

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: P383546

Luminaire Tested: **GLEON-SA8B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30297.7 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

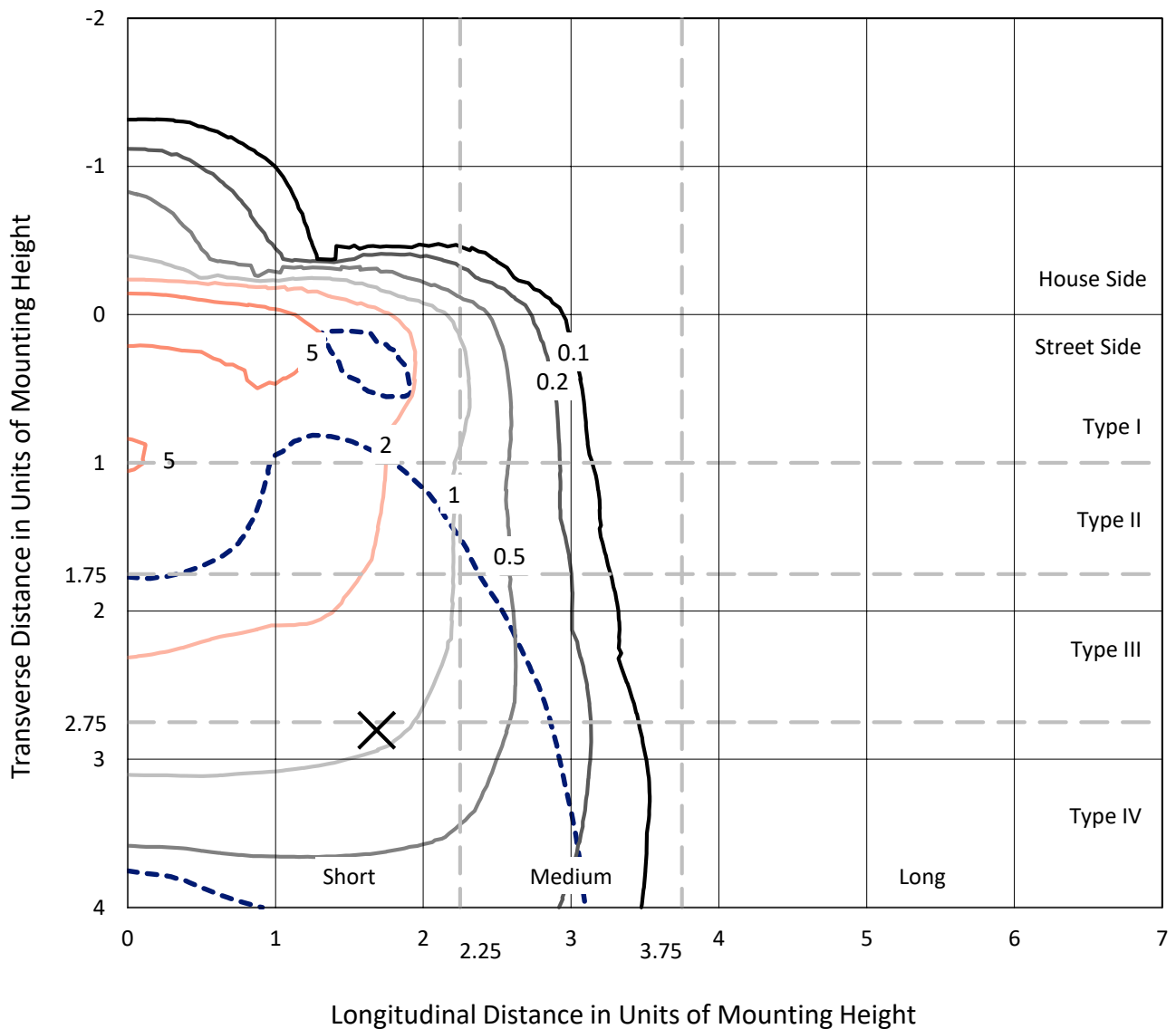
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

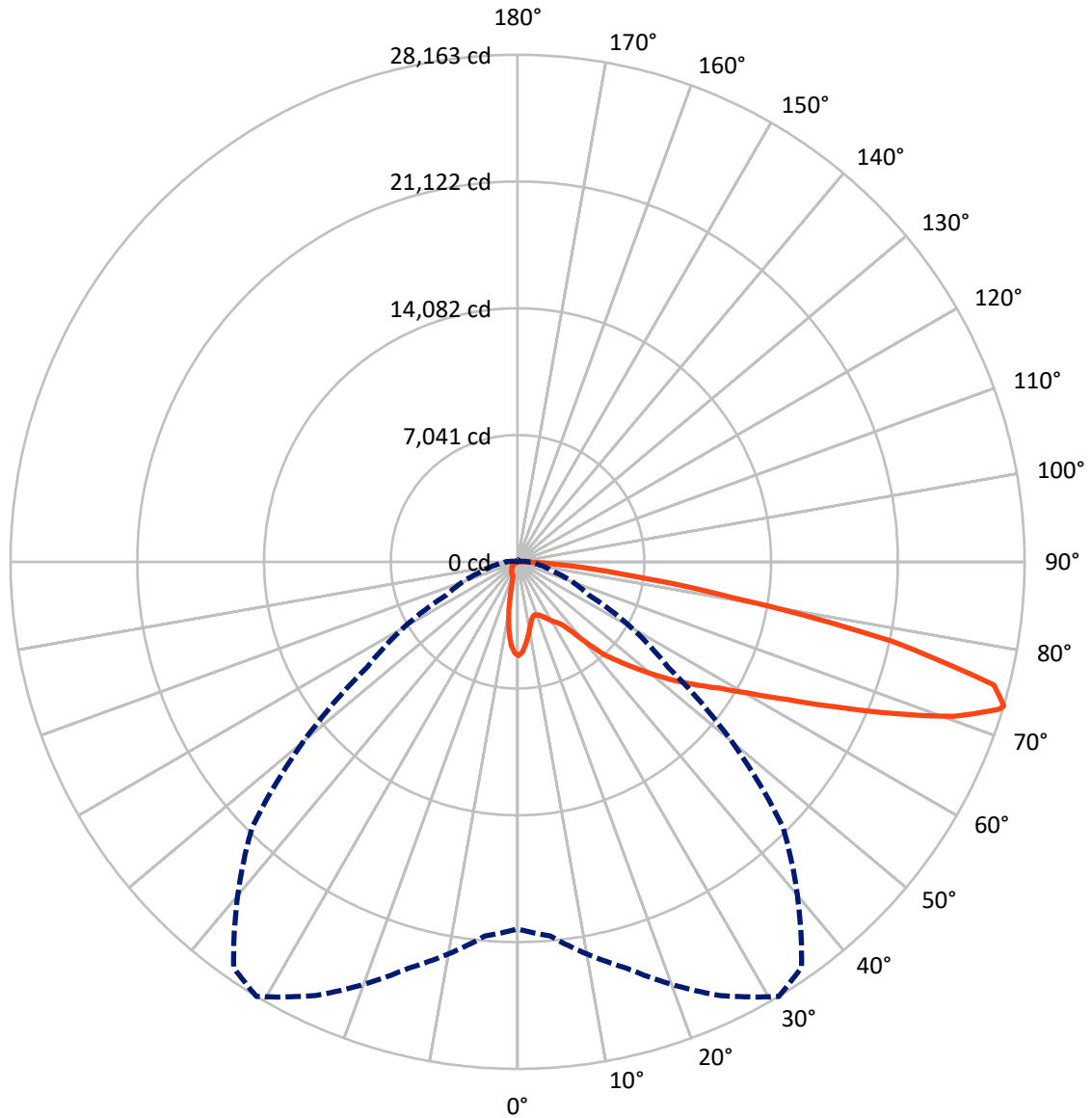
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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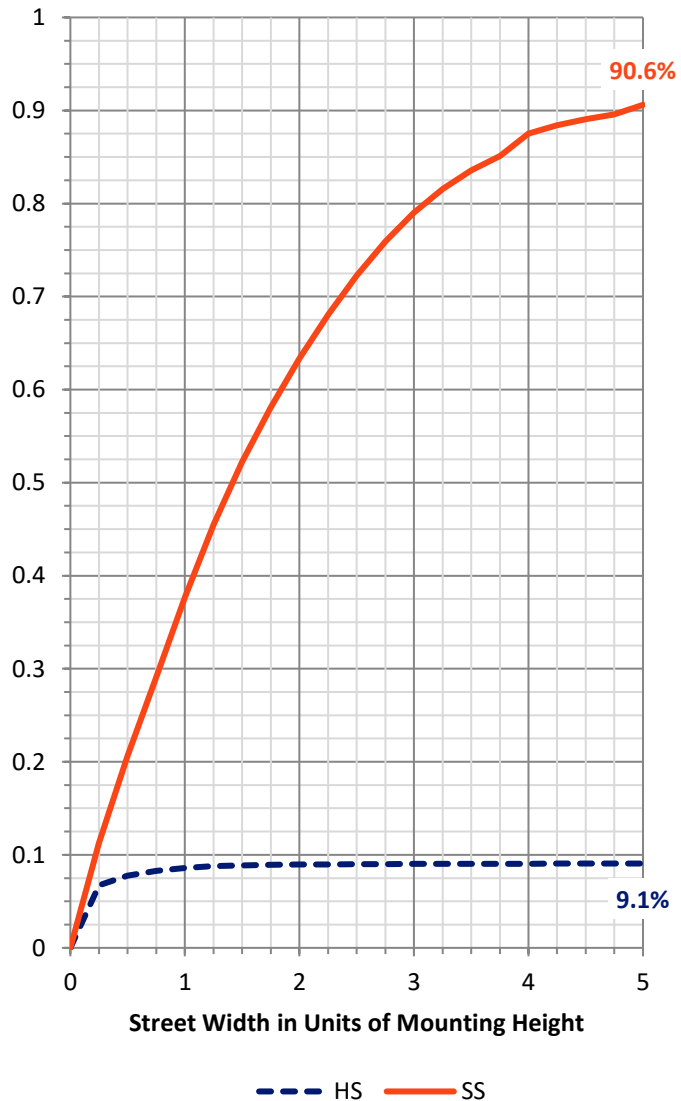
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2761.7	0.0	2761.7
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	27535.9	0.0	27535.9
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	30297.7	0.0	30297.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.2	1.4
10°-20°	938.5	3.1
20°-30°	1406.1	4.6
30°-40°	2237.1	7.4
40°-50°	3994.8	13.2
50°-60°	6198.8	20.5
60°-70°	8240.4	27.2
70°-80°	6198.5	20.5
80°-90°	651.3	2.1
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°	30297.7	100.0
0°-180°	30297.7	100.0

**Coefficient of Utilization**



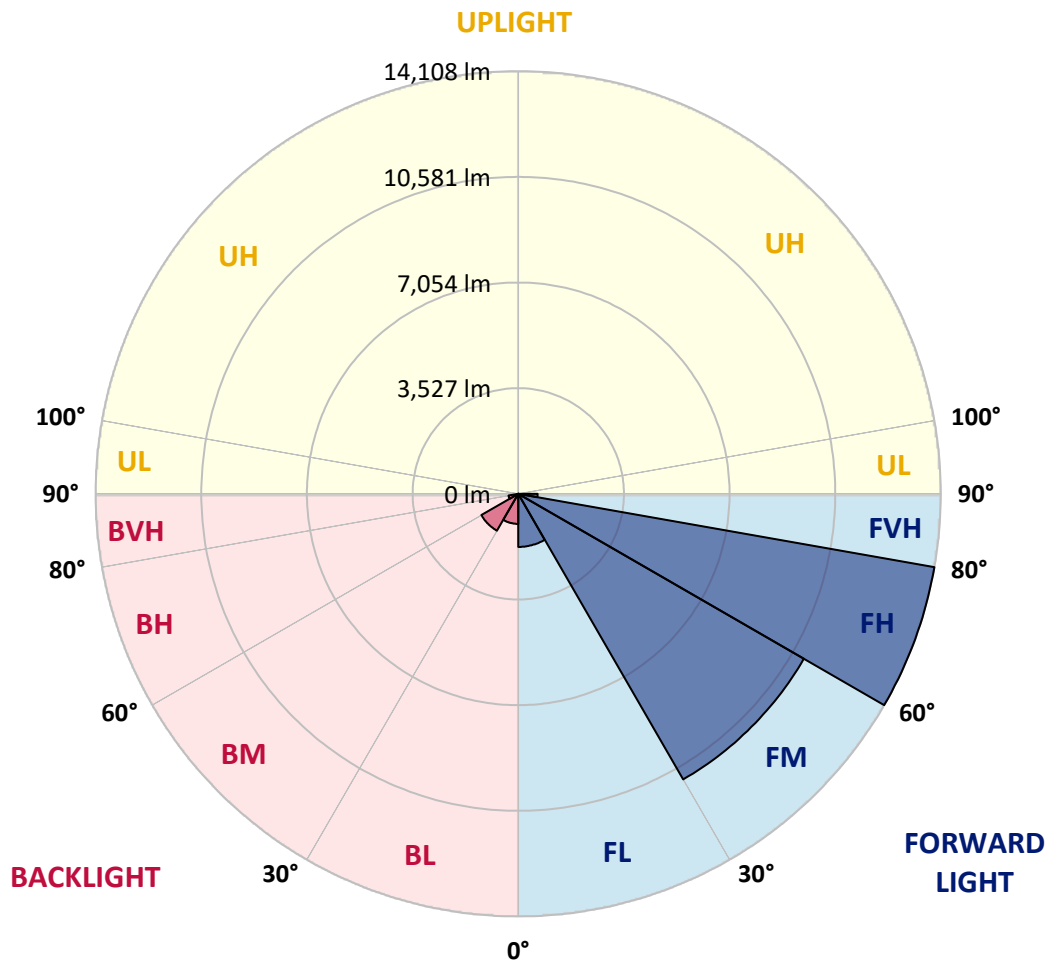
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.5	5.9			
FM (30°-60°)	11009.1	36.3			
FH (60°-80°)	14108.5	46.6			G5
FVH (80°-90°)	645.9	2.1			G4/750
BL (0°-30°)	1004.3	3.3	B3/2500		
BM (30°-60°)	1421.5	4.7	B2/2500		
BH (60°-80°)	330.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8
2.5°	4940.0	4960.8	4982.9	4987.4	5024.5	5026.0	5079.4	5119.4	5159.4	5197.9	5211.3
5°	4433.0	4467.1	4507.1	4547.1	4625.7	4656.8	4787.3	4920.7	5048.2	5169.8	5229.1
7.5°	3891.8	3930.3	3986.7	4086.0	4173.5	4234.3	4440.3	4677.6	4914.8	5138.6	5267.6
10°	3398.1	3433.7	3492.9	3598.2	3733.2	3816.2	4093.4	4422.5	4770.9	5110.5	5325.5
12.5°	3083.8	3103.1	3135.7	3248.3	3369.9	3463.3	3789.5	4197.2	4652.3	5109.0	5418.8
15°	3025.9	3031.9	3005.2	3055.6	3150.5	3240.9	3571.6	4014.9	4561.9	5132.7	5540.4
17.5°	3117.9	3114.9	3025.9	3020.0	3095.6	3169.8	3464.8	3888.8	4498.2	5187.6	5697.6
20°	3257.2	3246.9	3092.6	3064.5	3144.5	3214.2	3457.3	3841.4	4474.4	5279.5	5888.9
22.5°	3442.5	3424.7	3183.1	3153.5	3239.5	3312.1	3549.3	3887.3	4495.2	5402.5	6111.2
25°	3672.3	3645.7	3338.8	3306.2	3393.6	3466.3	3713.9	4019.3	4557.5	5552.3	6392.9
27.5°	3931.8	3893.3	3587.9	3503.4	3602.7	3678.3	3933.3	4220.9	4655.3	5710.9	6738.3
30°	4176.4	4126.0	3850.3	3710.9	3832.5	3917.0	4170.5	4461.1	4812.5	5955.6	7211.3
32.5°	4422.5	4366.3	4084.6	3918.5	4028.2	4120.1	4415.2	4791.7	5107.5	6329.1	7839.9
35°	4988.9	4929.6	4584.1	4309.9	4308.4	4360.3	4757.6	5243.9	5497.4	6849.6	8590.1
37.5°	5942.2	5908.1	5578.9	5058.6	4919.2	4861.4	5224.7	5783.6	6057.9	7565.7	9436.7
40°	6986.0	6956.3	6587.2	6115.7	5903.7	5761.3	5894.7	6535.3	6849.6	8440.4	10301.1
42.5°	8164.6	8023.8	7365.5	7224.6	7034.9	6926.6	6806.5	7461.9	7822.1	9392.1	11158.0
45°	9235.0	8997.8	8143.9	7930.4	7887.3	7914.1	7980.8	8707.3	8916.3	10523.4	12011.9
47.5°	9872.5	9685.8	9030.4	8825.9	8813.9	8990.4	9494.5	10114.2	10005.9	11509.4	12763.6
50°	10478.9	10309.9	9765.8	9816.2	9871.1	10111.2	11212.8	11561.3	11000.8	12403.3	13452.9
52.5°	10969.6	10711.7	10427.0	10710.2	10980.1	11367.0	12986.0	12859.9	11706.5	13115.0	14043.1
55°	11252.8	11135.7	11273.6	11558.3	12065.3	12693.9	14659.9	13940.8	12222.5	13764.4	14435.9
57.5°	12290.7	12060.8	12335.1	12581.2	13242.4	14121.6	16093.5	14745.8	12594.6	14166.1	14526.4
60°	13546.4	13361.1	13522.6	13931.9	14824.4	15857.7	17433.7	15402.6	12788.8	14424.1	14292.2
62.5°	15544.9	15300.3	15199.5	15657.6	16840.7	17968.9	18450.8	15857.7	12745.8	14310.0	13488.5
65°	18222.5	17968.9	17518.2	17933.4	19438.2	20234.3	19587.9	15954.1	12449.3	13386.2	11457.4
67.5°	20965.2	20781.4	20396.0	21095.7	22453.7	22710.3	20790.3	15719.9	11494.5	10854.0	8095.0
70°	22777.0	22698.4	22949.0	24496.8	25708.0	25634.0	21893.3	14461.2	8959.3	6674.6	4004.4
72.5°	21470.8	21847.4	23697.6	26504.2	27983.8	27378.9	21327.0	11104.6	5120.8	2567.8	1157.9
73°	20388.5	20870.4	23361.1	26579.8	28163.2	27500.5	20851.1	10192.8	4364.8	2026.7	877.7
75°	14183.9	14775.5	19340.3	24754.8	27324.1	26201.7	17380.3	6238.8	2022.2	898.5	354.4
77.5°	6886.7	7324.0	10649.5	17885.9	21249.9	20471.6	10819.9	2324.7	913.3	561.9	163.1
80°	2570.8	2858.5	4622.7	9103.1	12280.2	12602.0	4759.1	879.2	607.8	452.2	83.0
82.5°	673.1	750.2	1705.0	4059.3	6293.5	6587.2	1500.4	443.3	444.8	372.2	50.4
85°	215.0	246.1	532.3	1822.1	2965.2	2603.4	391.4	215.0	323.2	277.2	28.1
87.5°	26.6	34.1	169.0	428.5	653.9	363.2	60.8	63.7	137.9	154.2	16.3
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°	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8	5212.8
2.5°	5224.7	5217.2	5218.7	5180.1	5155.0	5104.5	5052.6	5029.0	5003.7	4993.4	5003.7
5°	5251.3	5238.0	5199.4	5080.8	4954.8	4791.7	4639.0	4523.4	4378.1	4338.0	4379.6
7.5°	5292.9	5266.1	5153.5	4911.8	4631.6	4320.2	3970.3	3715.4	3506.3	3371.4	3420.4
10°	5353.6	5303.2	5076.4	4665.7	4164.6	3613.1	3116.4	2729.4	2455.2	2342.5	2338.0
12.5°	5455.9	5361.1	4981.5	4345.5	3593.8	2858.5	2207.6	1788.0	1565.7	1421.8	1418.8
15°	5568.6	5429.2	4861.4	3961.5	2929.6	2047.4	1421.8	1103.0	959.2	913.3	907.3
17.5°	5706.5	5507.8	4705.7	3488.6	2234.2	1356.6	928.1	836.2	830.3	825.8	825.8
20°	5879.9	5601.2	4505.6	2947.4	1584.8	905.8	788.7	794.7	797.6	791.7	793.2
22.5°	6081.6	5696.1	4266.9	2366.2	1071.9	757.6	754.6	762.0	765.0	762.0	763.5
25°	6315.8	5805.8	3976.3	1756.9	773.9	719.1	726.4	736.9	744.2	744.2	744.2
27.5°	6606.4	5939.3	3626.4	1226.1	668.7	679.0	699.8	719.1	729.4	732.4	732.4
30°	6984.5	6105.3	3206.9	840.6	607.8	625.6	664.2	701.3	720.6	723.5	725.0
32.5°	7461.9	6292.1	2720.6	621.2	555.9	569.3	610.8	673.1	710.1	716.1	716.1
35°	8008.9	6508.5	2197.1	541.1	518.9	523.3	555.9	627.1	692.3	708.7	710.1
37.5°	8607.9	6722.0	1670.9	505.6	487.8	487.8	511.5	572.2	649.4	699.8	705.7
40°	9166.8	6851.1	1171.2	477.4	459.6	459.6	480.4	524.8	597.5	673.1	689.4
42.5°	9682.8	6895.5	815.4	450.7	432.9	437.4	455.2	490.7	545.6	621.2	636.1
45°	10213.6	6888.1	594.5	419.6	406.2	419.6	432.9	459.6	499.6	542.6	545.6
47.5°	10613.9	6825.8	471.5	389.9	381.0	398.8	410.7	428.5	450.7	447.7	447.7
50°	10988.9	6674.6	379.5	349.9	355.9	376.5	382.5	388.5	389.9	361.7	358.8
52.5°	11273.6	6438.9	304.0	306.9	330.6	351.4	345.4	336.6	321.8	287.7	281.7
55°	11368.5	5985.2	238.7	253.6	293.5	320.3	298.0	278.7	250.6	222.4	216.5
57.5°	11196.5	5399.6	194.2	197.2	247.6	269.9	244.6	222.4	191.2	167.5	163.1
60°	10831.8	4748.8	160.1	148.3	191.2	210.5	194.2	172.0	143.8	126.0	124.5
62.5°	10108.3	4054.8	131.9	115.6	145.3	161.6	151.2	134.9	111.2	99.3	97.8
65°	8587.1	3243.9	106.8	93.4	112.7	126.0	117.1	105.3	87.5	78.6	77.1
67.5°	5994.1	2192.8	87.5	77.1	89.0	99.3	91.9	86.0	69.7	68.2	69.7
70°	2891.1	1057.1	72.7	62.2	69.7	77.1	74.2	69.7	66.7	77.1	89.0
72.5°	828.8	354.4	57.8	51.9	56.4	60.8	63.7	62.2	72.7	93.4	108.2
73°	637.6	286.2	54.9	48.9	53.4	59.3	62.2	60.8	74.2	94.9	108.2
75°	272.8	137.9	41.5	40.1	44.4	51.9	54.9	54.9	74.2	96.3	103.8
77.5°	123.1	74.2	26.6	31.1	38.6	41.5	45.9	45.9	59.3	74.2	74.2
80°	69.7	40.1	20.8	23.8	28.1	28.1	28.1	25.2	26.6	29.6	32.6
82.5°	44.4	26.6	16.3	19.3	17.8	14.8	11.8	11.8	10.3	11.8	14.8
85°	25.2	14.8	14.8	11.8	7.5	6.0	7.5	6.0	1.5	0.0	1.5
87.5°	14.8	8.8	4.5	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)