

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: P383083

Luminaire Tested: **GLEON-SA4B-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21475 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

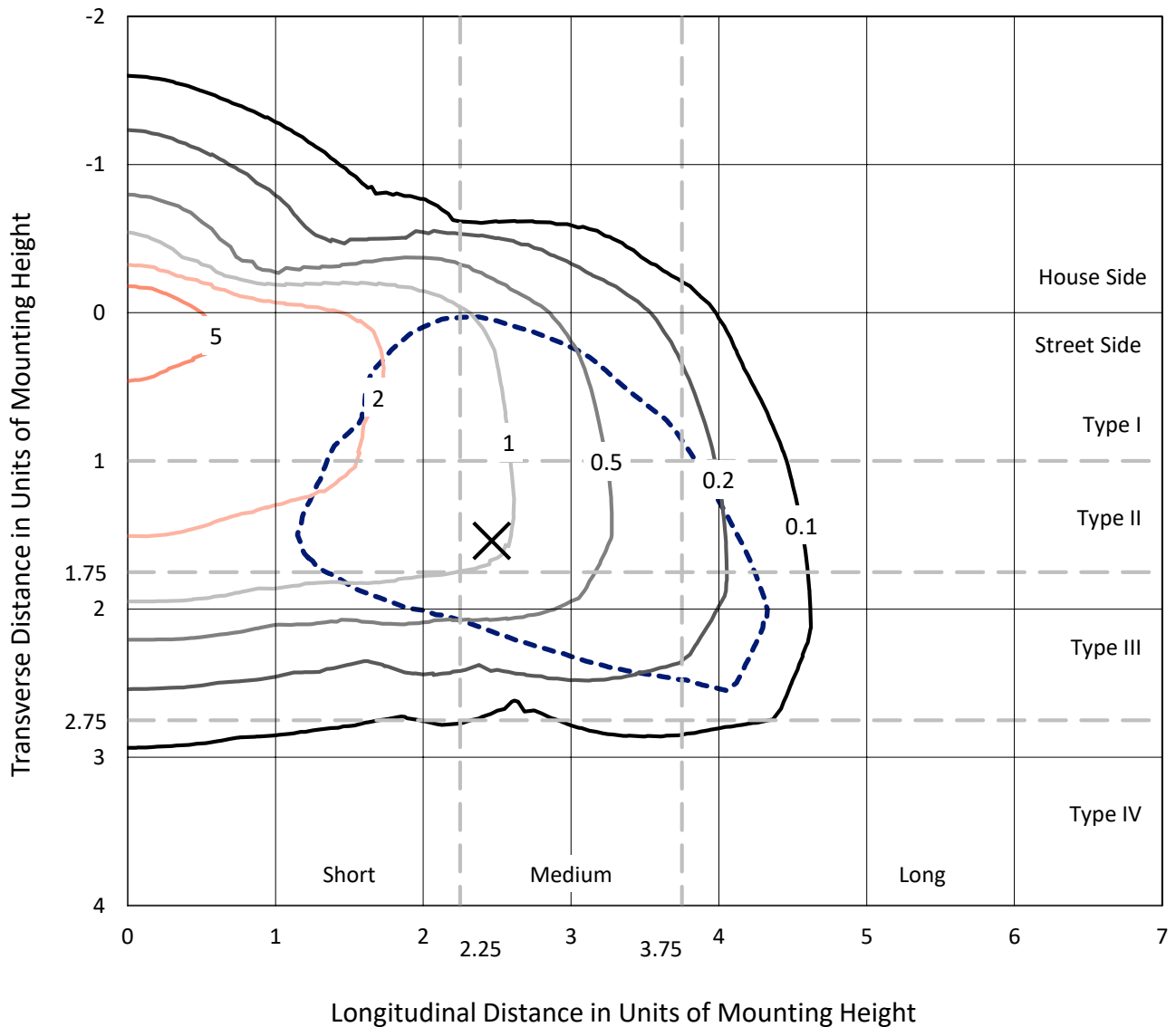
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

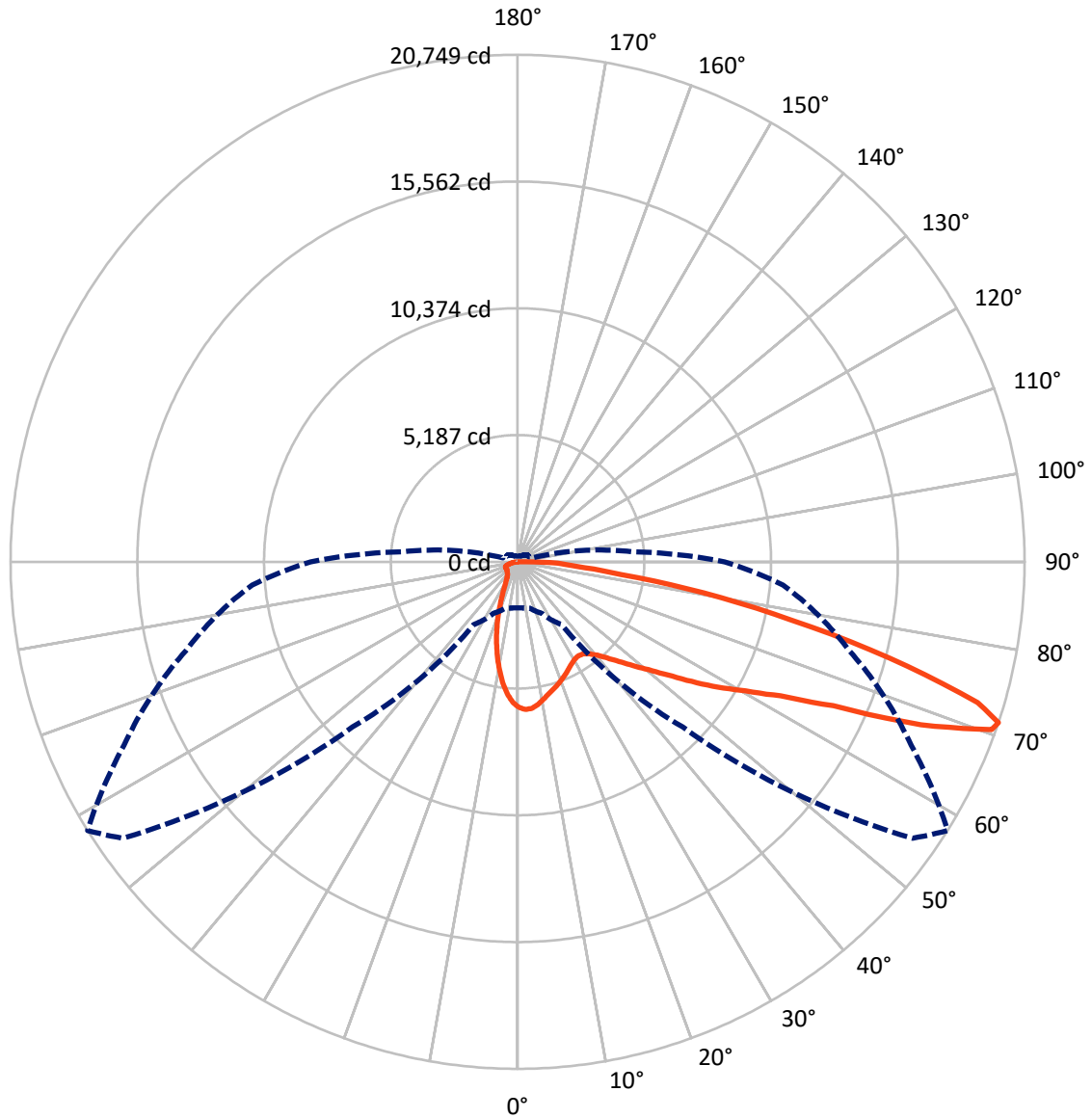
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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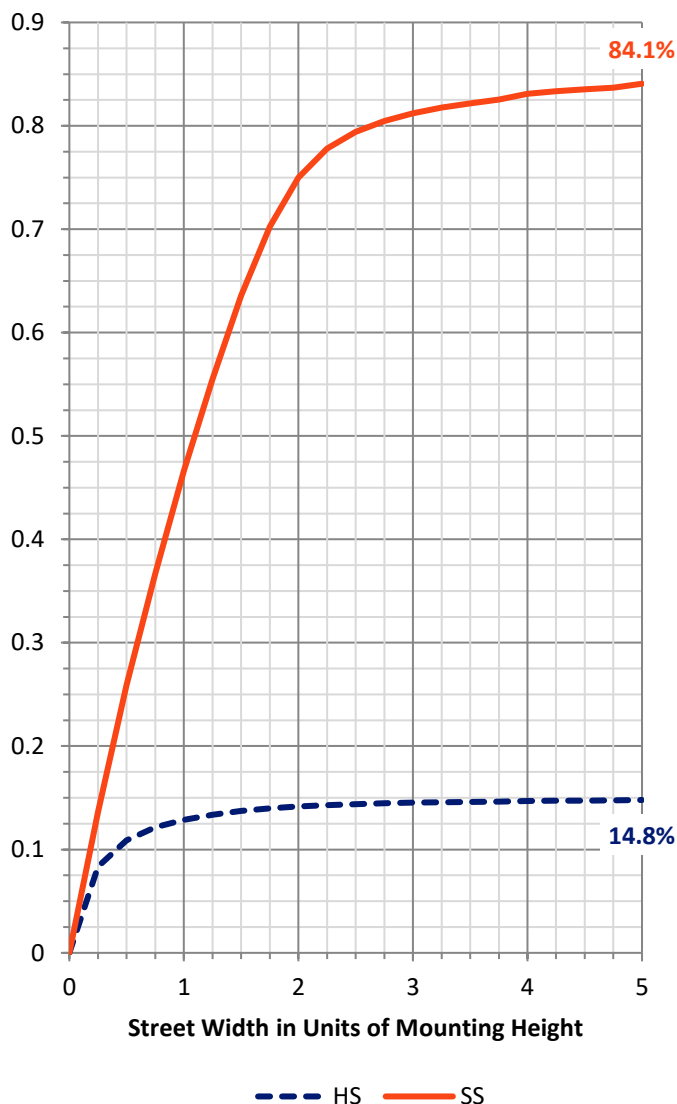
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3210.6	0.0	3210.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	18264.3	0.0	18264.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	21475.0	0.0	21475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.3	2.4
10°-20°	1141.4	5.3
20°-30°	1450.6	6.8
30°-40°	1847.8	8.6
40°-50°	2620.2	12.2
50°-60°	4054.9	18.9
60°-70°	5520.2	25.7
70°-80°	3682.6	17.1
80°-90°	643.9	3.0
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°	21475.0	100.0
0°-180°	21475.0	100.0

**Coefficient of Utilization**

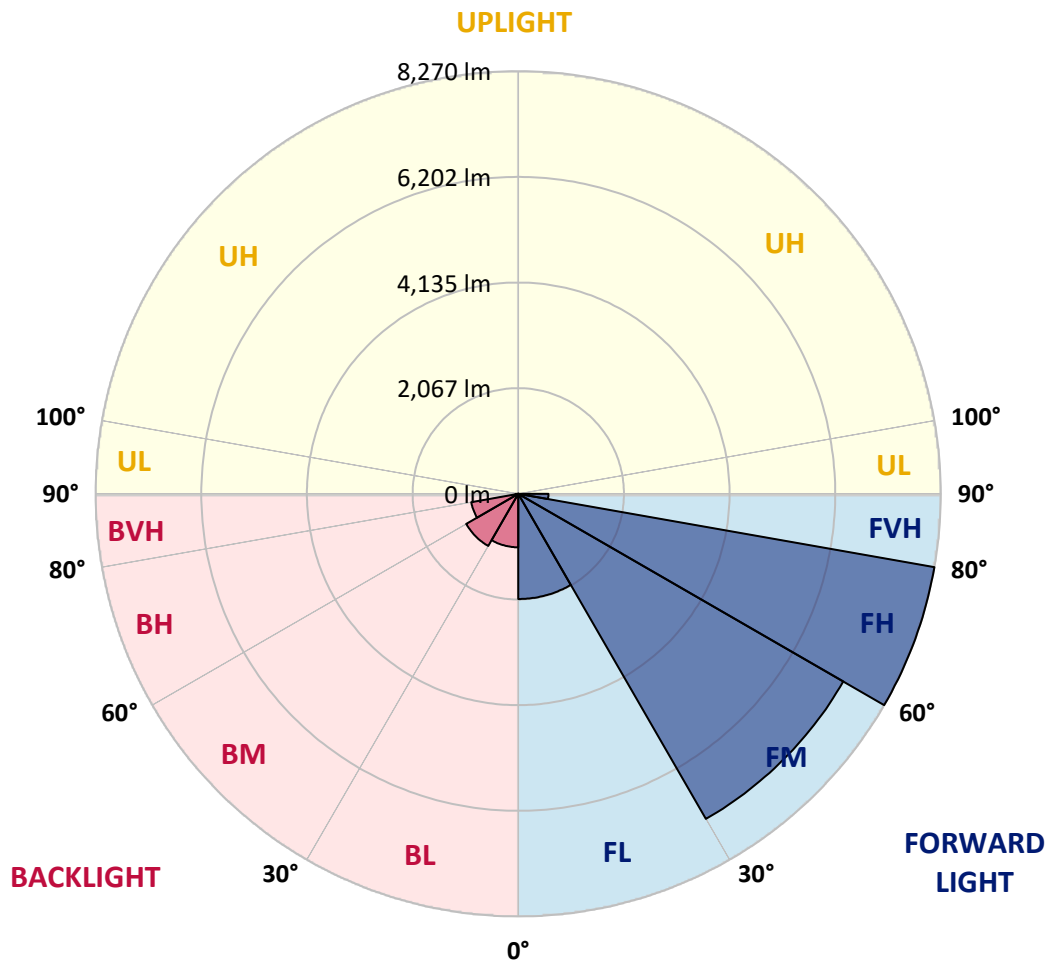


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.7	9.6			
FM (30°-60°)	7345.5	34.2			
FH (60°-80°)	8269.7	38.5			G4/12000
FVH (80°-90°)	590.4	2.7			G4/750
BL (0°-30°)	1046.6	4.9	B3/2500		
BM (30°-60°)	1177.4	5.5	B2/2500		
BH (60°-80°)	933.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	53.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	6107.9	6099.6	6102.6	6096.6	6082.4	6068.2	6047.2	6051.0	6021.8	5978.4	5924.5
5°	5992.6	5989.7	6012.1	6024.8	6035.3	6027.0	6021.1	6028.5	5985.9	5926.0	5832.5
7.5°	5751.0	5718.1	5746.5	5789.2	5829.5	5860.3	5900.6	5905.8	5878.9	5816.1	5693.4
10°	5407.6	5376.2	5418.2	5484.7	5565.5	5638.8	5720.4	5735.4	5740.6	5683.7	5534.8
12.5°	5051.6	5027.7	5069.6	5163.0	5297.0	5409.9	5540.1	5562.6	5608.8	5570.7	5388.3
15°	4732.9	4724.0	4774.8	4866.8	5020.9	5193.8	5381.5	5422.6	5501.2	5488.5	5273.8
17.5°	4457.6	4455.4	4494.3	4590.8	4761.3	4979.8	5223.7	5293.2	5409.9	5424.9	5179.5
20°	4252.7	4248.2	4275.2	4346.1	4522.0	4769.6	5053.1	5148.8	5317.2	5369.5	5082.2
22.5°	4142.7	4141.9	4142.7	4176.4	4320.0	4550.4	4887.0	5003.7	5226.6	5325.4	4974.6
25°	4124.0	4121.7	4105.3	4101.6	4183.1	4367.1	4722.5	4851.1	5140.7	5294.7	4872.1
27.5°	4172.6	4175.7	4154.0	4118.7	4135.2	4246.6	4579.6	4717.2	5071.8	5288.8	4801.0
30°	4273.7	4272.1	4253.4	4216.7	4184.6	4201.8	4477.9	4615.4	5025.4	5314.9	4752.4
32.5°	4385.1	4393.3	4389.5	4369.3	4321.4	4252.7	4447.2	4581.8	5011.9	5377.7	4731.4
35°	4518.9	4528.0	4554.9	4570.6	4514.5	4403.8	4513.0	4629.7	5050.9	5495.9	4765.1
37.5°	4646.2	4669.4	4744.9	4811.4	4763.6	4640.1	4688.0	4771.1	5171.3	5682.2	4855.6
40°	4792.7	4812.9	4936.4	5077.8	5070.3	4942.4	4970.1	5025.4	5383.7	5949.2	5019.5
42.5°	4937.1	4977.5	5156.3	5356.8	5414.4	5301.4	5345.6	5374.8	5682.9	6303.0	5305.2
45°	5129.4	5172.8	5421.1	5662.8	5797.4	5733.8	5804.1	5815.4	6059.3	6784.8	5720.4
47.5°	5420.4	5469.8	5759.3	6012.9	6218.5	6225.3	6341.2	6336.8	6529.0	7336.1	6243.2
50°	5873.7	5944.8	6181.9	6419.0	6668.9	6808.0	6962.9	6941.1	7092.2	7923.4	6845.4
52.5°	6467.6	6500.5	6676.4	6851.4	7161.8	7473.8	7696.0	7676.5	7731.1	8527.0	7529.1
55°	7083.3	7108.0	7180.6	7276.3	7693.7	8202.4	8672.1	8641.5	8503.1	9153.9	8204.6
57.5°	7636.8	7686.9	7737.1	7776.7	8229.3	8963.9	9670.8	9673.1	9340.9	9830.2	8902.5
60°	7722.9	7767.1	8098.4	8411.1	9145.7	9979.8	10739.8	10717.4	10207.9	10564.0	9680.5
62.5°	6826.8	6926.2	7479.8	8311.6	10028.4	11837.9	12103.5	12075.8	11244.7	11468.4	10586.4
65°	4892.3	5005.2	5673.2	6923.3	9600.5	13885.4	14564.6	14192.0	12658.5	12580.7	11647.1
67.5°	2822.4	2849.3	3138.8	4142.7	7309.9	13992.3	18319.1	17797.7	14854.1	13842.7	12166.3
70°	2087.0	2086.3	2155.1	2549.4	3955.7	11419.7	20104.7	20572.2	17165.5	14257.9	11432.5
71°	1887.3	1889.6	1966.6	2320.5	3132.8	9558.6	19725.3	20748.7	17774.5	14052.9	10901.3
72.5°	1614.3	1621.7	1728.8	2081.1	2635.3	6591.8	18091.6	19689.5	18063.2	13547.2	10070.3
75°	1224.5	1241.8	1389.9	1754.2	2408.7	3343.0	13277.9	15722.6	16046.5	11953.9	7482.7
77.5°	873.7	893.2	1060.8	1475.2	2289.7	2519.5	8892.1	11468.4	11808.8	7660.8	3375.2
80°	552.0	575.2	701.6	1173.7	2151.4	2392.3	5588.0	7708.6	6439.2	2451.4	858.8
82.5°	323.9	341.9	435.4	766.8	1757.2	2304.0	3287.7	4272.9	2506.0	740.6	390.5
85°	187.8	196.0	271.5	488.5	1276.2	2174.6	2415.5	2388.5	1087.7	362.1	184.7
87.5°	87.6	97.3	160.8	255.1	708.4	1576.2	1909.0	1649.5	676.2	169.8	86.8
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°	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0	5950.0
2.5°	5898.4	5885.7	5832.5	5785.5	5736.1	5671.7	5600.7	5591.7	5548.3	5556.5	5541.6
5°	5781.7	5749.5	5621.6	5505.6	5368.8	5246.1	5112.9	5051.6	4963.3	4957.3	4934.9
7.5°	5614.9	5555.0	5356.8	5136.8	4917.0	4707.5	4500.3	4364.1	4225.0	4165.9	4160.7
10°	5427.1	5325.4	5033.6	4708.2	4391.0	4085.1	3788.9	3569.7	3372.2	3278.7	3274.9
12.5°	5249.1	5098.7	4698.5	4255.7	3821.8	3425.3	3019.1	2731.1	2483.5	2400.5	2365.3
15°	5098.0	4886.2	4372.4	3806.1	3279.4	2728.9	2266.6	1963.6	1734.7	1655.5	1640.5
17.5°	4951.4	4679.1	4038.0	3352.0	2715.5	2110.2	1647.3	1422.0	1300.1	1267.9	1267.2
20°	4805.5	4465.8	3688.6	2887.5	2170.1	1578.4	1266.4	1165.5	1124.3	1120.6	1114.6
22.5°	4640.1	4239.9	3321.3	2421.5	1693.6	1241.0	1076.4	1036.1	1030.9	1044.3	1044.3
25°	4485.3	4015.5	2948.8	1965.1	1317.3	1035.3	961.3	953.0	967.2	991.2	993.4
27.5°	4340.9	3799.3	2585.2	1559.7	1055.5	911.9	881.2	890.9	916.4	944.0	944.8
30°	4222.0	3595.1	2232.2	1229.1	891.7	819.9	814.6	834.1	861.8	883.5	888.7
32.5°	4130.0	3420.8	1891.0	988.2	784.7	751.0	755.6	772.0	789.2	801.1	809.4
35°	4087.4	3271.2	1576.2	833.4	716.6	697.9	703.9	712.9	720.4	729.3	736.1
37.5°	4094.8	3155.2	1294.9	736.9	671.0	661.3	661.3	661.3	661.3	665.8	666.5
40°	4164.4	3088.7	1066.0	675.5	640.3	629.8	621.6	614.2	608.2	611.2	609.7
42.5°	4342.4	3082.7	898.4	636.6	615.7	598.4	581.9	571.5	564.1	567.0	568.5
45°	4644.7	3157.5	785.5	609.0	592.5	566.3	545.3	534.1	528.8	538.6	540.1
47.5°	5035.9	3320.6	716.6	588.7	570.8	536.4	513.9	503.4	504.9	519.2	522.9
50°	5540.1	3585.4	683.8	576.0	555.8	511.0	487.8	478.7	483.3	503.4	508.0
52.5°	6093.6	3966.9	687.5	572.2	546.1	492.2	467.5	457.0	464.6	483.3	487.0
55°	6732.5	4425.5	749.5	577.5	531.8	480.2	451.1	433.1	439.1	456.3	459.3
57.5°	7442.3	4950.6	874.4	576.0	513.9	469.0	433.9	406.9	411.5	421.9	424.9
60°	8181.4	5584.9	1068.2	580.4	505.6	455.5	410.7	377.0	375.5	384.5	386.0
62.5°	9068.6	6318.8	1289.6	583.5	511.0	438.4	380.0	347.1	342.6	344.9	346.3
65°	9982.7	6849.9	1206.6	571.5	527.3	424.1	353.1	317.9	309.7	308.2	308.9
67.5°	10011.2	6280.7	846.0	547.6	534.1	416.7	332.8	293.3	279.7	274.5	273.8
70°	8978.1	5102.5	659.1	522.1	507.1	404.7	314.2	273.0	252.8	244.6	243.9
71°	8473.9	4697.0	624.6	509.5	487.0	392.7	305.9	264.1	243.1	234.1	232.6
72.5°	7683.2	4210.8	582.8	489.2	448.1	362.1	290.3	251.3	229.6	219.2	217.0
75°	5513.9	2753.6	500.4	436.2	371.0	288.8	254.3	225.9	207.2	194.5	193.0
77.5°	2124.5	1095.9	378.5	362.8	284.2	225.9	209.4	195.3	181.7	169.1	168.3
80°	656.8	490.0	276.0	273.0	205.7	168.3	163.1	159.3	154.1	140.7	137.7
82.5°	350.8	281.2	190.0	176.5	134.6	112.3	118.2	119.7	120.4	106.2	104.7
85°	167.6	148.9	106.9	100.2	78.5	62.9	72.6	78.5	79.3	65.1	60.6
87.5°	80.0	77.8	50.1	38.2	29.2	21.0	25.4	31.4	34.4	24.7	21.7
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)