

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: P269709

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL2-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 800mA 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: 34255.7 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
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: 25 FT

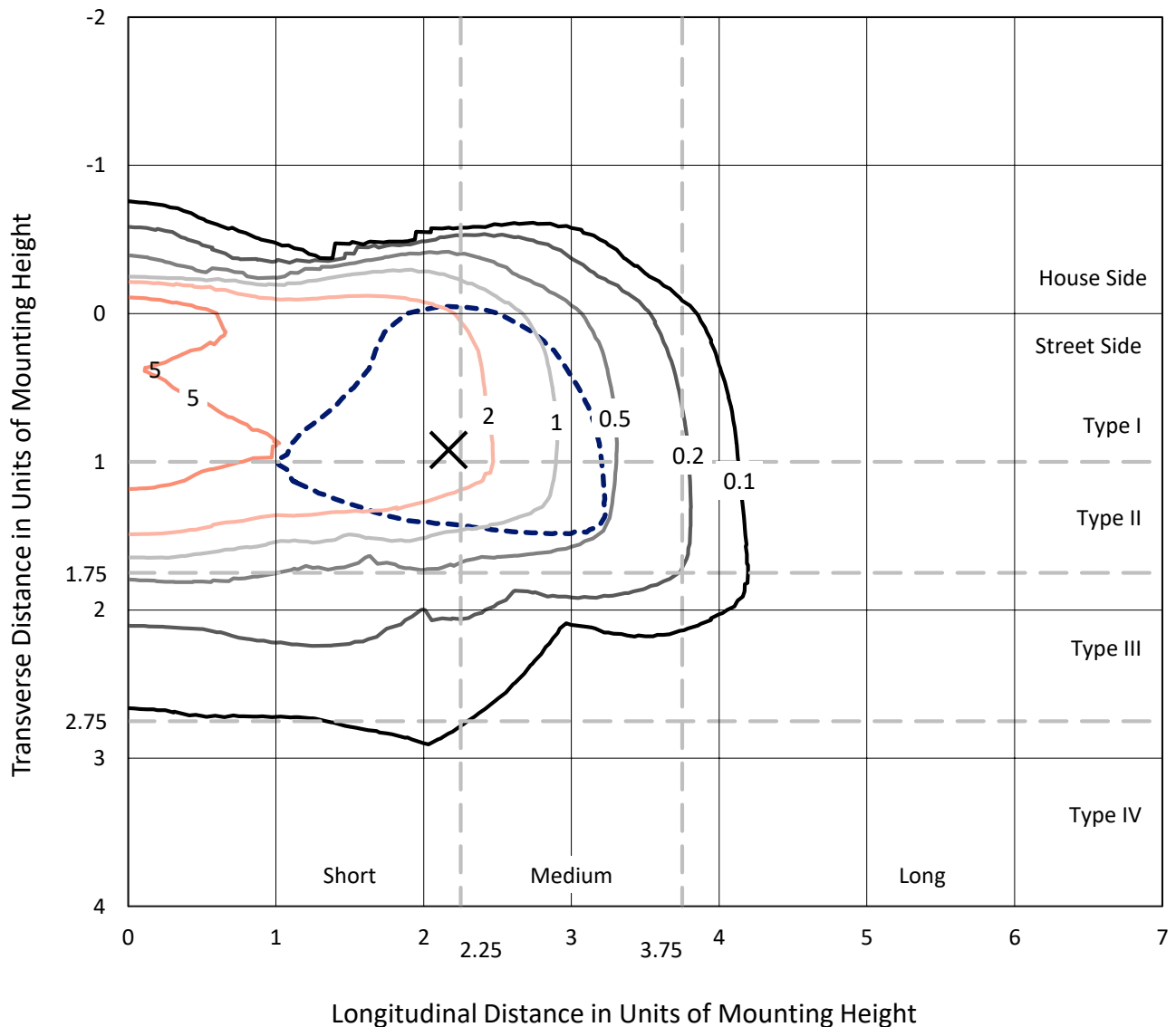


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

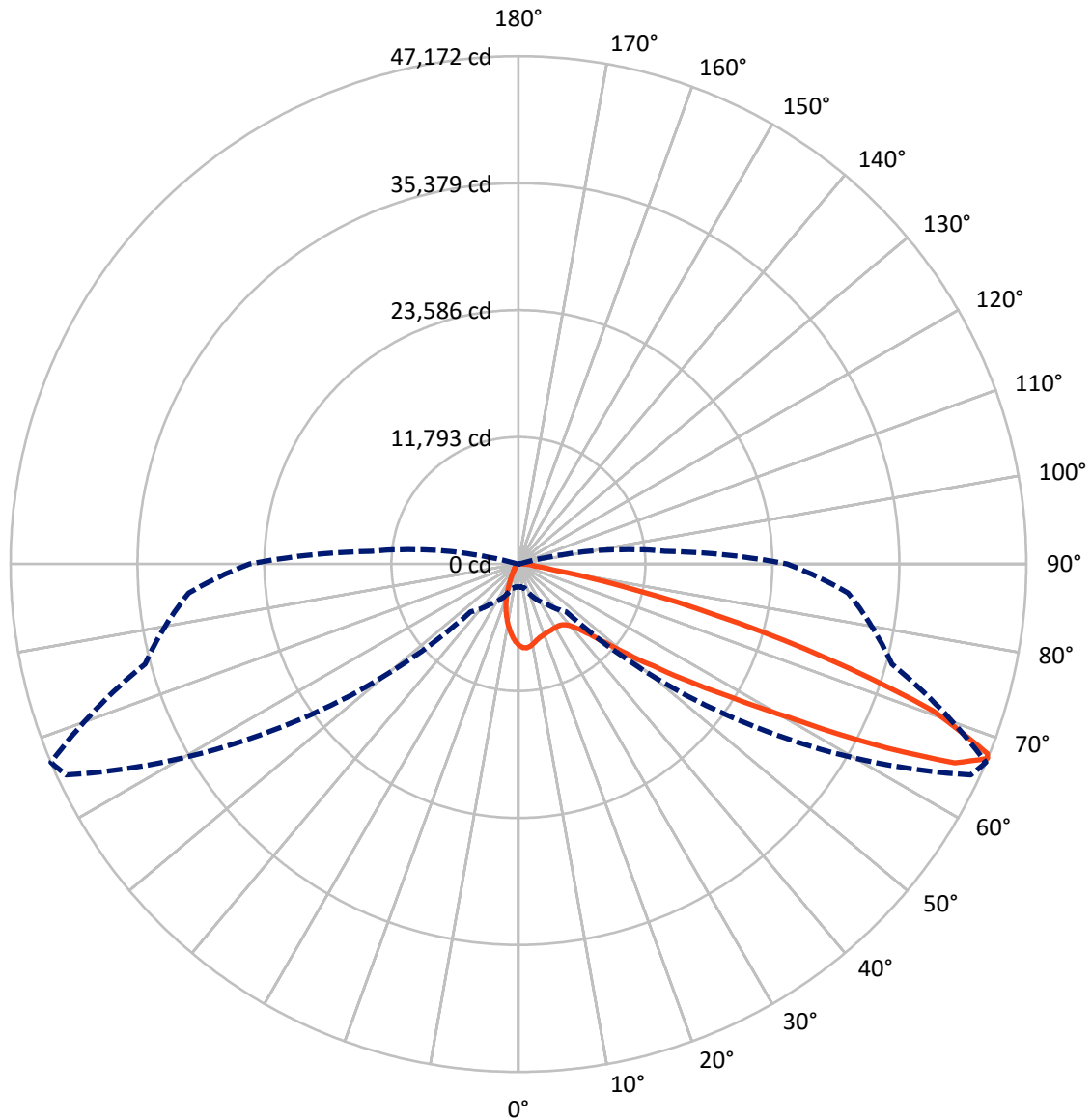


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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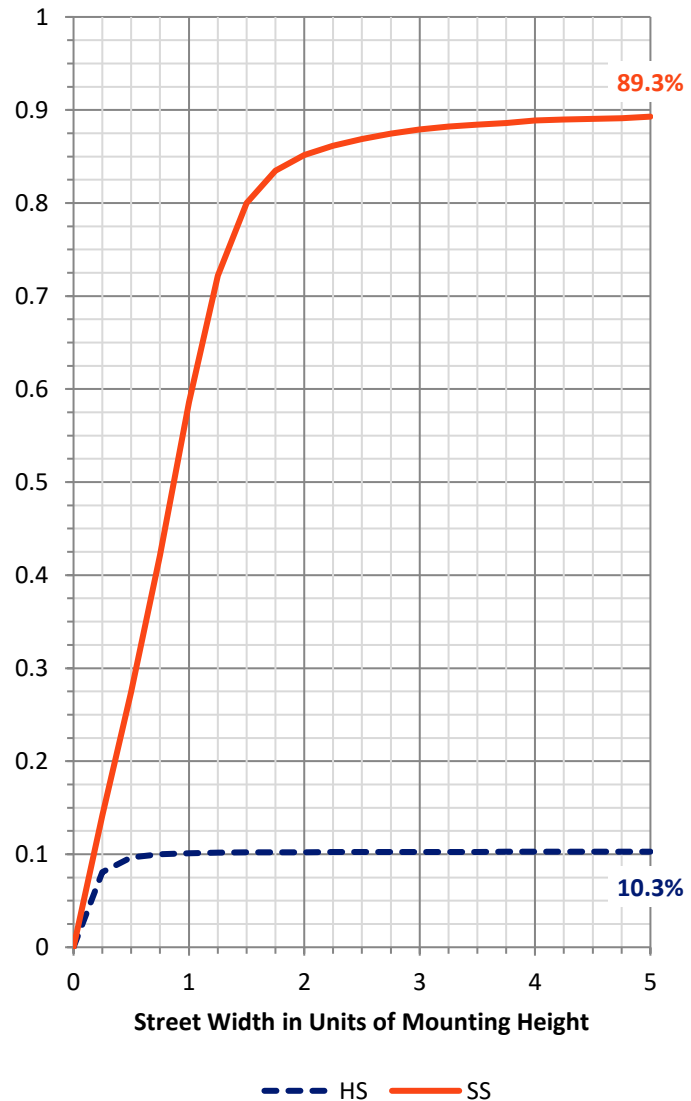
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3556.8	0.0	3556.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	30698.9	0.0	30698.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	34255.7	0.0	34255.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.7	1.8
10°-20°	1308.3	3.8
20°-30°	1902.2	5.6
30°-40°	2967.5	8.7
40°-50°	5256.8	15.3
50°-60°	8318.4	24.3
60°-70°	9527.6	27.8
70°-80°	3952.0	11.5
80°-90°	408.2	1.2
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°	34255.7	100.0
0°-180°	34255.7	100.0



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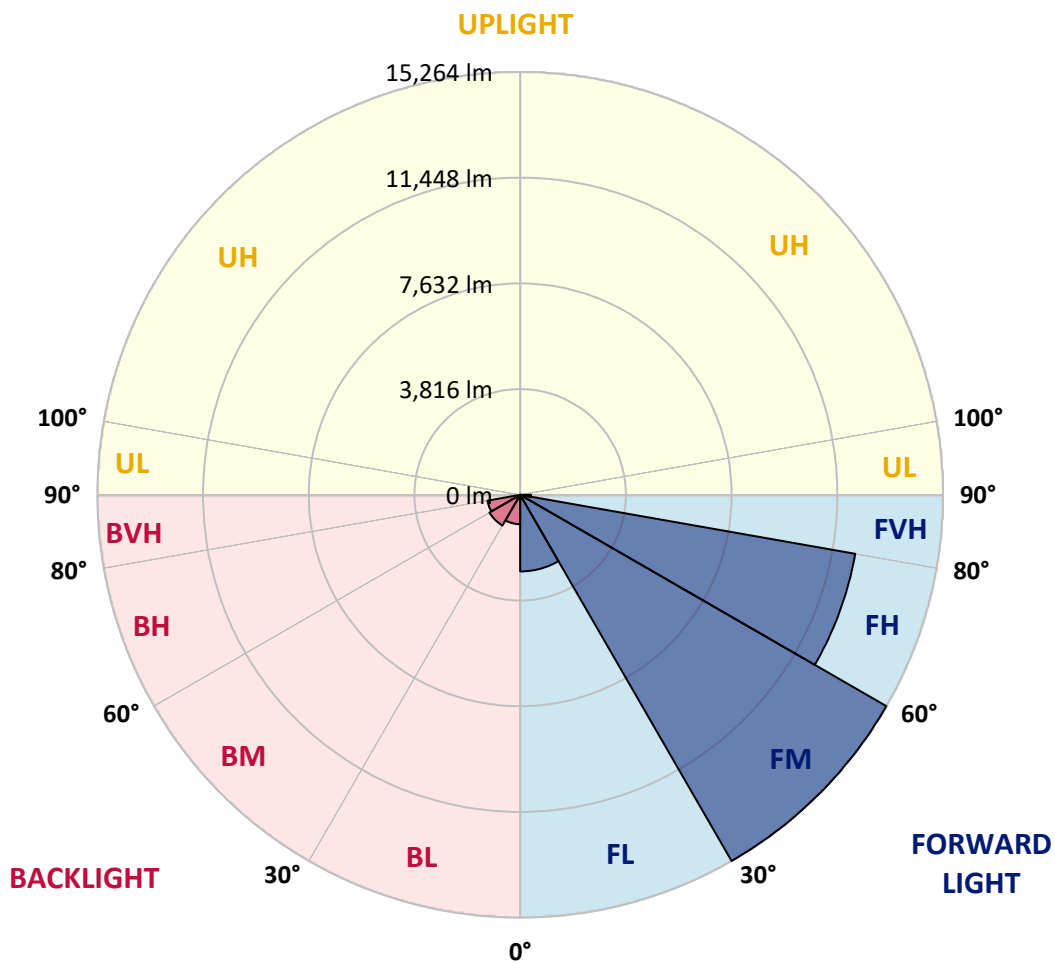
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2763.9	8.1			
FM	(30°-60°)	15264.4	44.6			
FH	(60°-80°)	12280.7	35.9			G5
FVH	(80°-90°)	389.8	1.1			G3/500
BL	(0°-30°)	1061.3	3.1	B3/2500		
BM	(30°-60°)	1278.3	3.7	B2/2500		
BH	(60°-80°)	1198.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	18.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7
2.5°	7810.5	7826.4	7824.3	7836.4	7864.3	7866.4	7838.4	7784.4	7772.5	7702.4	7580.5
5°	7203.0	7249.0	7276.9	7390.7	7518.6	7672.6	7788.5	7830.3	7824.3	7774.4	7590.6
7.5°	6509.7	6555.7	6587.6	6721.5	6891.3	7155.0	7456.7	7704.6	7726.5	7780.4	7582.7
10°	6048.1	6056.2	6100.1	6227.9	6405.8	6675.5	7035.2	7468.7	7534.7	7732.5	7562.7
12.5°	5668.5	5674.5	5732.4	5870.2	6060.1	6331.9	6709.5	7211.0	7312.9	7672.6	7558.7
15°	5398.8	5420.7	5472.7	5616.6	5818.3	6088.1	6475.7	7021.2	7143.1	7650.5	7594.6
17.5°	5308.9	5332.8	5348.8	5452.7	5636.5	5900.2	6297.8	6897.2	7035.2	7662.5	7664.5
20°	5402.8	5420.7	5384.8	5410.8	5524.7	5760.4	6148.0	6791.4	6955.2	7676.6	7754.4
22.5°	5752.3	5760.4	5662.5	5548.7	5528.6	5658.6	6030.1	6707.5	6883.4	7714.5	7860.3
25°	6351.8	6337.8	6178.0	5932.1	5700.5	5640.5	5960.2	6655.5	6847.3	7754.4	7970.2
27.5°	7075.1	7095.2	6875.3	6517.7	6076.0	5760.4	5950.3	6633.5	6831.3	7782.5	8066.2
30°	7954.2	7982.2	7730.5	7280.9	6647.5	6056.2	6042.1	6629.5	6821.4	7764.4	8074.1
32.5°	8851.4	8885.3	8687.6	8224.1	7410.7	6551.6	6249.9	6673.5	6841.3	7702.4	8028.2
35°	9790.4	9838.3	9706.5	9309.0	8445.8	7266.8	6615.6	6807.4	6935.3	7696.5	7982.2
37.5°	11087.2	11131.2	10883.3	10461.8	9698.6	8226.0	7203.0	7059.2	7157.1	7792.3	7994.1
40°	13023.3	13017.2	12377.9	11732.6	11075.3	9444.8	8028.2	7514.7	7564.6	8082.1	8142.1
42.5°	15133.2	15123.2	14178.2	13197.1	12603.7	10945.4	9113.1	8302.0	8267.9	8615.6	8525.8
45°	16759.7	16757.7	15986.4	14881.5	14443.9	12667.7	10515.7	9396.8	9344.9	9482.8	9233.0
47.5°	17453.0	17464.9	17077.4	16300.1	16484.0	14997.5	12284.1	10983.2	10905.3	10849.4	10469.7
50°	16913.5	16937.5	16969.4	16817.6	17980.5	18128.3	14655.7	13219.1	13181.2	12931.5	12338.0
52.5°	15151.3	15273.2	15648.7	16130.2	18500.0	21133.4	18374.1	15996.4	15792.7	15526.8	14873.4
55°	12182.2	12316.0	13029.2	14198.3	17726.8	23107.6	23585.0	19576.9	19237.3	18444.0	17501.0
57.5°	8062.2	8269.9	9305.0	10791.5	15480.9	23425.2	28783.9	24546.0	23363.3	21191.3	20128.4
60°	4441.7	4641.5	5764.3	7111.1	11181.2	21854.8	32280.6	31015.8	28925.9	24262.3	23319.3
62.5°	2735.2	2843.2	3672.5	4925.1	6705.5	17249.3	33003.9	39145.9	36726.2	28216.5	27173.5
65°	2177.9	2223.8	2629.5	4026.1	4807.3	10260.0	30668.1	45343.8	44536.6	33003.9	30624.2
67°	2113.9	2131.9	2323.7	3456.7	4531.6	6289.8	25693.0	46352.8	47172.1	35901.0	30732.1
67.5°	2127.9	2147.8	2329.8	3298.8	4523.5	5780.4	23978.6	45955.2	46990.2	36130.8	30254.6
70°	2052.0	2113.9	2667.3	3296.8	4301.9	4803.2	14360.0	39817.3	40894.1	33571.3	25671.0
72.5°	727.3	731.3	1152.9	2667.3	4677.5	4855.2	7211.0	29189.5	29986.9	25680.9	18508.0
75°	431.5	367.6	383.7	759.2	4469.6	4715.5	4160.0	18651.8	18949.6	14715.7	9372.8
77.5°	297.7	259.7	267.8	335.6	1702.4	4649.4	3304.8	9726.5	9408.8	5160.9	1996.0
80°	169.8	149.8	159.9	293.7	619.4	4337.7	3116.9	3944.2	3362.7	875.2	551.5
82.5°	89.9	75.9	91.8	241.7	431.5	2703.4	3123.0	1906.2	1510.5	295.7	375.6
85°	32.0	26.1	43.9	165.8	287.6	829.1	2895.1	1602.4	1258.7	143.9	285.8
87.5°	6.0	6.0	18.0	67.9	115.9	253.7	1712.3	951.0	637.3	85.9	195.8
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°	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7	7554.7
2.5°	7530.8	7444.8	7328.8	7187.0	7019.1	6871.3	6761.5	6647.5	6623.6	6583.6	6577.6
5°	7480.7	7332.9	7045.1	6715.5	6363.9	6046.1	5788.4	5558.6	5456.7	5368.8	5358.7
7.5°	7406.7	7185.1	6695.4	6164.0	5614.5	5114.9	4691.4	4391.8	4115.9	3984.2	3964.1
10°	7320.8	7003.1	6301.9	5564.6	4805.4	4100.0	3470.6	2943.1	2623.4	2433.6	2409.7
12.5°	7241.0	6825.3	5900.2	4943.3	3934.1	2991.0	2181.9	1678.4	1342.6	1206.9	1190.9
15°	7203.0	6681.6	5524.7	4307.8	3023.1	1904.1	1192.8	923.1	813.2	781.3	779.2
17.5°	7198.9	6559.7	5157.0	3650.4	2117.9	1106.9	777.3	709.3	687.4	679.4	679.4
20°	7197.0	6443.7	4789.4	2969.1	1344.8	737.2	647.4	631.4	615.3	605.4	605.4
22.5°	7219.0	6339.8	4405.6	2273.8	847.2	597.5	569.4	553.4	533.5	519.5	517.6
25°	7241.0	6259.8	4014.0	1618.4	613.5	519.5	491.6	469.5	441.5	423.6	421.6
27.5°	7244.9	6159.9	3594.5	1082.9	513.6	453.6	417.6	383.7	351.6	333.7	331.7
30°	7185.1	5992.1	3128.9	731.3	453.6	393.5	345.7	309.6	279.7	265.8	265.8
32.5°	7067.1	5784.4	2617.4	551.5	403.6	337.7	285.8	251.7	231.8	225.7	223.8
35°	6961.2	5560.6	2092.0	467.6	361.7	285.8	233.7	211.8	199.9	197.7	195.8
37.5°	6899.3	5380.8	1598.4	423.6	321.8	239.8	197.7	181.8	175.8	171.8	173.8
40°	6947.2	5230.9	1180.8	387.6	281.7	199.9	167.9	159.9	153.9	151.9	151.9
42.5°	7157.1	5204.9	877.1	355.6	243.8	165.8	145.9	139.9	135.9	133.8	135.9
45°	7708.4	5364.8	681.4	325.6	205.8	139.9	123.8	121.9	119.8	119.8	119.8
47.5°	8537.8	5694.4	567.5	291.7	171.8	119.8	107.8	105.9	103.9	105.9	105.9
50°	9942.4	6297.8	507.5	257.8	141.8	101.9	91.8	91.8	91.8	91.8	94.0
52.5°	12078.3	7484.7	467.6	223.8	115.9	85.9	78.0	78.0	79.9	79.9	81.9
55°	14458.0	9059.1	431.5	189.8	97.9	72.0	63.9	65.9	67.9	70.0	70.0
57.5°	17039.4	10803.5	401.6	155.9	83.9	57.9	54.0	56.0	57.9	62.0	62.0
60°	20154.4	12691.7	357.6	121.9	70.0	46.0	42.0	46.0	51.9	56.0	57.9
62.5°	23574.9	14517.9	301.7	95.8	57.9	35.9	34.0	42.0	49.9	54.0	56.0
65°	25912.8	15091.3	231.8	78.0	43.9	26.1	27.9	38.0	48.0	54.0	54.0
67°	24965.7	13682.7	189.8	65.9	35.9	20.0	26.1	38.0	48.0	51.9	54.0
67.5°	24308.3	13131.2	181.8	63.9	34.0	20.0	26.1	38.0	48.0	54.0	54.0
70°	19778.7	9864.4	151.9	48.0	27.9	18.0	22.0	35.9	46.0	51.9	51.9
72.5°	13742.6	6082.1	135.9	34.0	24.0	16.0	20.0	34.0	43.9	49.9	51.9
75°	6533.6	2201.8	115.9	26.1	22.0	14.1	18.0	34.0	43.9	49.9	49.9
77.5°	1332.6	511.6	94.0	22.0	18.0	14.1	16.0	32.0	42.0	48.0	48.0
80°	437.6	197.7	70.0	20.0	18.0	14.1	16.0	30.0	42.0	46.0	48.0
82.5°	315.7	99.9	46.0	20.0	18.0	14.1	14.1	30.0	40.0	46.0	46.0
85°	241.7	70.0	30.0	20.0	18.0	14.1	14.1	27.9	38.0	43.9	43.9
87.5°	159.9	27.9	24.0	20.0	18.0	14.1	14.1	27.9	35.9	42.0	43.9
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)