

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: P192020

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10843 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 25 FT

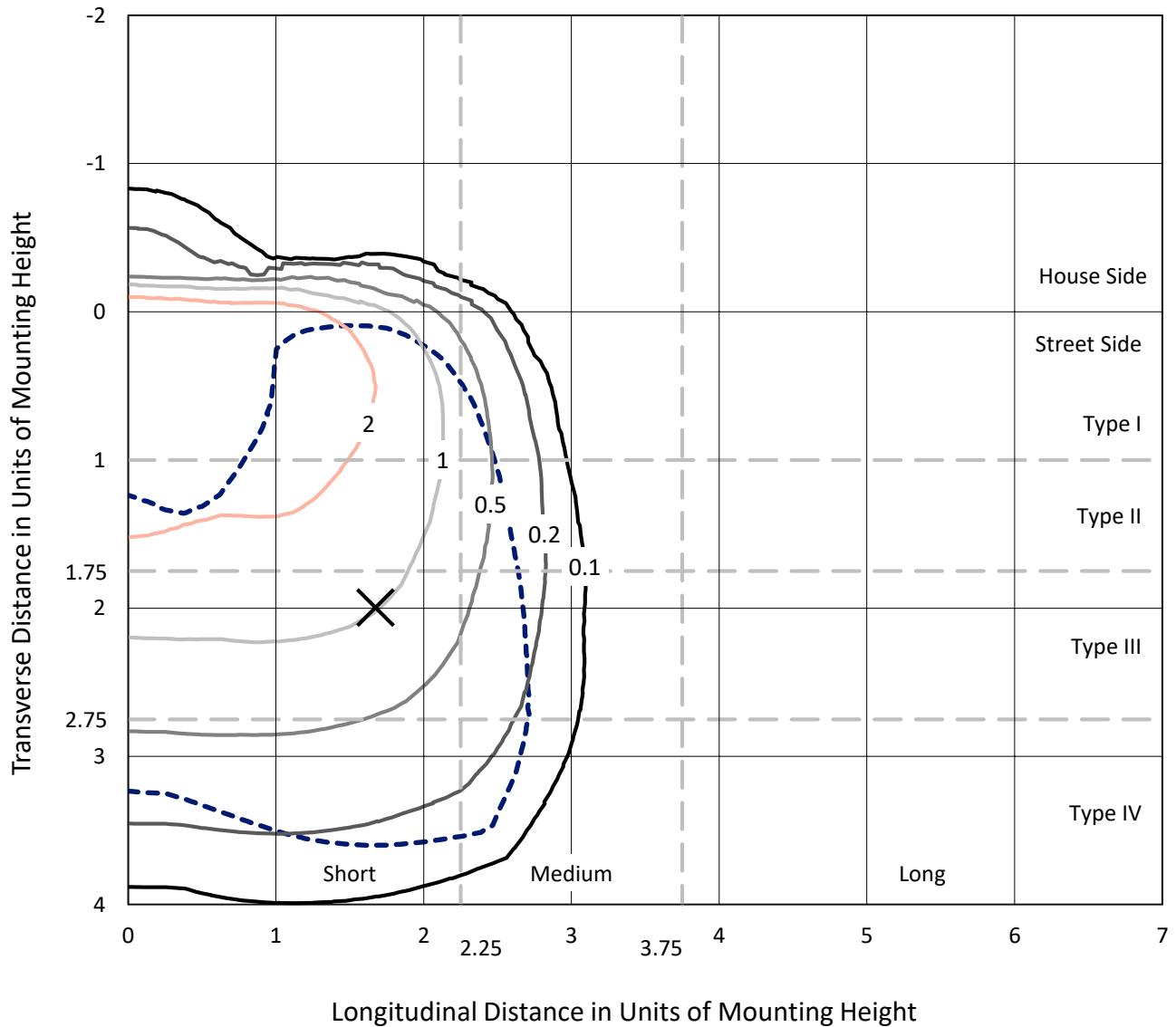


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

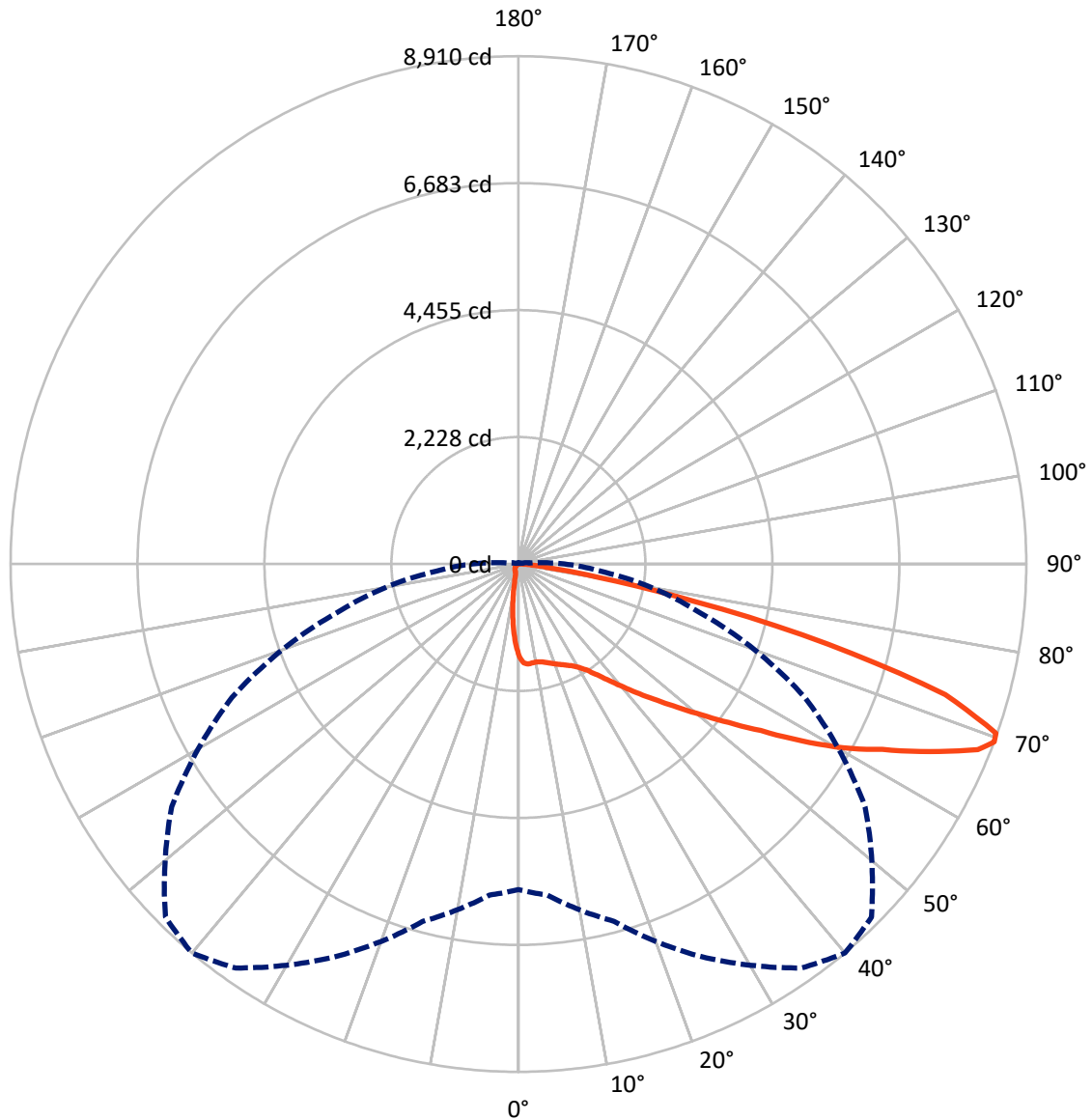


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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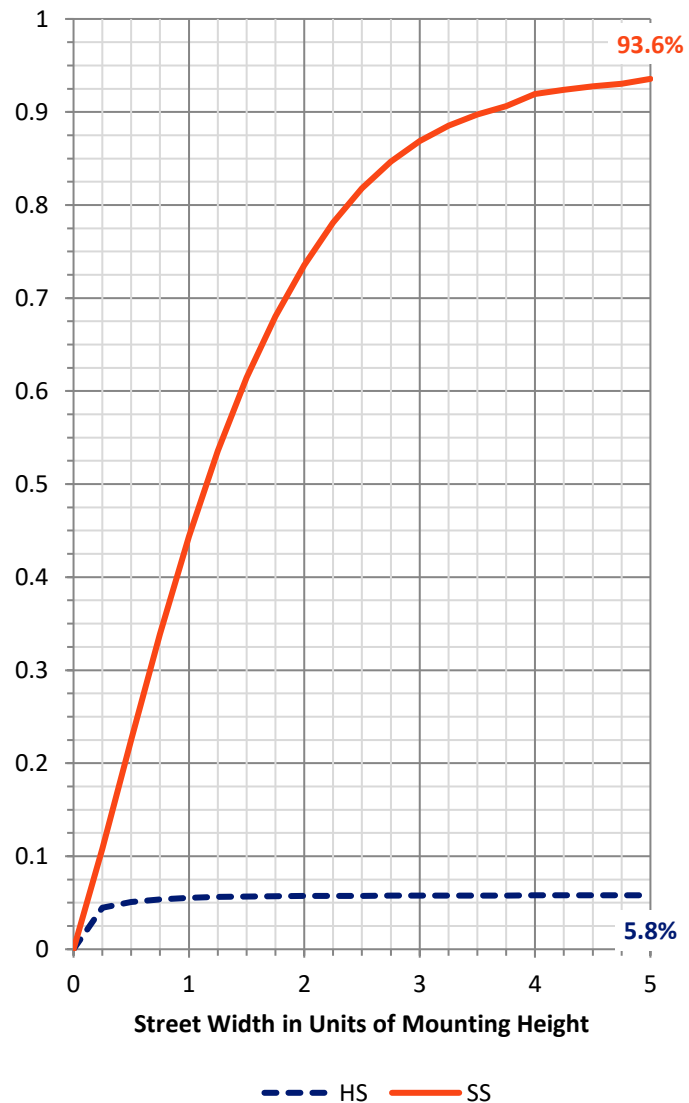
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.4	0.0	634.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	10208.6	0.0	10208.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	10843.0	0.0	10843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.2
10°-20°	323.0	3.0
20°-30°	544.1	5.0
30°-40°	890.7	8.2
40°-50°	1542.1	14.2
50°-60°	2429.0	22.4
60°-70°	3172.2	29.3
70°-80°	1633.8	15.1
80°-90°	176.7	1.6
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°	10843.0	100.0
0°-180°	10843.0	100.0



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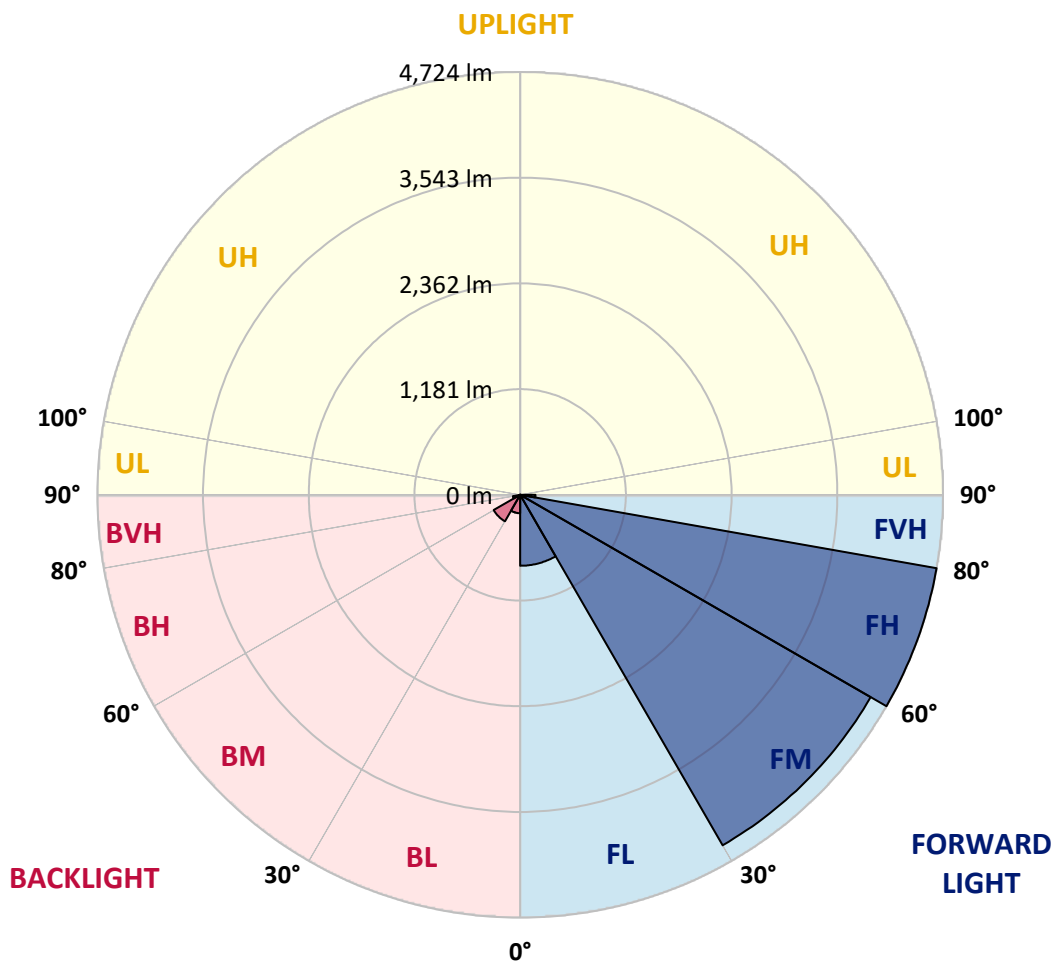
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.9	7.3			
FM	(30°-60°)	4520.9	41.7			
FH	(60°-80°)	4723.7	43.6			G2/5000
FVH	(80°-90°)	171.2	1.6			G2/225
BL	(0°-30°)	205.5	1.9	B1/500		
BM	(30°-60°)	341.0	3.1	B1/1000		
BH	(60°-80°)	82.4	0.8	B0/110		G0/110
BVH	(80°-90°)	5.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0
2.5°	1778.8	1769.1	1763.3	1755.5	1745.9	1737.5	1734.2	1710.4	1687.8	1656.8	1621.3
5°	1811.7	1808.5	1798.1	1787.8	1776.2	1763.3	1756.2	1727.8	1695.5	1650.3	1588.4
7.5°	1814.9	1811.0	1798.1	1783.9	1767.8	1752.3	1740.0	1711.6	1682.0	1636.1	1560.6
10°	1809.8	1805.2	1795.6	1780.1	1760.1	1745.2	1732.9	1705.8	1680.7	1639.4	1555.5
12.5°	1803.9	1799.4	1794.9	1787.2	1769.7	1759.4	1749.1	1723.3	1700.7	1665.8	1574.2
15°	1809.8	1807.2	1812.3	1809.1	1799.4	1790.4	1780.1	1756.8	1736.2	1707.1	1608.4
17.5°	1834.3	1834.3	1850.4	1852.4	1843.3	1830.4	1815.6	1792.3	1774.9	1750.4	1649.0
20°	1891.7	1889.8	1910.4	1914.3	1892.4	1872.4	1850.4	1822.0	1808.5	1793.0	1689.1
22.5°	1990.5	1981.4	1993.7	1989.8	1946.6	1915.6	1888.5	1853.6	1846.5	1839.4	1733.6
25°	2118.9	2113.7	2122.1	2084.1	2007.9	1965.9	1933.7	1894.3	1894.3	1901.4	1783.9
27.5°	2305.4	2286.1	2257.7	2190.5	2076.3	2022.7	1987.9	1945.9	1956.9	1983.4	1850.4
30°	2496.5	2475.2	2410.0	2306.7	2159.6	2103.4	2062.8	2018.9	2044.7	2093.1	1939.5
32.5°	2684.9	2661.1	2568.8	2438.4	2279.0	2222.8	2183.5	2135.0	2178.3	2259.6	2069.9
35°	2867.6	2846.3	2739.8	2586.2	2437.7	2391.3	2355.1	2313.2	2368.7	2482.3	2253.8
37.5°	3072.8	3049.6	2919.9	2753.4	2630.7	2597.2	2570.7	2528.7	2625.6	2792.1	2510.0
40°	3325.2	3285.8	3110.9	2945.0	2854.0	2837.9	2819.8	2814.0	2964.4	3194.8	2851.5
42.5°	3614.3	3549.8	3311.0	3147.1	3099.3	3110.9	3106.4	3132.2	3388.4	3695.7	3267.1
45°	3903.5	3820.2	3533.7	3362.6	3369.1	3409.7	3434.9	3538.2	3919.6	4270.1	3714.4
47.5°	4148.7	4066.8	3747.3	3595.6	3673.1	3753.1	3821.5	4017.1	4465.6	4835.5	4062.3
50°	4358.5	4281.1	3973.8	3851.9	4026.1	4155.2	4266.2	4556.0	5053.0	5266.0	4306.2
52.5°	4530.2	4478.6	4208.8	4145.5	4429.5	4618.6	4781.3	5128.5	5573.2	5615.8	4496.0
55°	4697.4	4660.6	4461.1	4494.7	4903.2	5160.8	5366.7	5735.8	6021.1	5907.5	4678.0
57.5°	4889.7	4856.1	4749.0	4937.5	5526.1	5850.1	6074.7	6274.1	6415.5	6205.7	4849.7
60°	5085.9	5066.5	5069.1	5429.3	6241.2	6552.3	6676.2	6727.8	6802.7	6486.5	4859.4
62.5°	5273.1	5309.9	5435.1	5976.6	6926.0	7164.8	7227.4	7278.4	7190.6	6531.0	4489.5
65°	5590.0	5650.0	5948.8	6709.1	7679.2	7934.8	7999.3	7824.4	7251.9	5955.3	3651.8
67.5°	5744.9	5854.6	6387.7	7392.0	8409.8	8693.8	8669.9	7859.9	6507.8	4541.2	2343.5
69°	5712.6	5829.4	6489.0	7601.1	8652.5	8910.0	8758.3	7425.5	5544.1	3289.7	1438.6
70°	5584.8	5702.9	6436.8	7593.3	8683.5	8887.4	8594.4	6889.2	4687.7	2405.5	899.7
72.5°	4663.8	4765.8	5714.5	6863.4	7999.3	7833.4	7190.0	4772.9	2284.1	655.1	202.7
75°	2870.8	2927.6	4100.3	5170.4	6041.8	5615.8	4790.3	2374.5	680.9	185.2	112.3
77.5°	1516.7	1542.5	2244.8	3047.7	3829.9	3169.0	2455.2	926.2	313.7	116.2	81.3
80°	896.5	915.8	1208.9	1393.5	1657.4	1384.4	981.7	568.6	224.6	72.9	72.3
82.5°	513.1	525.4	876.5	774.5	653.2	557.6	488.6	538.9	134.9	49.1	74.9
85°	188.5	191.0	493.1	589.3	388.5	231.1	242.7	446.6	36.1	31.0	58.7
87.5°	87.8	85.8	253.6	360.8	227.2	146.5	189.1	98.1	14.2	20.0	16.1
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°	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0	1620.0
2.5°	1600.6	1576.8	1533.5	1489.0	1443.8	1408.9	1374.7	1347.6	1338.6	1321.8	1323.1
5°	1551.6	1507.7	1417.3	1325.7	1230.2	1151.4	1077.2	1017.2	988.1	958.4	958.4
7.5°	1509.0	1445.1	1303.7	1154.7	1000.4	870.7	753.8	666.1	617.7	578.9	578.3
10°	1492.9	1406.4	1208.9	995.2	780.3	603.5	464.7	375.6	329.8	300.1	298.8
12.5°	1500.0	1392.8	1135.9	848.1	578.3	387.9	269.1	211.7	192.3	183.3	183.3
15°	1520.6	1388.9	1063.0	704.2	408.5	242.7	178.8	163.3	162.0	162.0	162.0
17.5°	1545.8	1390.2	988.1	564.1	278.2	173.6	154.3	152.3	153.6	153.6	153.6
20°	1571.6	1390.9	907.5	434.4	196.2	151.0	145.2	144.6	145.9	145.9	146.5
22.5°	1603.2	1394.1	826.8	324.6	162.0	142.6	138.1	138.1	138.8	138.8	138.1
25°	1639.4	1400.6	742.9	240.7	147.8	136.8	133.0	132.3	133.0	132.3	131.7
27.5°	1684.5	1409.6	649.3	188.5	141.3	131.0	127.8	127.8	127.1	126.5	125.9
30°	1741.3	1419.9	544.1	160.1	134.9	125.9	122.6	122.0	121.3	120.0	120.0
32.5°	1827.8	1442.5	440.2	145.2	127.8	118.8	116.2	116.2	114.9	113.6	112.9
35°	1960.8	1487.0	347.2	136.2	120.0	111.0	107.8	107.8	106.5	105.8	105.2
37.5°	2144.7	1554.8	269.8	127.8	112.3	102.6	99.4	98.7	97.5	96.2	95.5
40°	2389.3	1638.7	212.3	120.0	104.6	94.2	91.6	90.4	87.8	85.8	85.8
42.5°	2696.6	1734.2	172.3	111.7	95.5	86.5	84.5	82.6	78.1	76.2	75.5
45°	3018.0	1820.1	145.9	102.0	86.5	78.7	77.5	74.2	68.4	66.5	66.5
47.5°	3249.7	1840.1	128.4	92.9	78.1	70.4	69.7	63.9	58.7	57.4	56.8
50°	3394.3	1800.7	114.2	83.9	70.4	62.6	60.7	53.6	50.3	49.1	48.4
52.5°	3491.7	1730.4	102.6	76.2	63.3	55.5	51.0	45.8	43.2	42.0	42.0
55°	3569.8	1631.0	91.0	69.1	57.4	49.7	43.2	39.4	36.8	35.5	35.5
57.5°	3591.8	1496.1	79.4	63.3	51.6	43.9	36.8	34.2	31.0	30.3	30.3
60°	3432.3	1252.8	70.4	56.2	46.5	38.1	32.3	29.0	25.8	25.2	24.5
62.5°	3012.2	969.4	62.0	49.7	40.7	32.9	27.8	23.9	21.3	21.3	21.3
65°	2297.7	649.9	54.2	43.2	35.5	27.8	23.9	19.4	18.1	18.1	18.7
67.5°	1375.4	353.7	46.5	36.8	30.3	23.2	20.0	16.8	16.1	16.8	16.8
69°	806.1	207.8	42.0	32.9	26.5	20.7	17.4	14.8	16.1	16.8	16.8
70°	497.6	140.1	38.7	29.7	23.9	18.7	16.1	14.2	15.5	16.1	16.1
72.5°	138.8	72.3	31.0	23.2	19.4	15.5	12.9	12.9	14.8	15.5	15.5
75°	90.4	53.6	23.9	17.4	14.8	12.3	11.0	12.3	14.2	14.8	14.8
77.5°	74.9	43.9	19.4	14.2	12.3	11.6	10.3	11.0	12.9	13.6	13.6
80°	68.4	31.0	15.5	12.9	11.0	10.3	9.7	9.0	11.6	12.3	12.3
82.5°	65.2	24.5	13.6	11.6	10.3	9.0	8.4	9.0	10.3	11.0	11.6
85°	40.7	16.1	12.3	11.0	9.0	8.4	8.4	8.4	9.7	10.3	10.3
87.5°	14.8	12.9	11.0	9.0	7.7	7.7	7.7	7.7	8.4	9.7	9.7
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)