

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: P192983

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22090 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 210
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

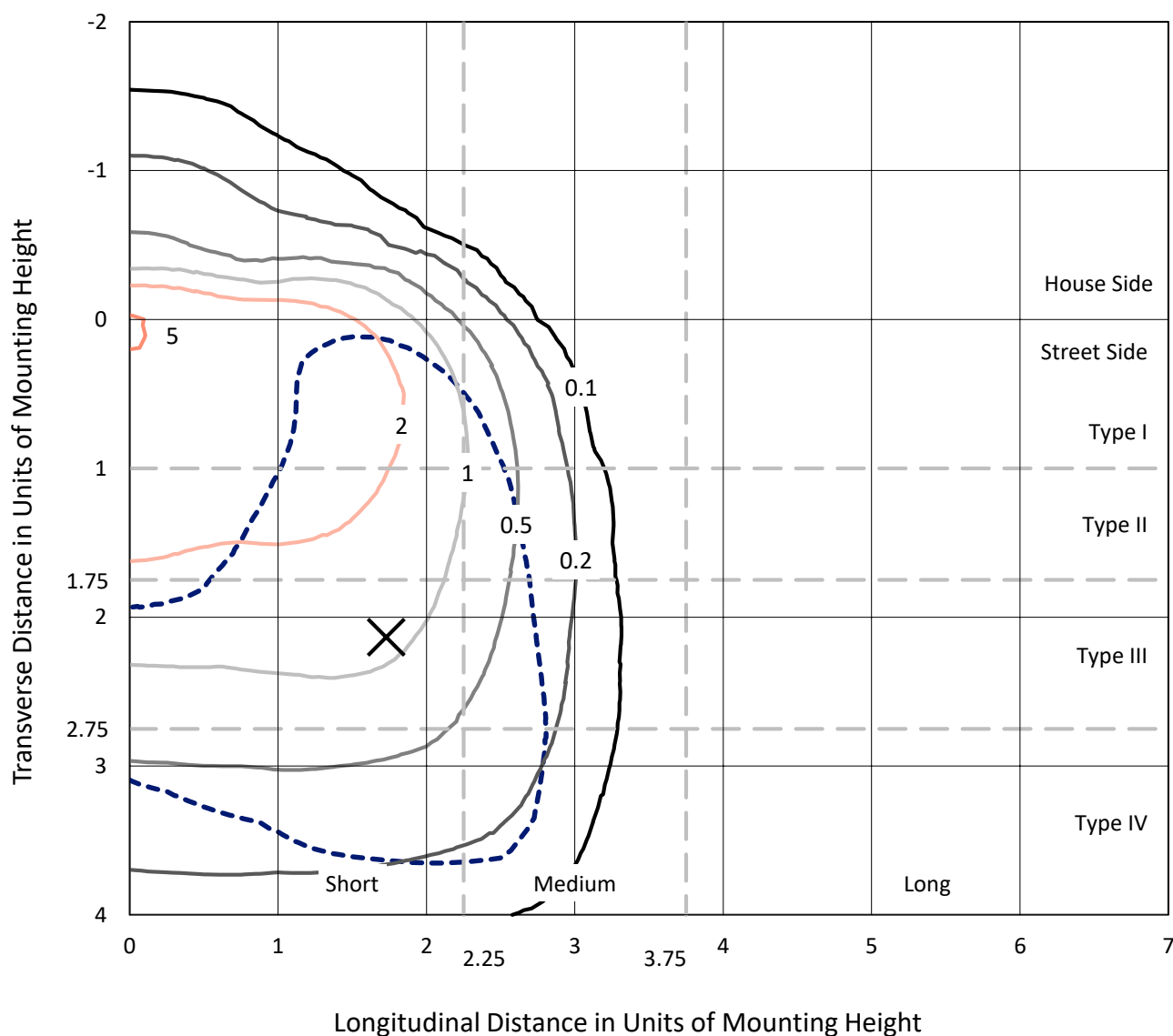


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

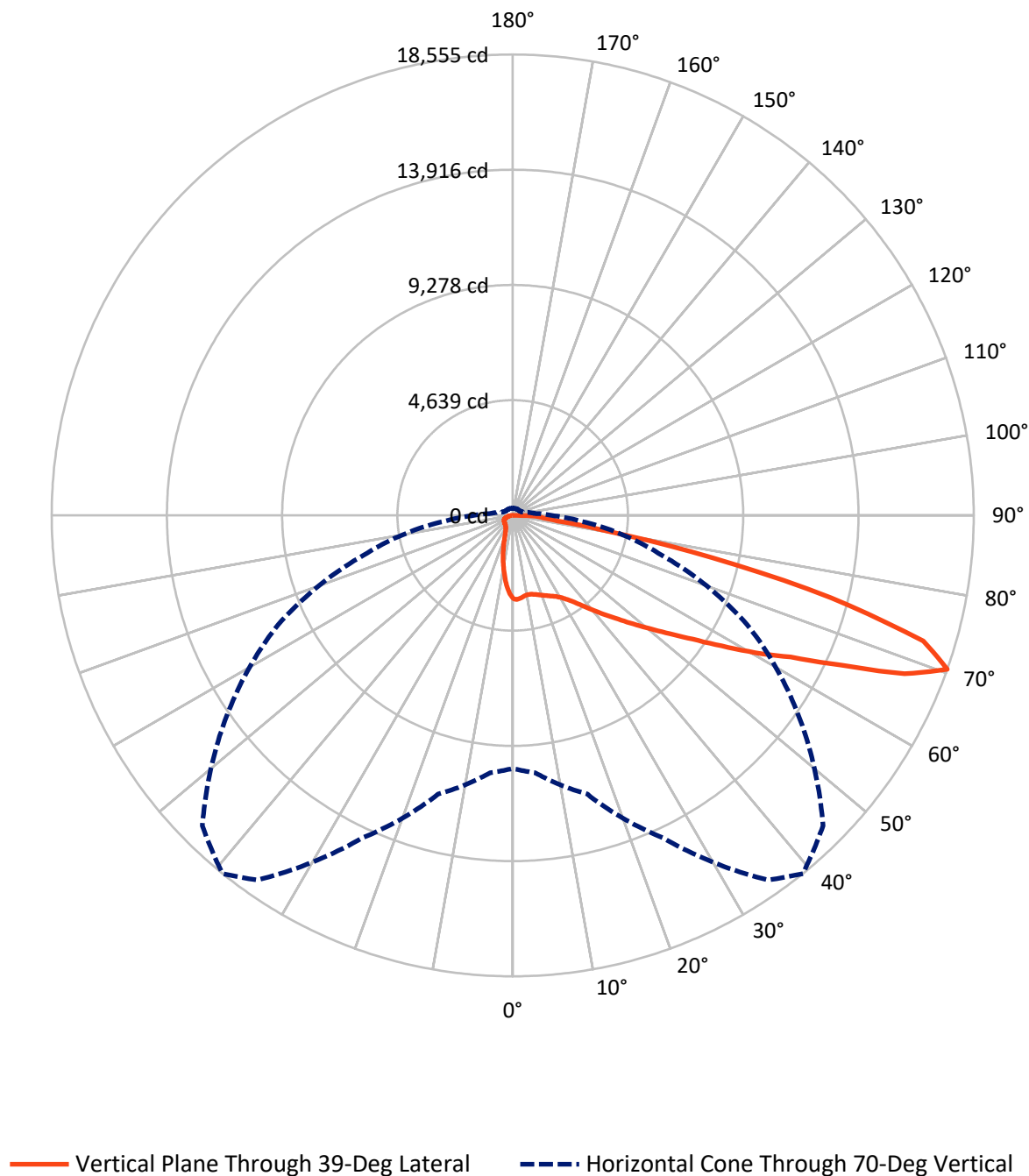


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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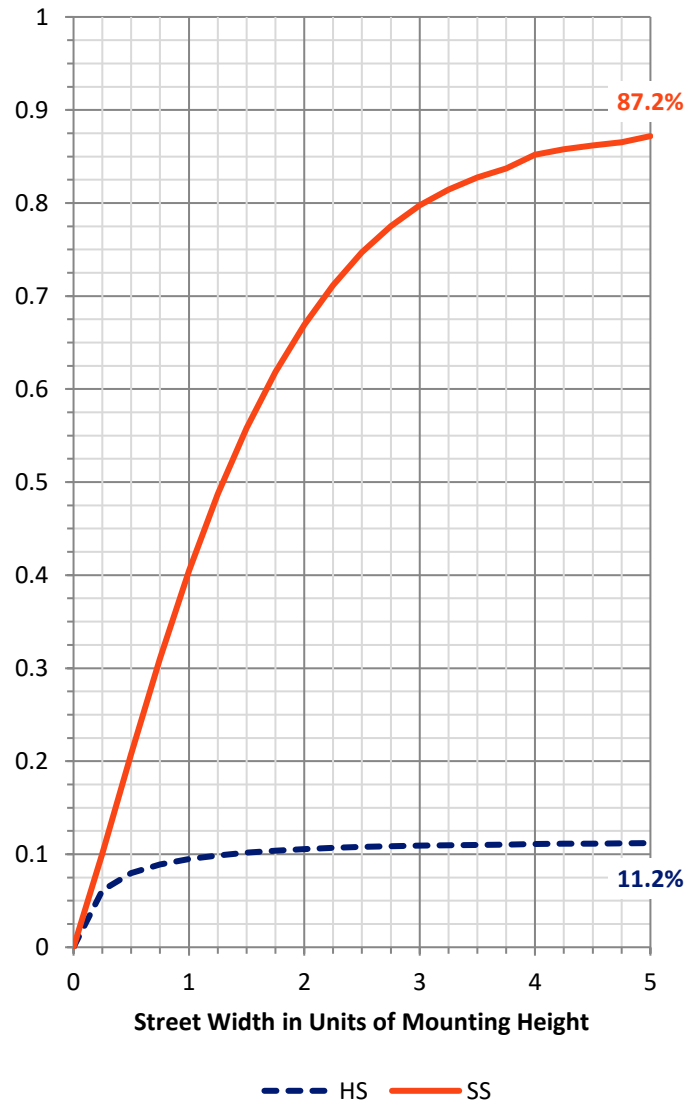
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2512.4	0.0	2512.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19577.6	0.0	19577.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	22090.0	0.0	22090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	1.3
10°-20°	719.4	3.3
20°-30°	1120.1	5.1
30°-40°	1745.0	7.9
40°-50°	2929.5	13.3
50°-60°	4653.7	21.1
60°-70°	6207.5	28.1
70°-80°	3748.6	17.0
80°-90°	678.4	3.1
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°	22090.0	100.0
0°-180°	22090.0	100.0

Coefficient of Utilization



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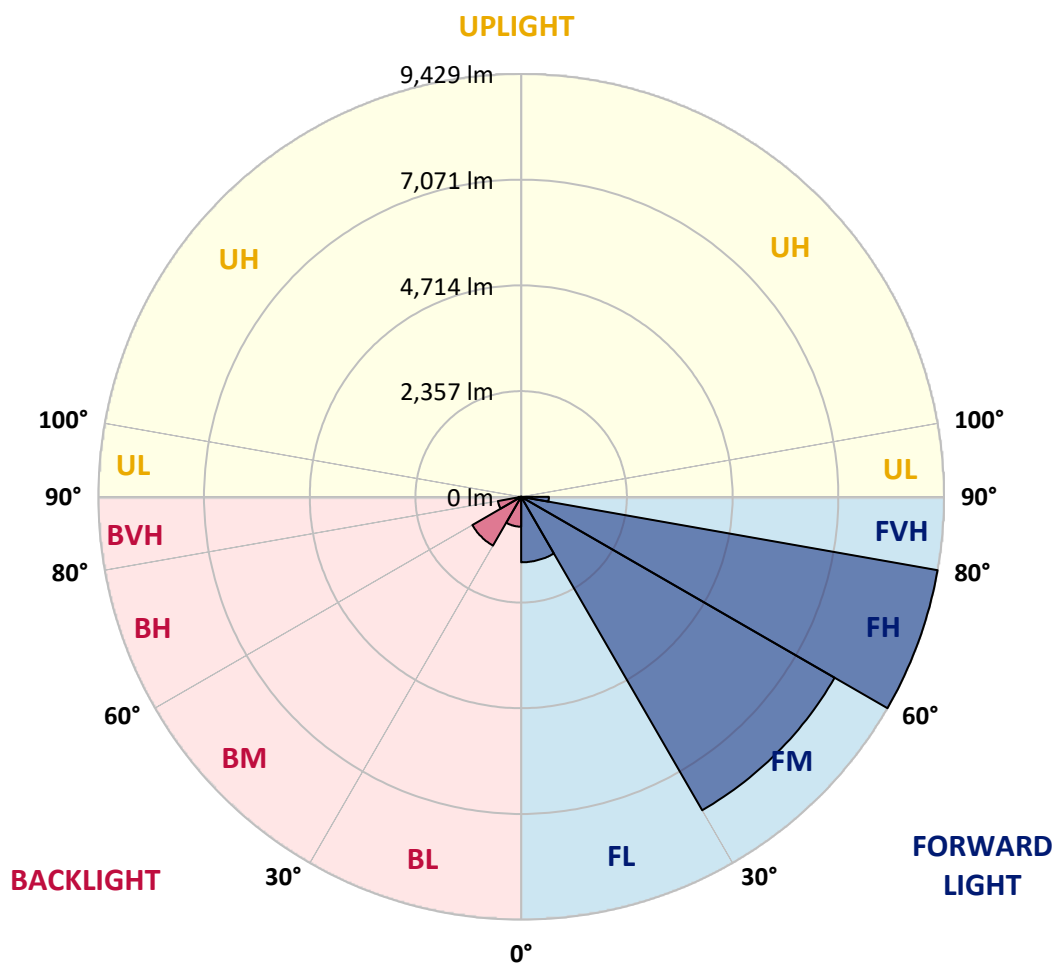
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1460.8	6.6			
FM	(30°-60°)	8070.9	36.5			
FH	(60°-80°)	9428.7	42.7			G4/12000
FVH	(80°-90°)	617.3	2.8			G4/750
BL	(0°-30°)	666.5	3.0	B2/1000		
BM	(30°-60°)	1257.3	5.7	B2/2500		
BH	(60°-80°)	527.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	61.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6
2.5°	3418.7	3417.6	3408.7	3401.9	3396.4	3394.0	3398.5	3381.7	3367.1	3349.2	3330.0
5°	3392.9	3391.9	3377.2	3363.8	3350.2	3345.7	3344.7	3314.3	3296.4	3269.4	3233.4
7.5°	3364.8	3359.1	3340.2	3317.6	3294.0	3282.8	3271.7	3232.3	3212.1	3185.1	3143.6
10°	3335.6	3328.9	3310.9	3288.4	3266.0	3249.2	3230.0	3191.9	3170.6	3150.4	3102.0
12.5°	3305.3	3299.7	3295.3	3285.1	3269.4	3254.8	3240.2	3207.7	3185.1	3161.5	3105.3
15°	3300.8	3298.5	3308.7	3315.5	3306.4	3297.5	3281.7	3253.6	3230.0	3206.4	3133.4
17.5°	3336.8	3335.6	3361.5	3379.4	3374.9	3359.1	3337.9	3306.4	3287.4	3267.2	3176.1
20°	3415.3	3421.0	3452.5	3476.1	3453.5	3431.1	3396.4	3352.5	3342.3	3333.4	3220.0
22.5°	3563.6	3569.3	3591.7	3600.7	3542.3	3509.7	3461.5	3405.3	3398.5	3405.3	3272.8
25°	3795.0	3789.3	3786.1	3752.3	3645.7	3595.0	3533.3	3474.9	3478.3	3508.7	3346.8
27.5°	4101.6	4071.3	4024.1	3923.1	3753.4	3697.4	3622.1	3568.1	3589.5	3647.8	3458.0
30°	4419.4	4385.7	4276.9	4111.8	3895.0	3833.2	3748.9	3688.3	3744.5	3836.5	3606.3
32.5°	4713.7	4709.2	4549.8	4337.5	4090.3	4036.5	3952.2	3883.7	3974.8	4115.0	3828.7
35°	5034.8	5045.0	4854.1	4599.2	4354.3	4298.2	4237.5	4185.8	4307.1	4500.3	4151.0
37.5°	5378.7	5398.8	5173.1	4885.5	4655.3	4631.7	4595.8	4573.3	4760.9	5028.2	4601.4
40°	5837.9	5817.7	5504.4	5208.9	5024.9	5023.6	5012.5	5039.4	5351.6	5717.7	5179.8
42.5°	6329.8	6270.3	5855.9	5556.1	5430.3	5468.4	5491.0	5600.9	6062.6	6555.5	5885.1
45°	6860.0	6726.3	6220.9	5923.3	5880.7	5961.5	6037.8	6277.1	6899.2	7509.2	6657.8
47.5°	7283.3	7154.2	6598.2	6308.5	6401.7	6524.2	6671.3	7049.7	7836.0	8494.2	7420.4
50°	7616.9	7532.7	6979.1	6757.8	6975.6	7164.3	7404.7	7924.7	8810.7	9453.2	8126.8
52.5°	7940.4	7877.5	7363.1	7218.2	7649.5	7910.1	8236.9	8863.5	9810.4	10396.7	8721.0
55°	8232.3	8187.5	7776.4	7792.2	8442.5	8781.6	9192.6	9932.8	10899.8	11237.9	9224.1
57.5°	8561.4	8504.2	8248.1	8512.1	9461.1	9901.4	10435.9	11134.5	11921.9	11985.8	9607.0
60°	8892.8	8843.3	8771.6	9343.2	10754.9	11217.6	11724.2	12299.2	12958.4	12566.5	9584.7
62.5°	9180.3	9186.0	9312.8	10215.8	12021.8	12557.5	13175.2	13743.5	13896.2	12667.5	8875.9
65°	9667.7	9756.5	10135.0	11451.3	13805.2	14521.8	15279.9	15189.0	14155.7	11723.1	7356.4
67.5°	10247.3	10403.3	11170.4	13097.7	16059.4	17010.7	17303.8	15515.8	13116.8	9529.6	5243.8
70°	10188.9	10403.3	11617.4	14325.3	17917.0	18555.0	17665.4	14042.2	10415.6	6225.4	2785.3
72.5°	9047.8	9354.3	10706.7	13762.7	17331.9	17275.7	15336.0	10468.5	6188.3	2500.1	1088.3
75°	6895.9	7205.8	8369.5	10872.8	13698.6	13226.9	10881.7	5782.9	2348.4	992.8	686.2
77.5°	3966.8	4207.1	5105.6	6667.9	8690.6	8206.6	6056.9	2572.0	1143.3	691.8	535.7
80°	2214.8	2348.4	2894.3	3382.7	4258.8	3904.0	2710.0	1598.1	853.6	502.0	413.3
82.5°	1750.9	1870.0	2340.6	2134.0	1945.3	1794.7	1556.6	1423.0	681.8	316.8	247.0
85°	1529.6	1643.2	1981.2	1680.2	1328.6	1218.6	1264.6	1400.4	530.1	190.8	211.2
87.5°	1417.4	1569.0	1765.5	1294.9	1034.3	916.4	1166.9	1535.3	170.7	119.1	85.3
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°	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6
2.5°	3313.2	3295.3	3266.0	3240.2	3199.7	3178.4	3154.9	3137.9	3124.5	3113.3	3131.3
5°	3211.0	3177.3	3115.5	3049.2	2970.6	2908.8	2857.2	2808.9	2775.1	2752.8	2768.5
7.5°	3114.4	3059.4	2962.8	2842.6	2707.8	2593.3	2498.9	2415.8	2358.6	2321.4	2336.1
10°	3059.4	2990.9	2841.5	2652.9	2454.0	2275.5	2127.2	1999.1	1910.4	1859.9	1867.8
12.5°	3045.9	2957.1	2750.5	2491.1	2219.3	1971.0	1762.2	1584.7	1460.0	1394.9	1397.1
15°	3056.0	2942.6	2665.2	2336.1	1992.5	1679.1	1418.5	1202.8	1057.9	983.9	982.7
17.5°	3072.8	2931.3	2575.2	2168.7	1762.2	1398.3	1107.4	896.3	768.2	708.6	704.1
20°	3090.8	2913.4	2474.1	1987.9	1523.0	1137.7	867.1	702.0	621.0	588.5	586.2
22.5°	3116.6	2897.7	2369.8	1797.0	1288.1	926.5	713.1	602.0	559.3	542.5	540.2
25°	3158.1	2889.8	2258.6	1598.1	1077.1	774.9	621.0	552.6	527.8	516.6	515.4
27.5°	3227.8	2901.0	2154.1	1405.0	905.2	672.7	569.5	527.8	509.9	499.8	498.7
30°	3317.6	2935.8	2044.0	1221.9	771.6	603.1	538.0	511.0	496.4	486.3	486.3
32.5°	3467.1	2994.2	1928.4	1063.6	676.1	554.8	514.4	496.4	484.0	476.2	475.1
35°	3687.2	3104.3	1820.6	932.2	607.6	520.0	494.2	480.7	471.7	467.2	467.2
37.5°	4007.3	3278.4	1725.1	837.8	566.1	496.4	475.1	465.0	459.3	459.3	459.3
40°	4437.4	3518.7	1647.6	774.9	542.5	479.5	460.5	452.7	449.3	450.3	450.3
42.5°	4968.7	3830.9	1596.0	731.2	531.2	469.5	450.3	443.6	440.2	439.1	440.2
45°	5574.0	4185.8	1590.4	698.6	520.0	462.7	443.6	436.9	430.2	425.7	425.7
47.5°	6162.6	4546.4	1636.3	687.4	507.6	454.8	438.0	431.2	421.2	411.1	411.1
50°	6682.6	4853.0	1698.1	691.8	503.1	443.6	429.1	425.7	409.9	398.7	397.6
52.5°	7095.9	5088.9	1748.7	705.3	507.6	435.7	417.8	418.9	402.1	389.7	388.6
55°	7427.1	5243.8	1735.2	718.8	517.8	431.2	407.6	409.9	396.5	384.1	384.1
57.5°	7572.0	5186.5	1585.8	707.6	525.6	432.4	399.8	408.8	397.6	386.3	386.3
60°	7261.0	4677.7	1306.2	658.2	515.4	429.1	396.5	413.3	412.2	401.0	399.8
62.5°	6319.8	3766.9	1013.1	585.2	480.7	412.2	387.5	412.2	424.6	421.2	420.0
65°	4870.9	2683.1	773.8	506.5	433.5	384.1	364.0	386.3	403.1	407.6	406.6
67.5°	3161.5	1644.3	596.3	432.4	380.8	351.5	333.6	343.6	347.0	347.0	344.8
70°	1554.4	885.0	475.1	364.0	326.8	316.8	306.6	301.0	295.3	290.8	290.8
72.5°	767.1	578.4	390.8	307.8	281.9	277.4	275.2	268.4	264.0	258.3	256.1
75°	567.2	470.6	332.4	259.5	242.5	238.0	242.5	237.0	235.9	231.4	229.1
77.5°	466.1	401.0	286.4	222.4	207.8	200.0	206.6	207.8	208.9	202.1	200.0
80°	378.5	339.1	239.2	184.2	170.7	165.1	169.6	178.5	180.9	170.7	166.2
82.5°	272.9	277.4	193.2	143.7	132.5	128.1	137.0	148.3	150.4	135.9	132.5
85°	229.1	231.4	148.3	102.1	91.0	84.2	98.9	110.1	117.9	103.4	100.0
87.5°	95.5	135.9	85.3	57.3	50.6	43.8	52.8	58.5	70.8	65.1	64.0
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)