	1717.4	1660.9	1607.9	1567.8	1517.5	1503.6	1518.0
7.5°	1834.5	1825.3	1786.2	1702.5	1605.3	1497.5	1376.2	1287.8	1215.3	1168.5	1185.5
10°	1855.5	1838.1	1759.5	1617.2	1443.4	1252.3	1080.1	946.1	851.0	811.9	810.4
12.5°	1891.0	1858.2	1726.6	1506.1	1245.7	990.7	765.2	619.8	542.6	492.8	491.8
15°	1930.1	1881.8	1685.0	1373.1	1015.4	709.7	492.8	382.3	332.5	316.5	314.5
17.5°	1977.9	1909.0	1631.0	1209.1	774.4	470.2	321.7	289.8	287.8	286.3	286.3
20°	2038.0	1941.4	1561.6	1021.5	549.3	313.9	273.4	275.5	276.5	274.4	274.9
22.5°	2107.9	1974.3	1478.9	820.1	371.5	262.6	261.6	264.1	265.1	264.1	264.7
25°	2189.1	2012.3	1378.2	609.0	268.3	249.2	251.8	255.4	257.9	257.9	257.9
27.5°	2289.8	2058.5	1256.9	425.0	231.8	235.3	242.6	249.2	252.8	253.8	253.8
30°	2420.8	2116.1	1111.5	291.4	210.7	216.9	230.2	243.0	249.7	250.8	251.2
32.5°	2586.3	2180.8	942.9	215.3	192.7	197.3	211.7	233.3	246.1	248.2	248.2
35°	2775.9	2255.9	761.5	187.5	179.9	181.4	192.7	217.3	240.0	245.6	246.1
37.5°	2983.6	2329.9	579.1	175.2	169.1	169.1	177.3	198.3	225.1	242.6	244.6
40°	3177.2	2374.6	406.0	165.4	159.3	159.3	166.5	181.9	207.1	233.3	238.9
42.5°	3356.1	2390.0	282.6	156.2	150.1	151.6	157.8	170.1	189.1	215.3	220.5
45°	3540.1	2387.5	206.1	145.4	140.8	145.4	150.1	159.3	173.2	188.1	189.1
47.5°	3678.8	2365.9	163.4	135.2	132.1	138.2	142.3	148.5	156.2	155.2	155.2
50°	3808.8	2313.5	131.5	121.3	123.3	130.5	132.6	134.6	135.2	125.4	124.4
52.5°	3907.5	2231.7	105.4	106.4	114.6	121.8	119.7	116.6	111.5	99.7	97.6
55°	3940.4	2074.5	82.7	87.8	101.7	111.0	103.3	96.6	86.8	77.0	75.0
57.5°	3880.7	1871.5	67.4	68.4	85.8	93.5	84.8	77.0	66.3	58.0	56.5
60°	3754.3	1646.0	55.5	51.4	66.3	72.9	67.4	59.6	49.8	43.7	43.1
62.5°	3503.6	1405.4	45.7	40.1	50.4	56.0	52.4	46.8	38.6	34.5	33.9
65°	2976.4	1124.4	37.0	32.4	39.0	43.7	40.6	36.5	30.3	27.2	26.7
67.5°	2077.6	760.0	30.3	26.7	30.8	34.5	31.9	29.8	24.1	23.7	24.1
70°	1002.1	366.4	25.2	21.6	24.1	26.7	25.7	24.1	23.1	26.7	30.8
72.5°	287.3	122.8	20.0	18.0	19.6	21.1	22.1	21.6	25.2	32.4	37.5
73°	221.0	99.2	19.0	17.0	18.5	20.6	21.6	21.1	25.7	32.9	37.5
75°	94.6	47.8	14.3	13.9	15.4	18.0	19.0	19.0	25.7	33.4	36.0
77.5°	42.7	25.7	9.2	10.8	13.3	14.3	15.9	15.9	20.6	25.7	25.7
80°	24.1	13.9	7.2	8.2	9.8	9.8	9.8	8.8	9.2	10.2	11.3
82.5°	15.4	9.2	5.7	6.7	6.1	5.1	4.1	4.1	3.6	4.1	5.1
85°	8.8	5.1	5.1	4.1	2.6	2.0	2.6	2.0	0.6	0.0	0.6
87.5°	5.1	3.1	1.6	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	0.0

(END OF REPORT)