

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: P192975

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192975
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-07-LED-E1-SL4-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 25493.5 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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



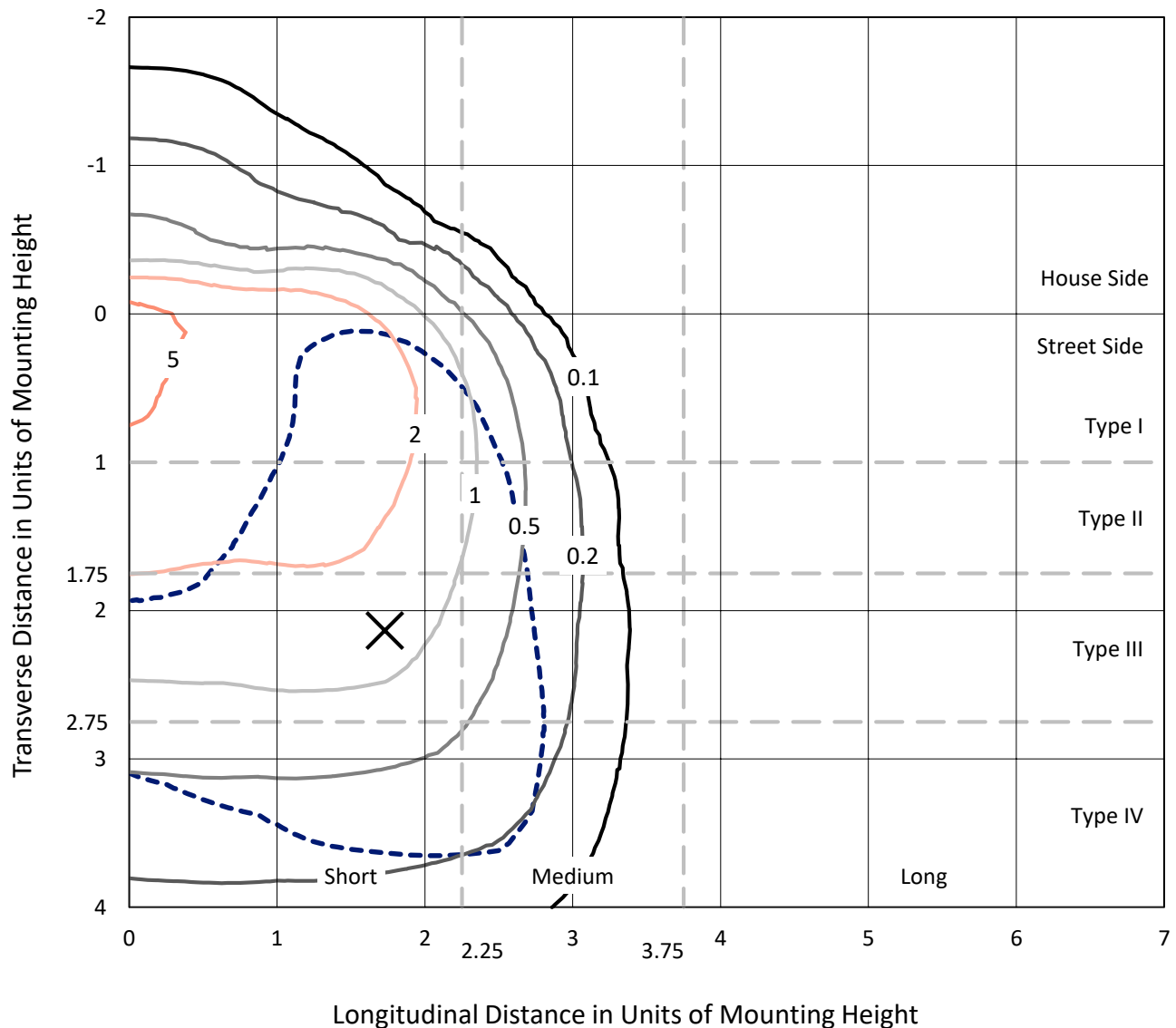
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

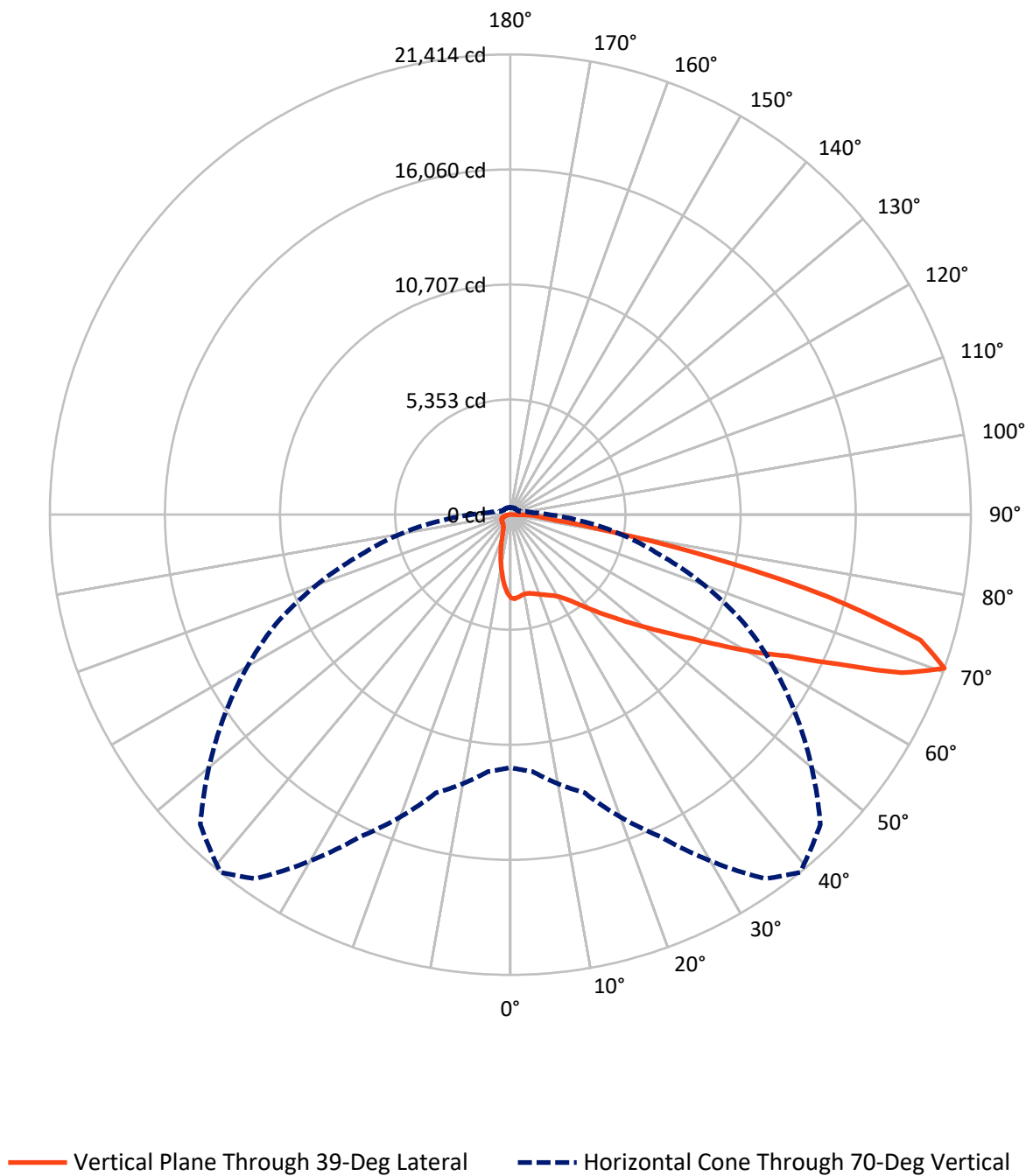


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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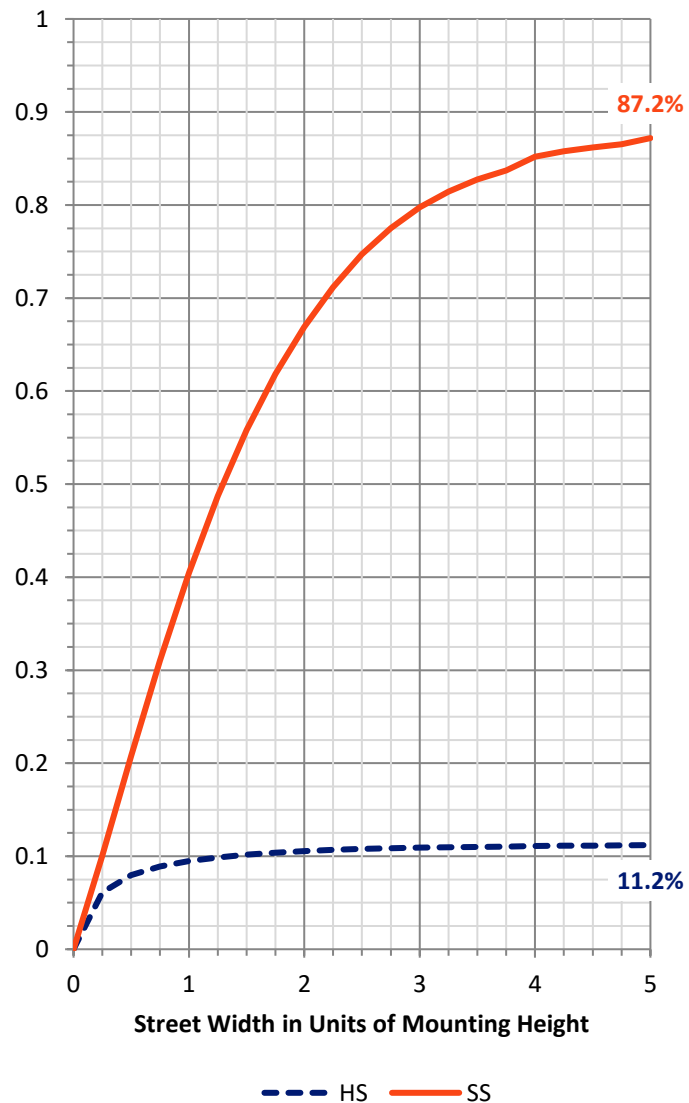
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.5	0.0	2899.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	22594.0	0.0	22594.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	25493.5	0.0	25493.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	1.3
10°-20°	830.2	3.3
20°-30°	1292.7	5.1
30°-40°	2013.8	7.9
40°-50°	3380.8	13.3
50°-60°	5370.7	21.1
60°-70°	7164.0	28.1
70°-80°	4326.1	17.0
80°-90°	783.0	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°	25493.5	100.0
0°-180°	25493.5	100.0

Coefficient of Utilization



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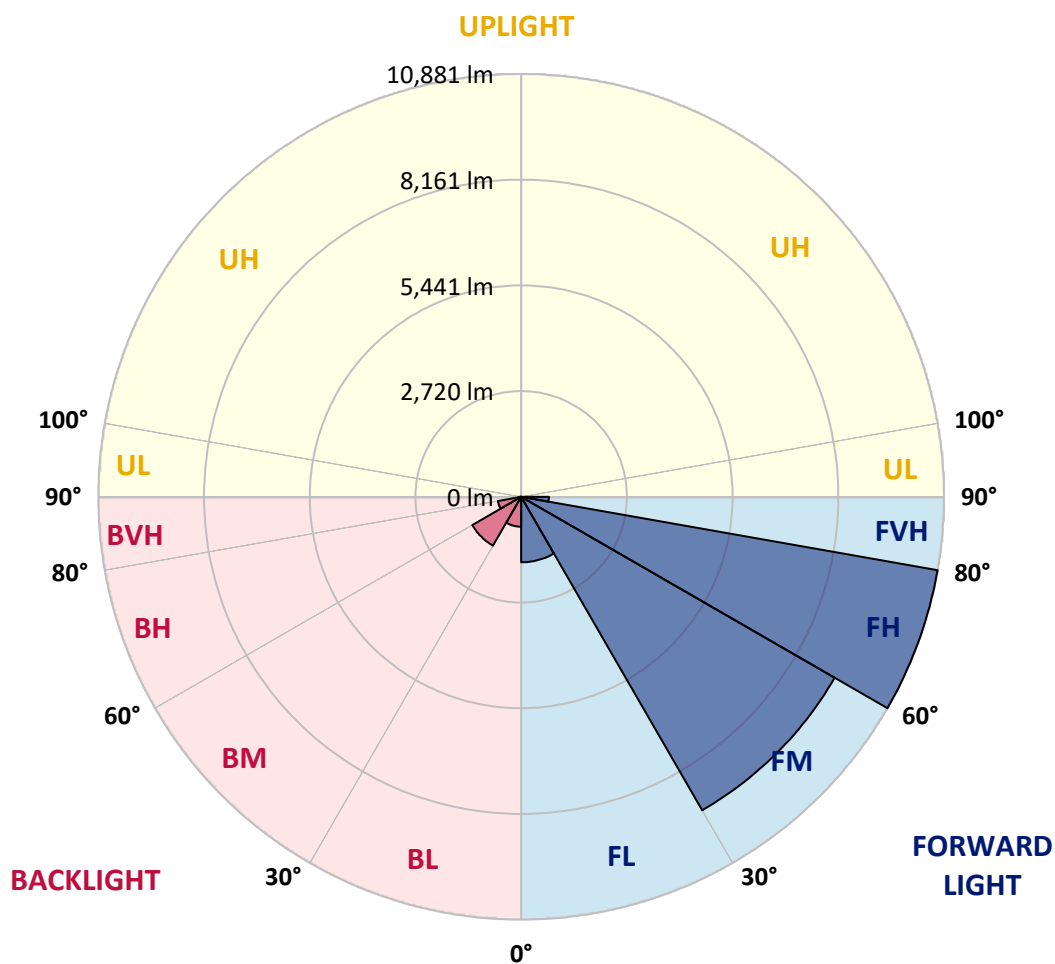
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1685.9	6.6			
FM	(30°-60°)	9314.3	36.5			
FH	(60°-80°)	10881.4	42.7			G4/12000
FVH	(80°-90°)	712.4	2.8			G4/750
BL	(0°-30°)	769.2	3.0	B2/1000		
BM	(30°-60°)	1451.0	5.7	B2/2500		
BH	(60°-80°)	608.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	70.6	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°	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3
2.5°	3945.5	3944.2	3933.8	3926.0	3919.5	3917.0	3922.2	3902.7	3885.8	3865.1	3843.0
5°	3915.7	3914.3	3897.5	3882.0	3866.4	3861.2	3859.9	3824.9	3804.2	3773.0	3731.6
7.5°	3883.3	3876.7	3854.7	3828.8	3801.5	3788.7	3775.7	3730.3	3706.9	3675.9	3628.0
10°	3849.5	3841.8	3821.1	3795.1	3769.2	3749.8	3727.7	3683.6	3659.0	3635.7	3580.0
12.5°	3814.6	3808.1	3802.9	3791.2	3773.0	3756.3	3739.4	3701.8	3675.9	3648.7	3583.8
15°	3809.5	3806.8	3818.5	3826.3	3815.9	3805.5	3787.4	3754.9	3727.7	3700.5	3616.3
17.5°	3850.9	3849.5	3879.4	3900.1	3895.0	3876.7	3852.2	3815.9	3793.8	3770.5	3665.5
20°	3941.6	3948.1	3984.3	4011.6	3985.7	3959.8	3919.5	3869.0	3857.3	3847.0	3716.0
22.5°	4112.7	4119.2	4145.1	4155.4	4088.1	4050.5	3994.7	3929.9	3922.2	3929.9	3777.0
25°	4379.6	4373.2	4369.3	4330.4	4207.3	4149.0	4077.7	4010.3	4014.1	4049.1	3862.6
27.5°	4733.5	4698.5	4644.1	4527.4	4331.7	4266.9	4180.0	4117.9	4142.4	4209.9	3990.8
30°	5100.3	5061.4	4935.8	4745.2	4495.0	4423.8	4326.5	4256.5	4321.3	4427.6	4161.9
32.5°	5439.9	5434.8	5250.7	5005.7	4720.5	4658.4	4561.1	4482.1	4587.0	4749.1	4418.6
35°	5810.6	5822.3	5601.9	5307.7	5025.2	4960.4	4890.3	4830.8	4970.8	5193.6	4790.6
37.5°	6207.2	6230.6	5970.0	5638.3	5372.5	5345.3	5303.9	5277.9	5494.4	5802.9	5310.3
40°	6737.4	6714.1	6352.5	6011.6	5798.9	5797.7	5784.7	5815.9	6176.2	6598.7	5977.8
42.5°	7305.1	7236.4	6758.1	6412.1	6266.9	6311.0	6336.9	6463.9	6996.6	7565.6	6791.8
45°	7916.9	7762.7	7179.4	6836.0	6786.6	6879.9	6968.1	7244.2	7962.3	8666.0	7683.5
47.5°	8405.6	8256.5	7615.0	7280.5	7388.0	7529.4	7699.2	8135.9	9043.3	9802.7	8563.6
50°	8790.5	8693.3	8054.3	7798.9	8050.3	8268.0	8545.5	9145.6	10168.3	10909.6	9379.0
52.5°	9163.8	9091.3	8497.5	8330.4	8828.0	9128.8	9506.0	10229.2	11321.9	11998.5	10064.6
55°	9500.7	9449.0	8974.5	8992.7	9743.2	10134.6	10609.0	11463.2	12579.1	12969.3	10645.2
57.5°	9880.6	9814.4	9518.8	9823.5	10918.8	11426.9	12043.8	12850.0	13758.6	13832.6	11087.3
60°	10262.9	10205.9	10123.0	10782.7	12412.0	12945.9	13530.5	14194.1	14955.0	14502.6	11061.3
62.5°	10594.8	10601.2	10747.8	11789.7	13874.0	14492.2	15205.2	15860.9	16037.3	14619.3	10243.5
65°	11157.2	11259.6	11696.4	13215.6	15932.3	16759.2	17634.1	17529.1	16336.7	13529.2	8489.8
67.5°	11826.1	12006.3	12891.5	15115.7	18533.6	19631.4	19969.8	17906.3	15137.8	10997.8	6051.8
70°	11758.7	12006.3	13407.4	16532.3	20677.5	21413.7	20387.1	16205.8	12020.4	7184.6	3214.4
72.5°	10441.8	10795.6	12356.2	15883.0	20002.2	19937.4	17698.9	12081.5	7141.7	2885.2	1255.9
75°	7958.3	8316.0	9658.9	12548.0	15809.2	15264.7	12558.4	6673.9	2710.2	1145.8	791.9
77.5°	4578.0	4855.4	5892.3	7695.2	10029.6	9470.9	6990.2	2968.1	1319.6	798.4	618.3
80°	2556.0	2710.2	3340.2	3904.1	4915.0	4505.5	3127.6	1844.4	985.1	579.4	477.0
82.5°	2020.7	2158.1	2701.2	2462.7	2245.0	2071.2	1796.4	1642.2	786.7	365.5	285.1
85°	1765.3	1896.3	2286.4	1939.1	1533.4	1406.2	1459.4	1616.3	611.8	220.3	243.6
87.5°	1635.7	1810.8	2037.5	1494.4	1193.7	1057.6	1346.7	1771.8	197.0	137.3	98.6
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°	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3	3870.3
2.5°	3823.6	3802.9	3769.2	3739.4	3692.8	3668.1	3640.8	3621.4	3605.9	3592.9	3613.6
5°	3705.7	3666.8	3595.5	3519.0	3428.3	3357.0	3297.5	3241.7	3202.8	3176.8	3195.0
7.5°	3594.2	3530.7	3419.3	3280.5	3125.1	2992.8	2883.9	2788.0	2721.8	2679.1	2696.0
10°	3530.7	3451.6	3279.3	3061.6	2832.1	2626.0	2454.9	2307.1	2204.8	2146.4	2155.4
12.5°	3515.2	3412.7	3174.3	2874.8	2561.1	2274.8	2033.7	1828.9	1685.0	1609.8	1612.4
15°	3526.8	3395.9	3075.7	2696.0	2299.4	1937.7	1637.0	1388.1	1221.0	1135.4	1134.1
17.5°	3546.2	3383.0	2972.1	2502.9	2033.7	1613.8	1278.0	1034.3	886.5	818.0	812.7
20°	3567.0	3362.2	2855.4	2294.2	1757.6	1313.0	1000.6	810.0	716.7	679.1	676.7
22.5°	3596.9	3344.1	2734.9	2073.8	1486.7	1069.3	823.0	694.8	645.5	626.0	623.5
25°	3644.8	3335.0	2606.6	1844.4	1243.1	894.4	716.7	637.7	609.2	596.2	594.9
27.5°	3725.0	3347.9	2485.9	1621.5	1044.7	776.4	657.2	609.2	588.5	576.8	575.5
30°	3828.8	3388.1	2359.0	1410.2	890.5	696.0	620.8	589.8	572.8	561.3	561.3
32.5°	4001.2	3455.6	2225.5	1227.4	780.3	640.3	593.6	572.8	558.7	549.6	548.3
35°	4255.2	3582.6	2101.0	1075.7	701.2	600.2	570.4	554.7	544.3	539.2	539.2
37.5°	4624.6	3783.4	1990.9	967.0	653.3	572.8	548.3	536.6	530.1	530.1	530.1
40°	5121.1	4060.8	1901.4	894.4	626.0	553.5	531.4	522.4	518.4	519.7	519.7
42.5°	5734.2	4421.1	1841.8	843.8	613.1	541.8	519.7	512.0	508.0	506.8	508.0
45°	6432.7	4830.8	1835.3	806.3	600.2	534.1	512.0	504.2	496.5	491.2	491.2
47.5°	7112.0	5246.8	1888.4	793.2	585.8	525.0	505.6	497.6	486.1	474.4	474.4
50°	7712.1	5600.6	1959.8	798.4	580.7	512.0	495.2	491.2	473.1	460.1	458.9
52.5°	8189.1	5872.9	2018.1	814.0	585.8	502.9	482.2	483.5	464.1	449.7	448.5
55°	8571.4	6051.8	2002.5	829.5	597.5	497.6	470.5	473.1	457.6	443.3	443.3
57.5°	8738.7	5985.7	1830.2	816.6	606.6	499.0	461.4	471.8	458.9	445.9	445.9
60°	8379.6	5398.5	1507.4	759.6	594.9	495.2	457.6	477.0	475.8	462.7	461.4
62.5°	7293.4	4347.3	1169.1	675.3	554.7	475.8	447.2	475.8	489.9	486.1	484.8
65°	5621.4	3096.5	893.0	584.5	500.3	443.3	420.0	445.9	465.3	470.5	469.2
67.5°	3648.7	1897.7	688.3	499.0	439.4	405.7	384.9	396.6	400.6	400.6	397.9
70°	1793.8	1021.3	548.3	420.0	377.2	365.5	353.9	347.3	340.9	335.8	335.8
72.5°	885.2	667.5	451.0	355.1	325.4	320.1	317.5	309.8	304.7	298.2	295.5
75°	654.6	543.1	383.6	299.4	279.9	274.8	279.9	273.4	272.2	267.0	264.4
77.5°	537.9	462.7	330.5	256.6	239.9	230.7	238.5	239.9	241.1	233.3	230.7
80°	436.8	391.4	276.1	212.6	197.0	190.5	195.7	206.1	208.6	197.0	191.9
82.5°	315.0	320.1	222.9	165.8	153.0	147.7	158.1	171.1	173.7	156.8	153.0
85°	264.4	267.0	171.1	118.0	105.0	97.2	114.0	127.1	136.1	119.2	115.4
87.5°	110.2	156.8	98.6	66.1	58.4	50.6	60.9	67.4	81.6	75.2	73.9
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)