

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: P383576

Luminaire Tested: **GLEON-SA8C-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38273.5 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

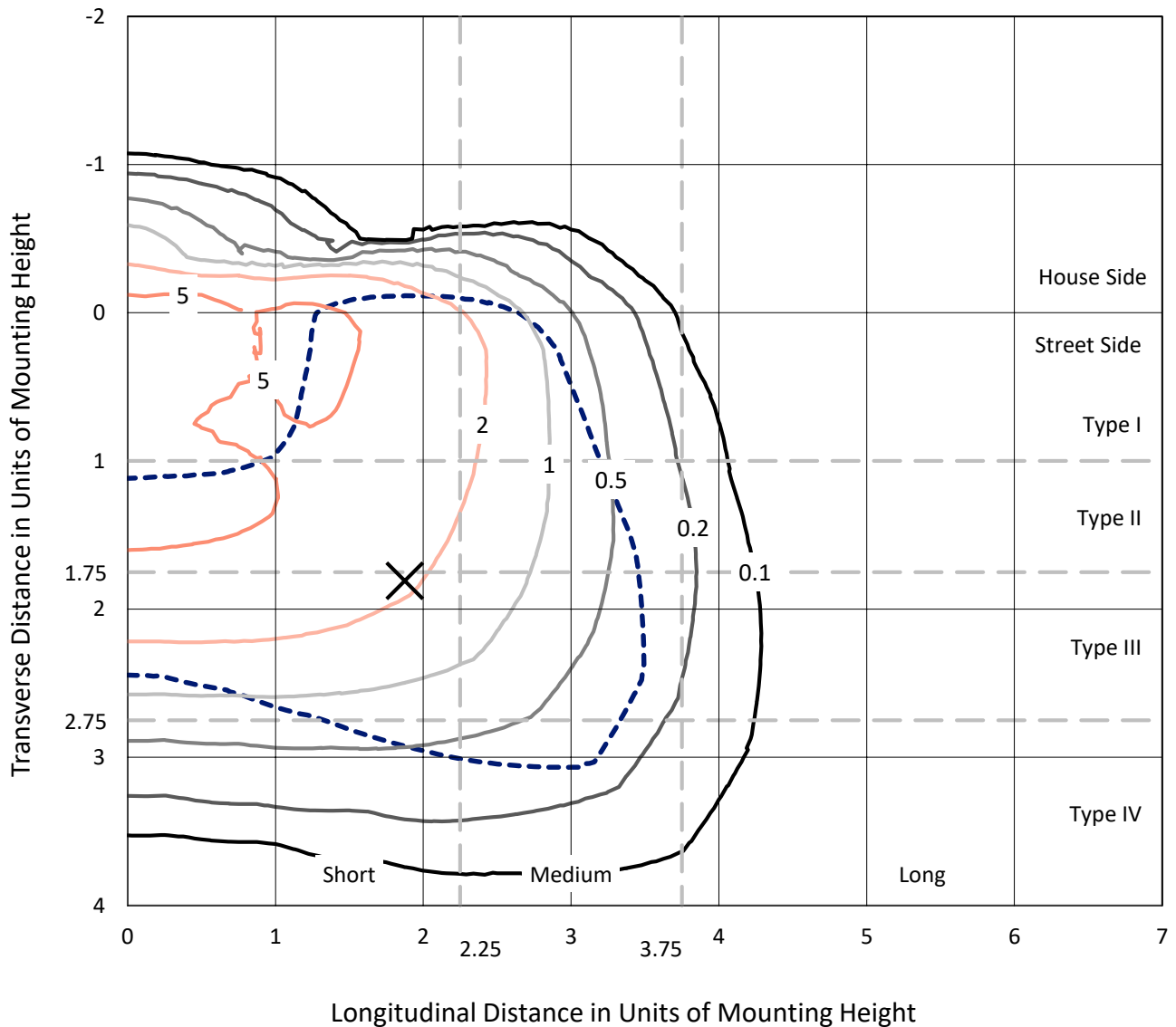
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

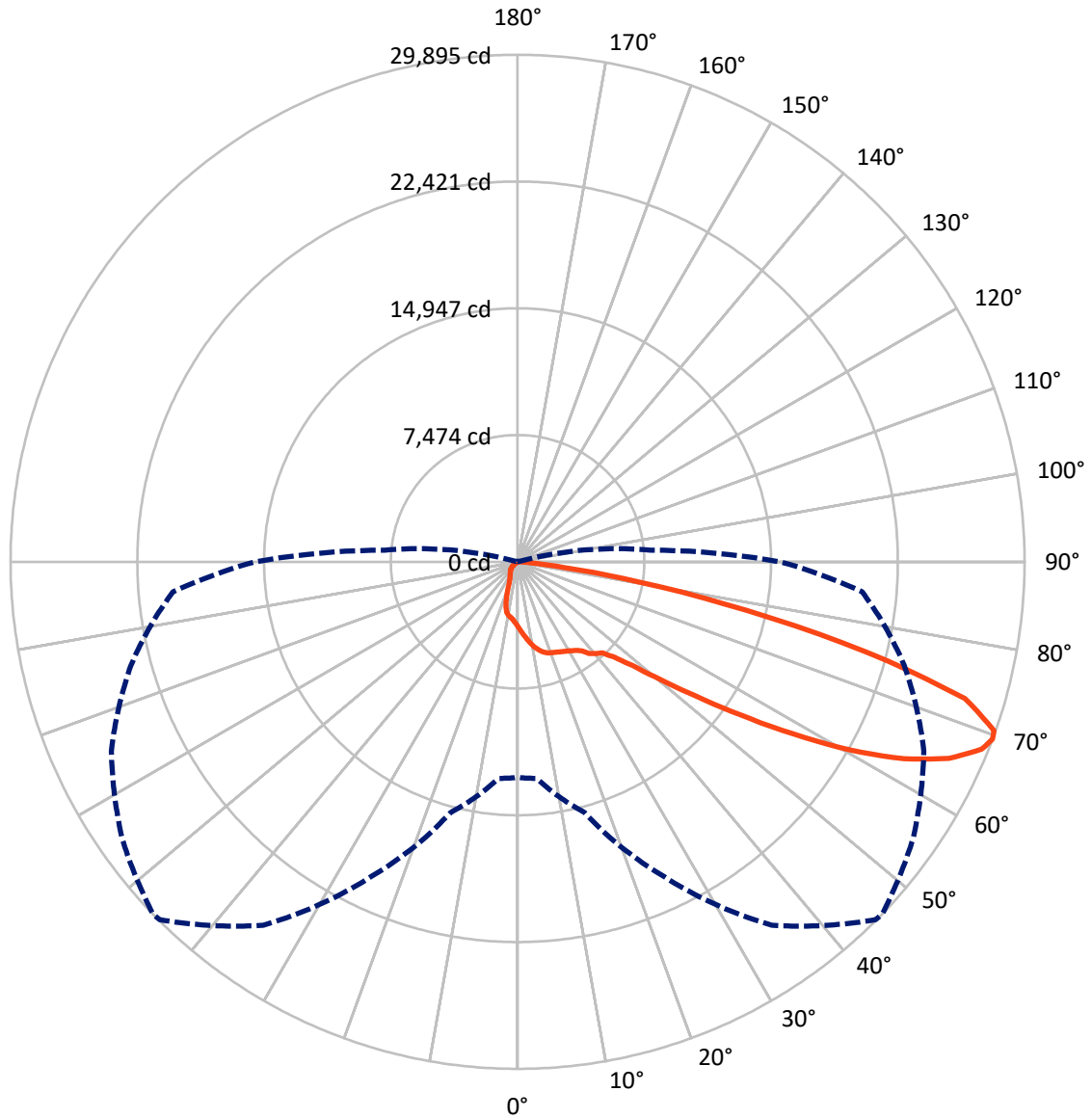
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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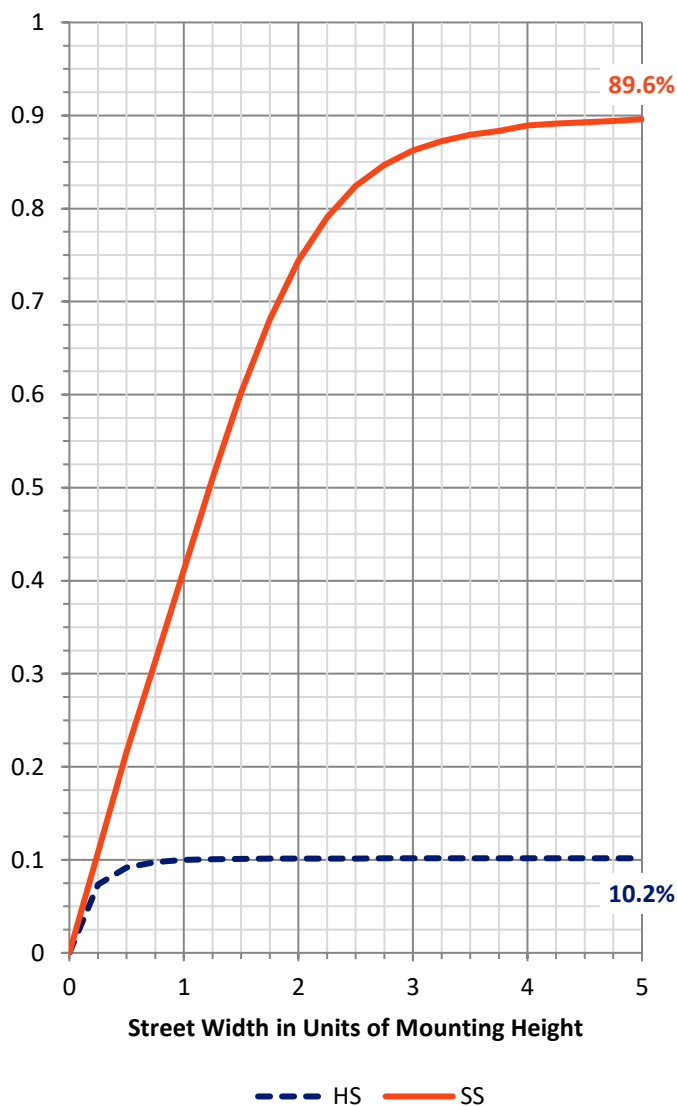
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3927.9	0.0	3927.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	34345.7	0.0	34345.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	38273.5	0.0	38273.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.7	1.0
10°-20°	1158.0	3.0
20°-30°	1821.1	4.8
30°-40°	2611.5	6.8
40°-50°	4513.7	11.8
50°-60°	8917.2	23.3
60°-70°	12462.6	32.6
70°-80°	6020.8	15.7
80°-90°	387.0	1.0
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°	38273.5	100.0
0°-180°	38273.5	100.0

**Coefficient of Utilization**



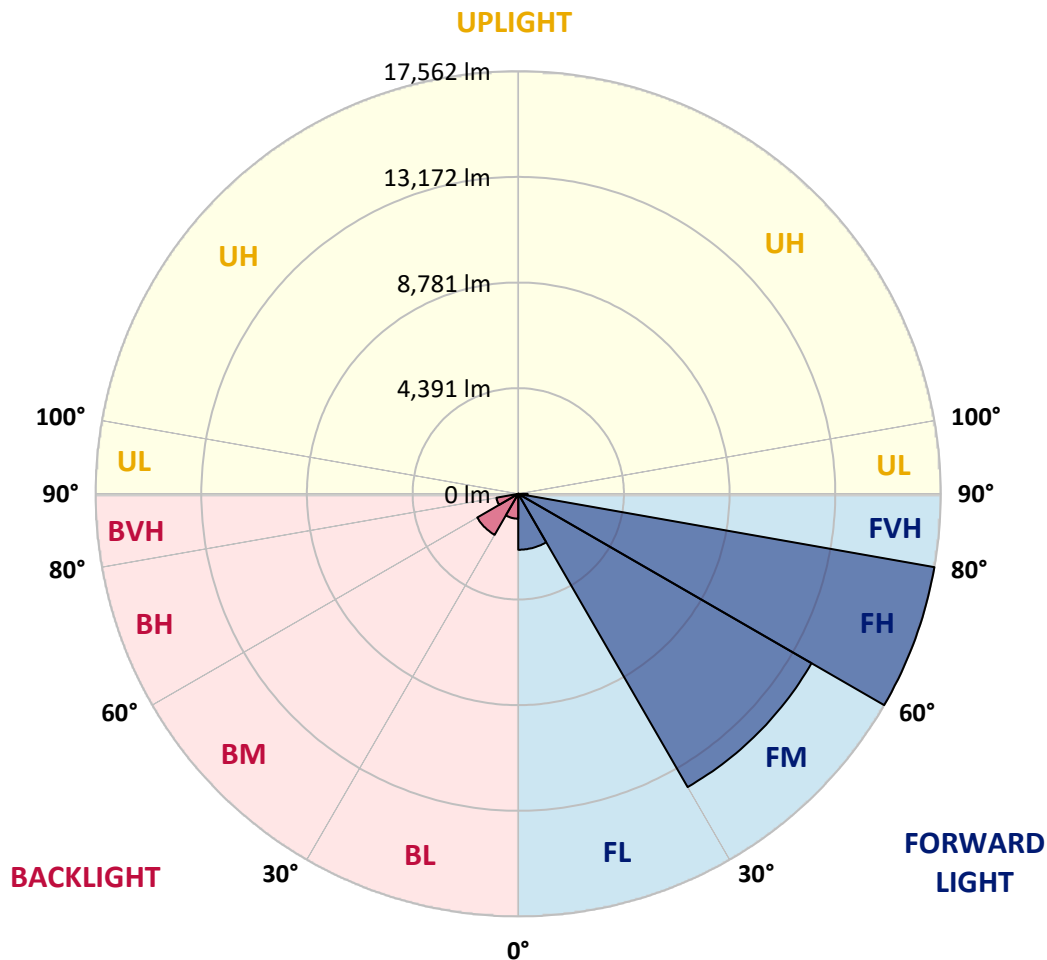
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2325.6	6.1			
FM (30°-60°)	14074.0	36.8			
FH (60°-80°)	17562.3	45.9			G5
FVH (80°-90°)	383.7	1.0			G3/500
BL (0°-30°)	1035.3	2.7	B3/2500		
BM (30°-60°)	1968.4	5.1	B2/2500		
BH (60°-80°)	921.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9
2.5°	4260.2	4254.8	4229.7	4218.9	4157.9	4122.0	4107.7	4062.8	3998.2	3933.6	3861.8
5°	4744.7	4742.9	4696.2	4651.4	4536.5	4428.9	4409.1	4305.1	4159.6	4023.3	3886.9
7.5°	5240.0	5216.7	5170.0	5083.8	4917.0	4744.7	4728.5	4581.4	4375.0	4177.6	3982.0
10°	5659.9	5645.6	5584.5	5453.6	5257.9	5062.3	5042.6	4861.4	4628.0	4385.8	4136.4
12.5°	5986.5	5975.7	5894.9	5731.6	5523.5	5320.7	5293.8	5132.3	4882.9	4611.9	4317.6
15°	6185.7	6180.3	6081.6	5907.5	5702.9	5527.1	5503.8	5362.0	5130.5	4846.9	4515.0
17.5°	6232.3	6234.1	6131.8	5955.9	5787.3	5661.7	5643.7	5536.1	5342.2	5060.5	4712.4
20°	6128.3	6149.8	6058.2	5905.7	5801.7	5735.3	5720.9	5656.3	5493.0	5227.4	4870.3
22.5°	5981.1	5991.9	5929.0	5826.7	5783.7	5796.3	5789.1	5753.2	5615.0	5370.9	5026.4
25°	5891.4	5891.4	5853.7	5767.6	5796.3	5873.4	5875.3	5868.0	5758.5	5546.8	5216.7
27.5°	5887.8	5877.0	5833.9	5769.4	5848.3	5966.7	5973.9	6022.4	5954.2	5760.4	5453.6
30°	6031.3	6018.8	5927.3	5842.9	5943.5	6070.8	6088.8	6194.6	6160.5	5991.9	5717.3
32.5°	6366.9	6322.0	6119.2	5981.1	6056.5	6209.0	6232.3	6401.0	6454.9	6277.2	5972.2
35°	6826.3	6684.5	6392.0	6243.1	6250.3	6410.0	6431.5	6679.2	6838.9	6539.2	6169.5
37.5°	7459.7	7389.8	6914.2	6515.9	6548.1	6790.4	6853.2	7122.4	7077.5	6682.7	6393.9
40°	8848.8	8739.2	8233.2	7280.3	6833.5	7099.0	7118.8	7262.3	7266.0	7007.6	6860.4
42.5°	10740.2	10695.3	10162.3	8667.5	7395.2	7305.5	7341.3	7583.6	7854.5	7693.1	7685.9
45°	12834.3	12811.0	12245.8	10508.7	8531.1	7982.0	8026.9	8351.6	8870.3	8906.2	9134.0
47.5°	14519.4	14508.6	14183.8	12563.4	10269.9	9128.7	9143.0	9487.5	10399.1	10849.6	11213.9
50°	16055.5	16107.5	15850.9	14786.7	12638.8	10925.0	10890.9	11120.5	12584.9	13322.4	13774.7
52.5°	18191.0	18264.5	17545.0	16861.2	15124.1	13153.7	13126.8	13367.3	15212.1	15764.8	15845.5
55°	20077.0	19951.3	19382.5	19185.1	18155.0	15906.5	15899.4	16111.1	17753.1	17988.2	18137.1
57.5°	20909.6	20861.2	21135.7	21588.0	21329.6	19160.0	19143.9	18982.3	20026.7	20051.8	20509.4
60°	21435.5	21494.6	22336.3	23730.6	24374.9	22661.1	22557.0	21571.8	22198.1	22142.4	22632.3
62.5°	21040.6	21157.3	22671.8	24995.8	26653.8	25717.1	25570.0	23944.1	24053.6	23861.6	24317.4
65°	18944.6	19125.9	21607.7	24757.1	27784.4	28105.6	27956.7	26038.3	25526.9	25211.0	24958.0
67.5°	15382.6	15490.2	18081.5	22680.9	27274.8	29530.4	29500.0	27874.1	26639.5	24983.2	23019.9
69°	12712.3	12818.2	15312.6	20495.1	26153.2	29835.5	29894.8	28462.7	26427.7	23597.8	20396.4
70°	10767.1	10880.1	13204.0	18621.6	24852.2	29693.7	29799.6	28407.1	25821.2	21993.6	18094.0
72.5°	5647.3	5744.2	8129.2	12829.0	20260.0	27265.7	27587.0	26006.0	21887.6	15973.0	10698.8
75°	1774.8	1830.4	3174.5	6706.1	13871.6	21200.3	21273.9	20400.0	15542.2	8785.9	4455.8
77.5°	676.5	660.4	1056.9	2471.0	7013.0	13349.4	13799.8	12748.2	8156.1	3106.3	1028.2
80°	364.3	366.1	549.1	1022.8	3000.4	6860.4	7240.8	6178.5	2898.1	969.0	236.9
82.5°	157.9	165.1	308.6	542.0	1378.2	2530.3	2720.5	2264.7	1107.2	651.4	87.9
85°	34.1	37.7	149.0	294.3	561.7	710.6	744.7	734.0	705.3	506.0	34.1
87.5°	0.0	0.0	66.4	105.9	141.8	161.5	141.8	184.8	389.4	340.9	18.0
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°	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9	3834.9
2.5°	3838.4	3806.1	3750.5	3689.5	3646.4	3601.5	3565.7	3549.6	3531.6	3519.0	3535.2
5°	3831.3	3768.5	3660.8	3556.7	3481.4	3420.4	3370.1	3350.3	3330.7	3316.2	3314.4
7.5°	3894.1	3806.1	3641.0	3488.6	3371.9	3289.3	3221.1	3192.4	3169.1	3158.3	3149.4
10°	4014.3	3901.2	3680.5	3481.4	3330.7	3190.6	3043.5	2930.5	2856.9	2822.8	2810.2
12.5°	4170.4	4028.7	3755.9	3519.0	3300.1	3030.9	2718.7	2449.5	2275.4	2218.0	2183.9
15°	4353.5	4177.6	3854.7	3567.5	3188.9	2697.1	2167.8	1816.1	1654.5	1622.2	1586.3
17.5°	4529.4	4335.5	3973.1	3576.5	2944.8	2155.2	1588.1	1349.4	1286.7	1308.2	1313.6
20°	4683.6	4491.6	4089.7	3497.5	2501.6	1616.9	1229.3	1170.0	1193.3	1234.6	1241.8
22.5°	4839.8	4642.4	4197.4	3289.3	1934.5	1227.4	1107.2	1121.6	1144.9	1186.1	1193.3
25°	5030.0	4825.4	4297.9	2907.1	1451.7	1044.5	1051.6	1073.1	1096.4	1134.2	1137.7
27.5°	5248.9	5056.9	4364.2	2410.0	1076.7	960.1	983.4	1015.7	1039.0	1074.9	1082.1
30°	5539.6	5362.0	4385.8	1895.0	902.7	884.7	895.5	934.9	969.0	1001.3	1006.7
32.5°	5812.4	5663.4	4314.0	1430.2	836.3	814.7	814.7	838.0	877.5	908.0	915.2
35°	6063.6	5966.7	4084.3	1046.2	786.0	750.1	732.2	732.2	757.3	782.4	789.6
37.5°	6395.6	6392.0	3712.9	834.5	737.5	696.2	658.6	629.9	620.9	626.3	629.9
40°	6964.5	6969.8	3228.3	748.3	696.2	640.6	583.2	531.2	482.7	466.6	464.7
42.5°	7852.8	7772.0	2720.5	707.0	660.4	583.2	497.1	427.1	351.8	328.4	326.6
45°	9263.2	8784.1	2182.2	669.3	622.7	518.6	410.9	315.8	254.8	236.9	236.9
47.5°	11317.9	10113.9	1690.4	628.0	572.4	445.0	310.5	227.9	186.6	177.6	179.4
50°	13442.7	11416.7	1295.6	576.1	511.4	367.9	229.7	165.1	141.8	141.8	143.6
52.5°	15326.9	12371.3	1010.3	520.4	436.1	288.9	174.1	129.2	118.4	116.6	118.4
55°	17090.9	12986.9	773.5	455.8	346.3	215.4	132.8	105.9	98.7	95.1	93.3
57.5°	18792.1	13292.0	579.6	367.9	251.2	156.1	105.9	89.7	82.5	77.1	75.4
60°	19924.4	13044.3	398.4	271.0	174.1	113.1	87.9	77.1	68.2	62.8	61.0
62.5°	20563.3	12367.8	256.6	195.6	123.8	84.3	70.0	64.6	52.1	46.7	46.7
65°	20304.8	11251.6	179.4	140.0	89.7	62.8	52.1	52.1	37.7	30.5	28.7
67.5°	17993.6	9505.5	136.4	104.1	64.6	46.7	39.5	44.9	23.3	14.3	14.3
69°	15481.2	7877.9	116.6	86.2	53.8	37.7	34.1	41.3	16.1	10.8	8.9
70°	13455.3	6795.8	105.9	75.4	44.9	32.3	30.5	39.5	16.1	8.9	7.2
72.5°	8050.2	3790.0	80.8	53.8	28.7	25.2	25.2	44.9	16.1	8.9	7.2
75°	3253.4	1335.1	59.2	37.7	21.5	21.5	30.5	57.4	14.3	7.2	5.4
77.5°	737.5	292.5	34.1	23.3	14.3	21.5	35.9	44.9	8.9	3.6	0.0
80°	179.4	71.8	21.5	14.3	8.9	16.1	26.9	25.2	1.8	0.0	0.0
82.5°	59.2	25.2	8.9	7.2	1.8	5.4	12.6	7.2	0.0	0.0	0.0
85°	25.2	14.3	3.6	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
87.5°	16.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)