

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: P191190

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191190  
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-SL4-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 6661.5 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

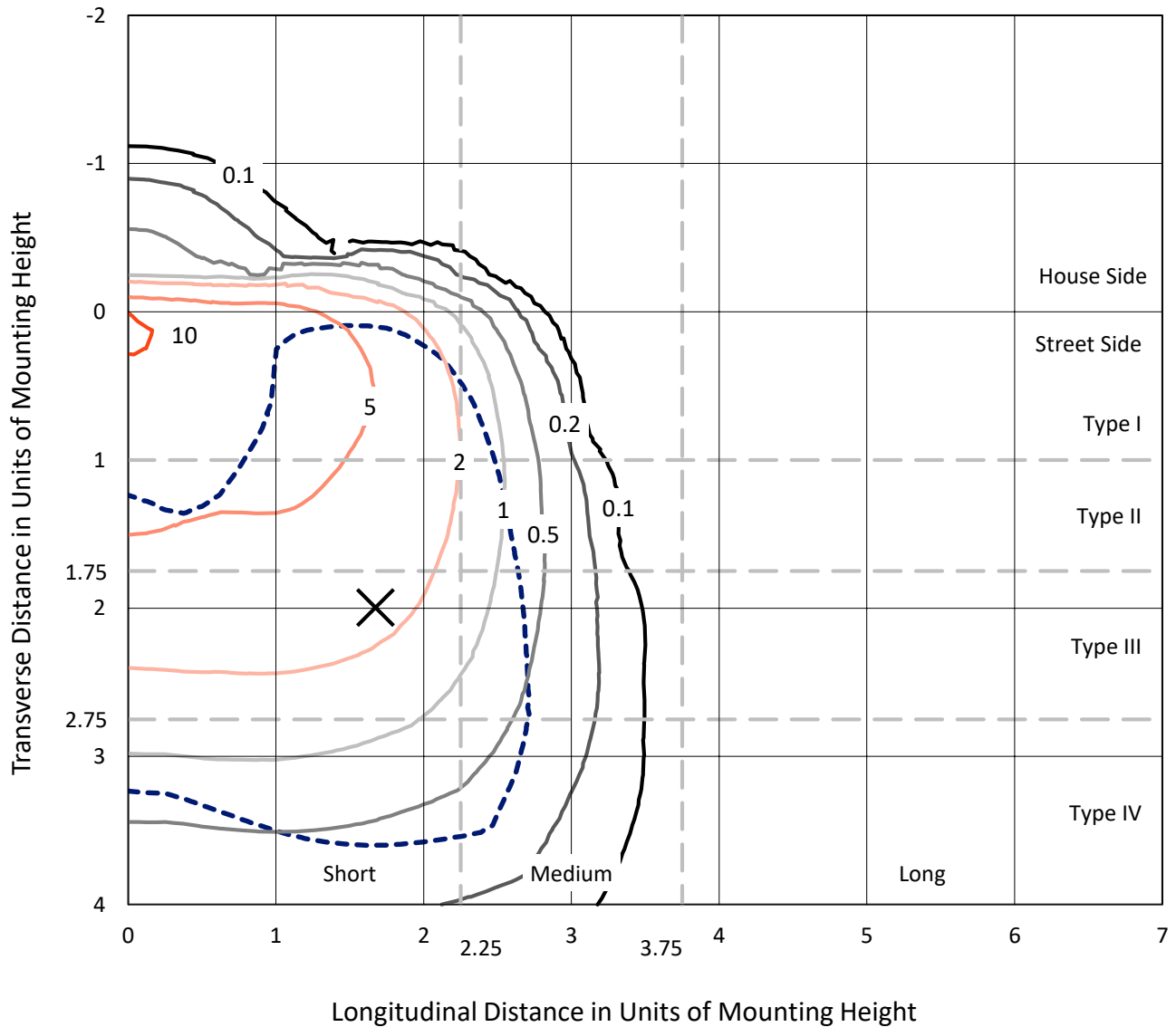
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

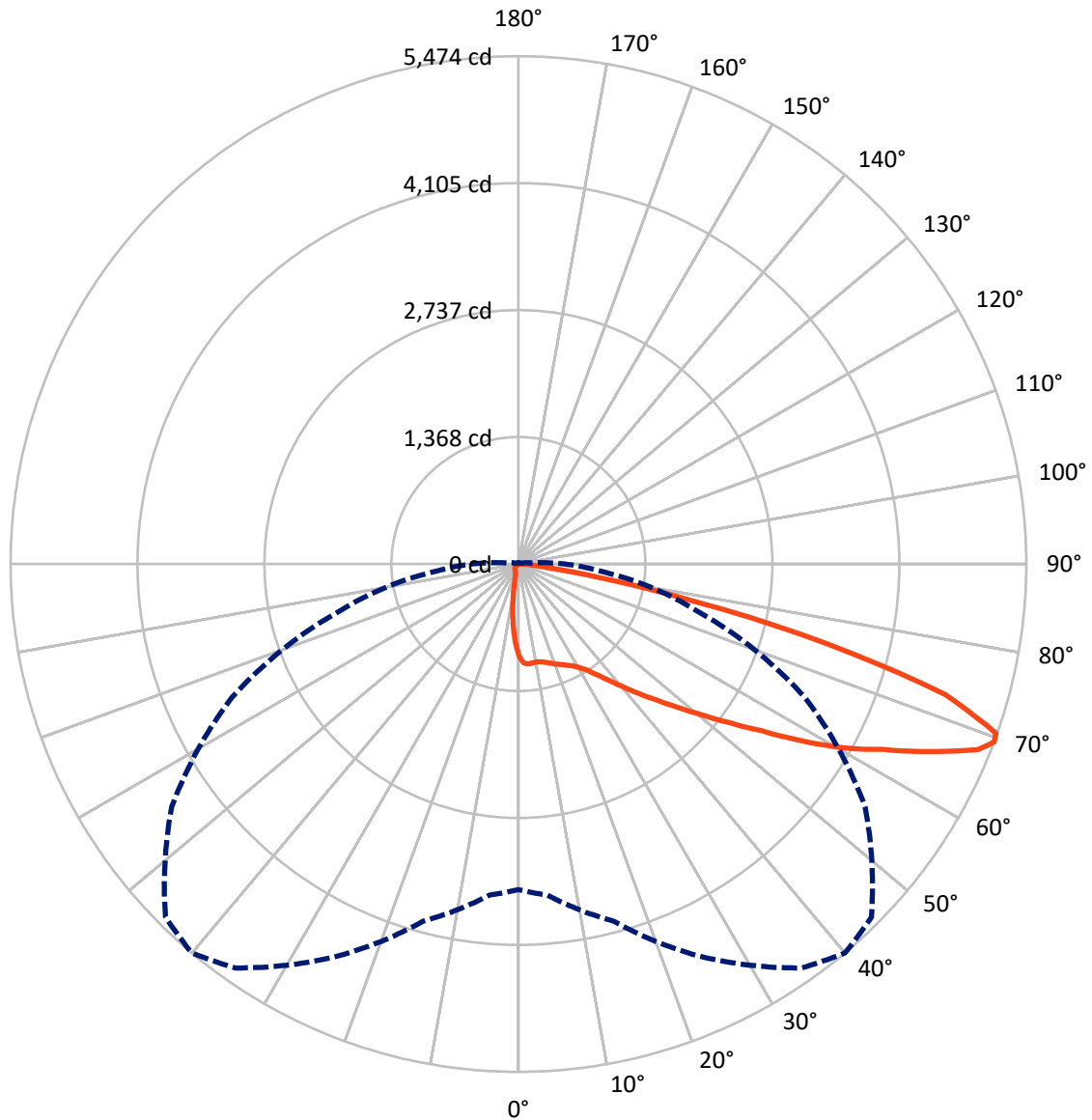
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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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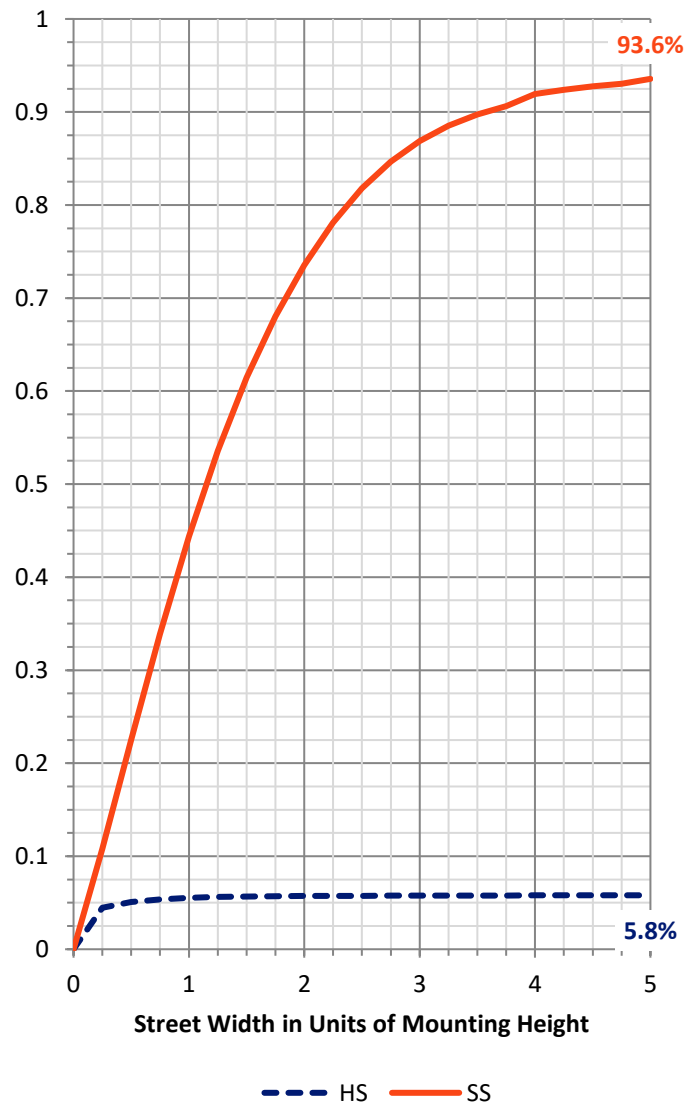
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	389.7	0.0	389.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	6271.7	0.0	6271.7
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	6661.5	0.0	6661.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	1.2
10°-20°	198.4	3.0
20°-30°	334.3	5.0
30°-40°	547.2	8.2
40°-50°	947.4	14.2
50°-60°	1492.3	22.4
60°-70°	1948.9	29.3
70°-80°	1003.8	15.1
80°-90°	108.6	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°	6661.5	100.0
0°-180°	6661.5	100.0



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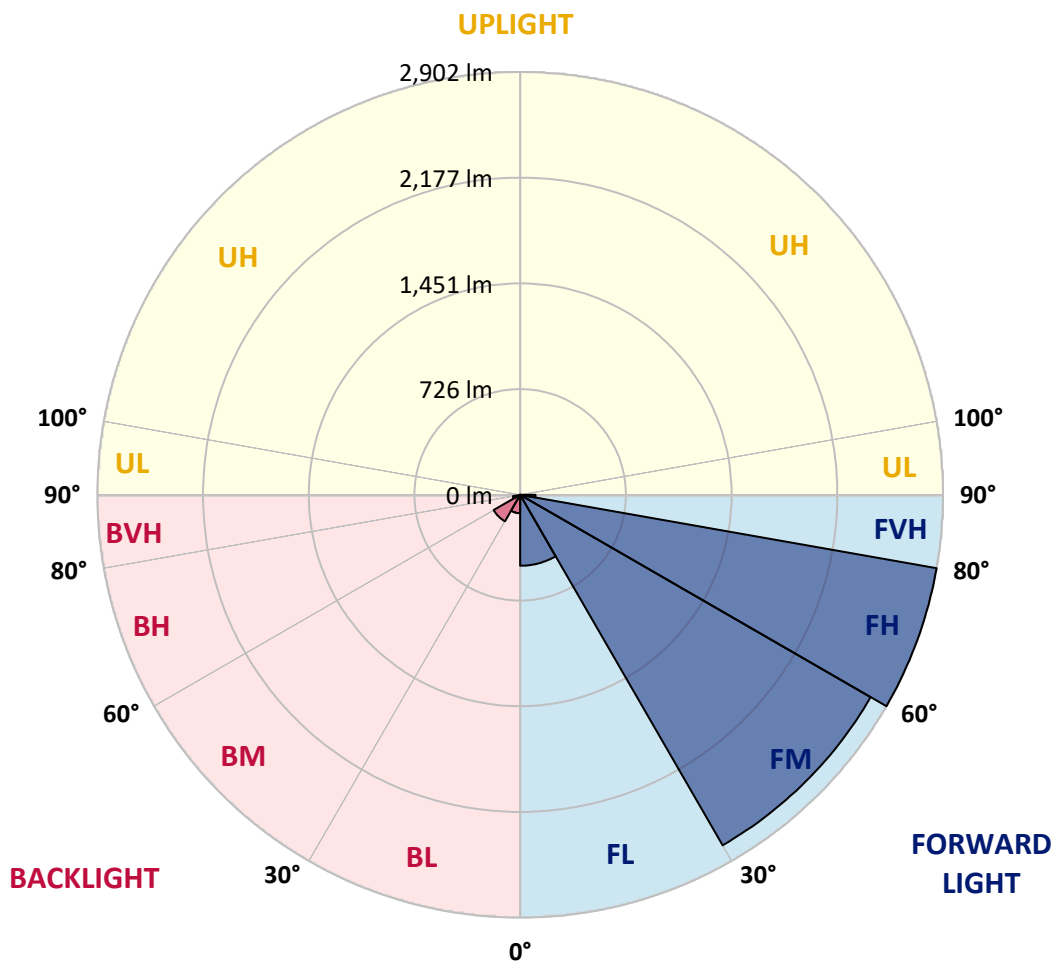
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.1	7.3			
FM	(30°-60°)	2777.4	41.7			
FH	(60°-80°)	2902.0	43.6			G2/5000
FVH	(80°-90°)	105.2	1.6			G2/225
BL	(0°-30°)	126.2	1.9	B1/500		
BM	(30°-60°)	209.5	3.1	B0/220		
BH	(60°-80°)	50.6	0.8	B0/110		G0/110
BVH	(80°-90°)	3.4	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°	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2
2.5°	1092.8	1086.9	1083.3	1078.5	1072.6	1067.4	1065.4	1050.8	1036.9	1017.8	996.0
5°	1113.0	1111.0	1104.7	1098.3	1091.2	1083.3	1078.9	1061.5	1041.7	1013.8	975.8
7.5°	1115.0	1112.7	1104.7	1096.0	1086.1	1076.6	1069.0	1051.6	1033.3	1005.2	958.8
10°	1111.8	1109.1	1103.2	1093.6	1081.3	1072.2	1064.7	1048.0	1032.6	1007.2	955.6
12.5°	1108.3	1105.5	1102.7	1097.9	1087.3	1081.0	1074.6	1058.7	1044.8	1023.4	967.1
15°	1111.8	1110.2	1113.4	1111.4	1105.5	1100.0	1093.6	1079.3	1066.6	1048.8	988.1
17.5°	1126.9	1126.9	1136.8	1138.0	1132.4	1124.5	1115.4	1101.1	1090.5	1075.3	1013.1
20°	1162.2	1161.0	1173.7	1176.1	1162.6	1150.3	1136.8	1119.4	1111.0	1101.5	1037.7
22.5°	1222.8	1217.3	1224.9	1222.4	1195.9	1176.9	1160.2	1138.7	1134.5	1130.1	1065.0
25°	1301.8	1298.6	1303.8	1280.3	1233.6	1207.8	1188.0	1163.8	1163.8	1168.1	1096.0
27.5°	1416.4	1404.5	1387.0	1345.8	1275.6	1242.7	1221.3	1195.5	1202.3	1218.5	1136.8
30°	1533.7	1520.6	1480.6	1417.2	1326.8	1292.3	1267.2	1240.3	1256.2	1286.0	1191.5
32.5°	1649.5	1634.9	1578.1	1498.0	1400.1	1365.6	1341.4	1311.6	1338.2	1388.2	1271.6
35°	1761.7	1748.6	1683.2	1588.8	1497.6	1469.1	1446.9	1421.1	1455.2	1525.0	1384.7
37.5°	1887.9	1873.5	1793.8	1691.6	1616.2	1595.6	1579.3	1553.6	1613.0	1715.3	1542.1
40°	2042.8	2018.7	1911.2	1809.3	1753.4	1743.5	1732.4	1728.8	1821.2	1962.7	1751.8
42.5°	2220.5	2180.8	2034.1	1933.4	1904.1	1911.2	1908.4	1924.3	2081.7	2270.4	2007.1
45°	2398.1	2347.0	2170.9	2065.8	2069.8	2094.8	2110.2	2173.7	2408.0	2623.4	2282.0
47.5°	2548.8	2498.5	2302.2	2209.0	2256.5	2305.7	2347.8	2467.9	2743.5	2970.6	2495.7
50°	2677.7	2630.1	2441.4	2366.4	2473.5	2552.8	2621.0	2799.0	3104.3	3235.2	2645.6
52.5°	2783.1	2751.4	2585.7	2546.8	2721.3	2837.5	2937.4	3150.7	3423.9	3450.1	2762.2
55°	2885.8	2863.2	2740.7	2761.4	3012.3	3170.5	3297.1	3523.9	3699.1	3629.3	2874.0
57.5°	3004.0	2983.4	2917.6	3033.4	3395.0	3594.0	3732.0	3854.6	3941.3	3812.5	2979.4
60°	3124.5	3112.6	3114.3	3335.5	3834.3	4025.4	4101.5	4133.3	4179.3	3985.0	2985.4
62.5°	3239.6	3262.2	3339.0	3671.8	4255.1	4401.8	4440.2	4471.5	4417.6	4012.3	2758.2
65°	3434.3	3471.1	3654.7	4121.8	4717.7	4874.8	4914.5	4806.9	4455.3	3658.7	2243.5
67.5°	3529.4	3596.8	3924.3	4541.3	5166.6	5341.0	5326.4	4828.7	3998.1	2789.9	1439.7
69°	3509.5	3581.4	3986.5	4669.8	5315.7	5473.9	5380.7	4562.0	3406.1	2021.0	883.8
70°	3431.1	3503.6	3954.4	4665.0	5334.7	5460.0	5280.0	4232.5	2879.9	1477.9	552.7
72.5°	2865.2	2927.9	3510.8	4216.6	4914.5	4812.5	4417.2	2932.3	1403.3	402.4	124.5
75°	1763.7	1798.6	2519.1	3176.5	3711.8	3450.1	2942.9	1458.8	418.3	113.8	68.9
77.5°	931.8	947.7	1379.0	1872.3	2352.9	1946.9	1508.3	569.0	192.7	71.4	49.9
80°	550.8	562.6	742.7	856.1	1018.2	850.5	603.1	349.3	138.0	44.8	44.4
82.5°	315.3	322.7	538.5	475.8	401.3	342.6	300.1	331.1	82.9	30.2	46.0
85°	115.8	117.3	302.9	362.0	238.7	142.0	149.0	274.4	22.2	19.0	36.1
87.5°	53.9	52.8	155.8	221.7	139.5	90.0	116.2	60.3	8.7	12.3	9.9
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°	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2
2.5°	983.4	968.7	942.1	914.7	887.0	865.6	844.5	828.0	822.4	812.0	812.8
5°	953.2	926.3	870.7	814.5	755.8	707.4	661.7	624.9	607.0	588.8	588.8
7.5°	927.1	887.8	801.0	709.4	614.6	534.9	463.1	409.2	379.5	355.7	355.3
10°	917.2	864.0	742.7	611.4	479.4	370.7	285.5	230.8	202.6	184.3	183.6
12.5°	921.5	855.7	697.9	521.0	355.3	238.3	165.3	130.0	118.2	112.6	112.6
15°	934.2	853.3	653.1	432.6	251.0	149.0	109.9	100.4	99.5	99.5	99.5
17.5°	949.6	854.1	607.0	346.6	170.9	106.7	94.7	93.6	94.4	94.4	94.4
20°	965.6	854.5	557.5	266.9	120.5	92.8	89.2	88.8	89.6	89.6	90.0
22.5°	984.9	856.5	507.9	199.5	99.5	87.7	84.9	84.9	85.2	85.2	84.9
25°	1007.2	860.4	456.4	147.9	90.8	84.1	81.6	81.3	81.6	81.3	80.9
27.5°	1034.9	866.0	398.8	115.8	86.8	80.5	78.5	78.5	78.2	77.7	77.3
30°	1069.8	872.4	334.3	98.3	82.9	77.3	75.3	75.0	74.6	73.8	73.8
32.5°	1122.9	886.2	270.5	89.2	78.5	72.9	71.4	71.4	70.6	69.8	69.4
35°	1204.6	913.6	213.3	83.7	73.8	68.2	66.2	66.2	65.5	65.1	64.7
37.5°	1317.7	955.2	165.7	78.5	68.9	63.0	61.1	60.7	59.8	59.1	58.7
40°	1467.9	1006.8	130.4	73.8	64.2	57.9	56.3	55.5	53.9	52.8	52.8
42.5°	1656.7	1065.4	105.9	68.6	58.7	53.1	52.0	50.7	48.0	46.7	46.4
45°	1854.1	1118.2	89.6	62.6	53.1	48.4	47.6	45.6	42.0	40.8	40.8
47.5°	1996.5	1130.5	78.9	57.1	48.0	43.3	42.9	39.3	36.1	35.3	34.9
50°	2085.3	1106.3	70.2	51.6	43.3	38.5	37.2	32.9	30.9	30.2	29.8
52.5°	2145.1	1063.1	63.0	46.7	38.9	34.1	31.3	28.1	26.6	25.8	25.8
55°	2193.1	1002.0	56.0	42.5	35.3	30.5	26.6	24.1	22.6	21.8	21.8
57.5°	2206.6	919.1	48.8	38.9	31.7	27.0	22.6	21.0	19.0	18.6	18.6
60°	2108.7	769.7	43.3	34.5	28.5	23.4	19.8	17.8	15.9	15.4	15.0
62.5°	1850.5	595.6	38.1	30.5	25.0	20.3	17.1	14.6	13.1	13.1	13.1
65°	1411.6	399.3	33.3	26.6	21.8	17.1	14.6	11.9	11.2	11.2	11.5
67.5°	845.0	217.3	28.5	22.6	18.6	14.3	12.3	10.3	9.9	10.3	10.3
69°	495.2	127.7	25.8	20.3	16.3	12.7	10.7	9.1	9.9	10.3	10.3
70°	305.8	86.0	23.8	18.2	14.6	11.5	9.9	8.7	9.5	9.9	9.9
72.5°	85.2	44.4	19.0	14.3	11.9	9.5	8.0	8.0	9.1	9.5	9.5
75°	55.5	32.9	14.6	10.7	9.1	7.6	6.8	7.6	8.7	9.1	9.1
77.5°	46.0	27.0	11.9	8.7	7.6	7.2	6.3	6.8	8.0	8.3	8.3
80°	42.0	19.0	9.5	8.0	6.8	6.3	5.9	5.5	7.2	7.6	7.6
82.5°	40.0	15.0	8.3	7.2	6.3	5.5	5.1	5.5	6.3	6.8	7.2
85°	25.0	9.9	7.6	6.8	5.5	5.1	5.1	5.1	5.9	6.3	6.3
87.5°	9.1	8.0	6.8	5.5	4.8	4.8	4.8	4.8	5.1	5.9	5.9
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)