

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: P383220

Luminaire Tested: **GLEON-SA5C-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27277.6 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

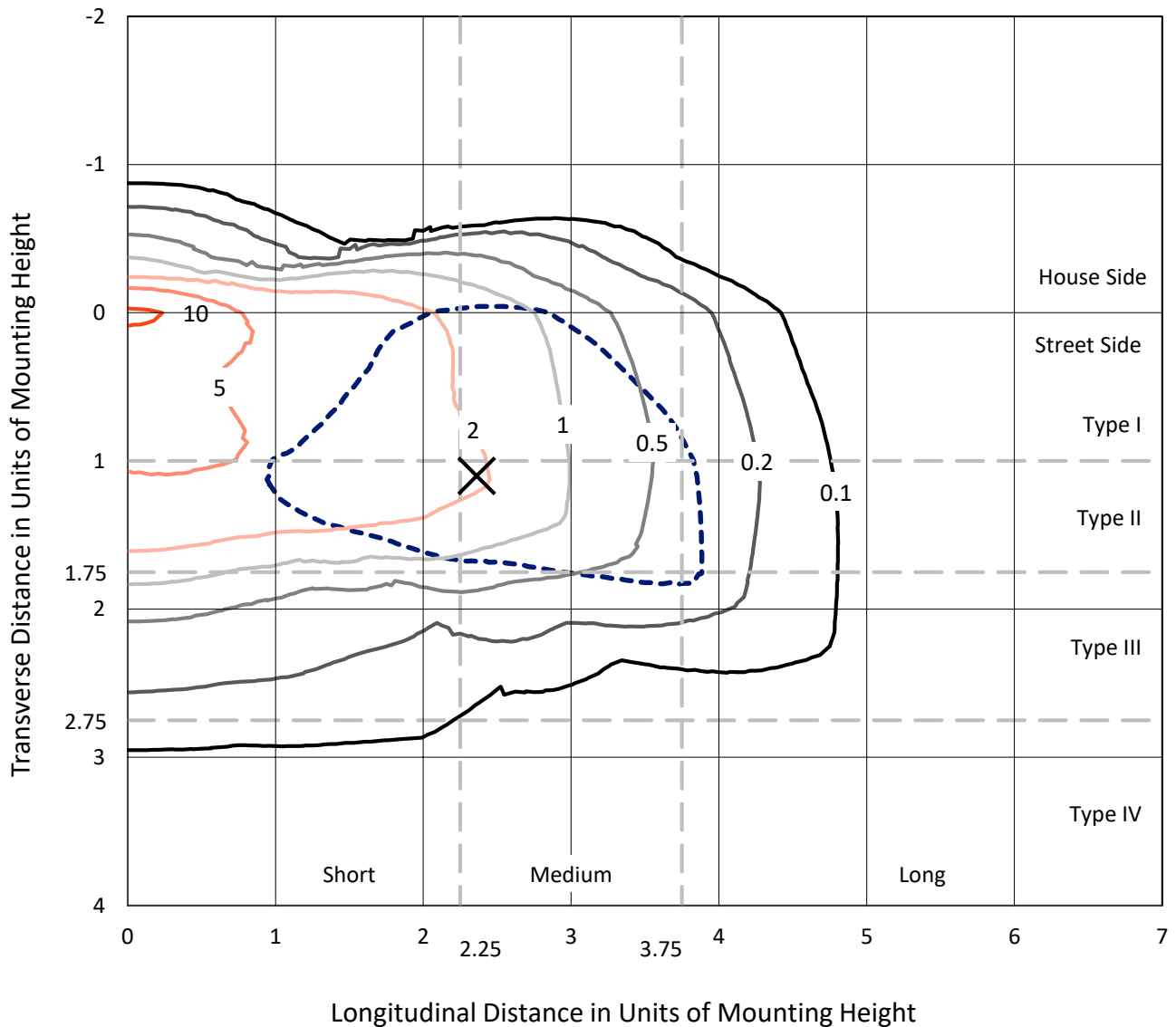
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

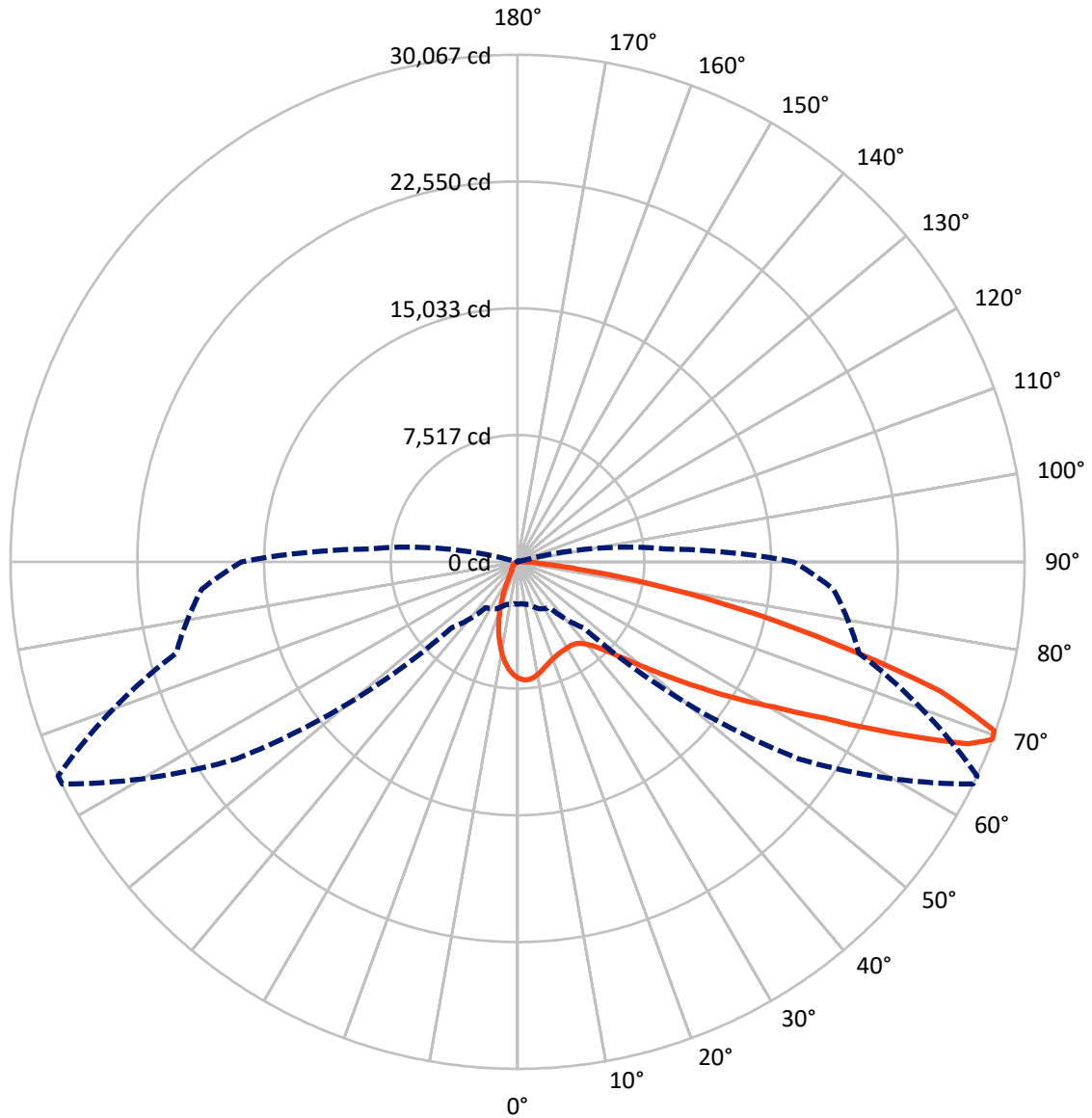
✕ Max cd  
 - - - 1/2 Max cd



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 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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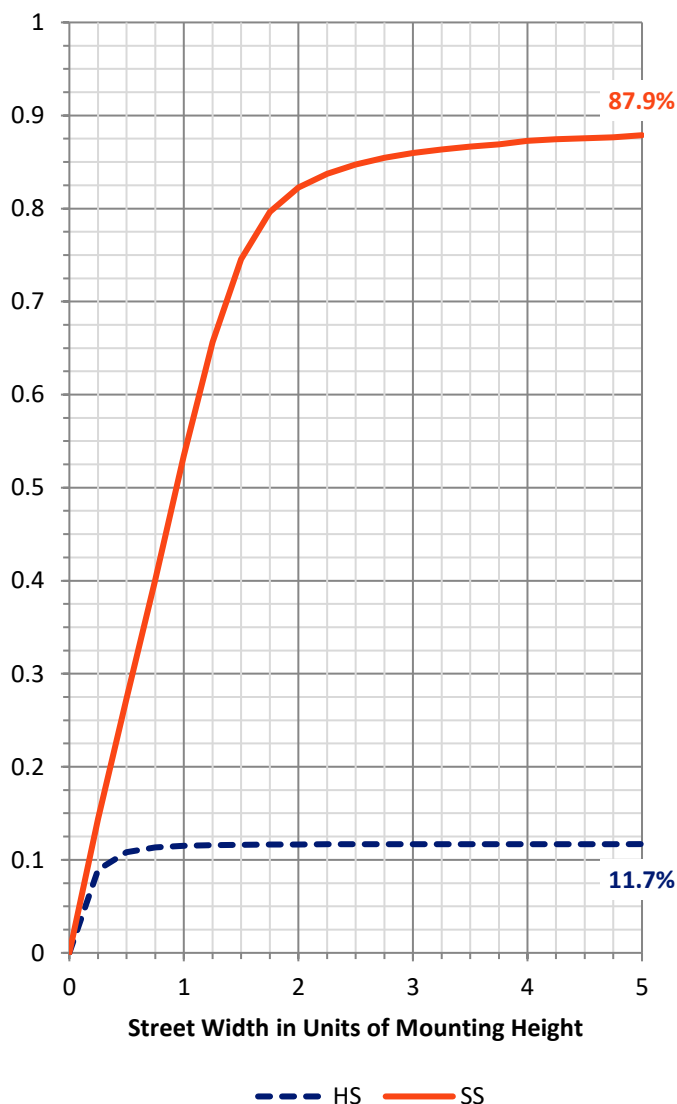
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3215.4	0.0	3215.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	24062.2	0.0	24062.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	27277.6	0.0	27277.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.4	2.1
10°-20°	1261.8	4.6
20°-30°	1747.6	6.4
30°-40°	2436.7	8.9
40°-50°	3787.5	13.9
50°-60°	6080.4	22.3
60°-70°	6877.9	25.2
70°-80°	4039.4	14.8
80°-90°	469.9	1.7
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°	27277.6	100.0
0°-180°	27277.6	100.0

**Coefficient of Utilization**

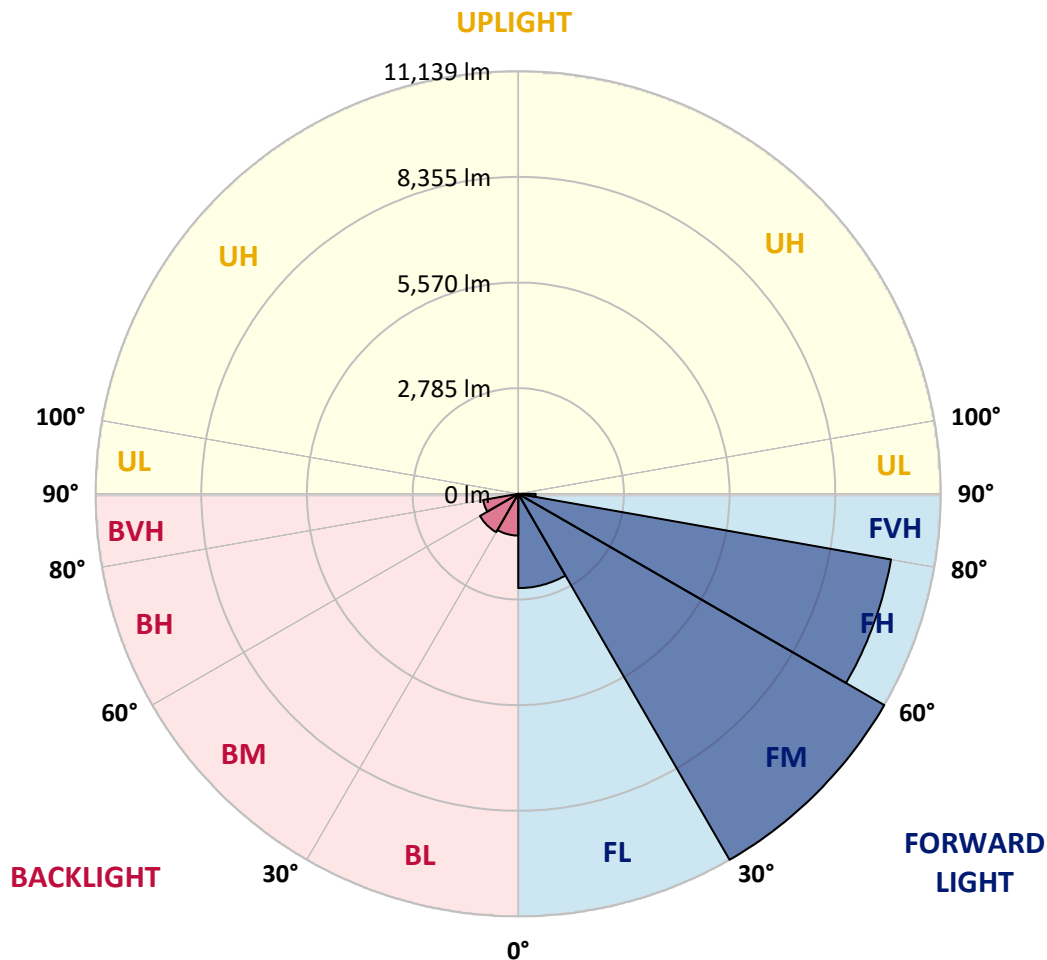


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2485.6	9.1			
FM (30°-60°)	11139.4	40.8			
FH (60°-80°)	9977.9	36.6			G4/12000
FVH (80°-90°)	459.3	1.7			G3/500
BL (0°-30°)	1100.2	4.0	B3/2500		
BM (30°-60°)	1165.2	4.3	B2/2500		
BH (60°-80°)	939.5	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			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°	64°	65°	75°	85°
0°	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1
2.5°	6954.3	6937.0	6950.8	6980.8	6995.8	6995.8	7007.4	6993.5	6998.2	6964.6	6916.2
5°	6519.2	6492.6	6530.7	6614.9	6718.8	6807.7	6939.3	7008.5	7015.5	7016.6	6960.1
7.5°	6050.5	6026.3	6082.8	6182.1	6316.0	6481.1	6710.7	6911.5	6923.1	7031.6	6990.1
10°	5669.6	5652.3	5718.1	5824.3	5981.3	6165.9	6447.5	6726.9	6760.3	7000.4	6985.4
12.5°	5367.2	5353.3	5415.6	5538.1	5698.5	5902.8	6197.1	6521.4	6566.5	6930.1	6962.4
15°	5146.7	5144.5	5196.4	5314.1	5491.8	5682.3	5983.5	6331.0	6383.0	6853.9	6958.8
17.5°	5031.3	5034.7	5072.8	5173.3	5325.7	5514.9	5803.4	6170.6	6227.1	6785.8	6976.2
20°	5019.7	5023.3	5044.1	5100.6	5224.0	5391.4	5656.9	6035.5	6094.4	6735.0	7003.9
22.5°	5121.4	5119.0	5124.8	5119.0	5188.3	5315.2	5559.9	5931.6	5999.7	6701.5	7025.8
25°	5316.4	5313.0	5310.7	5267.9	5221.8	5289.9	5519.5	5872.8	5937.4	6677.2	7038.5
27.5°	5587.6	5585.4	5581.9	5511.5	5373.0	5330.2	5524.2	5850.8	5905.1	6657.6	7036.3
30°	5944.3	5960.5	5955.8	5857.8	5641.9	5453.7	5572.6	5839.3	5886.6	6619.6	7011.9
32.5°	6363.3	6395.6	6421.0	6316.0	6045.8	5698.5	5684.6	5852.0	5886.6	6590.7	6968.2
35°	6798.4	6840.0	6933.5	6896.5	6541.0	6066.7	5877.3	5928.2	5957.0	6606.8	6947.3
37.5°	7226.7	7276.3	7479.5	7586.8	7189.7	6553.7	6177.5	6116.3	6131.3	6704.9	6970.4
40°	7724.1	7799.2	8107.4	8280.5	7964.3	7205.9	6626.5	6439.5	6445.3	6920.7	7077.8
42.5°	8377.4	8454.7	8788.3	9059.6	8836.8	8030.0	7235.9	6933.5	6927.7	7324.8	7330.5
45°	9173.9	9254.6	9599.8	9901.0	9800.6	9006.5	8016.2	7654.9	7648.0	7961.9	7809.5
47.5°	10076.5	10156.1	10464.3	10774.7	10883.3	10146.9	9009.9	8639.5	8623.3	8847.2	8549.5
50°	10850.9	10902.9	11186.9	11604.7	12094.1	11548.1	10246.2	9889.5	9872.2	10023.4	9635.6
52.5°	11132.6	11162.6	11451.1	12036.3	13257.5	13445.7	11870.2	11410.8	11398.0	11463.9	11081.8
55°	10562.4	10616.7	10971.0	11838.9	13887.8	15590.3	13920.1	13294.5	13198.6	13056.7	12593.9
57.5°	9008.8	9095.4	9476.3	10630.5	13593.4	17291.6	16932.6	15425.2	15284.4	14416.4	13823.1
60°	6750.0	6856.2	7172.5	8417.8	12022.6	17897.5	20224.6	17799.5	17482.1	15499.1	14953.1
62.5°	4631.9	4685.0	4899.8	5711.1	8854.2	16904.9	22978.5	20979.4	20400.0	16676.4	16175.5
65°	3537.7	3556.2	3643.9	3923.2	5272.6	13731.9	24073.9	25175.0	24474.4	18084.6	17444.0
67.5°	2851.0	2835.9	2957.1	3356.6	3530.8	8377.4	22796.2	29144.4	28816.6	19967.1	18720.6
69°	2514.0	2493.2	2616.6	3080.6	3316.1	5538.1	20379.2	30045.9	30066.6	20960.9	18808.2
70°	2262.3	2276.1	2398.5	2916.8	3243.4	4346.9	18070.7	29816.2	29980.1	21332.5	18281.9
72.5°	1510.9	1547.9	1793.7	2421.6	3118.7	3289.6	10910.9	25585.9	26216.2	20495.7	15684.9
75°	851.8	879.6	1171.5	1826.0	2938.7	3132.6	5763.1	18849.8	19459.3	17139.3	12095.2
77.5°	417.8	432.8	662.5	1178.5	2457.3	2984.9	3268.8	12803.9	13499.9	11186.9	6841.2
80°	176.6	184.6	331.3	727.2	1756.7	2848.7	2427.3	7880.0	7966.5	4382.7	1822.6
82.5°	68.1	70.4	139.6	453.6	1116.2	2220.7	2030.3	3736.3	3646.3	825.3	415.6
85°	8.1	9.2	50.8	272.4	621.0	1142.7	1649.4	1610.2	1490.1	163.9	213.5
87.5°	0.0	0.0	3.4	83.1	184.6	535.5	857.6	668.3	602.5	53.1	110.8
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°	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1	6893.1
2.5°	6875.8	6864.2	6801.9	6711.9	6626.5	6520.3	6418.7	6357.5	6309.1	6276.8	6314.8
5°	6894.3	6843.4	6654.1	6411.7	6174.0	5906.2	5656.9	5445.6	5362.5	5270.2	5311.8
7.5°	6888.5	6792.7	6452.2	6020.5	5584.2	5132.9	4705.8	4376.9	4206.0	4038.6	4081.4
10°	6859.6	6698.0	6182.1	5542.6	4889.3	4240.7	3634.7	3174.2	2916.8	2683.6	2717.0
12.5°	6796.1	6571.0	5863.5	4995.5	4121.8	3266.5	2556.6	1966.8	1650.5	1510.9	1528.2
15°	6758.0	6447.5	5526.5	4441.5	3302.2	2275.0	1562.9	1162.3	1018.0	971.9	977.7
17.5°	6739.6	6328.7	5177.9	3807.8	2464.3	1448.6	1010.0	891.0	859.9	851.8	854.1
20°	6721.1	6208.7	4818.9	3181.0	1697.8	974.2	829.9	795.3	783.7	773.4	775.6
22.5°	6689.9	6093.3	4433.4	2546.2	1145.0	790.6	747.9	714.5	690.3	677.5	679.8
25°	6651.9	5972.0	4039.8	1896.4	835.7	705.3	664.8	617.5	588.6	565.5	566.8
27.5°	6590.7	5823.1	3633.5	1380.5	701.7	631.4	577.1	525.2	476.7	450.1	450.1
30°	6505.3	5654.6	3182.3	988.0	629.1	558.6	492.9	428.2	376.3	352.0	349.7
32.5°	6410.6	5479.2	2726.3	749.1	571.3	490.6	415.6	347.5	301.3	281.6	280.5
35°	6329.9	5289.9	2271.6	627.9	513.7	424.8	342.8	285.1	248.2	232.0	230.8
37.5°	6277.9	5100.6	1828.3	561.0	461.7	363.6	287.4	235.5	208.9	196.2	195.1
40°	6269.8	4959.7	1423.1	510.2	413.2	309.4	240.1	199.7	175.4	161.6	160.4
42.5°	6374.9	4879.0	1091.9	467.5	363.6	262.0	204.3	170.8	145.4	131.6	130.4
45°	6650.7	4904.3	840.3	429.4	313.9	221.6	173.2	142.0	118.9	108.5	106.2
47.5°	7153.9	5079.8	668.3	391.2	266.6	188.2	147.7	117.7	98.1	87.8	86.5
50°	8049.6	5491.8	558.6	349.7	222.7	160.4	122.3	95.8	79.6	70.4	69.2
52.5°	9238.5	6225.9	498.7	309.4	184.6	136.2	100.4	76.2	62.3	55.4	54.2
55°	10549.7	7114.7	459.3	265.5	151.2	113.1	79.6	60.0	48.4	42.7	40.4
57.5°	11829.7	7884.6	422.5	222.7	125.9	92.3	63.4	47.3	38.1	32.3	31.2
60°	13005.9	8592.1	379.7	179.0	102.7	72.8	49.7	36.9	30.0	24.2	24.2
62.5°	14265.2	9139.2	320.9	139.6	84.3	55.4	40.4	33.4	24.2	20.8	19.7
65°	15599.5	9545.6	251.6	108.5	65.8	41.5	33.4	34.7	19.7	15.0	13.9
67.5°	16585.2	9464.7	185.8	85.4	50.8	32.3	32.3	36.9	17.3	11.6	10.4
69°	16368.2	8808.0	155.8	73.9	43.9	27.7	30.0	36.9	16.1	10.4	9.2
70°	15739.1	8080.8	137.3	65.8	39.2	25.4	28.9	35.8	15.0	10.4	9.2
72.5°	13107.5	6086.3	107.3	49.7	31.2	20.8	24.2	31.2	15.0	10.4	8.1
75°	9859.5	3895.5	82.0	35.8	23.1	16.1	18.4	23.1	15.0	9.2	8.1
77.5°	5364.9	1404.7	58.9	24.2	16.1	12.7	12.7	17.3	13.9	6.9	4.7
80°	1379.3	353.1	36.9	16.1	12.7	9.2	8.1	11.6	8.1	1.1	0.0
82.5°	340.5	79.6	19.7	11.6	9.2	3.4	3.4	5.8	3.4	0.0	0.0
85°	187.0	39.2	12.7	8.1	4.7	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	95.8	11.6	3.4	2.3	1.1	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)