

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: P269085

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269085  
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-SL4-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA 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: 6938.1 lumens  
Efficiency: N/A  
Efficacy: 81.6 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): 85  
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

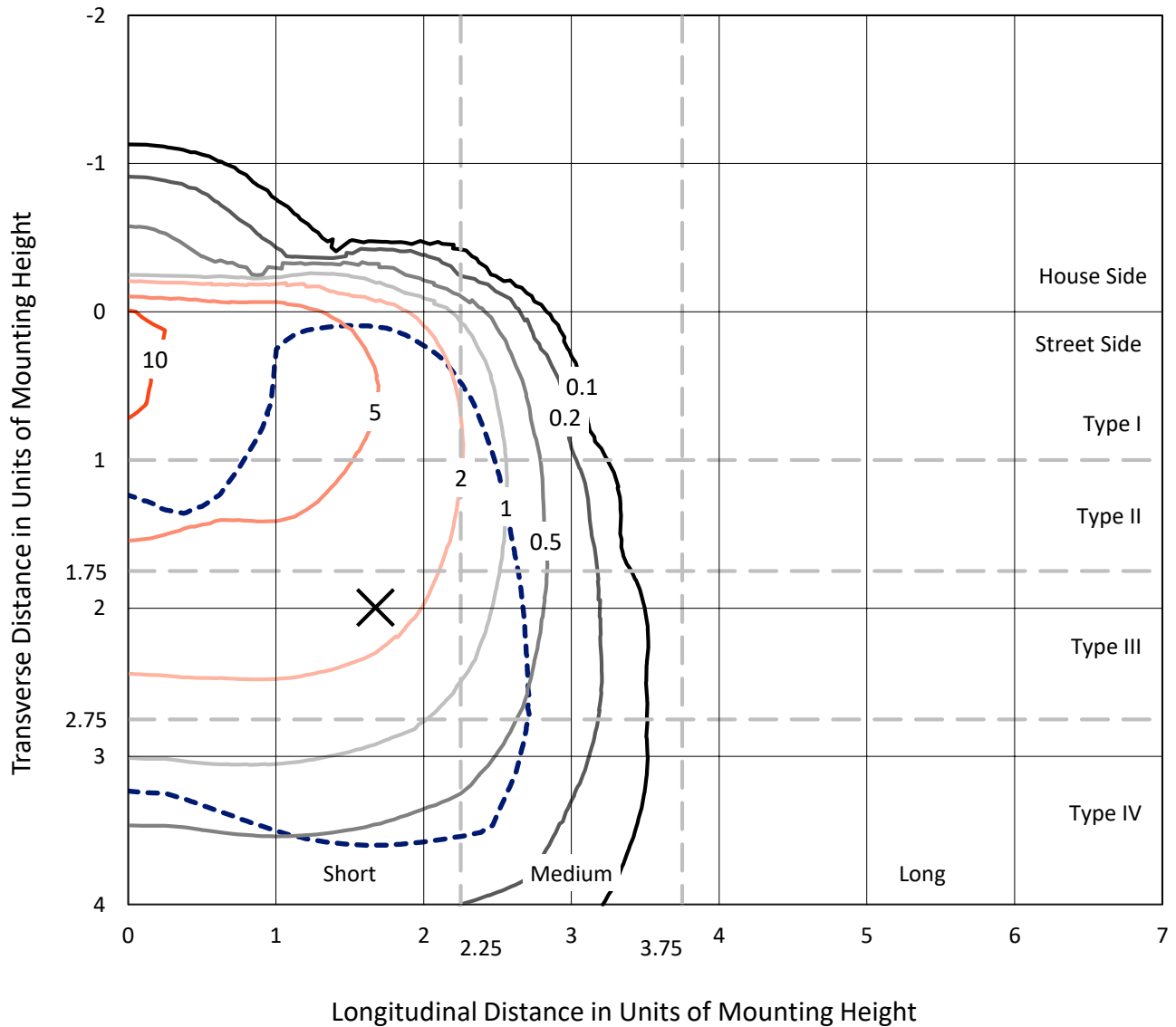


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

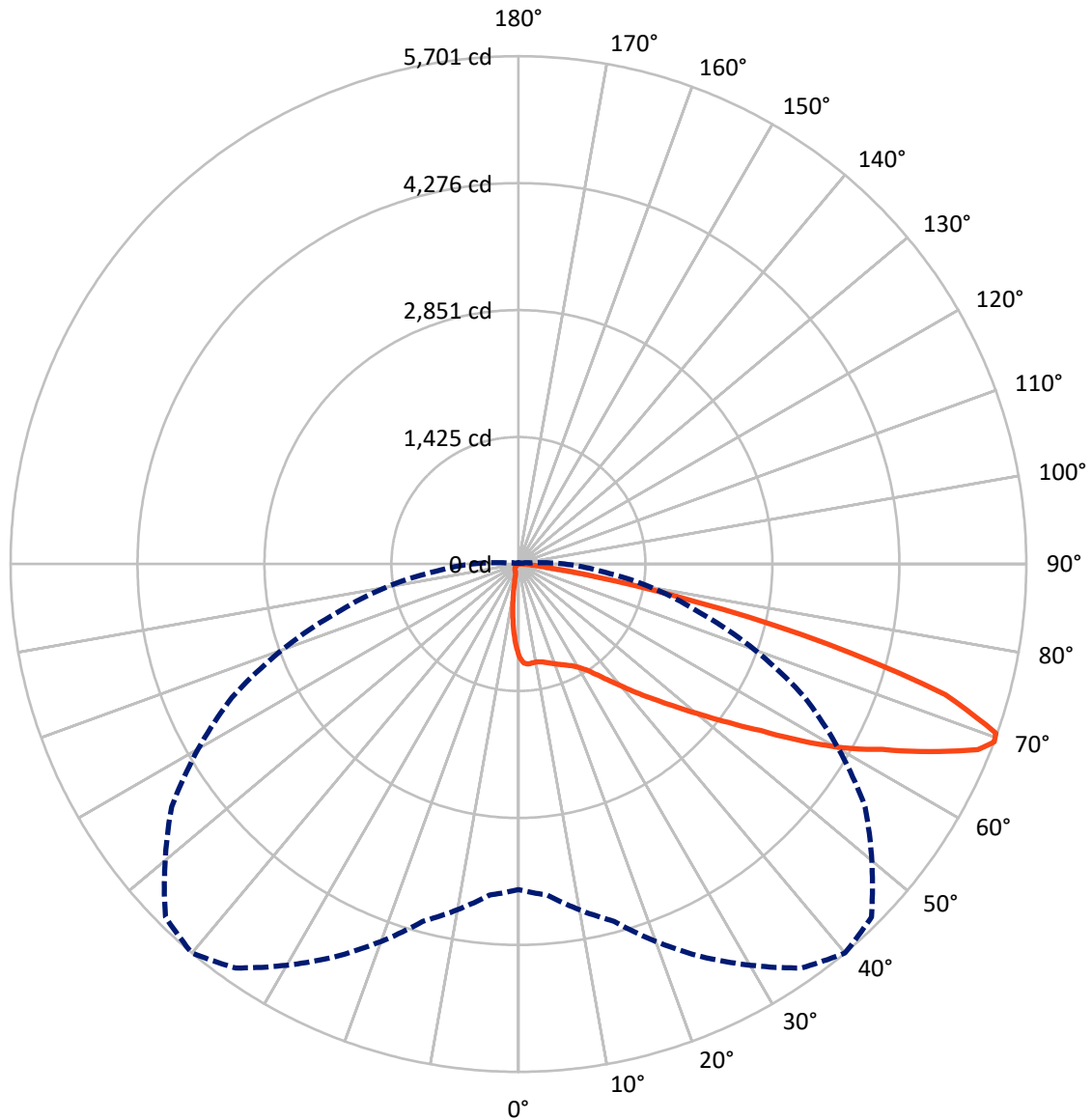


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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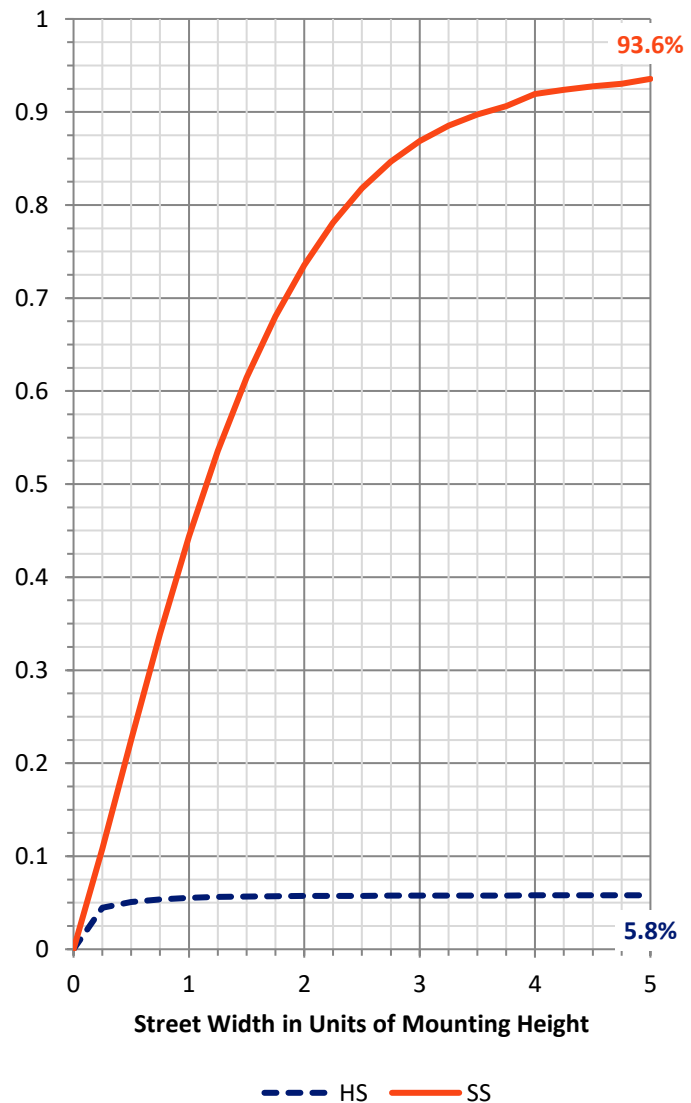
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	405.9	0.0	405.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	6532.2	0.0	6532.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	6938.1	0.0	6938.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.0	1.2
10°-20°	206.7	3.0
20°-30°	348.1	5.0
30°-40°	569.9	8.2
40°-50°	986.8	14.2
50°-60°	1554.3	22.4
60°-70°	2029.8	29.3
70°-80°	1045.4	15.1
80°-90°	113.1	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°	6938.1	100.0
0°-180°	6938.1	100.0



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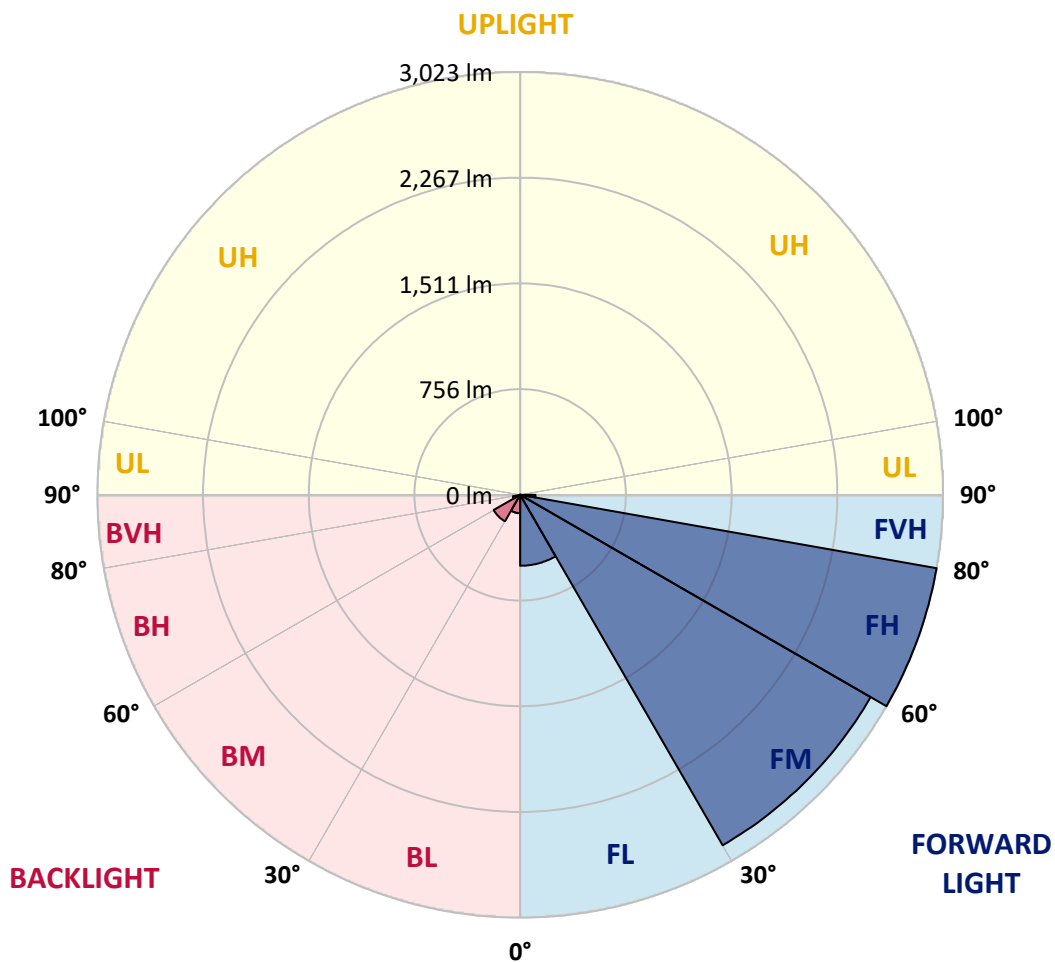
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.4	7.3			
FM	(30°-60°)	2892.7	41.7			
FH	(60°-80°)	3022.5	43.6			G2/5000
FVH	(80°-90°)	109.5	1.6			G2/225
BL	(0°-30°)	131.5	1.9	B1/500		
BM	(30°-60°)	218.2	3.1	B0/220		
BH	(60°-80°)	52.7	0.8	B0/110		G0/110
BVH	(80°-90°)	3.5	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°	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6
2.5°	1138.2	1132.0	1128.4	1123.3	1117.1	1111.7	1109.6	1094.5	1079.9	1060.1	1037.5
5°	1159.3	1157.1	1150.5	1143.9	1136.5	1128.4	1123.7	1105.5	1085.0	1056.0	1016.3
7.5°	1161.2	1158.9	1150.5	1141.4	1131.1	1121.3	1113.4	1095.3	1076.2	1047.0	998.6
10°	1158.0	1155.1	1148.9	1139.1	1126.3	1116.8	1108.9	1091.5	1075.5	1049.0	995.3
12.5°	1154.3	1151.4	1148.6	1143.5	1132.5	1125.8	1119.2	1102.7	1088.1	1065.8	1007.3
15°	1158.0	1156.4	1159.6	1157.6	1151.4	1145.6	1139.1	1124.0	1110.9	1092.2	1029.2
17.5°	1173.6	1173.6	1184.1	1185.3	1179.5	1171.2	1161.7	1146.9	1135.6	1119.9	1055.1
20°	1210.5	1209.2	1222.5	1224.8	1210.8	1198.1	1184.1	1165.8	1157.1	1147.2	1080.8
22.5°	1273.6	1267.9	1275.8	1273.2	1245.6	1225.7	1208.4	1186.1	1181.5	1177.0	1109.2
25°	1355.8	1352.5	1357.9	1333.5	1284.8	1257.9	1237.2	1212.2	1212.2	1216.7	1141.4
27.5°	1475.1	1462.8	1444.7	1401.6	1328.6	1294.3	1272.0	1245.1	1252.1	1269.0	1184.1
30°	1597.5	1583.8	1542.1	1475.9	1381.9	1345.9	1319.9	1291.9	1308.3	1339.4	1241.0
32.5°	1718.0	1702.7	1643.7	1560.3	1458.3	1422.2	1397.1	1366.1	1393.8	1445.8	1324.5
35°	1834.9	1821.3	1753.1	1654.8	1559.8	1530.2	1506.9	1480.1	1515.6	1588.4	1442.0
37.5°	1966.2	1951.4	1868.4	1761.8	1683.3	1661.9	1644.8	1618.0	1680.0	1786.5	1606.1
40°	2127.6	2102.6	1990.6	1884.5	1826.3	1815.8	1804.3	1800.7	1896.9	2044.3	1824.5
42.5°	2312.6	2271.5	2118.7	2013.7	1983.2	1990.6	1987.7	2004.2	2168.1	2364.8	2090.5
45°	2497.6	2444.5	2261.0	2151.6	2155.8	2181.9	2198.0	2264.0	2508.1	2732.3	2376.7
47.5°	2654.6	2602.2	2397.8	2300.6	2350.2	2401.4	2445.2	2570.4	2857.4	3094.0	2599.3
50°	2788.9	2739.3	2542.7	2464.7	2576.2	2658.8	2729.8	2915.2	3233.2	3369.5	2755.5
52.5°	2898.7	2865.8	2693.1	2652.5	2834.3	2955.3	3059.4	3281.6	3566.1	3593.4	2876.8
55°	3005.6	2982.2	2854.5	2876.1	3137.4	3302.2	3434.0	3670.1	3852.7	3780.1	2993.3
57.5°	3128.7	3107.2	3038.7	3159.2	3536.0	3743.2	3887.0	4014.6	4105.1	3970.9	3103.1
60°	3254.3	3242.0	3243.6	3474.0	3993.5	4192.6	4271.9	4304.9	4352.8	4150.4	3109.4
62.5°	3374.0	3397.6	3477.7	3824.3	4431.7	4584.5	4624.6	4657.3	4601.1	4178.9	2872.7
65°	3576.8	3615.3	3806.5	4293.0	4913.6	5077.2	5118.5	5006.7	4640.3	3810.6	2336.6
67.5°	3676.0	3746.1	4087.3	4729.8	5381.1	5562.8	5547.7	5029.3	4164.2	2905.7	1499.5
69°	3655.4	3730.0	4152.1	4863.8	5536.4	5701.3	5604.2	4751.3	3547.5	2105.0	920.6
70°	3573.5	3649.2	4118.6	4858.8	5556.2	5686.8	5499.2	4408.3	2999.5	1539.2	575.8
72.5°	2984.2	3049.4	3656.6	4391.6	5118.5	5012.4	4600.6	3054.0	1461.5	419.1	129.6
75°	1836.9	1873.2	2623.7	3308.4	3865.9	3593.4	3065.1	1519.4	435.7	118.5	71.9
77.5°	970.4	987.1	1436.4	1950.1	2450.7	2027.7	1571.0	592.6	200.7	74.3	52.0
80°	573.7	586.1	773.5	891.7	1060.4	885.9	628.2	363.9	143.6	46.6	46.3
82.5°	328.3	336.1	560.8	495.5	417.9	356.7	312.6	344.8	86.2	31.4	47.9
85°	120.6	122.2	315.6	377.1	248.7	147.9	155.2	285.8	23.1	19.9	37.5
87.5°	56.1	54.9	162.4	230.9	145.3	93.8	121.0	62.8	9.2	12.8	10.3
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°	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6	1036.6
2.5°	1024.2	1008.9	981.3	952.7	923.8	901.5	879.7	862.4	856.5	845.8	846.7
5°	992.7	964.7	906.8	848.3	787.2	736.8	689.3	650.8	632.2	613.4	613.4
7.5°	965.6	924.6	834.3	738.9	640.1	557.0	482.4	426.2	395.3	370.5	370.0
10°	955.3	899.9	773.5	636.8	499.3	386.1	297.3	240.3	211.0	192.1	191.2
12.5°	959.7	891.2	726.9	542.7	370.0	248.2	172.2	135.5	123.1	117.3	117.3
15°	973.0	888.8	680.1	450.6	261.4	155.2	114.4	104.6	103.7	103.7	103.7
17.5°	989.2	889.5	632.2	360.9	178.0	111.1	98.8	97.5	98.3	98.3	98.3
20°	1005.7	890.0	580.7	277.9	125.6	96.7	93.0	92.5	93.3	93.3	93.8
22.5°	1025.9	892.0	529.0	207.7	103.7	91.3	88.4	88.4	88.8	88.8	88.4
25°	1049.0	896.1	475.4	154.0	94.6	87.6	85.1	84.7	85.1	84.7	84.3
27.5°	1077.8	902.0	415.5	120.6	90.4	83.8	81.7	81.7	81.3	80.9	80.6
30°	1114.3	908.5	348.2	102.4	86.2	80.6	78.4	78.1	77.7	76.8	76.8
32.5°	1169.6	923.0	281.7	93.0	81.7	75.9	74.3	74.3	73.5	72.8	72.3
35°	1254.7	951.6	222.2	87.1	76.8	71.1	69.0	69.0	68.1	67.7	67.4
37.5°	1372.3	994.9	172.7	81.7	71.9	65.7	63.6	63.2	62.3	61.5	61.2
40°	1528.8	1048.5	135.9	76.8	67.0	60.2	58.7	57.9	56.1	54.9	54.9
42.5°	1725.5	1109.6	110.2	71.4	61.2	55.3	54.1	52.9	49.9	48.8	48.2
45°	1931.0	1164.7	93.3	65.2	55.3	50.3	49.5	47.5	43.7	42.5	42.5
47.5°	2079.3	1177.4	82.1	59.5	49.9	45.0	44.6	41.0	37.5	36.7	36.3
50°	2171.9	1152.3	73.1	53.7	45.0	40.1	38.8	34.2	32.2	31.4	31.0
52.5°	2234.3	1107.3	65.7	48.8	40.5	35.6	32.6	29.4	27.7	26.9	26.9
55°	2284.2	1043.7	58.2	44.1	36.7	31.8	27.7	25.2	23.5	22.6	22.6
57.5°	2298.3	957.4	50.8	40.5	33.1	28.0	23.5	21.9	19.9	19.5	19.5
60°	2196.3	801.6	45.0	35.9	29.7	24.3	20.7	18.5	16.4	16.1	15.7
62.5°	1927.5	620.3	39.6	31.8	26.1	21.1	17.7	15.4	13.7	13.7	13.7
65°	1470.3	415.8	34.7	27.7	22.6	17.7	15.4	12.3	11.6	11.6	11.9
67.5°	880.1	226.4	29.7	23.5	19.5	14.8	12.8	10.7	10.3	10.7	10.7
69°	515.7	132.9	26.9	21.1	17.0	13.2	11.1	9.5	10.3	10.7	10.7
70°	318.4	89.7	24.8	19.0	15.4	11.9	10.3	9.2	9.9	10.3	10.3
72.5°	88.8	46.3	19.9	14.8	12.3	9.9	8.3	8.3	9.5	9.9	9.9
75°	57.9	34.2	15.4	11.1	9.5	7.8	7.0	7.8	9.2	9.5	9.5
77.5°	47.9	28.0	12.3	9.2	7.8	7.5	6.6	7.0	8.3	8.7	8.7
80°	43.7	19.9	9.9	8.3	7.0	6.6	6.2	5.7	7.5	7.8	7.8
82.5°	41.7	15.7	8.7	7.5	6.6	5.7	5.4	5.7	6.6	7.0	7.5
85°	26.1	10.3	7.8	7.0	5.7	5.4	5.4	5.4	6.2	6.6	6.6
87.5°	9.5	8.3	7.0	5.7	4.9	4.9	4.9	4.9	5.4	6.2	6.2
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)