

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: P194583

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194583
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-SL4-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 22840 lumens
Efficiency: N/A
Efficacy: 108.8 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

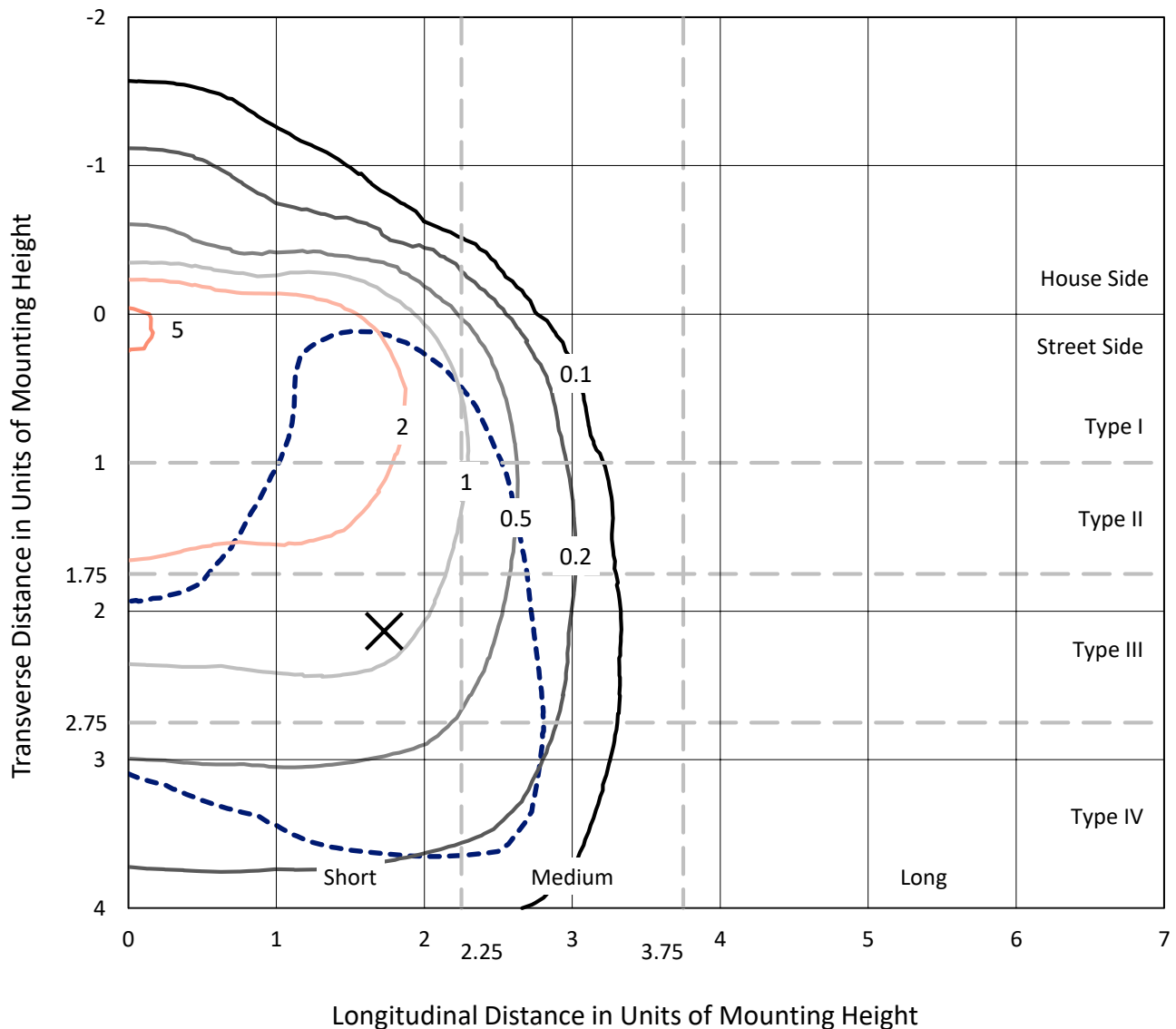


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

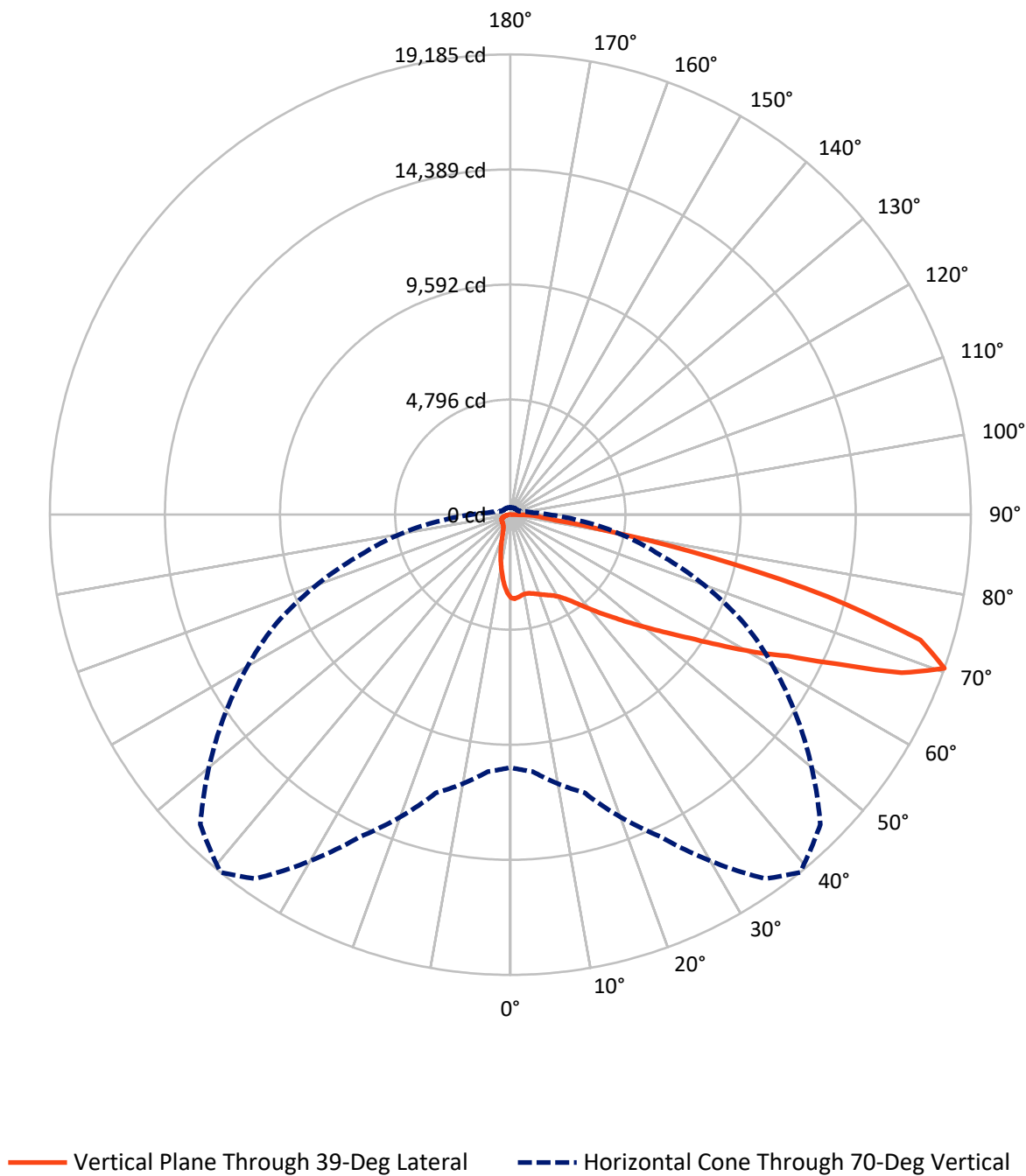


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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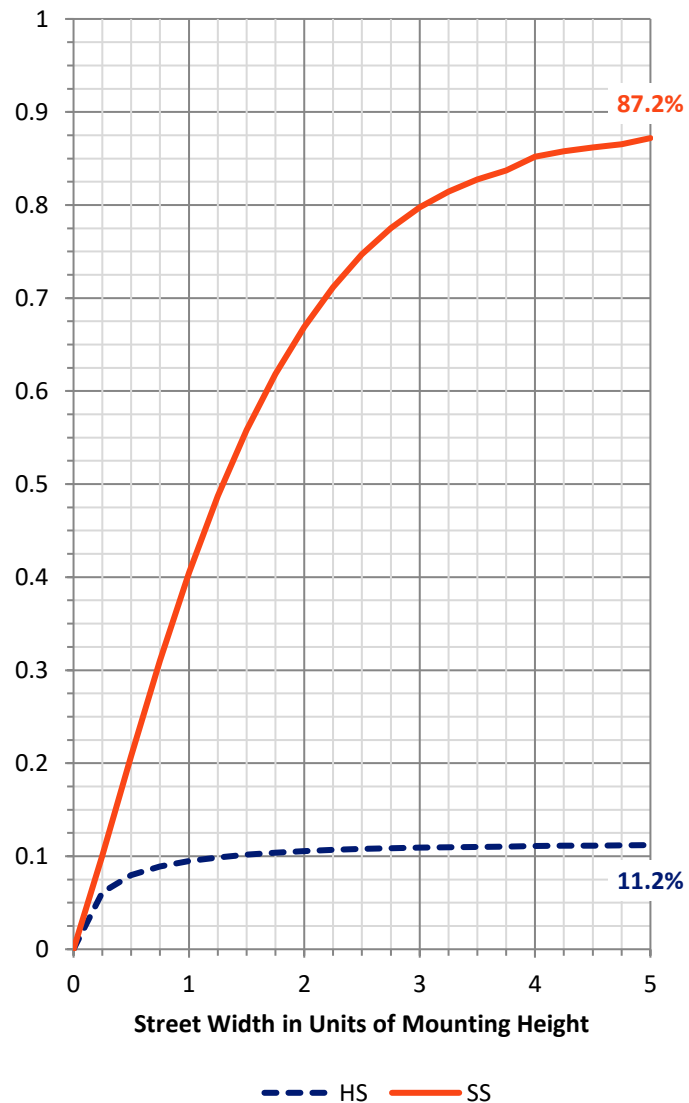
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.7	0.0	2597.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	20242.3	0.0	20242.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	22840.0	0.0	22840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	1.3
10°-20°	743.8	3.3
20°-30°	1158.2	5.1
30°-40°	1804.2	7.9
40°-50°	3028.9	13.3
50°-60°	4811.7	21.1
60°-70°	6418.3	28.1
70°-80°	3875.8	17.0
80°-90°	701.5	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°	22840.0	100.0
0°-180°	22840.0	100.0

Coefficient of Utilization



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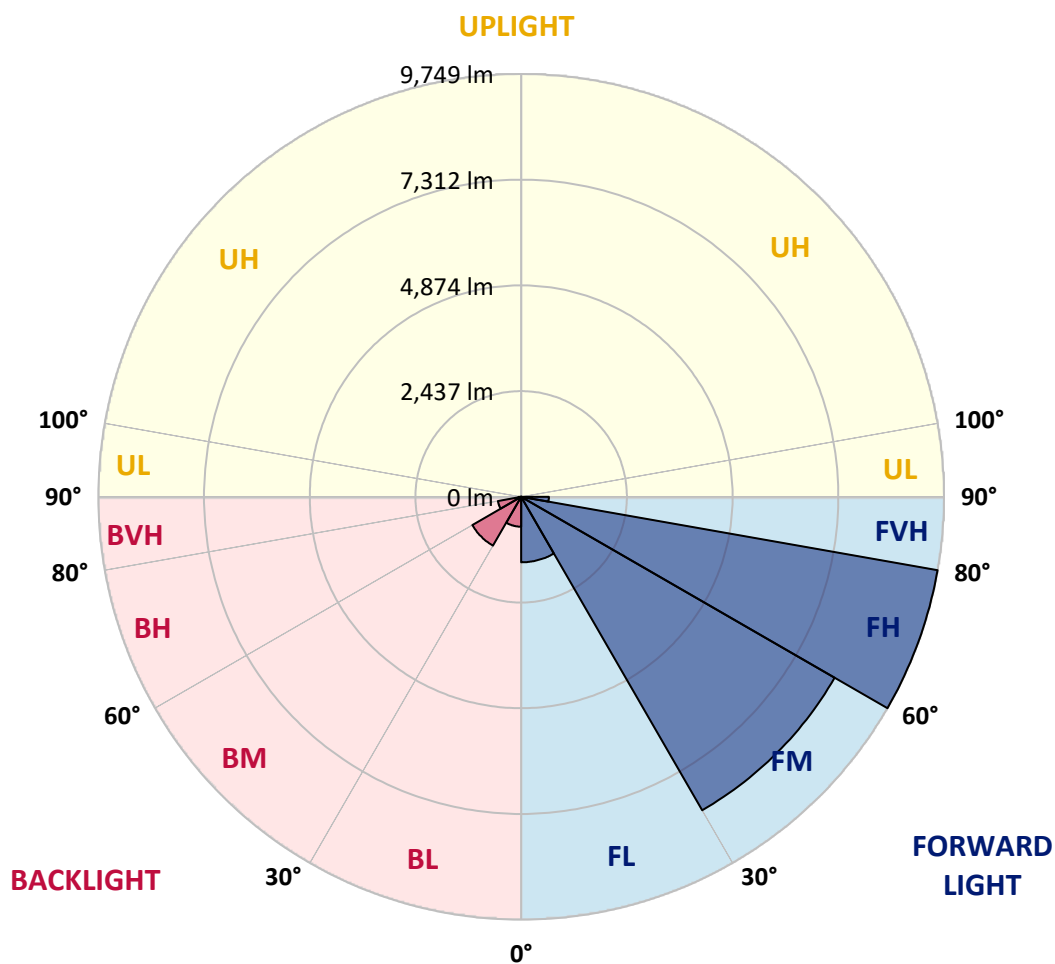
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1510.4	6.6			
FM	(30°-60°)	8344.9	36.5			
FH	(60°-80°)	9748.8	42.7			G4/12000
FVH	(80°-90°)	638.3	2.8			G4/750
BL	(0°-30°)	689.1	3.0	B2/1000		
BM	(30°-60°)	1300.0	5.7	B2/2500		
BH	(60°-80°)	545.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	63.2	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°	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5
2.5°	3534.8	3533.7	3524.4	3517.4	3511.6	3509.3	3513.9	3496.5	3481.4	3462.8	3443.1
5°	3508.1	3506.9	3491.9	3477.9	3464.0	3459.3	3458.2	3426.8	3408.2	3380.4	3343.2
7.5°	3479.1	3473.3	3453.5	3430.3	3405.9	3394.3	3382.7	3342.1	3321.1	3293.3	3250.3
10°	3448.9	3441.9	3423.3	3400.1	3376.9	3359.5	3339.7	3300.2	3278.2	3257.3	3207.3
12.5°	3417.5	3411.7	3407.1	3396.6	3380.4	3365.3	3350.2	3316.5	3293.3	3268.9	3210.8
15°	3412.9	3410.6	3421.0	3428.0	3418.7	3409.4	3393.1	3364.1	3339.7	3315.3	3239.9
17.5°	3450.0	3448.9	3475.6	3494.2	3489.5	3473.3	3451.2	3418.7	3399.0	3378.1	3284.0
20°	3531.3	3537.1	3569.7	3594.0	3570.8	3547.6	3511.6	3466.3	3455.9	3446.6	3329.3
22.5°	3684.6	3690.4	3713.6	3722.9	3662.6	3628.9	3578.9	3520.9	3513.9	3520.9	3383.9
25°	3923.8	3918.0	3914.5	3879.7	3769.4	3717.1	3653.3	3592.9	3596.4	3627.7	3460.5
27.5°	4240.9	4209.5	4160.7	4056.2	3880.9	3822.8	3745.0	3689.3	3711.3	3771.7	3575.5
30°	4569.5	4534.6	4422.0	4251.3	4027.2	3963.3	3876.2	3813.5	3871.6	3966.8	3728.7
32.5°	4873.7	4869.1	4704.2	4484.7	4229.2	4173.5	4086.4	4015.6	4109.6	4254.8	3958.7
35°	5205.8	5216.3	5018.9	4755.3	4502.1	4444.1	4381.4	4327.9	4453.4	4653.1	4291.9
37.5°	5561.2	5582.1	5348.7	5051.4	4813.3	4789.0	4751.8	4728.6	4922.5	5198.9	4757.6
40°	6036.1	6015.2	5691.2	5385.8	5195.4	5194.2	5182.6	5210.5	5533.3	5911.9	5355.6
42.5°	6544.8	6483.2	6054.7	5744.7	5614.6	5654.1	5677.3	5791.1	6268.4	6778.2	6084.9
45°	7092.9	6954.7	6432.1	6124.4	6080.3	6163.9	6242.8	6490.2	7133.5	7764.1	6883.8
47.5°	7530.6	7397.1	6822.3	6522.7	6619.1	6745.6	6897.8	7289.1	8102.0	8782.5	7672.3
50°	7875.5	7788.4	7216.0	6987.2	7212.5	7407.6	7656.1	8193.7	9109.9	9774.2	8402.7
52.5°	8210.0	8144.9	7613.1	7463.3	7909.2	8178.6	8516.5	9164.5	10143.4	10749.6	9017.0
55°	8511.9	8465.4	8040.4	8056.7	8729.0	9079.7	9504.8	10270.0	11269.8	11619.4	9537.3
57.5°	8852.1	8792.9	8528.2	8801.0	9782.3	10237.5	10790.3	11512.5	12326.6	12392.8	9933.3
60°	9194.7	9143.6	9069.3	9660.4	11120.0	11598.5	12122.2	12716.8	13398.4	12993.1	9910.0
62.5°	9492.0	9497.8	9629.0	10562.6	12429.9	12983.8	13622.5	14210.1	14368.0	13097.6	9177.3
65°	9996.0	10087.7	10479.0	11840.0	14274.0	15014.8	15798.7	15704.6	14636.3	12121.0	7606.1
67.5°	10595.2	10756.6	11549.7	13542.4	16604.6	17588.2	17891.2	16042.5	13562.1	9853.1	5421.8
70°	10534.8	10756.6	12011.9	14811.6	18525.3	19184.9	18265.2	14519.0	10769.4	6436.8	2879.9
72.5°	9355.0	9672.0	11070.1	14229.8	17920.3	17862.2	15856.7	10823.9	6398.4	2584.9	1125.2
75°	7130.0	7450.5	8653.6	11242.0	14163.7	13675.9	11251.3	5979.2	2428.2	1026.5	709.5
77.5°	4101.5	4350.0	5279.0	6894.3	8985.7	8485.2	6262.6	2659.2	1182.1	715.3	553.9
80°	2290.0	2428.2	2992.5	3497.7	4403.4	4036.5	2802.1	1652.4	882.5	519.1	427.3
82.5°	1810.4	1933.5	2420.0	2206.4	2011.3	1855.7	1609.5	1471.3	704.9	327.5	255.5
85°	1581.6	1698.9	2048.4	1737.2	1373.7	1259.9	1307.6	1448.1	548.1	197.4	218.3
87.5°	1465.5	1622.3	1825.5	1338.9	1069.5	947.6	1206.5	1587.4	176.5	123.1	88.3
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°	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5
2.5°	3425.7	3407.1	3376.9	3350.2	3308.4	3286.3	3261.9	3244.5	3230.6	3219.0	3237.5
5°	3320.0	3285.2	3221.3	3152.8	3071.5	3007.6	2954.2	2904.3	2869.4	2846.2	2862.5
7.5°	3220.1	3163.2	3063.4	2939.1	2799.8	2681.3	2583.8	2497.8	2438.6	2400.3	2415.4
10°	3163.2	3092.4	2937.9	2742.9	2537.3	2352.7	2199.4	2067.0	1975.3	1923.0	1931.1
12.5°	3149.3	3057.5	2843.9	2575.6	2294.6	2038.0	1822.0	1638.5	1509.6	1442.3	1444.6
15°	3159.7	3042.5	2755.6	2415.4	2060.0	1736.1	1466.6	1243.7	1093.9	1017.2	1016.1
17.5°	3177.2	3030.8	2662.7	2242.4	1822.0	1445.7	1145.0	926.7	794.3	732.7	728.1
20°	3195.7	3012.3	2558.2	2055.4	1574.6	1176.3	896.5	725.8	642.2	608.5	606.2
22.5°	3222.4	2996.0	2450.2	1858.0	1331.9	958.0	737.4	622.4	578.3	560.9	558.6
25°	3265.4	2987.9	2335.3	1652.4	1113.6	801.3	642.2	571.3	545.8	534.2	533.0
27.5°	3337.4	2999.5	2227.3	1452.7	936.0	695.6	588.7	545.8	527.2	516.8	515.6
30°	3430.3	3035.5	2113.5	1263.4	797.8	623.6	556.2	528.4	513.3	502.8	502.8
32.5°	3584.8	3095.9	1993.9	1099.7	699.1	573.7	531.8	513.3	500.5	492.4	491.2
35°	3812.4	3209.7	1882.4	963.8	628.2	537.7	510.9	497.0	487.7	483.1	483.1
37.5°	4143.3	3389.7	1783.7	866.3	585.3	513.3	491.2	480.8	474.9	474.9	474.9
40°	4588.1	3638.2	1703.5	801.3	560.9	495.8	476.1	468.0	464.5	465.7	465.7
42.5°	5137.3	3961.0	1650.1	756.0	549.3	485.4	465.7	458.7	455.2	454.0	455.2
45°	5763.2	4327.9	1644.3	722.3	537.7	478.4	458.7	451.7	444.8	440.1	440.1
47.5°	6371.7	4700.7	1691.9	710.7	524.9	470.3	452.9	445.9	435.5	425.0	425.0
50°	6909.4	5017.7	1755.8	715.3	520.2	458.7	443.6	440.1	423.9	412.2	411.1
52.5°	7336.7	5261.6	1808.1	729.3	524.9	450.6	432.0	433.1	415.7	403.0	401.8
55°	7679.3	5421.8	1794.1	743.2	535.3	445.9	421.5	423.9	409.9	397.1	397.1
57.5°	7829.1	5362.6	1639.7	731.6	543.5	447.1	413.4	422.7	411.1	399.5	399.5
60°	7507.4	4836.6	1350.5	680.5	533.0	443.6	409.9	427.3	426.2	414.6	413.4
62.5°	6534.3	3894.8	1047.4	605.0	497.0	426.2	400.6	426.2	438.9	435.5	434.3
65°	5036.3	2774.2	800.1	523.7	448.2	397.1	376.2	399.5	416.9	421.5	420.4
67.5°	3268.9	1700.1	616.6	447.1	393.7	363.5	344.9	355.3	358.8	358.8	356.5
70°	1607.2	915.1	491.2	376.2	337.9	327.5	317.0	311.2	305.4	300.8	300.8
72.5°	793.1	598.0	404.1	318.2	291.5	286.8	284.5	277.5	272.9	267.1	264.8
75°	586.4	486.6	343.7	268.2	250.8	246.2	250.8	245.0	243.9	239.2	236.9
77.5°	481.9	414.6	296.1	229.9	214.8	206.7	213.7	214.8	216.0	209.0	206.7
80°	391.3	350.7	247.3	190.4	176.5	170.7	175.3	184.6	187.0	176.5	171.9
82.5°	282.2	286.8	199.7	148.6	137.0	132.4	141.7	153.3	155.6	140.5	137.0
85°	236.9	239.2	153.3	105.7	94.1	87.1	102.2	113.8	121.9	106.8	103.4
87.5°	98.7	140.5	88.3	59.2	52.3	45.3	54.6	60.4	73.2	67.4	66.2
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)