

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: P383417

Luminaire Tested: **GLEON-SA7B-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383417  
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-SA7B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA 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: 36887.4 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

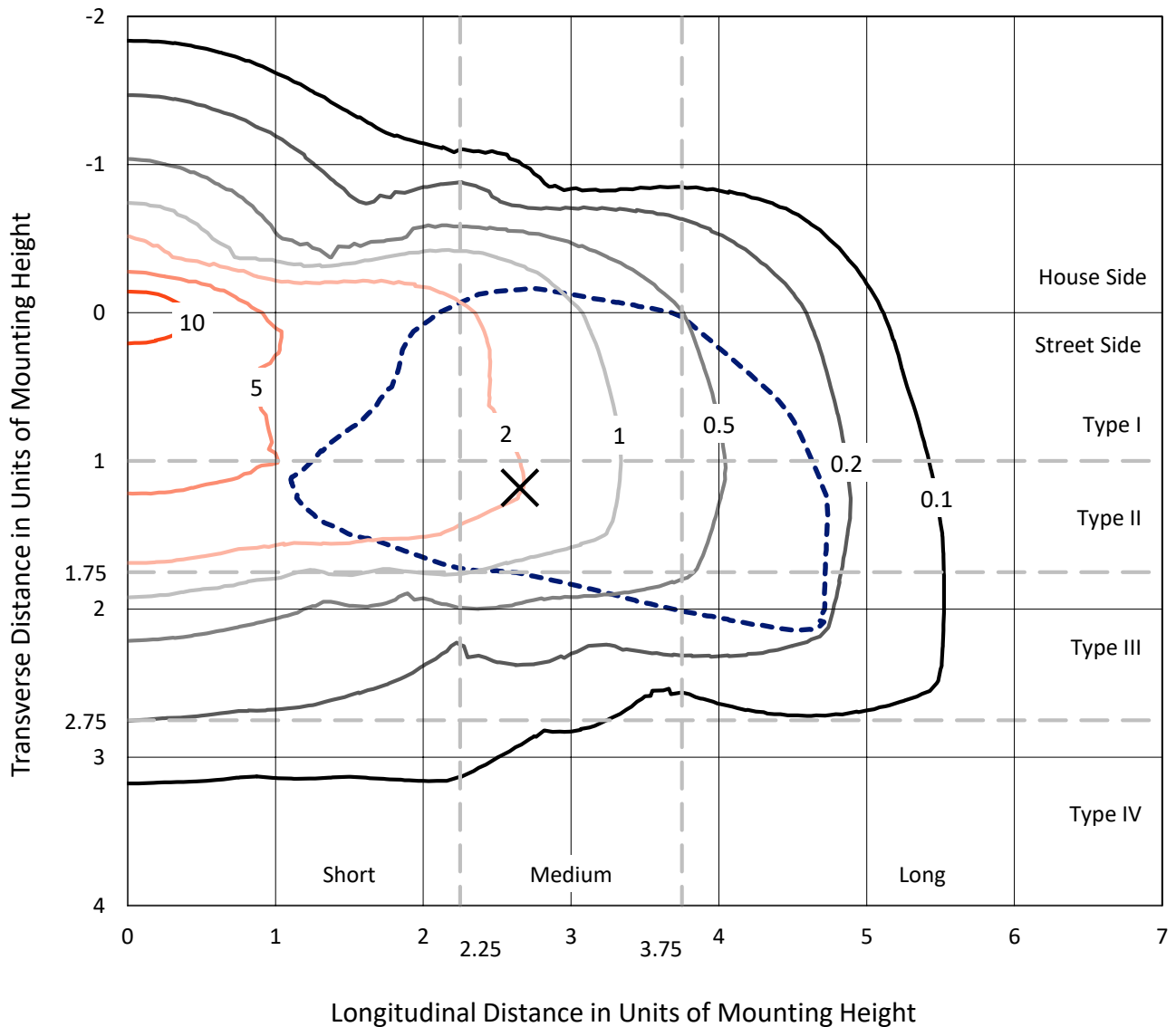
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

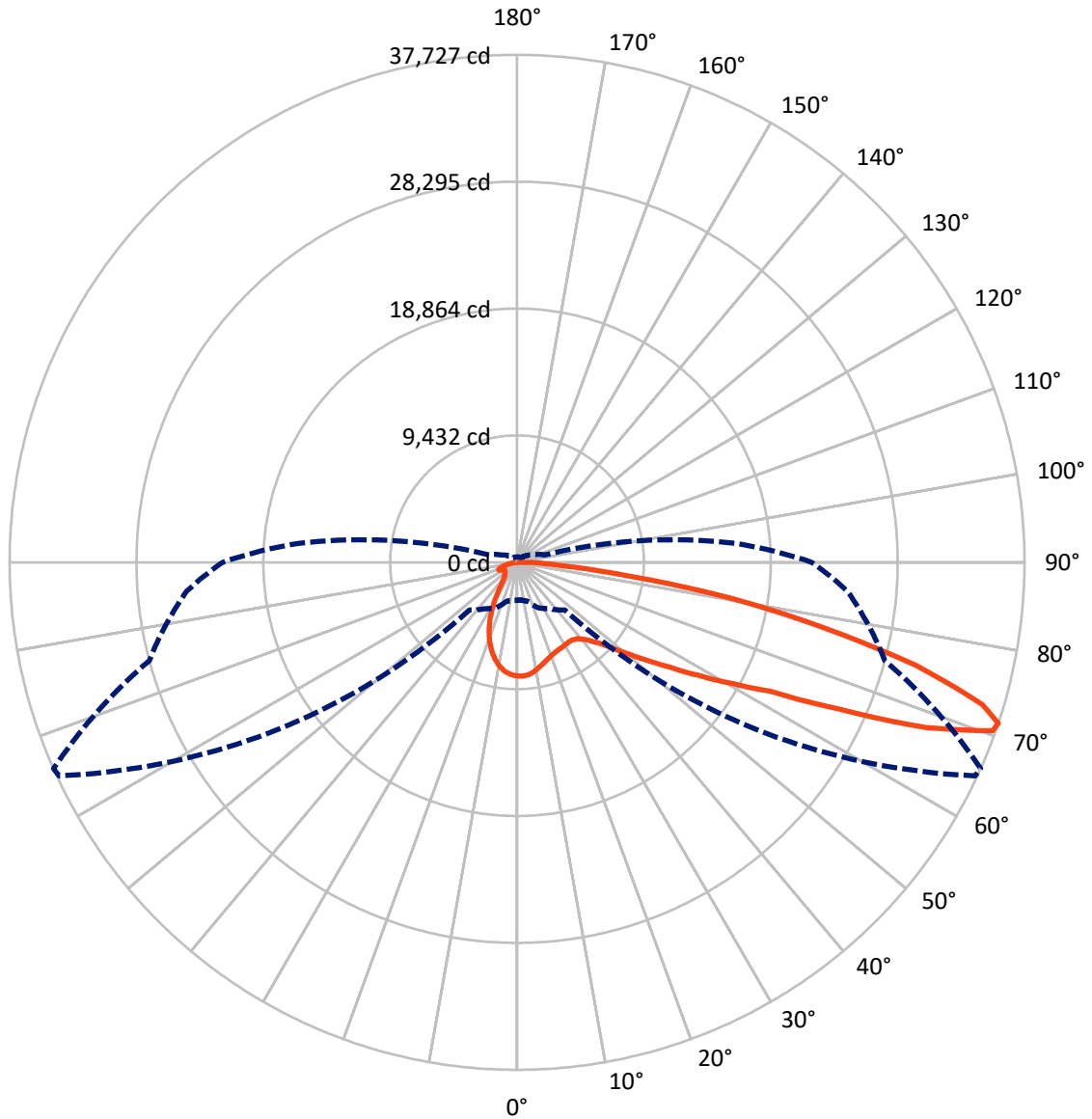
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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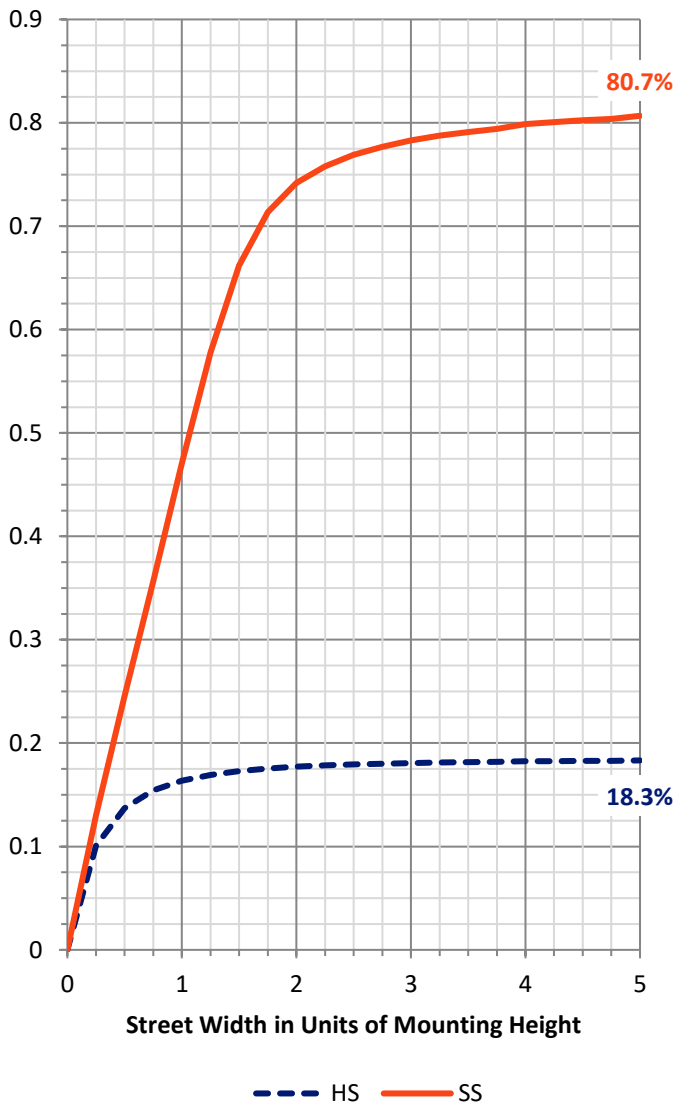
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6836.3	0.0	6836.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	30051.2	0.0	30051.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	36887.4	0.0	36887.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.8	2.0
10°-20°	1784.0	4.8
20°-30°	2396.4	6.5
30°-40°	3152.4	8.5
40°-50°	4585.9	12.4
50°-60°	7163.6	19.4
60°-70°	8973.6	24.3
70°-80°	6844.8	18.6
80°-90°	1242.9	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°	36887.4	100.0
0°-180°	36887.4	100.0

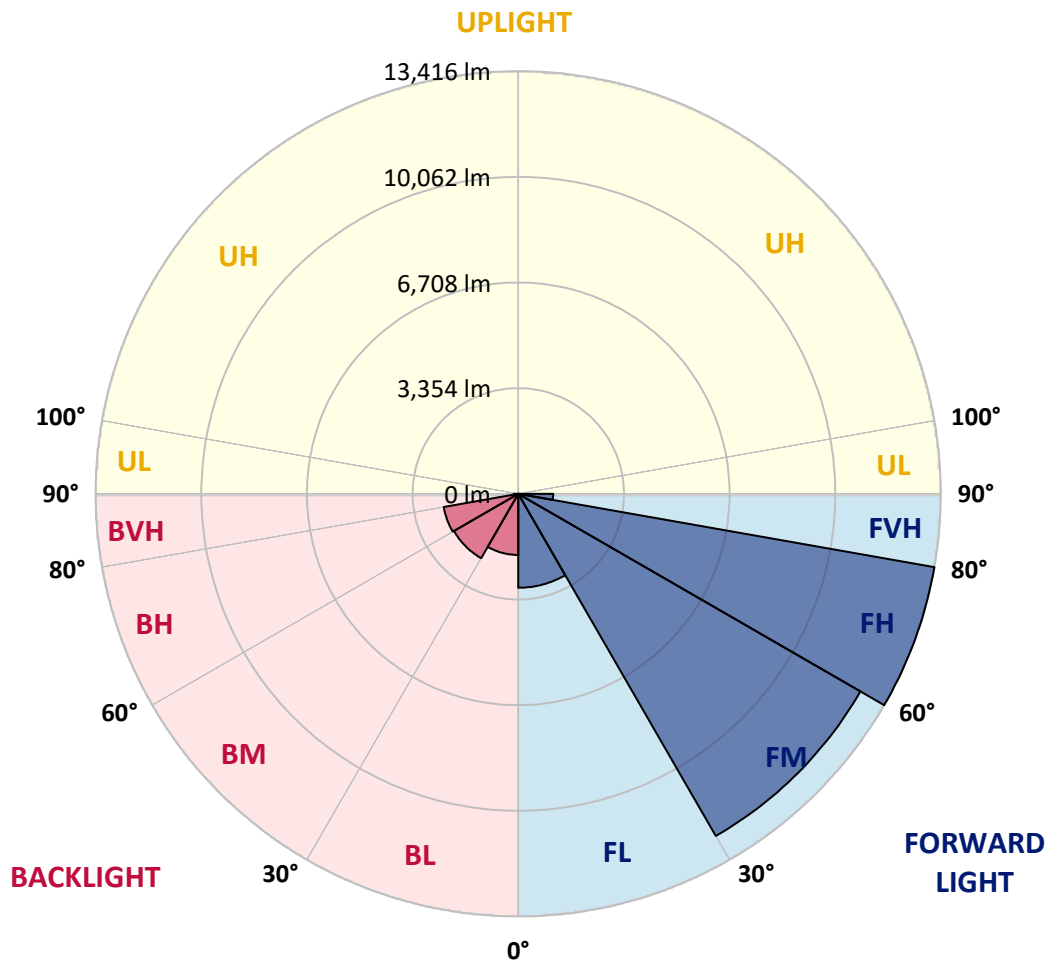


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.9	8.1			
FM (30°-60°)	12543.6	34.0			
FH (60°-80°)	13416.3	36.4			G5
FVH (80°-90°)	1108.4	3.0			G5
BL (0°-30°)	1941.3	5.3	B3/2500		
BM (30°-60°)	2358.3	6.4	B2/2500		
BH (60°-80°)	2402.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	134.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2
2.5°	8293.6	8280.8	8319.0	8358.5	8373.8	8399.2	8437.5	8459.1	8457.8	8461.6	8449.0
5°	7743.4	7726.8	7803.2	7865.6	7985.3	8120.3	8284.6	8401.8	8404.3	8470.6	8488.4
7.5°	7222.5	7211.0	7298.9	7399.5	7538.3	7744.6	8010.8	8263.0	8278.3	8457.8	8520.2
10°	6804.8	6802.2	6887.5	6997.0	7158.8	7389.3	7695.0	8064.3	8087.2	8396.7	8525.3
12.5°	6478.7	6483.8	6557.6	6682.5	6853.1	7093.8	7425.0	7841.4	7878.4	8299.9	8496.1
15°	6238.0	6258.3	6318.2	6444.4	6612.4	6856.9	7197.0	7635.2	7691.1	8191.7	8479.5
17.5°	6100.4	6123.3	6165.4	6269.8	6427.8	6663.4	6985.6	7465.7	7516.7	8108.8	8480.7
20°	6059.7	6078.8	6103.0	6166.7	6300.4	6514.3	6818.7	7312.9	7367.6	8042.6	8493.5
22.5°	6139.9	6153.9	6156.5	6151.4	6232.9	6407.4	6697.7	7200.8	7259.4	7999.4	8502.4
25°	6311.9	6331.0	6316.9	6269.8	6243.0	6350.1	6635.3	7127.0	7185.5	7967.5	8484.5
27.5°	6570.4	6572.9	6561.4	6500.3	6374.3	6356.4	6616.2	7083.7	7139.7	7930.5	8447.6
30°	6921.9	6938.4	6918.0	6835.3	6629.0	6458.3	6639.1	7041.7	7092.5	7883.4	8387.7
32.5°	7333.2	7374.0	7372.7	7286.1	6990.7	6686.3	6733.4	7016.1	7055.6	7833.8	8315.2
35°	7759.9	7816.0	7920.4	7883.4	7518.0	7046.7	6914.2	7056.9	7083.7	7827.4	8264.2
37.5°	8203.1	8259.2	8474.4	8573.8	8145.8	7562.5	7199.6	7200.8	7213.5	7905.1	8260.4
40°	8666.7	8726.6	9050.1	9308.6	8959.6	8215.9	7659.3	7501.4	7487.4	8096.2	8335.6
42.5°	9316.2	9369.7	9758.1	10088.0	9862.6	9052.6	8294.8	7964.9	7935.7	8470.6	8576.3
45°	10137.7	10183.5	10596.2	10948.9	10833.1	10007.8	9093.4	8603.0	8597.9	9094.6	9064.1
47.5°	11114.5	11150.2	11520.8	11862.1	11904.2	11106.8	10097.0	9587.5	9504.7	9950.5	9819.3
50°	12132.1	12171.6	12423.8	12790.5	13102.6	12577.8	11388.4	10793.6	10682.8	11080.1	10889.1
52.5°	12805.8	12858.1	13077.1	13542.0	14450.0	14190.2	12915.3	12255.6	12087.6	12449.2	12302.8
55°	12505.3	12622.5	12957.4	13702.4	15527.5	16653.3	14798.9	13961.0	13771.2	14071.8	13985.1
57.5°	11138.7	11299.2	11756.4	12906.4	15679.1	18823.5	17646.7	15969.4	15835.7	15749.1	15788.5
60°	8641.2	8795.3	9362.1	10861.1	14623.2	20407.8	21932.3	18445.2	18251.6	17432.7	17468.4
62.5°	6115.7	6038.0	6426.5	7523.0	11882.4	20593.7	26808.8	21756.6	21119.8	19210.7	19054.0
65°	4663.9	4646.0	4820.5	5169.4	7197.0	18368.8	29713.9	27322.1	26327.4	21301.9	20932.5
67.5°	3832.2	3800.3	3972.3	4480.5	4634.5	11850.7	29777.6	33779.1	32802.3	23905.1	23105.3
70°	3150.9	3115.2	3275.6	3931.5	4283.1	6010.0	25061.5	37560.4	37508.2	27201.1	24745.6
71°	2824.8	2799.3	2991.7	3720.1	4207.9	5009.0	21638.1	37570.5	37727.2	28316.7	24648.8
72.5°	2300.1	2309.0	2512.8	3311.3	4151.9	4423.2	15903.2	35819.4	36150.6	29380.2	23768.8
75°	1528.3	1535.9	1803.4	2547.1	4025.8	4327.6	8740.5	30056.5	30665.2	28743.4	21689.0
77.5°	1026.5	1024.0	1206.1	1747.3	3507.5	4327.6	5124.9	22479.9	23148.6	22870.9	16720.8
80°	706.9	701.7	830.4	1206.1	2655.4	4379.9	3962.1	15754.1	15956.7	12351.2	6795.8
82.5°	433.0	436.8	542.5	852.0	1807.2	3941.8	3740.5	8590.3	8370.0	3464.1	1697.7
85°	248.4	247.0	346.4	576.9	1160.2	3326.6	3647.6	3697.2	3391.6	1043.1	613.9
87.5°	89.1	95.5	185.9	319.7	664.8	2316.7	3094.8	1923.1	1733.3	471.3	277.6
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°	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2	8450.2
2.5°	8440.0	8447.6	8438.7	8387.7	8344.5	8274.5	8235.0	8180.2	8163.6	8156.0	8176.4
5°	8471.9	8474.4	8399.2	8265.5	8115.3	7938.2	7810.8	7654.2	7580.4	7548.5	7568.9
7.5°	8501.1	8489.7	8325.4	8069.4	7791.7	7483.6	7209.7	6958.8	6812.4	6752.5	6757.6
10°	8504.9	8456.6	8193.0	7796.9	7366.4	6914.2	6494.0	6106.9	5862.3	5703.1	5751.5
12.5°	8465.4	8383.9	7998.1	7444.1	6846.8	6230.4	5662.3	5081.6	4732.6	4570.9	4575.9
15°	8434.9	8287.1	7758.7	7028.9	6226.6	5410.1	4634.5	3951.9	3580.0	3414.5	3336.8
17.5°	8409.5	8182.7	7481.0	6561.4	5494.2	4458.8	3526.6	2917.8	2714.0	2665.6	2645.2
20°	8373.8	8072.0	7171.5	6020.2	4660.1	3394.1	2575.2	2274.7	2275.9	2331.9	2339.6
22.5°	8324.1	7945.8	6841.7	5412.7	3764.7	2472.0	2018.7	1932.0	2019.9	2126.9	2146.0
25°	8250.3	7796.9	6474.9	4741.6	2870.7	1900.2	1724.4	1720.6	1827.6	1939.7	1956.2
27.5°	8145.8	7602.0	6067.4	4020.7	2115.5	1614.9	1544.9	1571.6	1650.5	1732.0	1738.5
30°	8005.7	7375.2	5617.8	3260.3	1658.2	1437.8	1430.2	1454.4	1502.9	1560.2	1565.2
32.5°	7851.6	7144.8	5137.6	2524.2	1420.1	1342.4	1350.0	1361.5	1384.4	1407.3	1412.4
35°	7711.5	6909.2	4646.0	1918.0	1306.7	1279.9	1274.8	1272.3	1274.8	1267.2	1268.5
37.5°	7621.1	6714.3	4134.0	1527.0	1241.8	1225.2	1209.9	1190.8	1169.2	1156.4	1158.9
40°	7588.0	6569.1	3615.7	1319.4	1188.3	1176.8	1147.5	1106.8	1081.2	1073.6	1073.6
42.5°	7677.2	6494.0	3115.2	1215.0	1143.7	1124.6	1076.2	1029.1	1010.0	1008.7	1007.4
45°	7949.6	6524.6	2638.9	1157.7	1103.0	1066.0	1002.3	962.8	950.1	952.6	951.4
47.5°	8438.7	6716.8	2231.3	1119.4	1062.2	1013.8	942.4	910.6	895.3	895.3	896.6
50°	9270.4	7166.4	1906.5	1087.7	1027.8	965.4	899.1	859.6	839.3	838.0	838.0
52.5°	10481.6	7971.3	1704.1	1060.8	989.6	922.0	855.8	806.2	781.9	776.9	774.3
55°	11999.6	9125.2	1648.0	1043.1	938.6	874.9	803.6	754.0	727.3	715.7	714.5
57.5°	13697.4	10528.6	1758.9	1021.4	886.4	818.9	746.4	699.2	671.2	657.2	655.9
60°	15415.4	12060.7	2210.9	990.9	843.1	757.8	687.8	644.4	616.4	601.1	598.6
62.5°	17136.0	13675.7	3134.3	988.3	812.6	699.2	627.9	591.0	564.2	547.7	543.8
65°	19077.0	15443.4	4183.7	1055.8	802.3	645.7	566.8	537.4	514.5	499.2	498.0
67.5°	21305.7	17439.1	4083.1	1194.6	836.7	597.3	509.5	486.5	470.0	457.2	455.9
70°	22351.3	17127.1	2538.3	1292.7	885.2	550.2	454.7	438.1	425.3	416.5	412.7
71°	21913.2	16262.3	2128.1	1281.3	880.0	529.8	433.0	420.3	407.6	399.9	396.1
72.5°	20718.6	14830.8	1775.3	1192.1	822.7	492.9	405.0	392.3	380.8	371.9	369.4
75°	18591.7	13245.2	1421.4	952.6	655.9	416.5	355.3	341.3	332.4	327.3	322.2
77.5°	13666.7	9452.5	1099.1	752.7	482.7	340.0	303.1	292.9	284.0	276.4	272.6
80°	5235.7	3661.5	739.9	561.6	354.1	268.8	244.5	239.4	230.6	225.4	225.4
82.5°	1409.9	1094.0	394.8	340.0	236.9	196.1	187.2	184.6	177.0	166.8	168.1
85°	570.6	482.7	221.6	187.2	145.2	115.9	126.0	127.3	118.4	105.7	106.9
87.5°	250.9	205.0	123.5	82.8	63.7	44.6	57.3	57.3	52.3	43.3	39.5
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)