

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: P383389

Luminaire Tested: **GLEON-SA7A-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383389  
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-SA7A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA 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: 30081.5 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

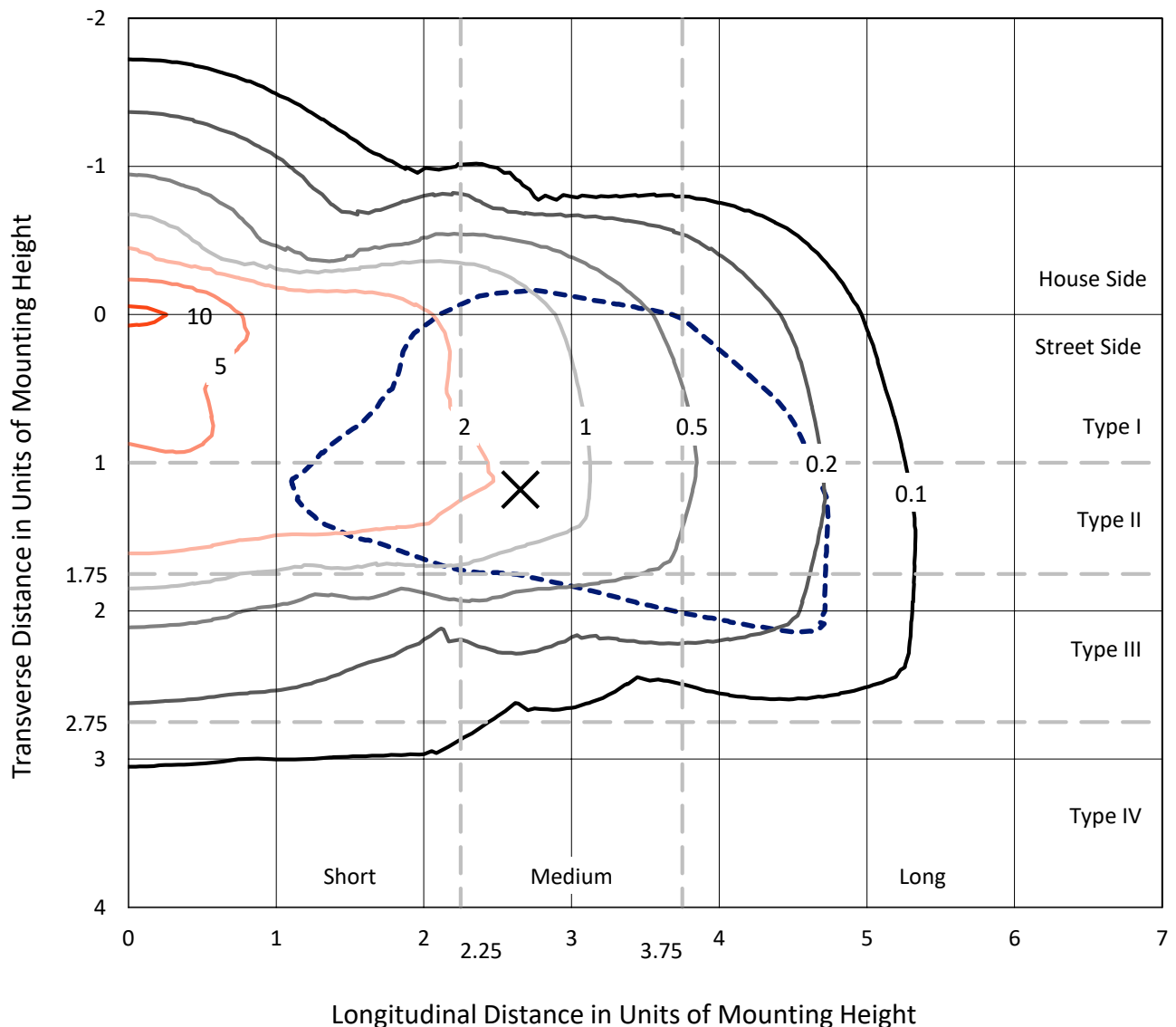
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

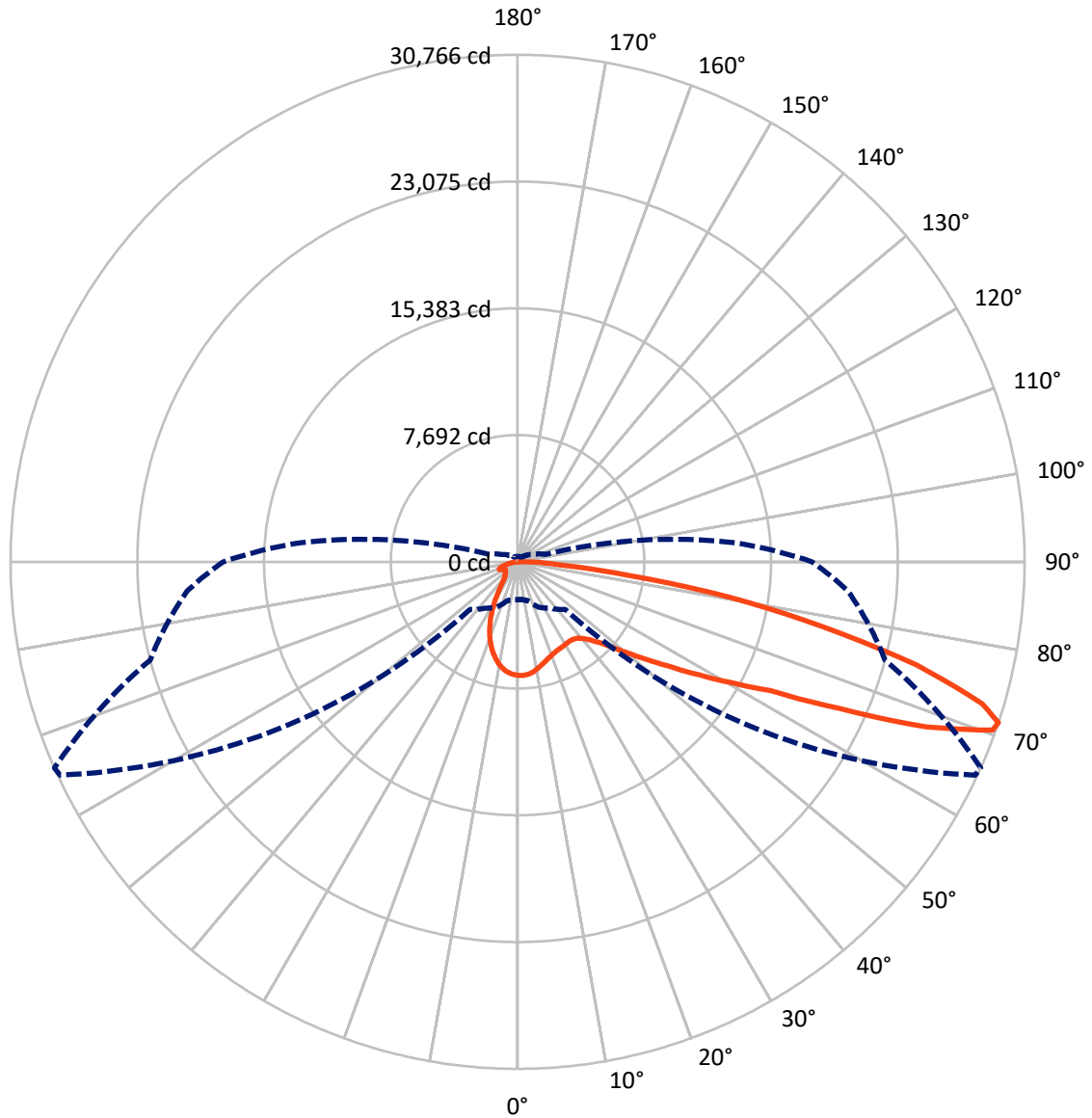
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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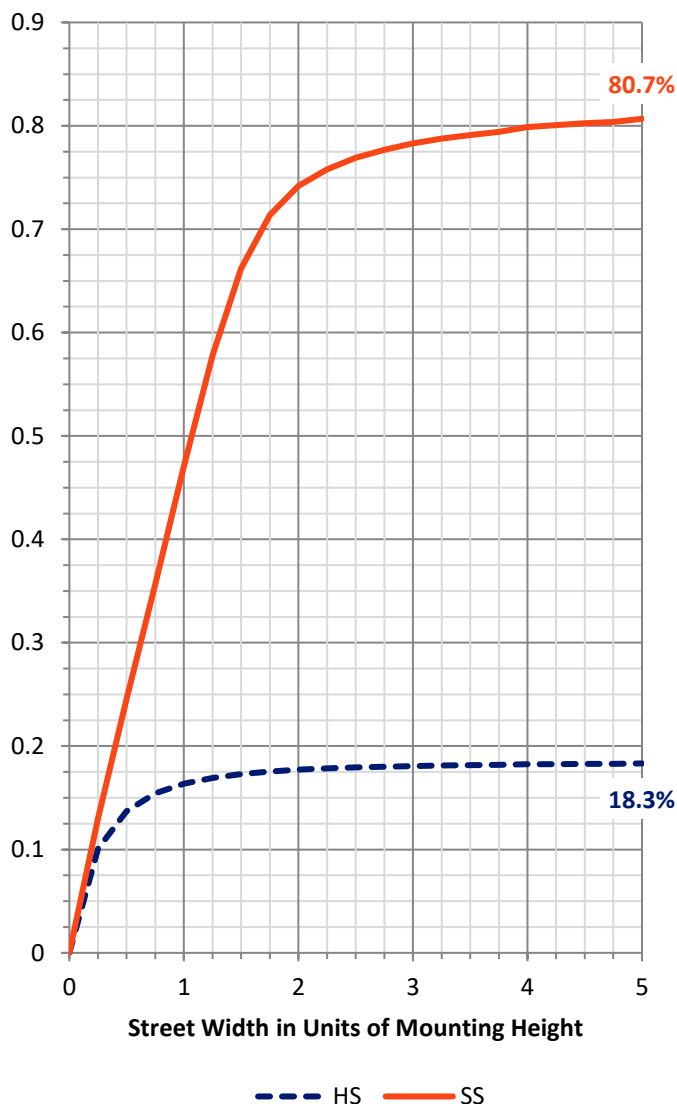
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5574.9	0.0	5574.9
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	24506.6	0.0	24506.6
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	30081.5	0.0	30081.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.6	2.0
10°-20°	1454.8	4.8
20°-30°	1954.2	6.5
30°-40°	2570.7	8.5
40°-50°	3739.7	12.4
50°-60°	5841.9	19.4
60°-70°	7317.9	24.3
70°-80°	5581.9	18.6
80°-90°	1013.6	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°	30081.5	100.0
0°-180°	30081.5	100.0

**Coefficient of Utilization**

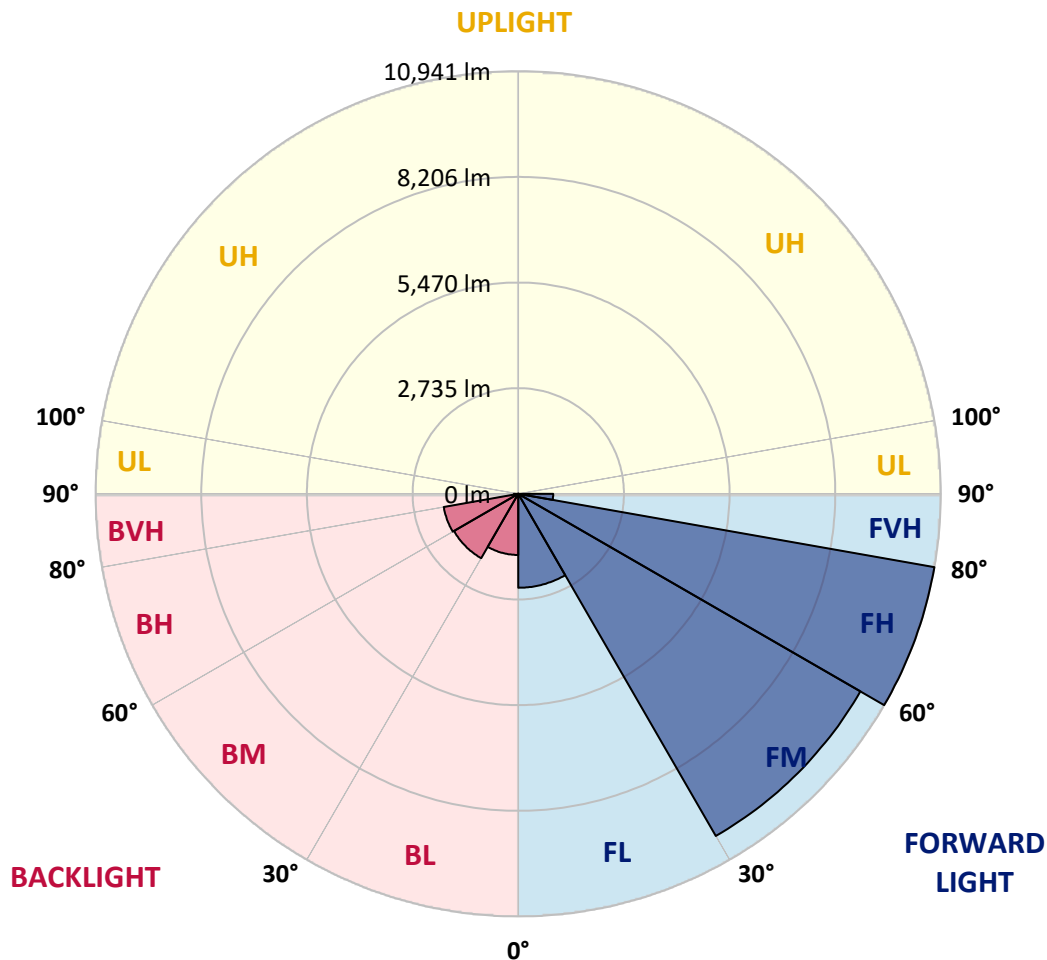


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2432.5	8.1			
FM (30°-60°)	10229.2	34.0			
FH (60°-80°)	10941.0	36.4			G4/12000
FVH (80°-90°)	903.9	3.0			G5
BL (0°-30°)	1583.1	5.3	B3/2500		
BM (30°-60°)	1923.2	6.4	B2/2500		
BH (60°-80°)	1958.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	109.7	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°	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1
2.5°	6763.3	6753.0	6784.1	6816.3	6828.8	6849.6	6880.7	6898.4	6897.4	6900.4	6890.1
5°	6314.7	6301.2	6363.5	6414.4	6512.0	6622.1	6756.0	6851.6	6853.7	6907.7	6922.2
7.5°	5889.9	5880.6	5952.2	6034.3	6147.5	6315.7	6532.8	6738.4	6750.9	6897.4	6948.2
10°	5549.2	5547.2	5616.8	5706.1	5837.9	6025.9	6275.2	6576.4	6595.1	6847.4	6952.4
12.5°	5283.4	5287.5	5347.7	5449.6	5588.7	5785.0	6055.1	6394.6	6424.8	6768.5	6928.5
15°	5087.1	5103.7	5152.5	5255.3	5392.4	5591.8	5869.1	6226.4	6272.1	6680.2	6915.0
17.5°	4974.9	4993.6	5027.8	5113.0	5241.8	5433.9	5696.7	6088.2	6129.8	6612.8	6916.0
20°	4941.7	4957.2	4977.0	5028.9	5138.0	5312.4	5560.7	5963.7	6008.3	6558.7	6926.4
22.5°	5007.1	5018.5	5020.6	5016.4	5082.9	5225.1	5461.9	5872.2	5920.0	6523.4	6933.7
25°	5147.3	5162.9	5151.5	5113.0	5091.2	5178.5	5411.1	5812.0	5859.8	6497.5	6919.2
27.5°	5358.2	5360.2	5350.9	5301.0	5198.2	5183.6	5395.5	5776.7	5822.4	6467.4	6889.0
30°	5644.8	5658.3	5641.6	5574.2	5405.9	5266.7	5414.2	5742.4	5784.0	6428.9	6840.2
32.5°	5980.3	6013.5	6012.5	5941.8	5700.9	5452.6	5491.1	5721.7	5753.8	6388.5	6781.0
35°	6328.2	6373.8	6459.1	6428.9	6130.9	5746.5	5638.6	5754.9	5776.7	6383.2	6739.5
37.5°	6689.6	6735.3	6910.9	6991.8	6642.9	6167.2	5871.2	5872.2	5882.6	6446.6	6736.3
40°	7067.7	7116.5	7380.3	7591.1	7306.5	6700.0	6246.1	6117.4	6105.9	6602.3	6797.6
42.5°	7597.3	7640.9	7957.7	8226.8	8042.9	7382.3	6764.4	6495.4	6471.5	6907.7	6993.9
45°	8267.2	8304.7	8641.1	8928.8	8834.3	8161.3	7415.6	7015.8	7011.6	7416.6	7391.7
47.5°	9063.9	9092.9	9395.1	9673.5	9707.8	9057.6	8234.0	7818.6	7751.0	8114.5	8007.6
50°	9893.7	9925.9	10131.5	10430.6	10685.1	10257.2	9287.2	8802.1	8711.7	9035.8	8880.0
52.5°	10443.1	10485.7	10664.4	11043.4	11783.9	11572.1	10532.4	9994.4	9857.4	10152.3	10032.9
55°	10198.0	10293.5	10566.7	11174.3	12662.6	13580.8	12068.5	11385.1	11230.4	11475.5	11404.8
57.5°	9083.6	9214.4	9587.3	10525.2	12786.1	15350.5	14390.8	13022.9	12914.0	12843.3	12875.5
60°	7046.9	7172.5	7634.8	8857.2	11925.2	16642.5	17885.7	15042.0	14884.2	14216.3	14245.4
62.5°	4987.3	4924.0	5240.8	6135.0	9690.1	16794.1	21862.5	17742.3	17223.1	15666.2	15538.5
65°	3803.3	3788.8	3931.1	4215.6	5869.1	14979.7	24231.5	22281.0	21469.9	17371.6	17070.4
67.5°	3125.2	3099.2	3239.4	3653.8	3779.5	9664.2	24283.5	27546.7	26750.1	19494.5	18842.2
70°	2569.5	2540.4	2671.3	3206.1	3492.8	4901.2	20437.5	30630.3	30587.7	22182.4	20179.9
71°	2303.6	2282.9	2439.6	3033.8	3431.5	4084.8	17645.7	30638.6	30766.4	23092.2	20101.0
72.5°	1875.7	1882.9	2049.1	2700.4	3385.8	3607.0	12969.0	29210.5	29480.6	23959.4	19383.4
75°	1246.3	1252.6	1470.6	2077.2	3283.1	3529.2	7127.9	24510.9	25007.4	23440.2	17687.3
77.5°	837.1	835.0	983.5	1425.0	2860.3	3529.2	4179.3	18332.3	18877.5	18651.2	13635.7
80°	576.4	572.2	677.1	983.5	2165.5	3571.7	3231.1	12847.4	13012.6	10072.4	5542.0
82.5°	353.1	356.2	442.5	694.8	1473.8	3214.5	3050.4	7005.3	6825.6	2825.0	1384.5
85°	202.5	201.5	282.5	470.5	946.2	2712.9	2974.5	3015.0	2765.8	850.6	500.6
87.5°	72.7	77.9	151.7	260.6	542.2	1889.2	2523.7	1568.3	1413.5	384.3	226.5
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°	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1	6891.1
2.5°	6882.8	6889.0	6881.7	6840.2	6804.9	6747.8	6715.6	6670.9	6657.4	6651.2	6667.8
5°	6908.7	6910.9	6849.6	6740.5	6617.9	6473.6	6369.7	6241.9	6181.7	6155.8	6172.3
7.5°	6932.7	6923.3	6789.3	6580.5	6354.2	6102.8	5879.5	5674.9	5555.5	5506.7	5510.8
10°	6935.7	6896.2	6681.3	6358.3	6007.3	5638.6	5295.8	4980.1	4780.7	4650.8	4690.3
12.5°	6903.6	6837.1	6522.4	6070.6	5583.5	5080.8	4617.6	4144.0	3859.4	3727.5	3731.7
15°	6878.6	6758.2	6327.2	5732.0	5077.7	4412.0	3779.5	3222.8	2919.5	2784.5	2721.1
17.5°	6857.9	6673.0	6100.7	5350.9	4480.6	3636.1	2875.9	2379.5	2213.3	2173.8	2157.2
20°	6828.8	6582.6	5848.3	4909.4	3800.2	2767.9	2100.1	1854.9	1856.0	1901.7	1907.9
22.5°	6788.3	6479.8	5579.3	4414.0	3070.1	2016.0	1646.1	1575.5	1647.3	1734.4	1750.0
25°	6728.0	6358.3	5280.2	3866.7	2341.0	1549.6	1406.3	1403.2	1490.4	1581.8	1595.3
27.5°	6642.9	6199.4	4947.9	3278.9	1725.1	1316.9	1259.8	1281.6	1346.0	1412.5	1417.7
30°	6528.7	6014.5	4581.3	2658.8	1352.2	1172.5	1166.4	1186.0	1225.5	1272.3	1276.4
32.5°	6403.0	5826.6	4189.7	2058.5	1158.0	1094.7	1100.9	1110.2	1128.9	1147.7	1151.8
35°	6288.7	5634.4	3788.8	1564.2	1065.6	1043.8	1039.6	1037.6	1039.6	1033.4	1034.5
37.5°	6215.0	5475.5	3371.3	1245.3	1012.6	999.1	986.7	971.0	953.4	943.0	945.1
40°	6188.0	5357.1	2948.5	1076.0	969.0	959.7	935.7	902.6	881.8	875.6	875.6
42.5°	6260.7	5295.8	2540.4	990.8	932.7	917.1	877.6	839.2	823.6	822.6	821.5
45°	6482.9	5320.7	2152.0	944.1	899.4	869.3	817.3	785.2	774.8	776.9	775.8
47.5°	6881.7	5477.6	1819.6	912.9	866.2	826.7	768.5	742.6	730.1	730.1	731.2
50°	7560.0	5844.2	1554.8	886.9	838.1	787.3	733.2	701.1	684.4	683.4	683.4
52.5°	8547.7	6500.6	1389.7	865.1	807.0	751.9	697.9	657.4	637.7	633.5	631.5
55°	9785.6	7441.6	1343.9	850.6	765.5	713.5	655.3	614.8	593.0	583.7	582.7
57.5°	11170.1	8586.1	1434.3	833.0	722.9	667.8	608.6	570.2	547.4	535.9	534.9
60°	12571.2	9835.6	1803.0	808.0	687.6	618.0	560.9	525.5	502.7	490.2	488.1
62.5°	13974.3	11152.5	2556.0	806.0	662.6	570.2	512.1	481.9	460.1	446.6	443.5
65°	15557.1	12594.1	3411.8	861.0	654.3	526.6	462.1	438.3	419.6	407.1	406.1
67.5°	17374.7	14221.6	3329.7	974.2	682.4	487.1	415.5	396.7	383.2	372.9	371.8
70°	18227.4	13967.1	2069.9	1054.1	721.9	448.6	370.8	357.2	346.9	339.6	336.5
71°	17870.2	13261.9	1735.5	1044.8	717.7	432.1	353.1	342.7	332.4	326.1	323.0
72.5°	16895.9	12094.5	1447.8	972.2	670.9	402.0	330.2	319.9	310.6	303.3	301.2
75°	15161.5	10801.4	1159.0	776.9	534.9	339.6	289.8	278.3	271.1	266.9	262.8
77.5°	11145.2	7708.5	896.3	613.8	393.7	277.3	247.2	238.8	231.6	225.3	222.3
80°	4269.7	2986.0	603.5	458.0	288.7	219.1	199.4	195.3	188.0	183.8	183.8
82.5°	1149.7	892.1	321.9	277.3	193.2	159.9	152.7	150.6	144.4	136.1	137.1
85°	465.3	393.7	180.7	152.7	118.4	94.6	102.8	103.9	96.6	86.2	87.3
87.5°	204.6	167.2	100.7	67.5	51.9	36.3	46.8	46.8	42.6	35.3	32.2
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)