

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: P383445

Luminaire Tested: **GLEON-SA7C-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45656.1 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

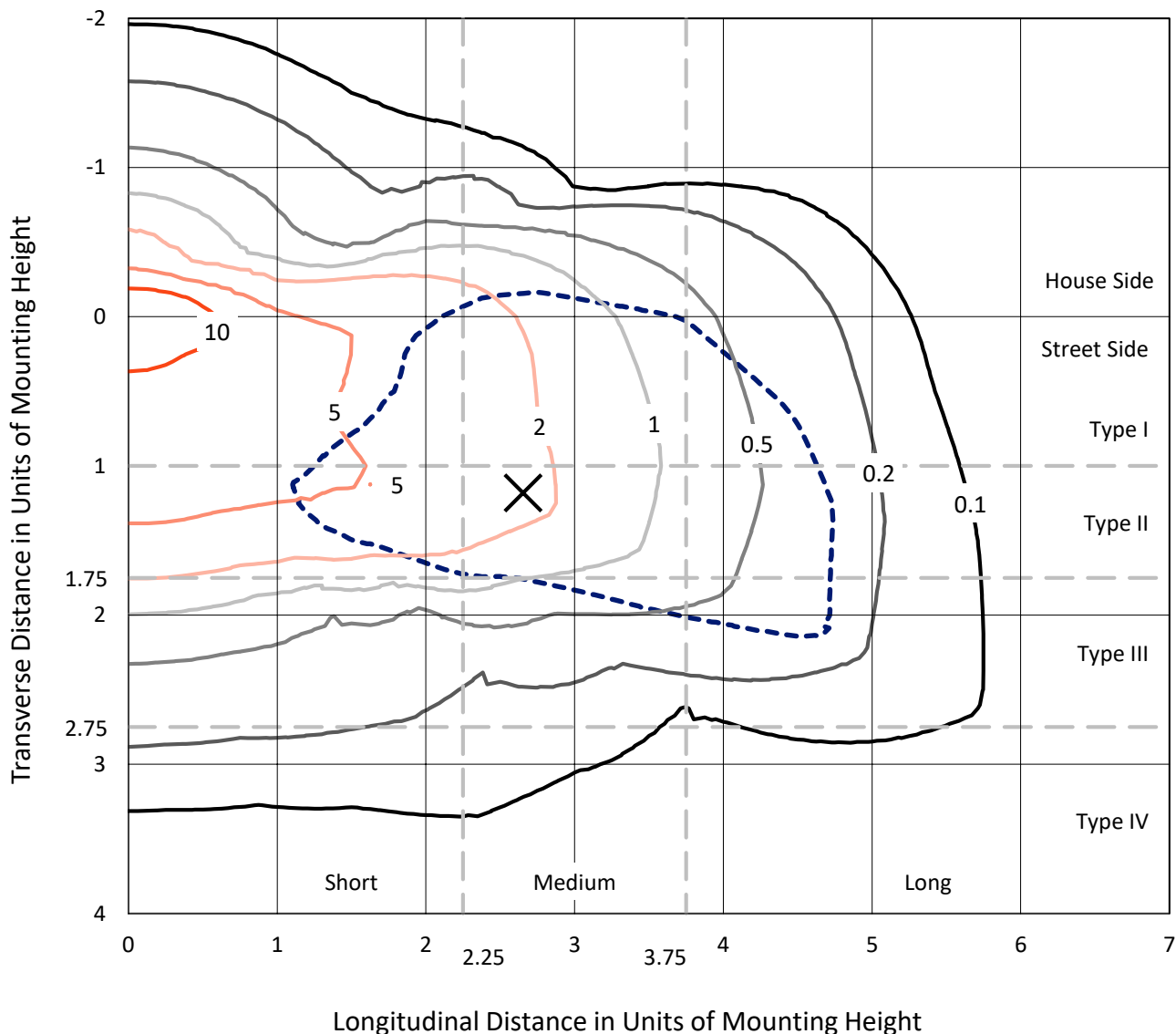
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

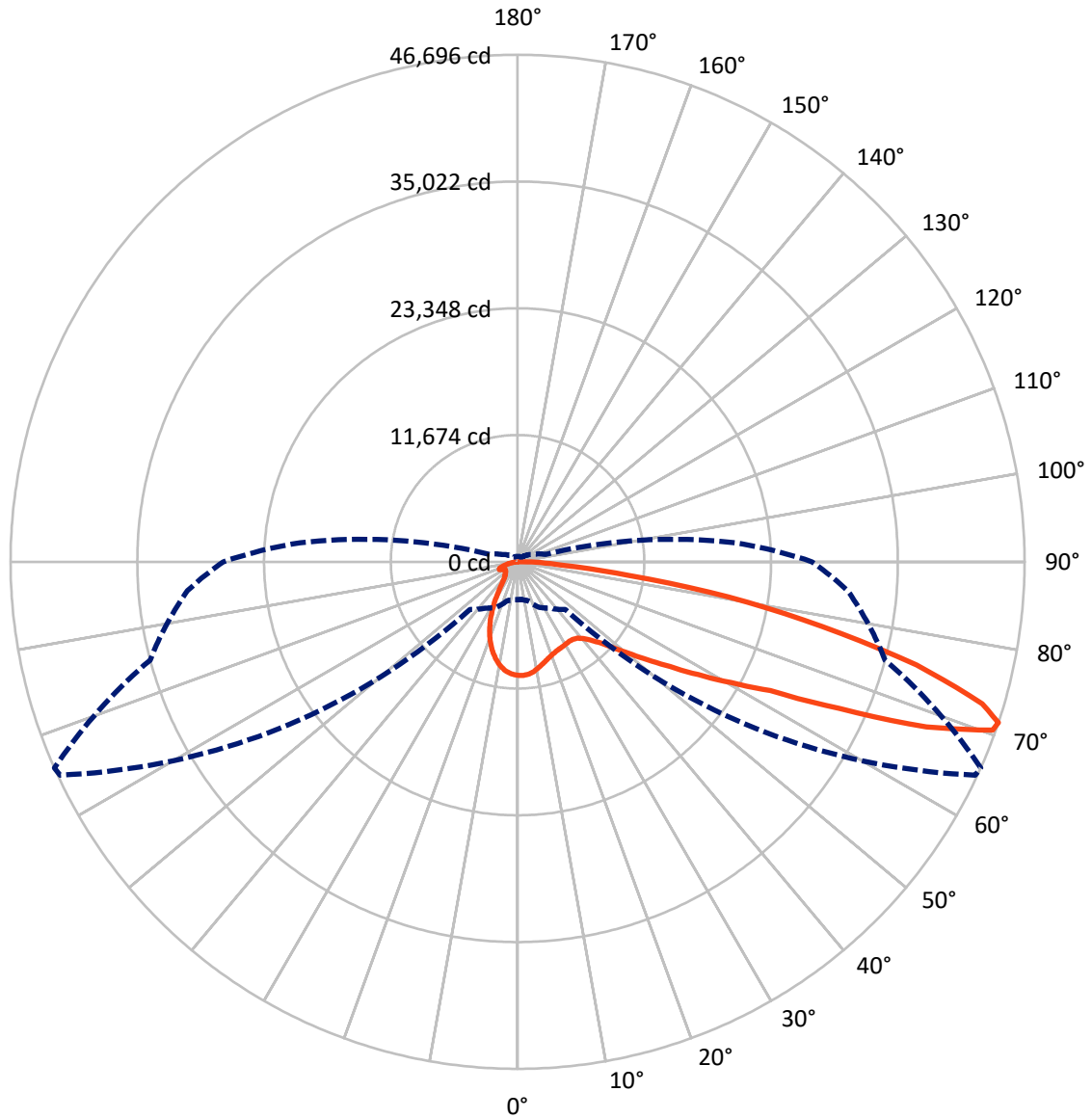
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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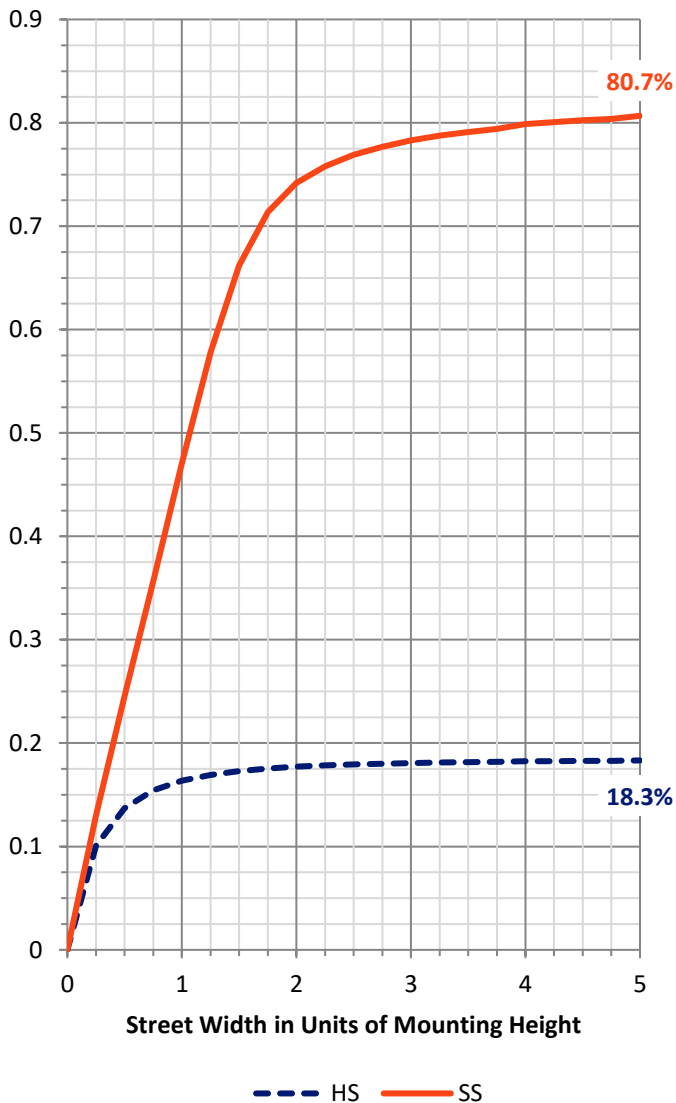
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8461.3	0.0	8461.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	37194.8	0.0	37194.8
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	45656.1	0.0	45656.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.6	2.0
10°-20°	2208.1	4.8
20°-30°	2966.0	6.5
30°-40°	3901.7	8.5
40°-50°	5676.0	12.4
50°-60°	8866.5	19.4
60°-70°	11106.7	24.3
70°-80°	8472.0	18.6
80°-90°	1538.4	3.4
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°	45656.1	100.0
0°-180°	45656.1	100.0

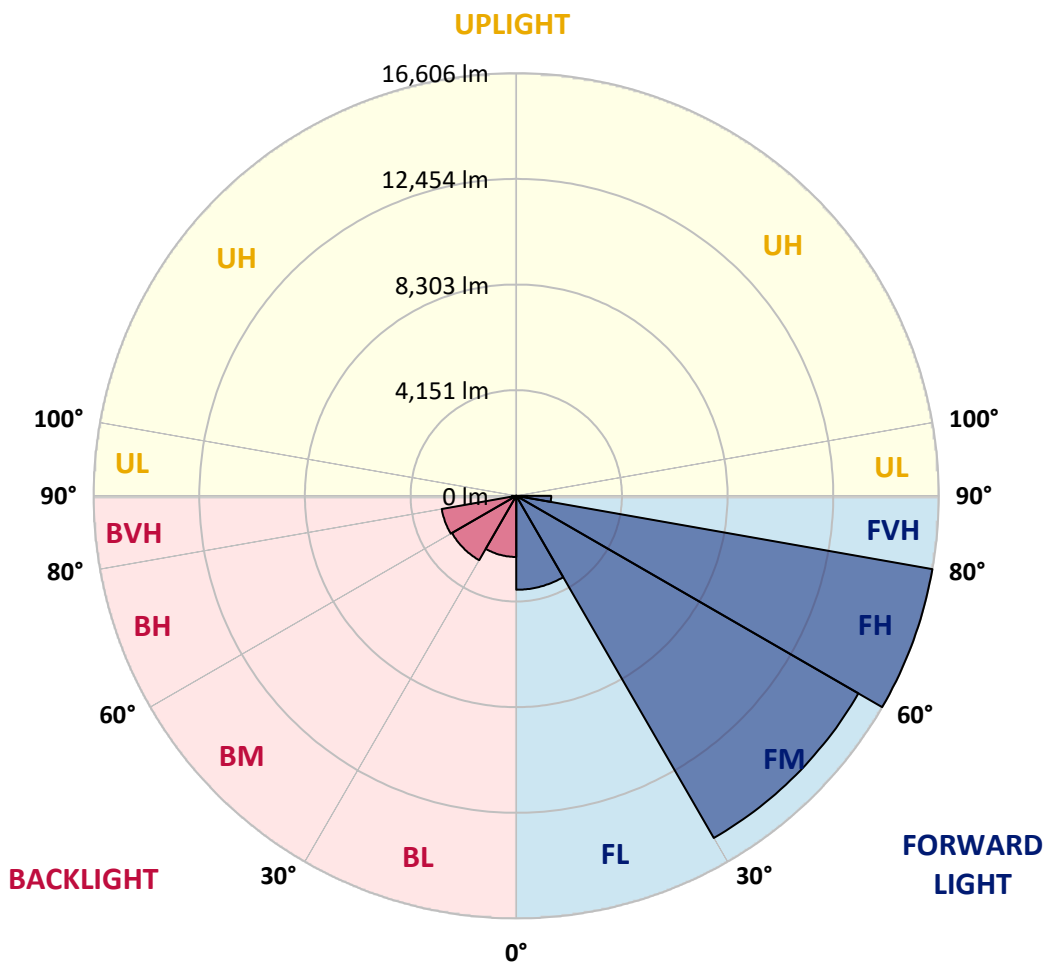


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3691.9	8.1			
FM (30°-60°)	15525.3	34.0			
FH (60°-80°)	16605.6	36.4			G5
FVH (80°-90°)	1371.9	3.0			G5
BL (0°-30°)	2402.8	5.3	B3/2500		
BM (30°-60°)	2918.9	6.4	B3/5000		
BH (60°-80°)	2973.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	166.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0
2.5°	10265.0	10249.3	10296.6	10345.4	10364.3	10395.9	10443.1	10469.9	10468.4	10473.1	10457.4
5°	9584.0	9563.5	9658.2	9735.4	9883.5	10050.7	10254.0	10399.1	10402.2	10484.1	10506.2
7.5°	8939.3	8925.2	9034.0	9158.4	9330.3	9585.6	9915.1	10227.2	10246.1	10468.4	10545.6
10°	8422.3	8419.1	8524.8	8660.3	8860.5	9145.8	9524.1	9981.3	10009.7	10392.7	10551.9
12.5°	8018.8	8025.1	8116.5	8271.0	8482.2	8780.1	9190.0	9705.4	9751.2	10272.9	10515.7
15°	7720.9	7746.1	7820.2	7976.2	8184.3	8487.0	8907.8	9450.1	9519.4	10139.0	10495.2
17.5°	7550.6	7579.0	7631.0	7760.3	7955.7	8247.4	8646.2	9240.4	9303.5	10036.5	10496.8
20°	7500.2	7523.8	7553.7	7632.5	7798.1	8062.9	8439.6	9051.3	9119.0	9954.5	10512.5
22.5°	7599.5	7616.8	7620.0	7613.6	7714.5	7930.5	8289.9	8912.6	8985.1	9900.9	10523.5
25°	7812.2	7835.9	7818.6	7760.3	7727.2	7859.6	8212.6	8821.1	8893.7	9861.5	10501.5
27.5°	8132.2	8135.4	8121.2	8045.6	7889.6	7867.5	8189.0	8767.5	8836.8	9815.8	10455.8
30°	8567.4	8587.8	8562.6	8460.1	8204.8	7993.5	8217.4	8715.5	8778.5	9757.5	10381.7
32.5°	9076.4	9126.9	9125.3	9018.1	8652.5	8275.7	8334.0	8684.0	8732.9	9696.0	10291.8
35°	9604.5	9673.9	9803.1	9757.5	9305.0	8721.8	8557.8	8734.4	8767.5	9688.1	10228.8
37.5°	10153.1	10222.4	10488.9	10611.8	10082.1	9360.2	8911.0	8912.6	8928.3	9784.2	10224.0
40°	10726.9	10801.0	11201.4	11521.4	11089.4	10168.9	9480.0	9284.5	9267.2	10020.8	10317.1
42.5°	11530.8	11597.0	12077.8	12486.1	12207.1	11204.6	10266.6	9858.4	9822.1	10484.1	10615.0
45°	12547.6	12604.3	13115.1	13551.7	13408.2	12386.8	11255.0	10648.1	10641.8	11256.5	11218.7
47.5°	13756.6	13800.7	14259.5	14681.9	14733.9	13747.1	12497.1	11866.6	11764.1	12315.8	12153.4
50°	15016.1	15065.0	15377.1	15831.0	16217.2	15567.8	14095.5	13359.3	13222.2	13714.1	13477.6
52.5°	15850.0	15914.6	16185.7	16761.1	17885.0	17563.4	15985.5	15168.9	14960.9	15408.5	15227.4
55°	15477.9	15623.0	16037.5	16959.7	19218.6	20612.1	18316.9	17279.6	17044.8	17416.9	17309.6
57.5°	13786.5	13985.1	14551.1	15974.5	19406.2	23298.1	21841.5	19765.6	19600.0	19492.8	19541.7
60°	10695.4	10886.1	11587.6	13442.9	18099.4	25259.0	27145.9	22829.9	22590.3	21576.8	21620.8
62.5°	7569.5	7473.3	7954.1	9311.4	14707.1	25489.2	33181.6	26928.3	26140.3	23777.3	23583.4
65°	5772.5	5750.4	5966.4	6398.3	8907.8	22735.4	36777.2	33816.9	32585.8	26365.6	25908.5
67.5°	4743.2	4703.8	4916.5	5545.5	5736.3	14667.7	36856.1	41808.9	40599.8	29587.6	28597.7
70°	3899.8	3855.7	4054.3	4866.1	5301.2	7438.7	31019.0	46489.0	46424.4	33667.2	30628.0
71°	3496.3	3464.8	3702.8	4604.5	5208.2	6199.7	26781.8	46501.6	46695.5	35048.1	30508.2
72.5°	2846.8	2857.9	3110.1	4098.4	5138.8	5474.6	19683.6	44334.2	44744.0	36364.3	29419.0
75°	1891.6	1901.0	2232.1	3152.6	4982.8	5356.4	10818.3	37201.3	37954.8	35576.1	26844.9
77.5°	1270.5	1267.4	1492.8	2162.7	4341.2	5356.4	6343.1	27823.7	28651.3	28307.7	20695.5
80°	874.8	868.6	1027.8	1492.8	3286.7	5421.0	4903.9	19499.2	19749.8	15287.3	8411.3
82.5°	535.9	540.7	671.6	1054.6	2236.8	4878.7	4629.7	10632.3	10359.6	4287.6	2101.2
85°	307.4	305.8	428.8	714.0	1436.1	4117.3	4514.6	4576.0	4197.7	1291.0	759.8
87.5°	110.4	118.2	230.2	395.6	822.8	2867.3	3830.4	2380.3	2145.4	583.2	343.6
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°	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0	10459.0
2.5°	10446.3	10455.8	10444.7	10381.7	10328.1	10241.4	10192.5	10124.7	10104.2	10094.8	10120.1
5°	10485.7	10488.9	10395.9	10230.3	10044.3	9825.2	9667.6	9473.7	9382.3	9342.9	9368.1
7.5°	10522.0	10507.8	10304.4	9987.6	9643.9	9262.5	8923.6	8613.1	8431.8	8357.7	8364.0
10°	10526.7	10466.8	10140.5	9650.3	9117.4	8557.8	8037.7	7558.5	7255.8	7058.8	7118.7
12.5°	10477.9	10377.0	9899.4	9213.7	8474.3	7711.4	7008.3	6289.5	5857.7	5657.5	5663.7
15°	10440.0	10257.2	9603.0	8699.7	7706.7	6696.2	5736.3	4891.4	4431.1	4226.2	4130.0
17.5°	10408.5	10127.9	9259.3	8121.2	6800.3	5518.7	4364.9	3611.3	3359.2	3299.3	3274.0
20°	10364.3	9990.8	8876.3	7451.3	5767.8	4200.9	3187.3	2815.3	2816.9	2886.2	2895.7
22.5°	10302.8	9834.7	8468.0	6699.4	4659.6	3059.7	2498.5	2391.3	2500.1	2632.5	2656.1
25°	10211.4	9650.3	8014.0	5868.7	3553.0	2351.9	2134.4	2129.6	2262.0	2400.8	2421.3
27.5°	10082.1	9409.1	7509.6	4976.4	2618.3	1998.8	1912.1	1945.2	2042.9	2143.8	2151.7
30°	9908.8	9128.5	6953.2	4035.4	2052.4	1779.6	1770.2	1800.1	1860.0	1931.0	1937.3
32.5°	9718.1	8843.2	6358.9	3124.3	1757.6	1661.4	1670.9	1685.1	1713.5	1741.8	1748.1
35°	9544.6	8551.6	5750.4	2374.0	1617.4	1584.2	1577.9	1574.8	1577.9	1568.4	1570.0
37.5°	9432.8	8310.4	5116.7	1890.0	1537.0	1516.5	1497.6	1473.9	1447.1	1431.3	1434.5
40°	9391.8	8130.7	4475.2	1633.1	1470.7	1456.6	1420.2	1369.8	1338.3	1328.9	1328.9
42.5°	9502.1	8037.7	3855.7	1503.8	1415.6	1391.9	1332.0	1273.7	1250.0	1248.5	1246.9
45°	9839.5	8075.5	3266.2	1432.9	1365.1	1319.4	1240.5	1191.7	1176.0	1179.1	1177.5
47.5°	10444.7	8313.5	2761.8	1385.6	1314.7	1254.8	1166.5	1127.1	1108.2	1108.2	1109.8
50°	11474.1	8870.0	2359.8	1346.2	1272.1	1194.9	1112.9	1064.0	1038.8	1037.2	1037.2
52.5°	12973.2	9866.2	2109.1	1313.1	1224.8	1141.2	1059.3	997.8	967.9	961.5	958.4
55°	14852.1	11294.4	2039.8	1291.0	1161.7	1082.9	994.7	933.2	900.1	885.9	884.3
57.5°	16953.4	13031.5	2176.9	1264.2	1097.1	1013.6	923.7	865.4	830.8	813.4	811.8
60°	19079.9	14927.8	2736.5	1226.4	1043.5	937.9	851.2	797.6	762.9	744.0	740.9
62.5°	21209.5	16926.6	3879.3	1223.2	1005.7	865.4	777.1	731.5	698.3	677.8	673.1
65°	23611.8	19114.5	5178.2	1306.8	993.1	799.2	701.5	665.2	636.8	617.9	616.3
67.5°	26370.3	21584.6	5053.7	1478.6	1035.6	739.3	630.6	602.2	581.7	565.9	564.3
70°	27664.5	21198.4	3141.6	1599.9	1095.6	681.0	562.7	542.3	526.5	515.4	510.8
71°	27122.3	20128.1	2634.0	1585.8	1089.3	655.7	535.9	520.2	504.4	494.9	490.3
72.5°	25643.6	18356.3	2197.4	1475.5	1018.3	610.1	501.3	485.5	471.4	460.3	457.1
75°	23011.2	16393.7	1759.1	1179.1	811.8	515.4	439.8	422.5	411.5	405.1	398.8
77.5°	16915.6	11699.5	1360.3	931.6	597.4	420.9	375.1	362.6	351.6	342.1	337.3
80°	6480.3	4532.0	915.8	695.1	438.2	332.6	302.7	296.3	285.3	279.0	279.0
82.5°	1745.0	1354.1	488.7	420.9	293.2	242.8	231.7	228.6	219.1	206.5	208.1
85°	706.2	597.4	274.2	231.7	179.7	143.5	156.0	157.6	146.6	130.8	132.4
87.5°	310.6	253.8	152.9	102.5	78.8	55.1	70.9	70.9	64.6	53.6	48.9
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)