

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: P193525

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-AFL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38665 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 448  
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

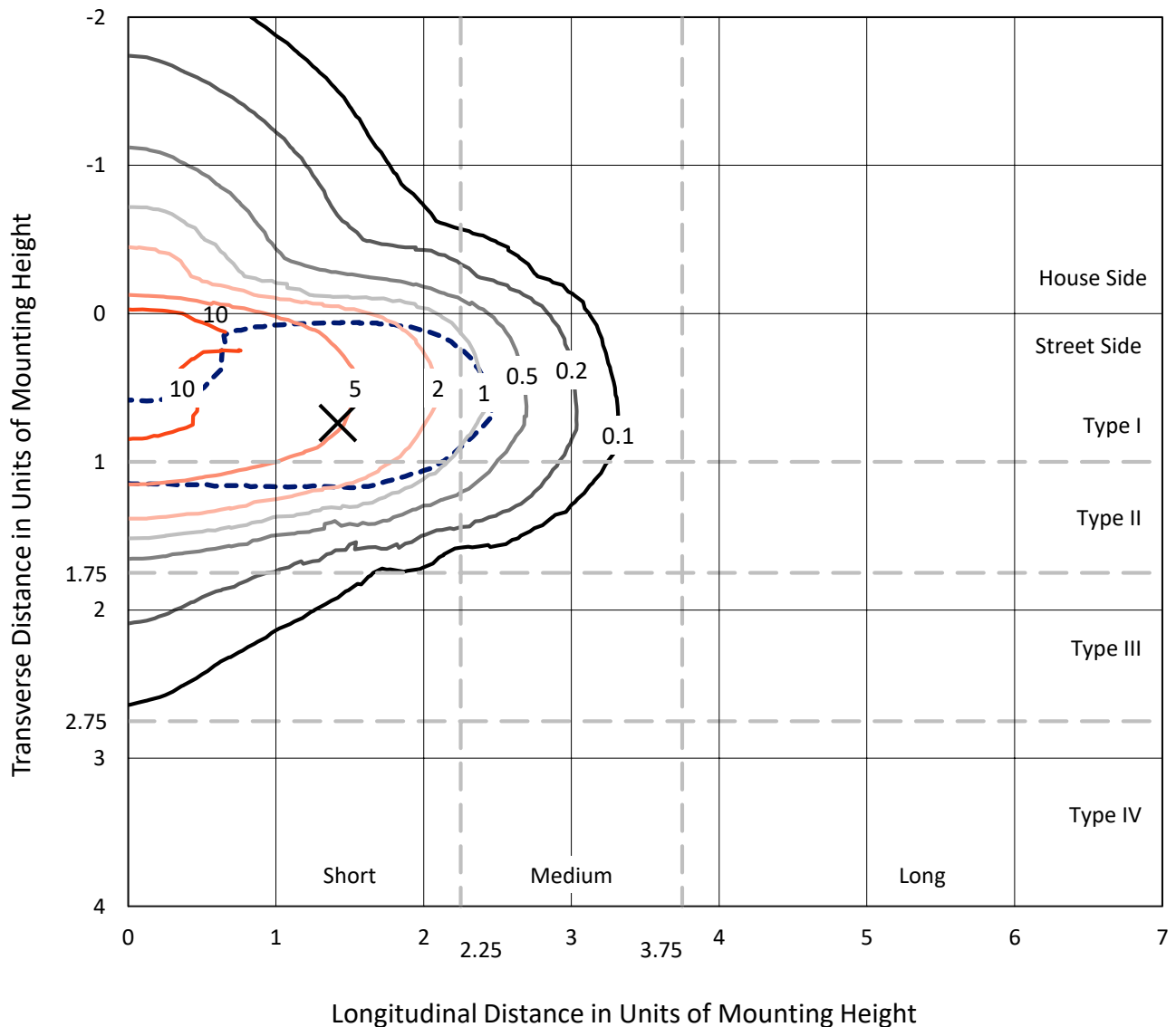


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

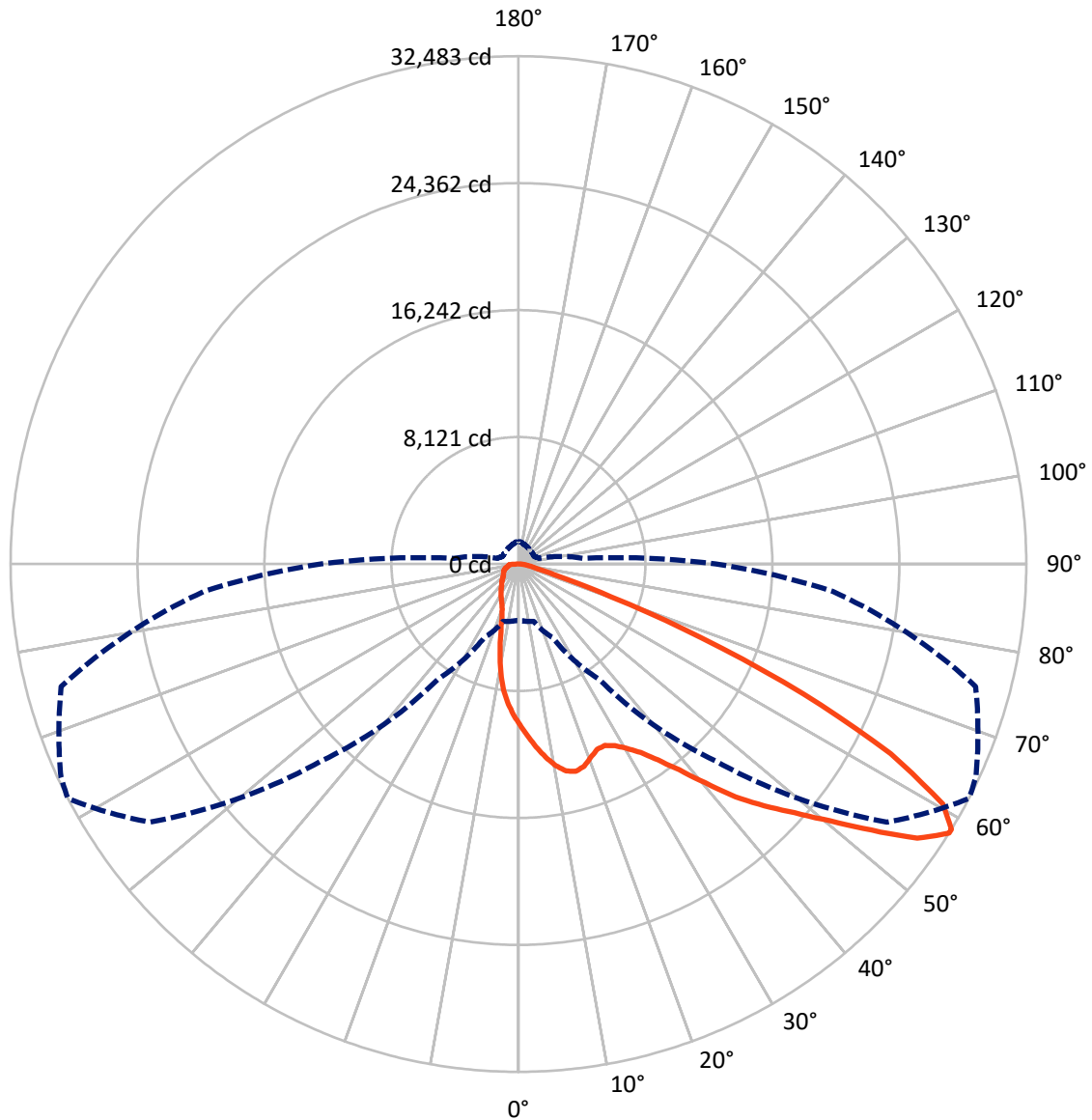


Based on 30 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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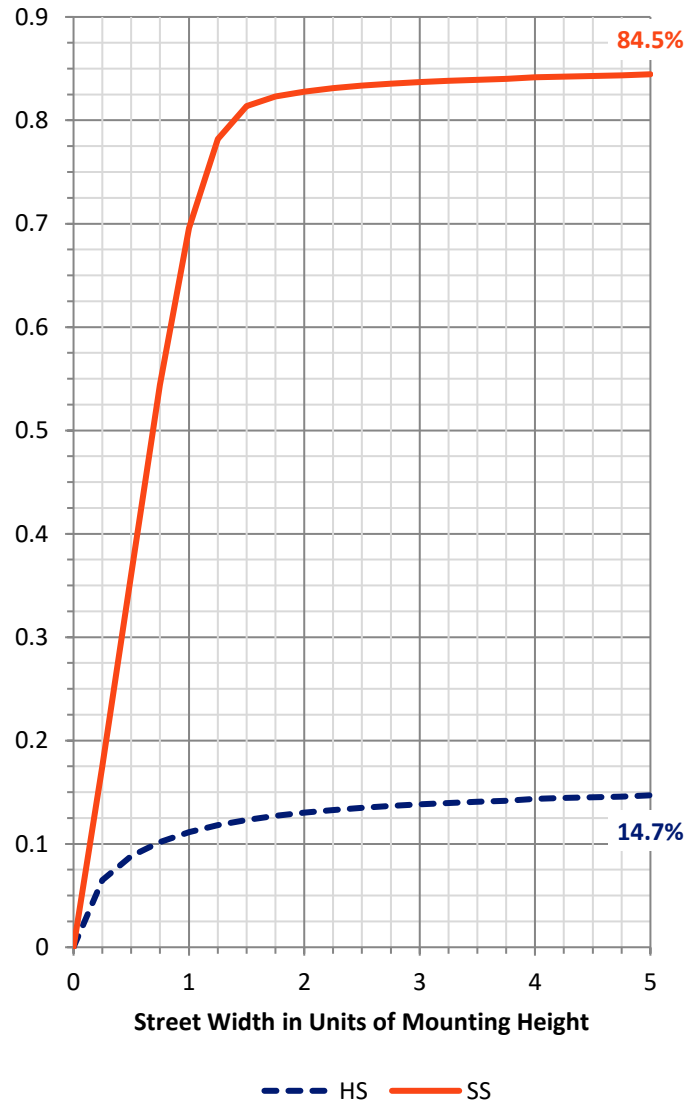
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5896.6	0.0	5896.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	32768.4	0.0	32768.4
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	38665.0	0.0	38665.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	918.6	2.4
10°-20°	2348.0	6.1
20°-30°	3795.6	9.8
30°-40°	6025.4	15.6
40°-50°	8816.4	22.8
50°-60°	9221.3	23.8
60°-70°	5447.9	14.1
70°-80°	1534.7	4.0
80°-90°	557.2	1.4
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°	38665.0	100.0
0°-180°	38665.0	100.0



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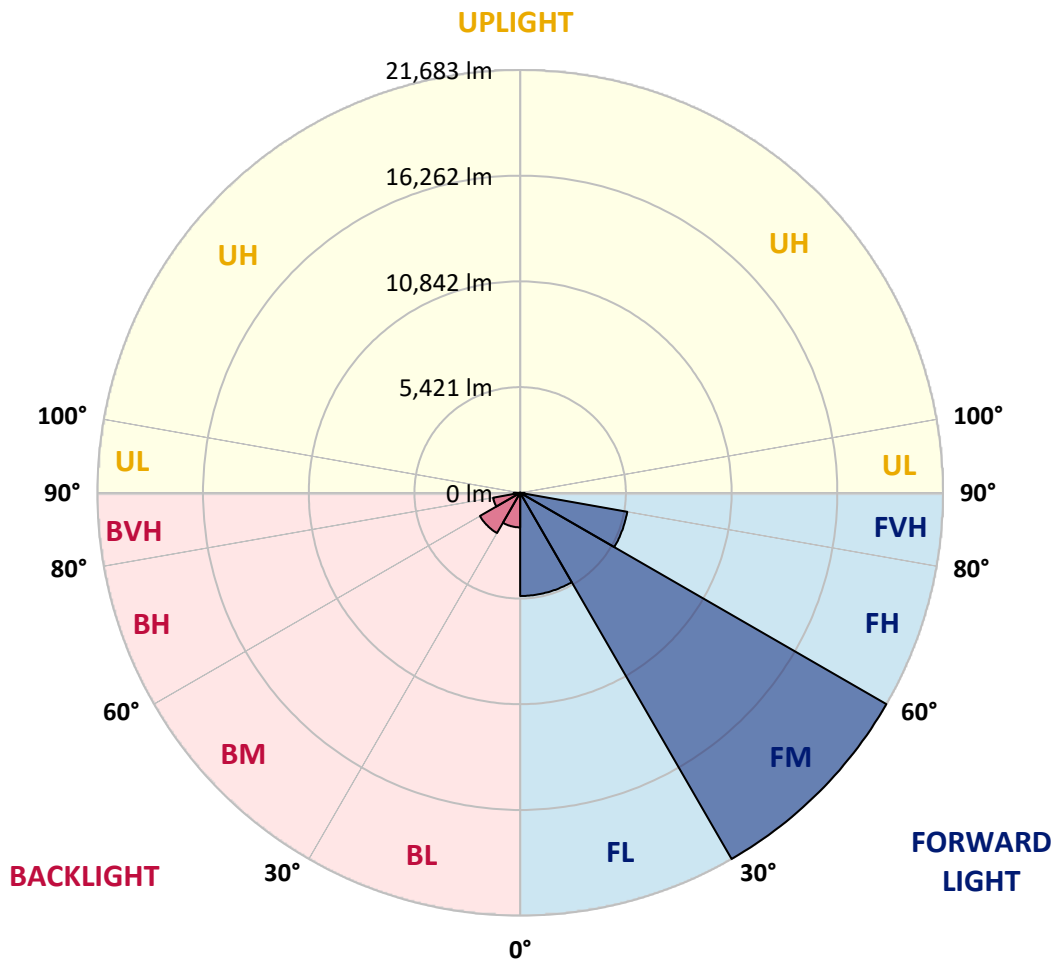
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5289.9	13.7			
FM	(30°-60°)	21683.1	56.1			
FH	(60°-80°)	5575.7	14.4			G3/7500
FVH	(80°-90°)	219.8	0.6			G2/225
BL	(0°-30°)	1772.2	4.6	B3/2500		
BM	(30°-60°)	2380.0	6.2	B2/2500		
BH	(60°-80°)	1407.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	337.4	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6
2.5°	11736.2	11641.6	11581.5	11528.7	11459.5	11312.0	11113.6	10987.9	10924.2	10707.5	10450.8
5°	12886.9	12803.2	12741.3	12670.3	12546.4	12315.2	11994.8	11739.9	11614.2	11180.9	10667.5
7.5°	12617.5	12652.0	12759.5	12947.0	13107.2	13076.3	12790.4	12466.3	12300.7	11698.0	10918.7
10°	10993.4	11053.5	11239.2	11678.0	12388.0	13116.3	13338.4	13114.5	12947.0	12209.6	11177.3
12.5°	10667.5	10665.7	10680.2	10796.8	11219.2	12244.2	13356.7	13582.4	13482.3	12697.6	11441.3
15°	10800.4	10804.0	10793.1	10842.3	10973.4	11379.4	12799.5	13762.7	13833.7	13189.2	11714.4
17.5°	11150.0	11140.9	11099.0	11099.0	11146.3	11304.7	12144.1	13595.2	13922.9	13624.3	11954.7
20°	11736.2	11694.4	11583.3	11481.3	11430.4	11515.9	11874.6	13209.2	13768.1	14004.8	12153.2
22.5°	12446.3	12413.5	12233.3	12014.8	11838.2	11836.4	12013.0	12872.4	13500.5	14363.5	12320.7
25°	13363.9	13311.1	13043.5	12693.9	12384.4	12266.1	12315.2	12856.0	13354.8	14753.1	12470.0
27.5°	14441.8	14345.3	14028.5	13524.2	13069.0	12830.5	12759.5	13152.7	13487.7	15235.6	12677.5
30°	15749.1	15638.0	15232.0	14574.7	13932.0	13540.5	13389.4	13678.9	13928.4	15823.7	13010.7
32.5°	17236.6	17076.3	16606.6	15882.0	15037.2	14440.0	14194.2	14374.4	14572.9	16532.0	13427.7
35°	19292.1	19101.0	18421.8	17422.3	16468.2	15647.1	15253.8	15384.9	15577.9	17588.0	14030.3
37.5°	20694.1	20608.5	20157.0	19217.5	18179.7	17234.7	16626.6	16703.1	16812.3	18908.0	14802.3
40°	20681.3	20715.9	20725.0	20734.1	20027.7	19122.8	18469.2	18389.1	18367.2	20357.2	15679.9
42.5°	19645.4	19787.4	20246.2	21176.6	21606.2	21191.1	20592.1	20360.9	20246.2	22065.1	16610.2
45°	18059.5	18136.0	18995.4	20812.4	22414.6	23239.4	22786.1	22057.8	21850.2	23634.5	17382.2
47.5°	17242.0	17325.8	17866.5	19847.5	22405.5	24894.4	25156.6	23769.2	23397.8	25000.0	18048.6
50°	15295.7	15470.5	16151.4	18168.8	21588.0	25655.5	27634.6	25808.4	25040.1	26329.1	18716.8
52.5°	11721.7	11991.1	12754.0	15408.6	19514.3	25278.6	29617.3	28280.9	27195.8	27705.6	19290.3
55°	7393.9	7594.1	8235.0	10882.3	15610.7	23317.7	30369.3	30955.5	29990.6	29009.2	19787.4
57.5°	4020.1	4109.3	4349.7	6008.3	10154.0	18982.6	29273.2	32477.7	32077.1	30116.2	20162.4
58°	3597.7	3657.8	3807.1	5207.2	9005.2	17797.3	28787.1	32483.1	32282.8	30278.2	20191.6
60°	2669.1	2638.2	2505.3	2971.4	5012.4	12295.2	25848.5	31183.1	31771.2	30476.7	20049.6
62.5°	2345.1	2270.4	1999.1	1968.2	2437.9	5664.2	19778.3	26711.5	28100.7	29344.2	19186.5
65°	2203.0	2122.9	1773.4	1660.5	1758.8	2396.0	11650.7	20033.2	21775.6	25910.4	16979.9
67.5°	2097.4	1993.7	1629.5	1474.8	1482.0	1584.0	4670.1	12617.5	14578.3	19672.7	13207.4
70°	1995.5	1882.6	1507.5	1329.1	1287.2	1252.6	1857.1	6316.0	8094.8	12426.3	8420.7
72.5°	1886.2	1775.2	1400.1	1214.4	1132.5	1017.8	1212.6	2583.6	3608.6	5879.0	3819.8
75°	1727.8	1627.7	1292.7	1112.4	995.9	843.0	915.8	1349.1	1618.6	2341.4	1840.7
77.5°	1533.0	1451.1	1172.5	1028.7	883.0	684.6	704.6	935.8	1037.8	1340.0	1094.2
80°	1101.5	1130.7	1043.3	924.9	786.5	555.3	540.7	682.8	737.4	861.2	711.9
82.5°	773.8	790.2	863.0	755.6	650.0	437.0	398.7	480.7	513.4	566.2	384.2
85°	533.5	515.3	591.7	526.2	469.7	291.3	273.1	325.9	345.9	351.4	198.5
87.5°	320.4	320.4	342.3	282.2	253.1	151.1	147.5	185.7	198.5	189.4	109.2
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°	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6	10270.6
2.5°	10297.9	10168.6	9893.7	9673.4	9394.8	9105.3	8943.3	8770.3	8652.0	8566.4	8702.9
5°	10376.2	10112.2	9544.1	9005.2	8409.8	7790.8	7321.0	6884.1	6580.0	6390.7	6569.1
7.5°	10500.0	10094.0	9189.1	8267.8	7199.0	6168.5	5247.3	4670.1	4333.3	4167.6	4271.4
10°	10642.0	10064.8	8772.1	7268.2	5738.8	4440.7	3752.5	3519.4	3442.9	3412.0	3426.6
12.5°	10760.3	10002.9	8260.5	6059.3	4309.6	3506.7	3308.2	3302.8	3319.1	3322.8	3328.2
15°	10844.1	9911.9	7501.3	4799.4	3446.6	3195.3	3184.4	3217.2	3248.1	3260.9	3268.2
17.5°	10900.5	9724.4	6643.7	3794.3	3087.9	3044.2	3069.7	3111.6	3144.3	3153.5	3160.7
20°	10895.1	9449.4	5622.3	3164.4	2893.1	2893.1	2936.8	2969.6	2971.4	2960.5	2965.9
22.5°	10838.6	9072.5	4631.9	2829.4	2720.1	2751.1	2794.8	2763.8	2636.4	2552.6	2558.1
25°	10744.0	8622.8	3783.4	2616.3	2559.9	2614.5	2601.8	2368.7	2186.7	2104.7	2104.7
27.5°	10660.2	8091.2	3131.6	2430.6	2399.7	2467.0	2241.3	2030.1	1953.6	1915.4	1902.6
30°	10600.1	7517.7	2696.5	2252.2	2248.6	2199.4	1944.5	1886.2	1873.5	1842.5	1831.6
32.5°	10614.7	6936.9	2417.9	2095.6	2108.4	1882.6	1802.5	1815.2	1804.3	1771.5	1757.0
35°	10734.8	6385.2	2235.8	1953.6	1915.4	1700.5	1718.7	1742.4	1738.8	1693.3	1678.7
37.5°	10949.7	5862.7	2115.7	1835.3	1671.4	1609.5	1638.6	1675.0	1665.9	1635.0	1624.1
40°	11175.5	5371.1	2017.3	1742.4	1527.6	1547.6	1573.1	1593.1	1602.2	1611.3	1604.0
42.5°	11395.8	4857.6	1897.2	1647.7	1467.5	1489.3	1500.3	1520.3	1569.4	1604.0	1602.2
45°	11526.9	4375.1	1773.4	1513.0	1420.1	1432.9	1425.6	1465.7	1525.7	1582.2	1584.0
47.5°	11672.5	4000.1	1675.0	1389.2	1374.6	1383.7	1361.9	1401.9	1456.6	1525.7	1533.0
50°	11849.1	3776.1	1596.8	1290.9	1312.7	1312.7	1307.3	1343.7	1420.1	1500.3	1514.8
52.5°	12049.4	3732.4	1531.2	1219.9	1250.8	1249.0	1254.5	1309.1	1392.8	1471.1	1483.9
55°	12293.4	3850.8	1460.2	1167.1	1190.7	1198.0	1216.2	1278.1	1349.1	1438.4	1443.8
57.5°	12577.4	4091.1	1403.8	1125.2	1136.1	1159.8	1188.9	1245.4	1321.8	1420.1	1425.6
58°	12624.7	4142.1	1394.7	1121.6	1125.2	1152.5	1185.3	1239.9	1316.4	1423.8	1429.2
60°	12626.6	4311.4	1374.6	1105.2	1083.3	1128.8	1165.2	1219.9	1307.3	1436.5	1449.3
62.5°	12178.7	4309.6	1360.1	1081.5	1039.6	1096.1	1137.9	1201.7	1298.2	1467.5	1493.0
65°	10723.9	3916.3	1290.9	1045.1	1005.0	1066.9	1114.3	1188.9	1323.6	1602.2	1618.6
67.5°	8388.0	3209.9	1161.6	994.1	959.5	1037.8	1099.7	1187.1	1351.0	1633.2	1644.1
70°	5545.9	2401.5	1019.6	935.8	912.2	1003.2	1107.0	1249.0	1320.0	1567.6	1538.5
72.5°	2878.5	1686.0	904.9	863.0	857.5	972.3	1212.6	1241.7	1289.1	1474.8	1438.4
75°	1511.2	1170.7	804.7	782.9	792.0	965.0	1431.1	1208.9	1249.0	1411.0	1480.2
77.5°	924.9	944.9	719.2	710.1	728.3	943.1	1429.2	1167.1	1190.7	1298.2	1374.6
80°	619.0	766.5	653.6	655.5	668.2	863.0	1283.6	1101.5	1119.7	1227.2	1305.4
82.5°	391.5	453.4	593.5	624.5	608.1	711.9	1090.6	1003.2	1028.7	1403.8	1483.9
85°	198.5	284.0	515.3	600.8	548.0	498.9	884.9	879.4	892.1	1012.3	1057.8
87.5°	91.0	156.6	402.4	524.4	413.3	311.3	642.7	651.8	702.8	719.2	719.2
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)