

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: P192826

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36517.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
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: 25 FT



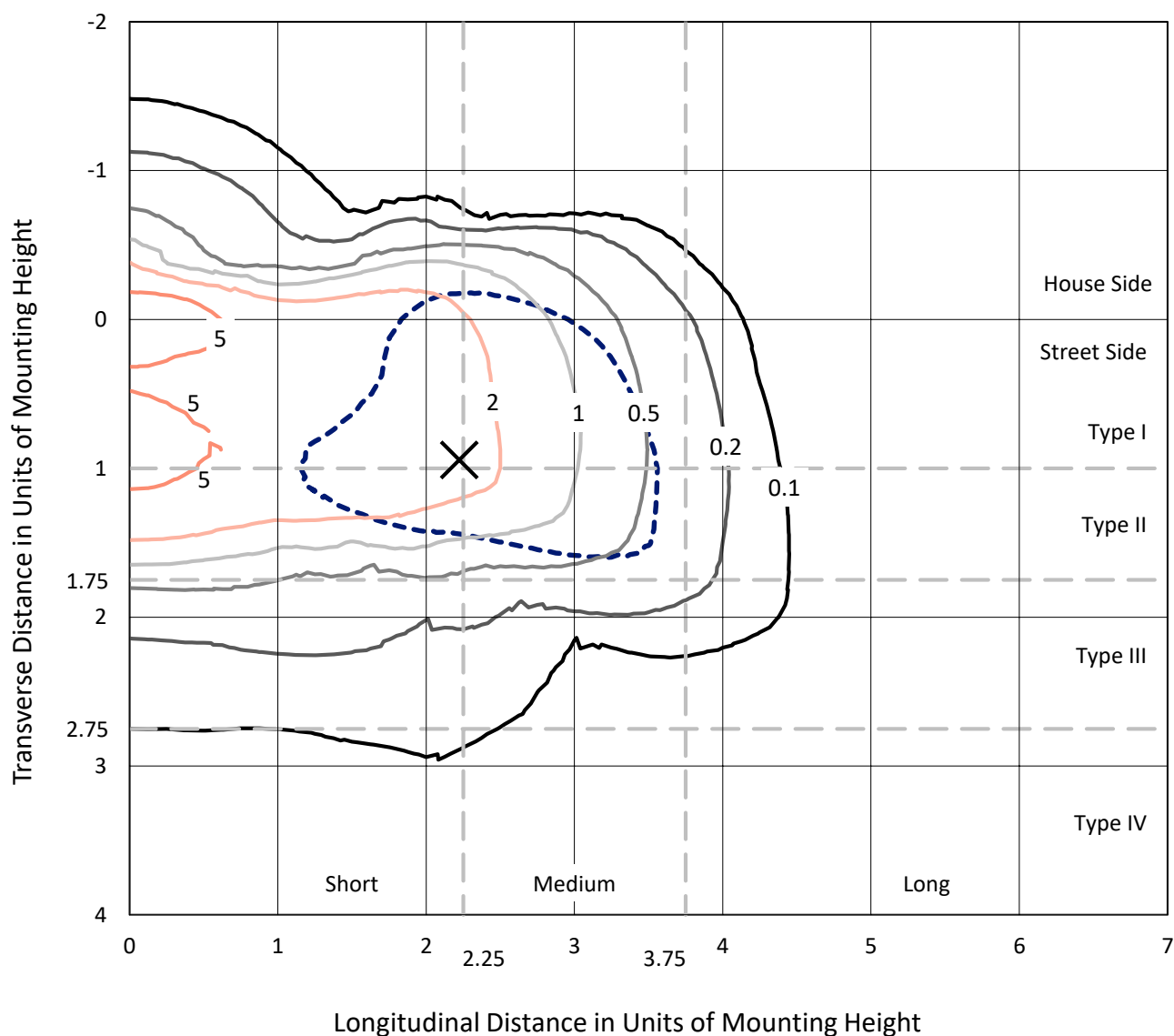
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

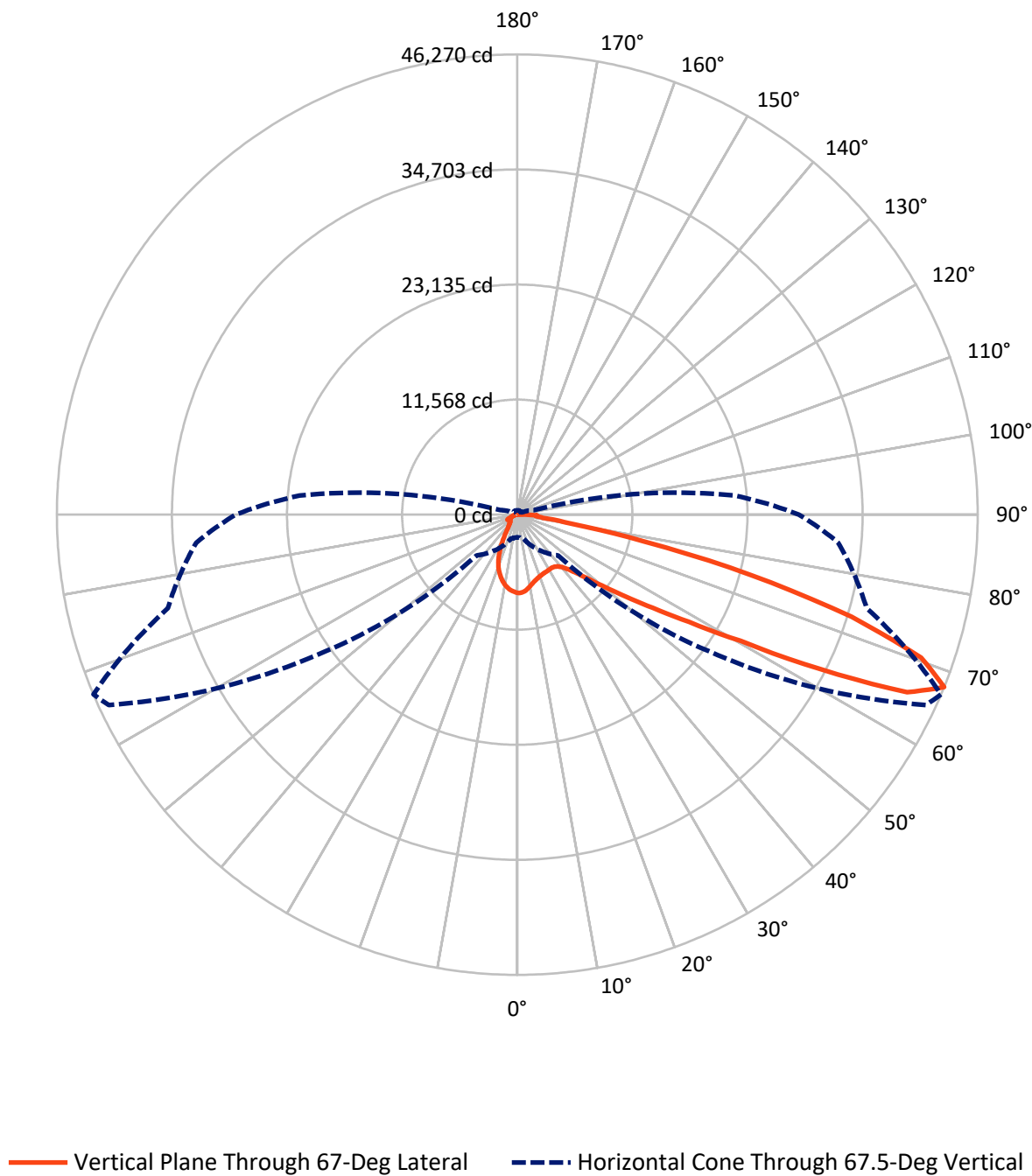


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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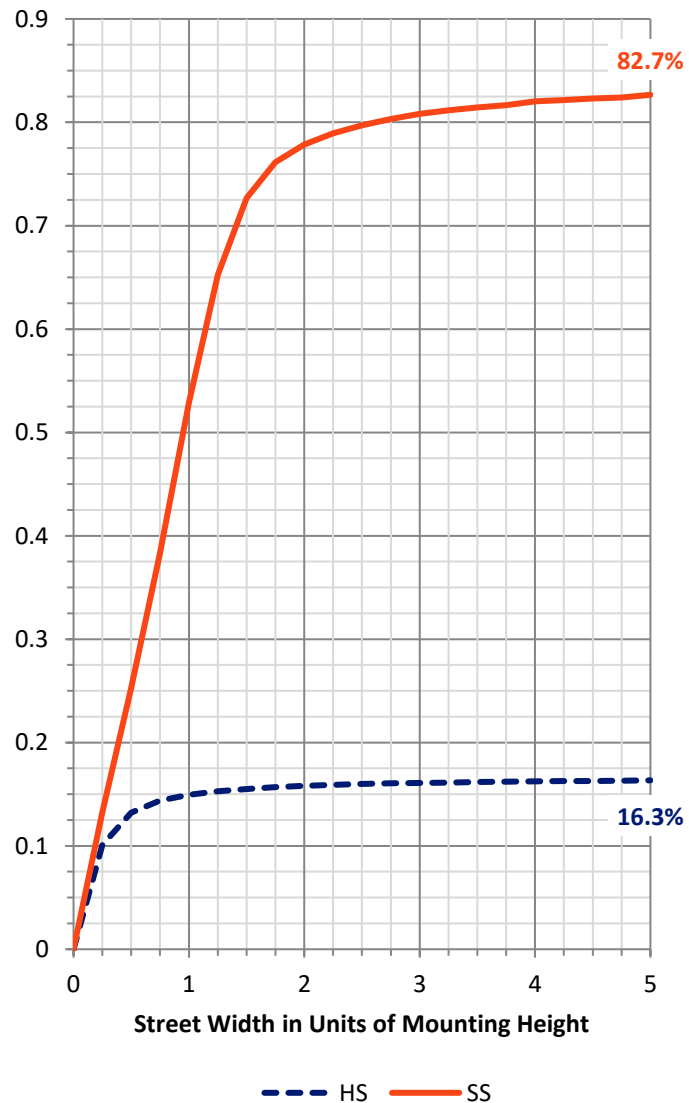
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6050.6	0.0	6050.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	30467.2	0.0	30467.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	36517.8	0.0	36517.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.0	1.8
10°-20°	1554.9	4.3
20°-30°	2107.7	5.8
30°-40°	2996.3	8.2
40°-50°	5013.0	13.7
50°-60°	7930.5	21.7
60°-70°	10102.7	27.7
70°-80°	5291.8	14.5
80°-90°	848.7	2.3
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°	36517.8	100.0
0°-180°	36517.8	100.0

Coefficient of Utilization



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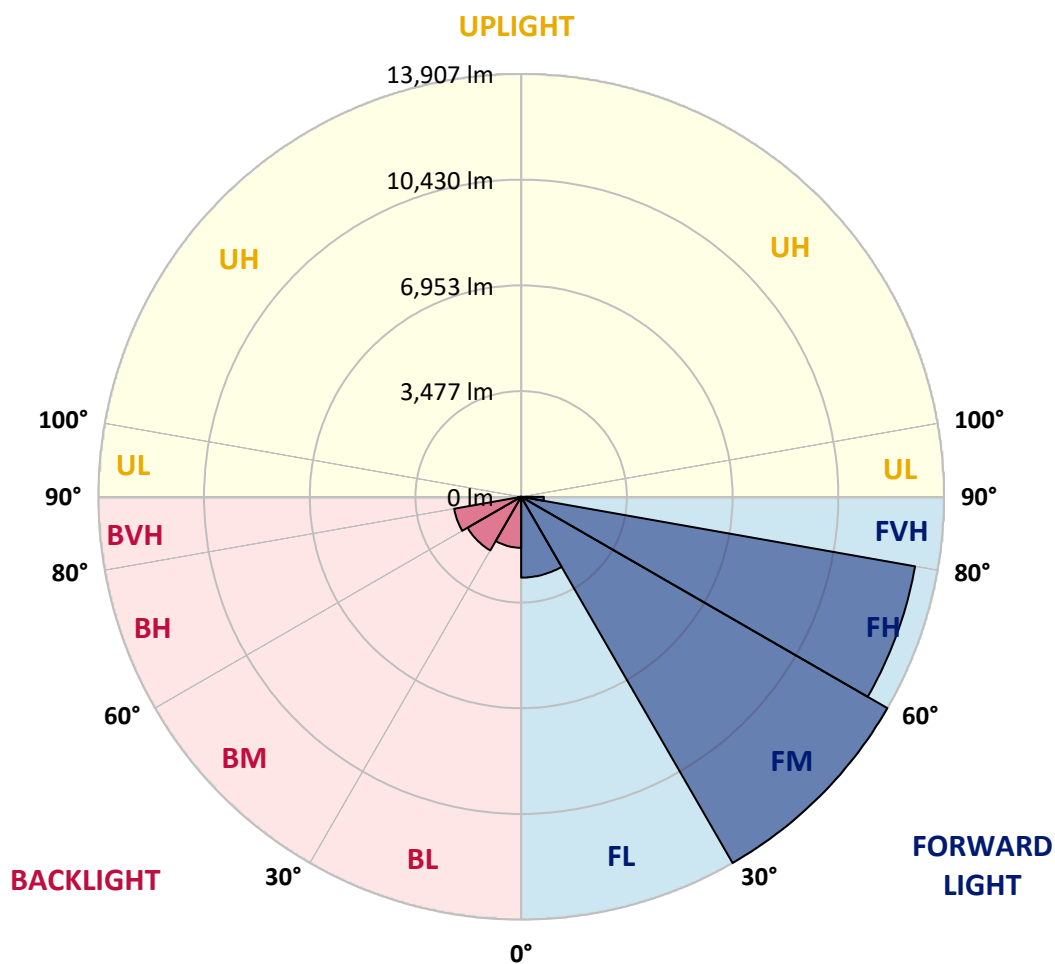
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2657.6	7.3			
FM	(30°-60°)	13906.7	38.1			
FH	(60°-80°)	13156.6	36.0			G5
FVH	(80°-90°)	746.3	2.0			G4/750
BL	(0°-30°)	1677.1	4.6	B3/2500		
BM	(30°-60°)	2033.2	5.6	B2/2500		
BH	(60°-80°)	2237.9	6.1	B3/2500		G3/2500
BVH	(80°-90°)	102.4	0.3			G2/225
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°	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8
2.5°	7552.6	7565.2	7604.9	7630.1	7743.5	7792.2	7826.4	7860.5	7866.0	7882.2	7866.0
5°	6760.3	6787.3	6861.2	6944.0	7163.7	7336.5	7518.4	7707.4	7741.7	7864.2	7898.4
7.5°	6146.2	6138.9	6200.3	6299.3	6524.4	6763.9	7082.6	7459.0	7532.9	7808.3	7941.6
10°	5697.8	5692.4	5757.2	5859.9	6074.2	6301.1	6661.2	7176.2	7280.7	7720.2	7983.0
12.5°	5366.5	5368.2	5433.0	5546.5	5764.4	5993.1	6358.7	6902.6	7035.7	7617.4	8026.3
15°	5146.7	5161.2	5213.5	5334.0	5546.5	5775.2	6133.6	6697.3	6846.7	7536.3	8075.0
17.5°	5072.9	5096.3	5114.3	5202.6	5384.4	5613.2	5964.4	6545.9	6704.4	7480.7	8118.1
20°	5141.3	5168.4	5134.1	5164.8	5280.0	5481.6	5831.0	6427.1	6589.2	7417.6	8123.5
22.5°	5434.9	5460.1	5359.2	5271.0	5263.8	5386.3	5721.3	6333.4	6500.9	7370.7	8125.3
25°	5951.7	5968.0	5798.6	5593.3	5393.5	5352.1	5643.8	6268.6	6447.0	7329.3	8091.0
27.5°	6585.6	6598.1	6403.6	6101.1	5699.6	5433.0	5616.8	6230.8	6416.4	7293.3	8033.5
30°	7356.3	7415.8	7154.7	6772.9	6187.6	5672.6	5670.8	6211.1	6382.1	7232.1	7919.9
32.5°	8145.1	8170.3	7990.2	7603.1	6844.9	6093.9	5822.1	6225.5	6373.1	7158.2	7776.0
35°	8944.6	8977.1	8860.1	8548.5	7743.5	6711.7	6117.4	6310.0	6429.0	7133.0	7675.1
37.5°	9980.2	10023.3	9861.3	9501.0	8836.7	7549.0	6609.0	6522.6	6600.1	7205.1	7644.5
40°	11617.1	11597.4	11123.6	10587.0	10032.4	8620.5	7311.3	6882.7	6927.8	7437.4	7738.1
42.5°	13522.4	13473.8	12657.9	11815.2	11347.0	9917.1	8240.6	7507.6	7498.6	7894.7	8067.7
45°	15042.3	15002.6	14267.8	13228.8	12854.3	11393.8	9441.7	8438.6	8372.0	8620.5	8676.4
47.5°	15865.2	15867.0	15443.8	14595.6	14586.6	13270.2	10985.0	9785.7	9670.4	9787.5	9728.0
50°	15577.1	15614.9	15569.9	15299.8	16167.7	15730.2	13000.1	11663.9	11431.6	11546.8	11318.1
52.5°	14183.3	14231.9	14498.3	14912.6	16832.3	18703.3	15960.7	13997.7	13727.7	13686.3	13432.4
55°	11712.5	11771.9	12315.8	13441.3	16279.4	20700.4	20632.0	16972.8	16542.3	16151.6	16043.5
57.5°	8073.0	8172.1	9047.3	10718.5	14491.2	21303.7	26194.7	21213.7	20338.5	18973.4	18998.6
60°	4550.6	4665.9	5697.8	7215.9	10882.3	20648.2	30426.6	27637.1	25789.5	22278.0	22465.3
62.5°	2894.0	3018.2	3801.5	5013.5	6529.8	17118.6	32160.8	36567.4	34221.0	26351.3	26535.0
65°	2342.8	2396.9	2766.0	4138.3	4741.6	10313.3	30844.4	43923.8	43048.5	31521.6	30664.3
67.5°	2287.1	2305.1	2495.9	3473.8	4547.1	5796.9	24602.8	45299.7	46270.2	36349.6	32384.1
70°	2260.0	2323.1	2812.9	3315.3	4354.4	4889.3	14784.8	41528.7	43061.2	37612.0	30095.3
72.5°	1096.8	1093.1	1415.5	2998.4	4905.4	5071.2	7595.8	33601.5	35139.4	32585.8	24730.7
75°	884.2	808.5	772.6	1098.5	4716.4	5236.8	4840.6	23120.7	24233.6	21847.6	15202.6
77.5°	839.2	749.2	686.1	687.9	1993.6	5553.7	4100.5	12796.7	13120.7	9868.6	4165.3
80°	695.1	612.3	567.3	639.2	965.2	5289.0	4433.6	5791.4	5314.3	2423.9	1386.6
82.5°	482.6	439.4	426.7	536.7	772.6	3769.1	5155.7	3111.8	2609.4	1213.8	855.4
85°	307.9	262.9	291.7	390.8	601.5	1739.6	5310.6	2425.7	1928.7	770.8	482.6
87.5°	142.2	115.3	144.1	216.2	392.6	599.8	5053.1	2724.6	1986.4	407.0	304.3
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°	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8	7876.8
2.5°	7880.5	7846.1	7819.1	7768.8	7712.9	7658.8	7610.2	7549.0	7531.0	7514.9	7540.0
5°	7905.6	7871.4	7772.3	7617.4	7446.3	7286.1	7125.9	6989.0	6904.3	6857.5	6884.5
7.5°	7943.3	7894.7	7689.4	7404.9	7097.1	6816.1	6526.2	6293.9	6122.8	6041.7	6065.2
10°	7977.7	7884.0	7549.0	7122.3	6672.0	6254.2	5796.9	5418.7	5137.7	4990.1	5026.0
12.5°	7992.0	7842.5	7352.7	6769.2	6151.7	5539.3	4865.9	4300.3	3897.0	3749.3	3718.6
15°	8006.4	7795.7	7136.6	6367.7	5523.2	4656.9	3713.2	3036.2	2701.2	2627.3	2611.2
17.5°	8010.1	7714.7	6891.7	5931.9	4786.5	3607.0	2539.1	2108.8	2110.6	2229.4	2243.8
20°	7972.2	7594.1	6594.6	5389.9	3904.2	2494.2	1743.2	1669.4	1941.3	2238.4	2274.4
22.5°	7885.8	7433.8	6257.9	4757.8	2894.0	1642.3	1348.8	1429.8	1781.0	2144.8	2186.2
25°	7776.0	7239.3	5859.9	4024.8	1916.1	1174.1	1131.0	1229.9	1467.7	1710.8	1734.2
27.5°	7626.6	7008.8	5413.2	3185.7	1244.4	967.1	995.9	1062.4	1159.7	1267.7	1278.6
30°	7433.8	6733.2	4936.0	2323.1	940.0	869.8	911.2	947.3	988.7	1049.9	1055.2
32.5°	7212.3	6468.5	4446.2	1604.6	833.7	819.3	851.7	869.8	902.3	940.0	943.7
35°	7026.8	6216.5	3938.4	1134.5	788.8	781.5	803.2	810.3	841.0	882.4	886.0
37.5°	6920.6	6011.1	3414.4	914.8	758.1	747.4	759.9	759.9	803.2	864.4	873.4
40°	6927.8	5897.7	2890.4	826.5	732.9	718.5	720.3	720.3	776.2	842.8	848.2
42.5°	7124.0	5926.6	2425.7	792.3	713.1	697.0	687.9	693.4	740.1	783.4	787.0
45°	7585.0	6130.0	1989.9	770.8	693.4	687.9	668.1	666.3	684.3	704.0	704.0
47.5°	8341.4	6531.5	1694.6	756.3	677.1	675.3	651.9	628.5	626.7	633.9	633.9
50°	9571.3	7223.1	1496.6	740.1	666.3	651.9	624.9	588.9	576.3	581.7	581.7
52.5°	11415.4	8456.6	1420.8	718.5	642.9	619.5	588.9	552.9	542.0	543.9	543.9
55°	13833.9	10351.1	1410.0	693.4	617.7	579.8	554.6	527.6	515.0	518.7	518.7
57.5°	16789.0	12971.3	1602.8	653.7	583.5	540.3	525.9	507.8	498.9	504.2	502.4
60°	20381.7	16400.1	2377.1	612.3	549.2	504.2	504.2	489.8	482.6	488.1	486.2
62.5°	24520.0	20338.5	3342.3	581.7	513.2	475.4	482.6	475.4	468.1	471.8	470.1
65°	28190.0	22904.7	3129.8	558.2	477.3	448.4	461.0	457.4	452.0	455.6	453.8
67.5°	28296.3	21953.8	1757.7	533.0	443.0	421.4	439.4	437.6	434.0	437.6	435.8
70°	25252.9	18537.6	990.4	486.2	407.0	389.0	414.2	412.4	408.7	415.9	414.2
72.5°	20232.2	13452.1	724.0	428.7	370.9	354.8	383.6	381.8	381.8	392.6	387.3
75°	11642.3	6922.3	578.1	367.3	333.1	320.5	345.8	347.6	351.2	365.6	354.8
77.5°	3318.9	2157.5	471.8	311.5	286.4	280.9	306.2	309.8	311.5	327.8	313.3
80°	1233.5	994.0	389.0	261.1	234.2	235.9	259.3	264.7	266.5	282.8	264.7
82.5°	787.0	655.4	315.1	201.7	183.7	181.9	210.7	217.9	217.9	219.7	208.9
85°	459.2	392.6	237.7	145.9	129.7	124.2	156.7	169.3	163.9	160.3	153.1
87.5°	307.9	270.1	145.9	81.1	70.3	66.6	91.9	100.8	97.2	91.9	86.5
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)