

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: P193760

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193760  
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-SL4-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 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: 8848 lumens  
Efficiency: N/A  
Efficacy: 68.6 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

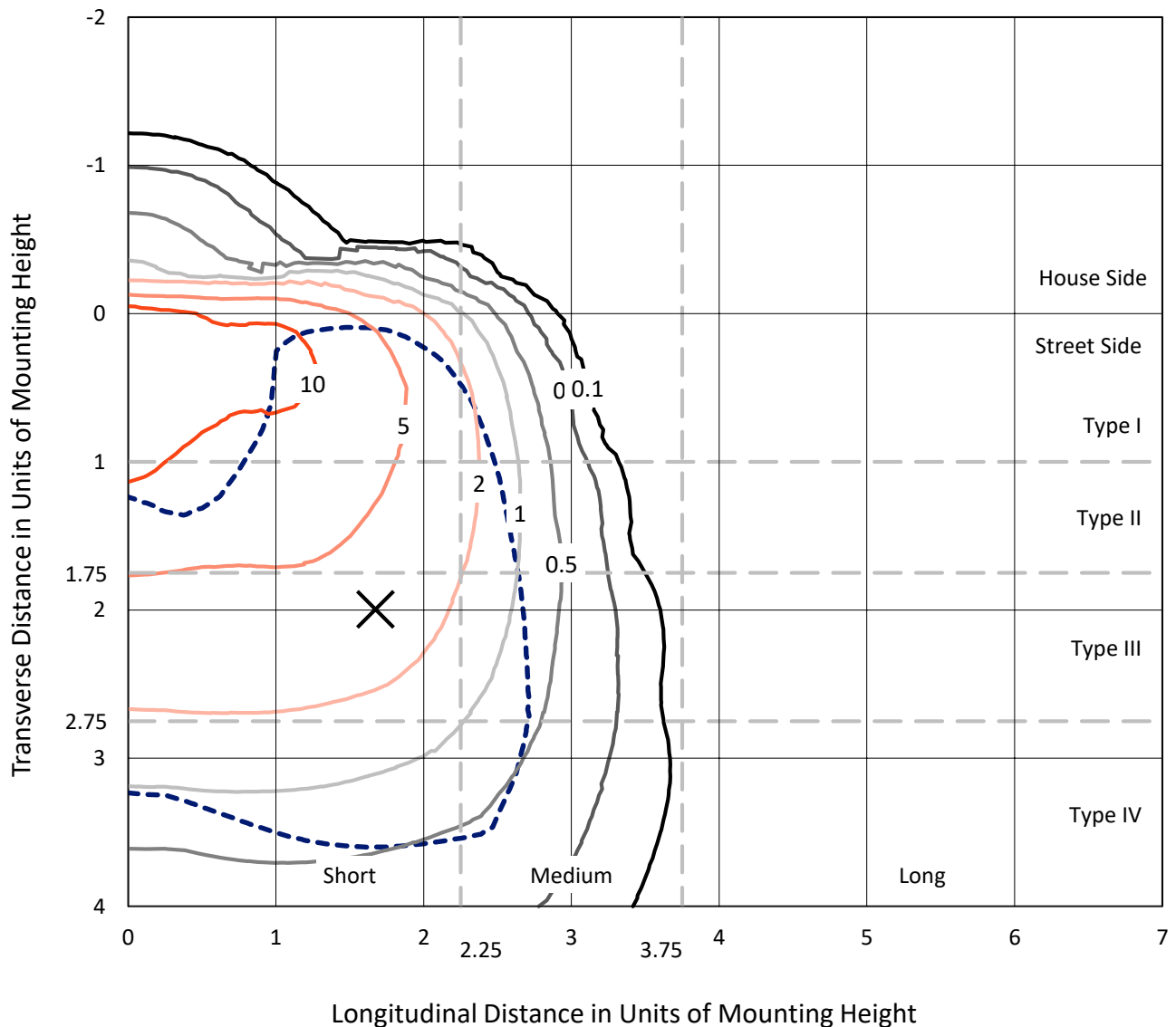


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

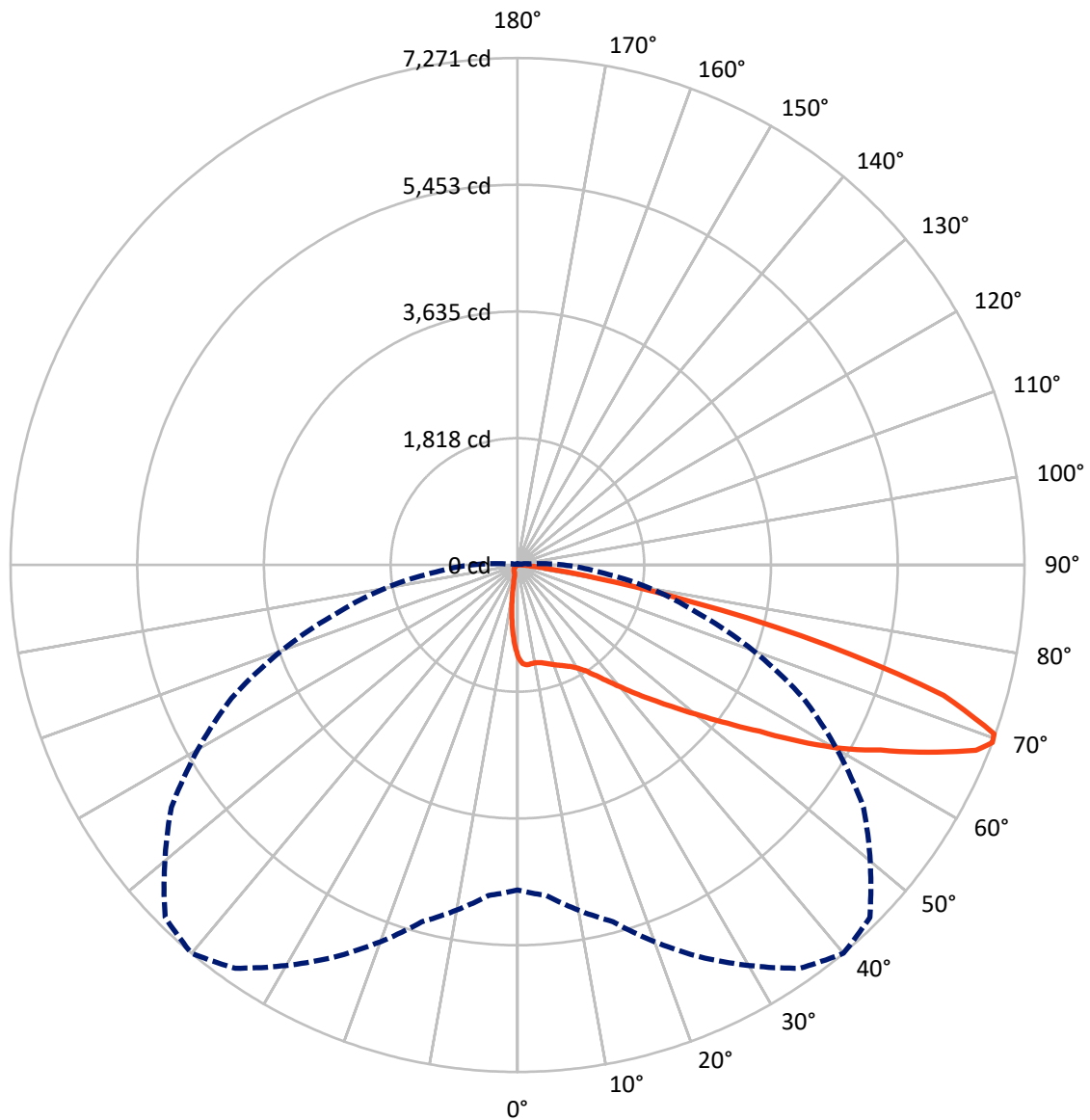


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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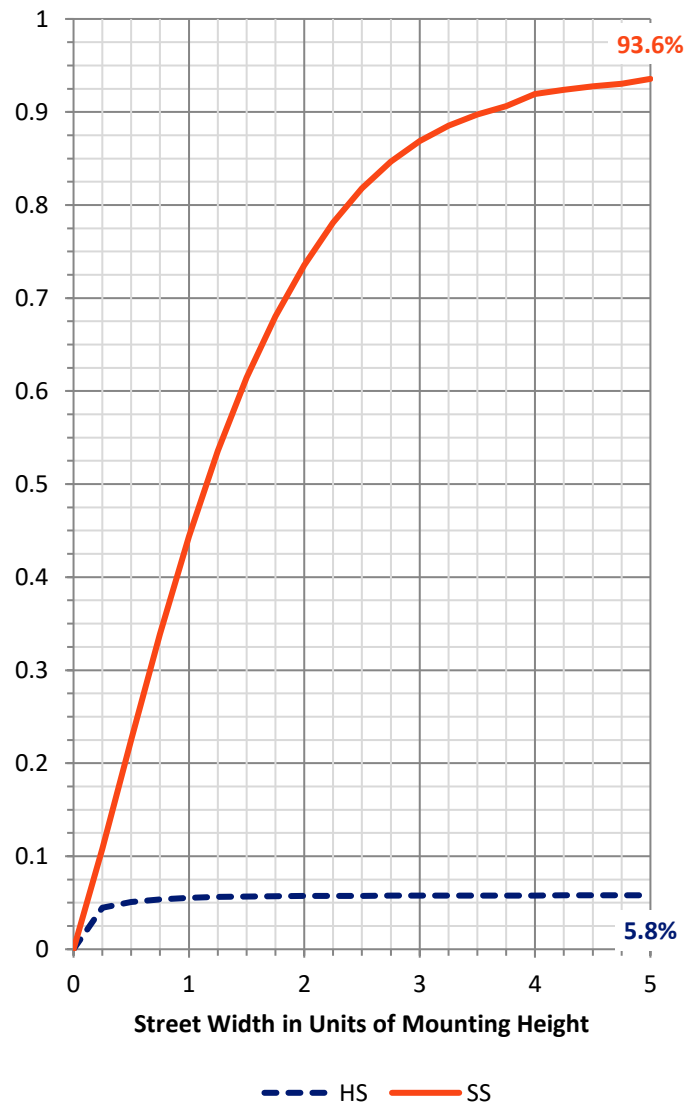
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	517.7	0.0	517.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	8330.3	0.0	8330.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	8848.0	0.0	8848.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.2
10°-20°	263.6	3.0
20°-30°	444.0	5.0
30°-40°	726.8	8.2
40°-50°	1258.4	14.2
50°-60°	1982.1	22.4
60°-70°	2588.6	29.3
70°-80°	1333.2	15.1
80°-90°	144.2	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°	8848.0	100.0
0°-180°	8848.0	100.0

**Coefficient of Utilization**



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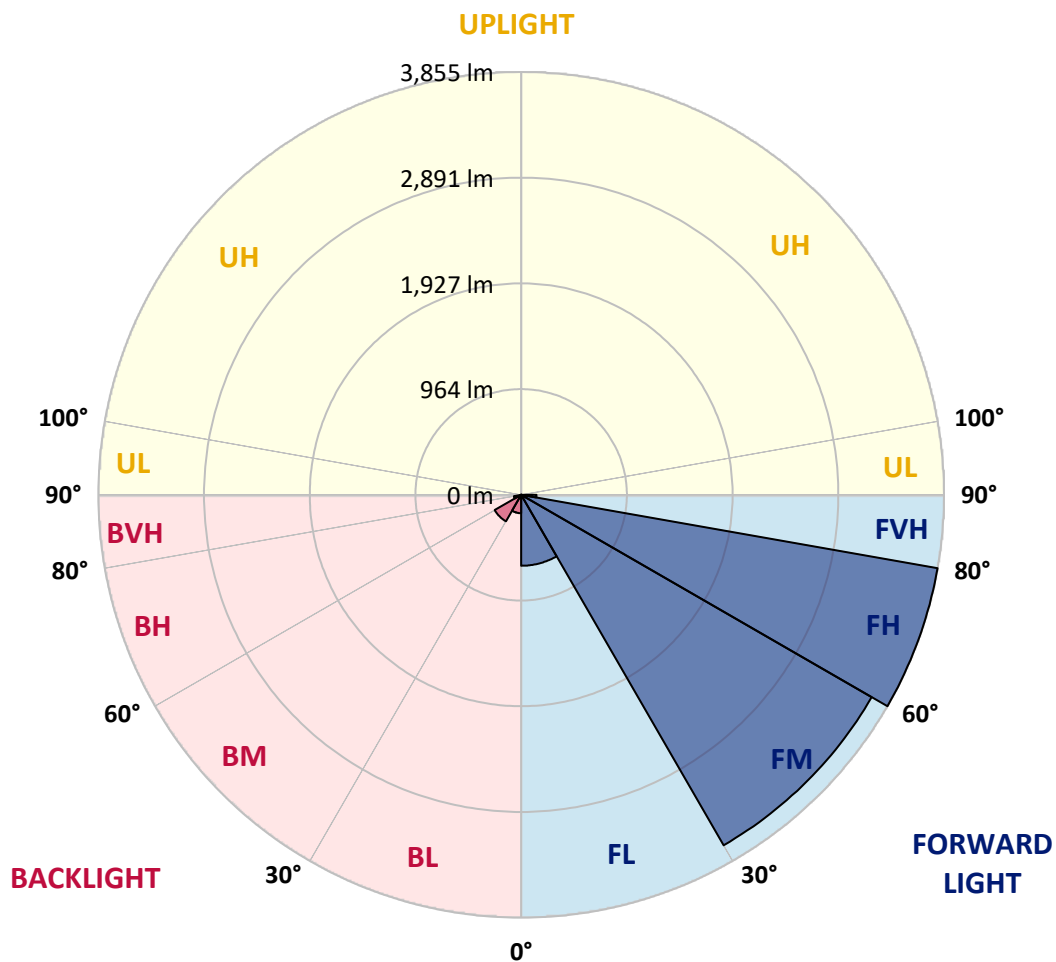
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.0	7.3			
FM	(30°-60°)	3689.1	41.7			
FH	(60°-80°)	3854.6	43.6			G2/5000
FVH	(80°-90°)	139.7	1.6			G2/225
BL	(0°-30°)	167.7	1.9	B1/500		
BM	(30°-60°)	278.2	3.1	B1/1000		
BH	(60°-80°)	67.2	0.8	B0/110		G0/110
BVH	(80°-90°)	4.5	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°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1451.5	1443.6	1438.9	1432.5	1424.6	1417.8	1415.2	1395.7	1377.2	1352.0	1323.0
5°	1478.4	1475.7	1467.3	1458.9	1449.4	1438.9	1433.1	1409.9	1383.6	1346.7	1296.1
7.5°	1481.0	1477.8	1467.3	1455.7	1442.5	1429.9	1419.9	1396.7	1372.5	1335.1	1273.5
10°	1476.8	1473.1	1465.2	1452.6	1436.2	1424.1	1414.1	1392.0	1371.4	1337.7	1269.3
12.5°	1472.0	1468.4	1464.7	1458.3	1444.1	1435.7	1427.3	1406.2	1387.8	1359.3	1284.5
15°	1476.8	1474.7	1478.9	1476.3	1468.4	1461.0	1452.6	1433.6	1416.7	1393.0	1312.5
17.5°	1496.8	1496.8	1510.0	1511.5	1504.2	1493.6	1481.5	1462.6	1448.3	1428.3	1345.6
20°	1543.7	1542.1	1558.9	1562.1	1544.2	1527.9	1510.0	1486.8	1475.7	1463.1	1378.3
22.5°	1624.2	1616.9	1626.9	1623.7	1588.4	1563.2	1541.0	1512.6	1506.8	1501.0	1414.6
25°	1729.1	1724.8	1731.7	1700.6	1638.5	1604.2	1577.9	1545.8	1545.8	1551.6	1455.7
27.5°	1881.3	1865.5	1842.3	1787.5	1694.3	1650.6	1622.1	1587.9	1596.9	1618.5	1510.0
30°	2037.2	2019.8	1966.6	1882.3	1762.2	1716.4	1683.2	1647.4	1668.5	1708.0	1582.6
32.5°	2190.9	2171.5	2096.1	1989.8	1859.7	1813.8	1781.7	1742.2	1777.5	1843.9	1689.0
35°	2340.0	2322.6	2235.7	2110.4	1989.2	1951.3	1921.8	1887.6	1932.9	2025.6	1839.1
37.5°	2507.5	2488.5	2382.6	2246.8	2146.7	2119.3	2097.7	2063.5	2142.5	2278.4	2048.2
40°	2713.4	2681.3	2538.5	2403.2	2328.9	2315.8	2301.0	2296.3	2419.0	2607.0	2326.8
42.5°	2949.3	2896.7	2701.8	2568.0	2529.1	2538.5	2534.9	2555.9	2765.0	3015.7	2666.0
45°	3185.3	3117.3	2883.5	2743.9	2749.2	2782.4	2802.9	2887.2	3198.5	3484.4	3031.0
47.5°	3385.4	3318.5	3057.8	2934.1	2997.3	3062.6	3118.4	3278.0	3644.0	3945.8	3314.8
50°	3556.6	3493.4	3242.7	3143.2	3285.4	3390.7	3481.3	3717.7	4123.3	4297.1	3513.9
52.5°	3696.7	3654.5	3434.4	3382.8	3614.5	3768.8	3901.6	4184.9	4547.8	4582.5	3668.8
55°	3833.1	3803.1	3640.3	3667.7	4001.1	4211.2	4379.2	4680.5	4913.3	4820.6	3817.3
57.5°	3990.0	3962.7	3875.2	4029.0	4509.3	4773.7	4957.0	5119.7	5235.1	5063.9	3957.4
60°	4150.1	4134.3	4136.5	4430.3	5092.9	5346.7	5447.9	5490.0	5551.1	5293.0	3965.3
62.5°	4302.9	4332.9	4435.1	4876.9	5651.7	5846.5	5897.6	5939.2	5867.6	5329.4	3663.5
65°	4561.5	4610.5	4854.3	5474.7	6266.3	6474.9	6527.5	6384.8	5917.6	4859.6	2979.9
67.5°	4687.9	4777.4	5212.4	6031.9	6862.5	7094.2	7074.7	6413.8	5310.4	3705.6	1912.3
69°	4661.5	4756.9	5295.1	6202.6	7060.5	7270.7	7146.9	6059.3	4524.1	2684.4	1173.9
70°	4557.3	4653.6	5252.5	6196.2	7085.8	7252.2	7013.1	5621.7	3825.2	1962.9	734.2
72.5°	3805.7	3888.9	4663.1	5600.6	6527.5	6392.2	5867.1	3894.7	1863.9	534.6	165.4
75°	2342.6	2389.0	3345.9	4219.1	4930.1	4582.5	3908.9	1937.6	555.6	151.2	91.6
77.5°	1237.7	1258.7	1831.8	2486.9	3125.2	2585.9	2003.4	755.8	256.0	94.8	66.4
80°	731.5	747.3	986.4	1137.1	1352.5	1129.7	801.1	464.0	183.3	59.5	59.0
82.5°	418.7	428.7	715.2	632.0	533.0	455.0	398.7	439.8	110.1	40.0	61.1
85°	153.8	155.9	402.4	480.8	317.1	188.5	198.0	364.5	29.5	25.3	47.9
87.5°	71.6	70.0	207.0	294.4	185.4	119.6	154.3	80.1	11.6	16.3	13.2
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1306.1	1286.6	1251.4	1215.0	1178.2	1149.7	1121.8	1099.7	1092.3	1078.6	1079.7
5°	1266.1	1230.3	1156.6	1081.8	1003.8	939.6	879.0	830.0	806.3	782.1	782.1
7.5°	1231.3	1179.2	1063.9	942.2	816.3	710.5	615.1	543.5	504.0	472.4	471.9
10°	1218.2	1147.6	986.4	812.1	636.7	492.4	379.2	306.5	269.1	244.9	243.8
12.5°	1224.0	1136.5	926.9	692.0	471.9	316.5	219.6	172.7	156.9	149.6	149.6
15°	1240.8	1133.4	867.4	574.6	333.4	198.0	145.9	133.2	132.2	132.2	132.2
17.5°	1261.4	1134.4	806.3	460.3	227.0	141.7	125.9	124.3	125.3	125.3	125.3
20°	1282.4	1135.0	740.5	354.4	160.1	123.2	118.5	118.0	119.0	119.0	119.6
22.5°	1308.2	1137.6	674.7	264.9	132.2	116.4	112.7	112.7	113.2	113.2	112.7
25°	1337.7	1142.9	606.2	196.4	120.6	111.7	108.5	108.0	108.5	108.0	107.4
27.5°	1374.6	1150.2	529.8	153.8	115.3	106.9	104.3	104.3	103.8	103.2	102.7
30°	1421.0	1158.7	444.0	130.6	110.1	102.7	100.1	99.5	99.0	98.0	98.0
32.5°	1491.5	1177.1	359.2	118.5	104.3	96.9	94.8	94.8	93.7	92.7	92.2
35°	1600.0	1213.4	283.3	111.1	98.0	90.6	88.0	88.0	86.9	86.4	85.8
37.5°	1750.1	1268.7	220.1	104.3	91.6	83.7	81.1	80.6	79.5	78.5	77.9
40°	1949.7	1337.2	173.3	98.0	85.3	76.9	74.8	73.7	71.6	70.0	70.0
42.5°	2200.4	1415.2	140.6	91.1	77.9	70.6	69.0	67.4	63.7	62.1	61.6
45°	2462.7	1485.2	119.0	83.2	70.6	64.3	63.2	60.6	55.8	54.2	54.2
47.5°	2651.8	1501.5	104.8	75.8	63.7	57.4	56.9	52.1	47.9	46.9	46.3
50°	2769.7	1469.4	93.2	68.5	57.4	51.1	49.5	43.7	41.1	40.0	39.5
52.5°	2849.3	1412.0	83.7	62.1	51.6	45.3	41.6	37.4	35.3	34.2	34.2
55°	2913.0	1330.9	74.3	56.4	46.9	40.6	35.3	32.1	30.0	29.0	29.0
57.5°	2930.9	1220.8	64.8	51.6	42.1	35.8	30.0	27.9	25.3	24.8	24.8
60°	2800.8	1022.3	57.4	45.8	37.9	31.1	26.3	23.7	21.1	20.5	20.0
62.5°	2458.0	791.1	50.6	40.6	33.2	26.9	22.6	19.5	17.4	17.4	17.4
65°	1874.9	530.4	44.2	35.3	29.0	22.6	19.5	15.8	14.7	14.7	15.3
67.5°	1122.3	288.6	37.9	30.0	24.8	19.0	16.3	13.7	13.2	13.7	13.7
69°	657.8	169.6	34.2	26.9	21.6	16.9	14.2	12.1	13.2	13.7	13.7
70°	406.1	114.3	31.6	24.2	19.5	15.3	13.2	11.6	12.6	13.2	13.2
72.5°	113.2	59.0	25.3	19.0	15.8	12.6	10.5	10.5	12.1	12.6	12.6
75°	73.7	43.7	19.5	14.2	12.1	10.0	9.0	10.0	11.6	12.1	12.1
77.5°	61.1	35.8	15.8	11.6	10.0	9.5	8.4	9.0	10.5	11.1	11.1
80°	55.8	25.3	12.6	10.5	9.0	8.4	7.9	7.4	9.5	10.0	10.0
82.5°	53.2	20.0	11.1	9.5	8.4	7.4	6.8	7.4	8.4	9.0	9.5
85°	33.2	13.2	10.0	9.0	7.4	6.8	6.8	6.8	7.9	8.4	8.4
87.5°	12.1	10.5	9.0	7.4	6.3	6.3	6.3	6.3	6.8	7.9	7.9
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)