

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: P192881

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16471.9 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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



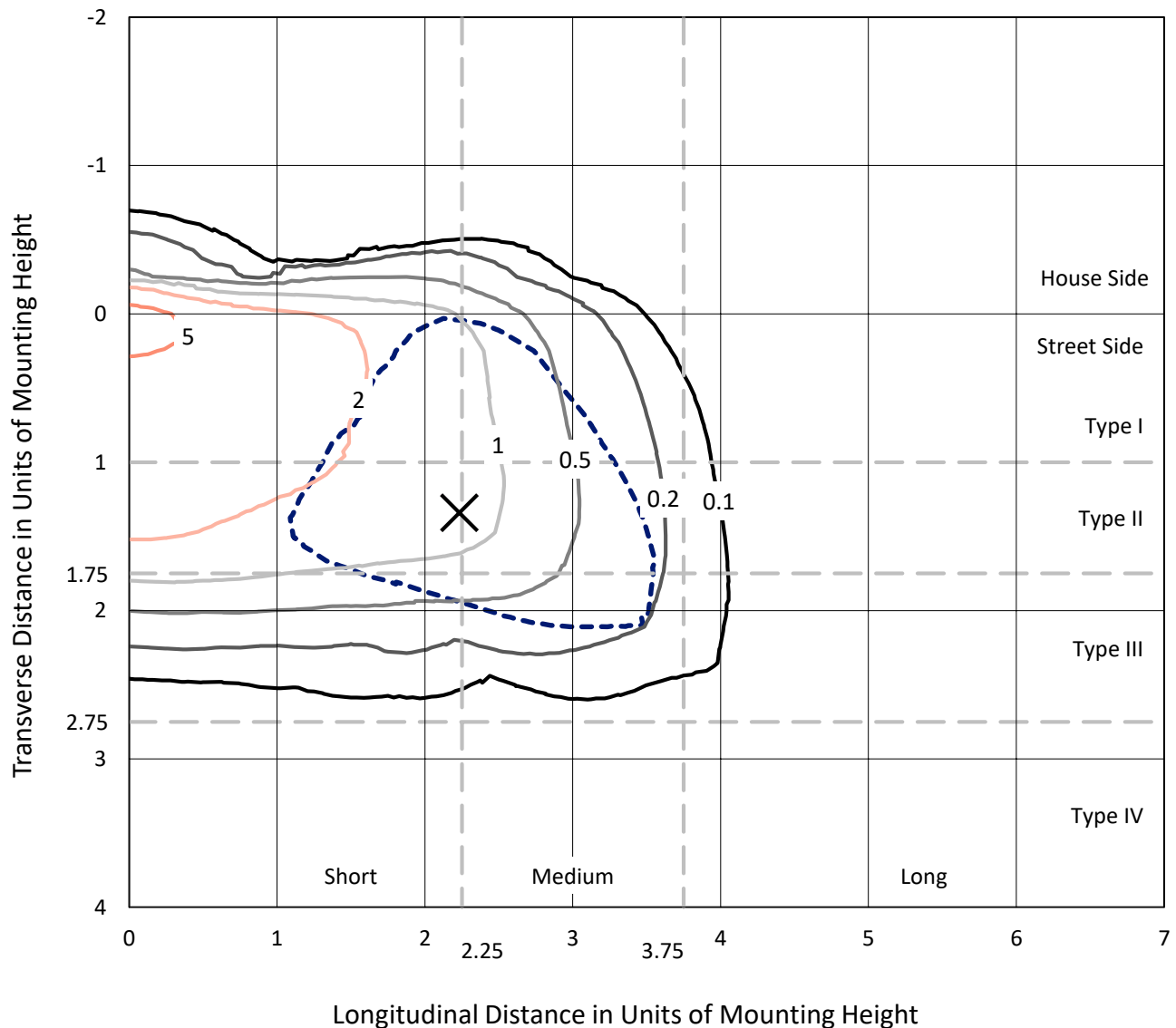
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

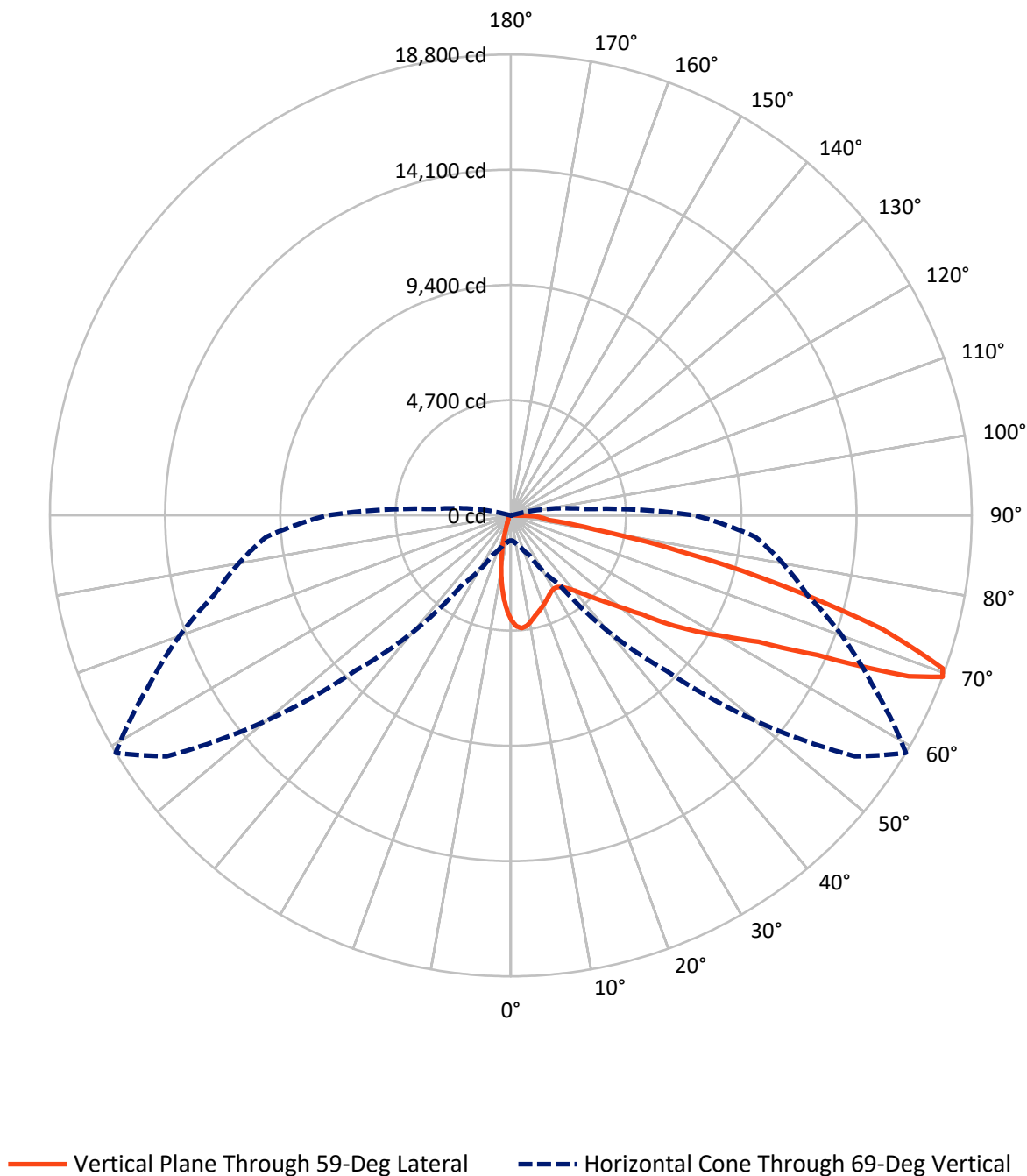


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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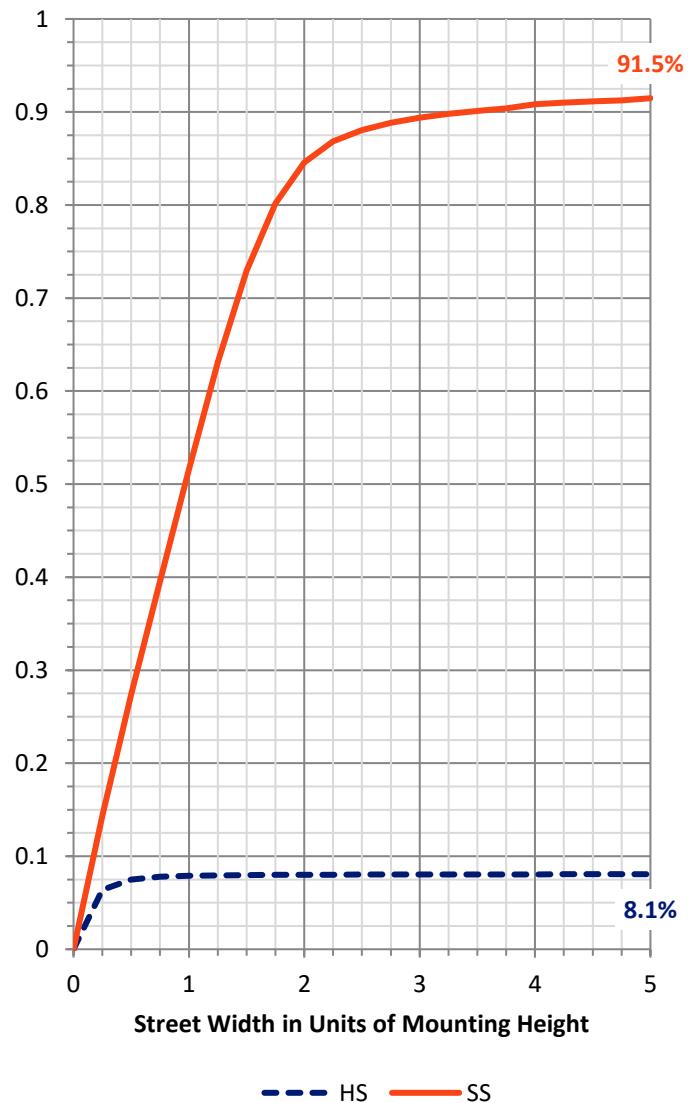
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.4	0.0	1341.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	15130.5	0.0	15130.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	16471.9	0.0	16471.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.0	2.1
10°-20°	719.1	4.4
20°-30°	967.6	5.9
30°-40°	1404.9	8.5
40°-50°	2339.3	14.2
50°-60°	3649.3	22.2
60°-70°	4515.7	27.4
70°-80°	2288.5	13.9
80°-90°	239.5	1.5
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°	16471.9	100.0
0°-180°	16471.9	100.0

Coefficient of Utilization



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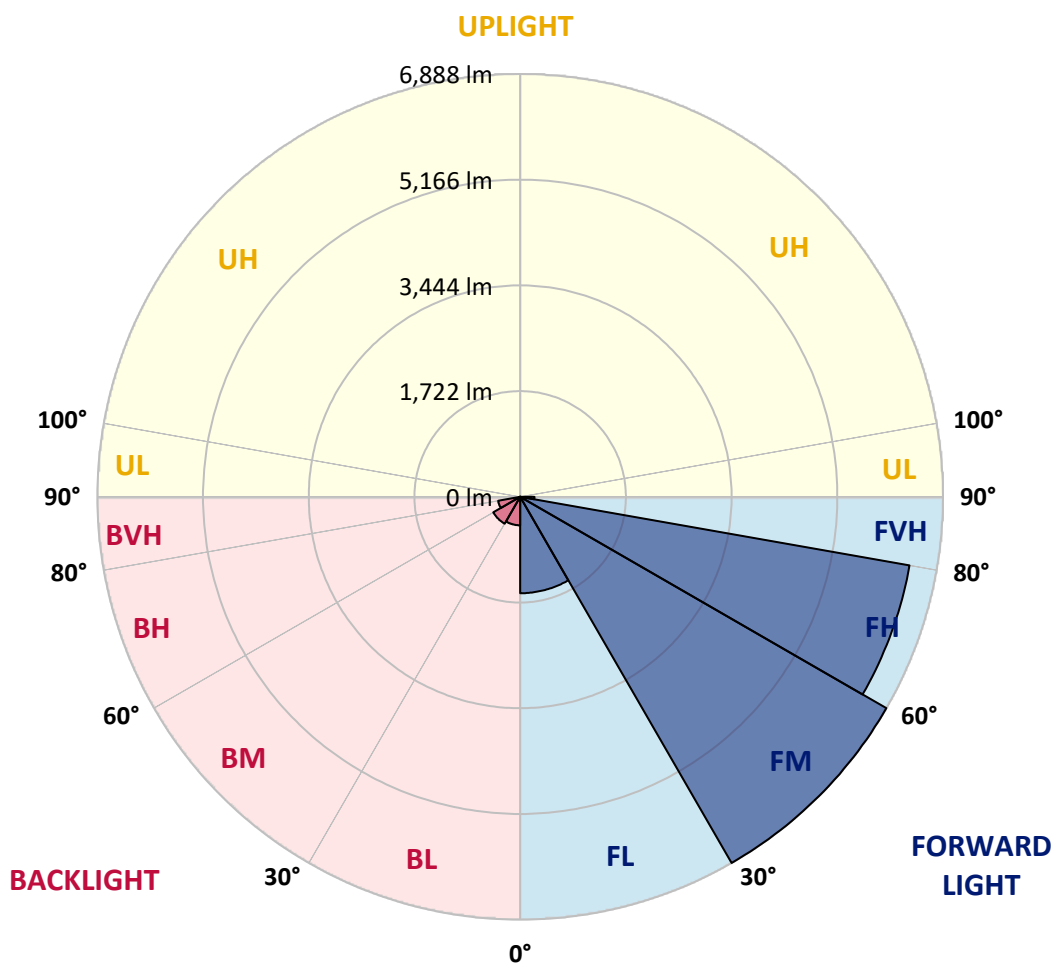
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1570.4	9.5			
FM	(30°-60°)	6888.1	41.8			
FH	(60°-80°)	6439.9	39.1			G3/7500
FVH	(80°-90°)	232.1	1.4			G3/500
BL	(0°-30°)	464.3	2.8	B1/500		
BM	(30°-60°)	505.5	3.1	B1/1000		
BH	(60°-80°)	364.3	2.2	B1/500		G1/500
BVH	(80°-90°)	7.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5
2.5°	4699.1	4697.3	4676.8	4667.4	4650.7	4615.3	4560.4	4531.4	4484.9	4403.8	4294.9
5°	4656.3	4678.6	4690.7	4691.7	4703.7	4690.7	4641.4	4617.2	4552.9	4422.5	4226.9
7.5°	4365.7	4374.0	4408.5	4438.3	4496.0	4550.9	4568.6	4558.6	4520.3	4380.5	4120.7
10°	4054.5	4063.0	4103.9	4143.0	4221.2	4306.0	4395.5	4414.1	4429.9	4320.9	4018.2
12.5°	3786.3	3794.7	3836.6	3887.9	3979.1	4083.4	4222.3	4252.9	4322.9	4264.2	3936.3
15°	3555.3	3559.0	3600.0	3663.4	3772.2	3906.4	4063.9	4113.3	4220.3	4224.1	3864.5
17.5°	3358.7	3368.1	3393.3	3453.8	3573.0	3738.8	3922.3	3993.1	4118.8	4190.5	3794.7
20°	3238.7	3248.0	3246.9	3280.5	3387.7	3564.6	3780.7	3865.5	4018.2	4156.1	3732.3
22.5°	3215.3	3215.3	3191.1	3186.4	3249.8	3397.9	3633.5	3736.8	3927.9	4141.2	3688.5
25°	3298.2	3294.5	3234.0	3184.6	3187.4	3275.9	3491.1	3614.0	3851.5	4151.5	3665.2
27.5°	3473.4	3468.7	3392.3	3298.2	3222.8	3221.8	3383.0	3515.2	3791.0	4199.8	3674.5
30°	3715.5	3713.6	3630.8	3512.4	3375.6	3249.8	3345.7	3465.9	3751.9	4287.5	3695.9
32.5°	3980.0	3977.2	3914.9	3789.9	3616.8	3375.6	3384.9	3485.5	3763.0	4403.8	3748.1
35°	4260.4	4255.7	4228.8	4119.7	3928.9	3607.4	3513.3	3591.7	3833.8	4578.1	3850.7
37.5°	4564.1	4568.6	4588.3	4484.0	4283.7	3932.6	3728.6	3781.7	3976.3	4814.6	4017.3
40°	5012.0	5011.1	5017.6	4880.7	4688.0	4330.3	4029.4	4046.2	4214.7	5128.5	4270.6
42.5°	5825.2	5768.5	5596.0	5316.7	5122.9	4784.8	4408.5	4390.8	4506.3	5516.9	4625.5
45°	6917.7	6796.7	6349.6	5814.0	5566.3	5297.1	4875.1	4818.4	4891.9	5983.6	5063.3
47.5°	7857.6	7731.8	7099.4	6331.9	6036.7	5783.3	5421.9	5319.4	5343.7	6506.1	5618.4
50°	8177.1	8115.7	7563.3	6782.7	6492.1	6395.3	6056.2	5931.3	5896.9	7110.6	6262.0
52.5°	8066.3	8061.5	7693.7	7075.2	6909.4	7028.6	6854.5	6710.0	6583.4	7747.7	6916.8
55°	7888.4	7911.7	7746.8	7331.4	7325.8	7607.0	7946.1	7825.9	7458.9	8439.7	7481.3
57.5°	7397.5	7497.2	7717.0	7815.8	8044.9	8332.6	8855.3	8925.9	8491.9	8969.7	7949.8
60°	6002.1	6221.1	6940.1	7885.6	8971.6	9688.8	9952.4	10012.9	9339.6	9410.3	8582.4
62.5°	4260.4	4484.0	5395.9	6995.1	8985.6	11470.7	11587.1	11349.7	10272.9	10063.3	9673.0
65°	2261.5	2433.9	3179.0	5049.3	7790.5	11884.2	14445.7	13737.8	11919.6	11347.7	11082.2
67.5°	1156.8	1209.0	1505.1	2471.1	5355.8	10556.0	17008.1	17506.4	14757.7	12621.9	11014.3
69°	1023.6	1054.4	1250.9	1786.5	3429.5	8940.9	17133.0	18800.1	16243.3	12515.7	10009.2
70°	991.1	1018.1	1196.9	1616.9	2680.6	7498.1	16655.1	18686.5	16623.4	12111.5	9258.5
72.5°	841.1	864.4	1065.6	1428.8	2178.6	3722.0	13529.1	15834.5	14916.9	10089.3	6701.8
75°	562.5	638.9	1022.6	1339.4	2026.8	2114.3	8919.5	11442.7	10629.7	6805.1	3491.1
77.5°	135.1	145.4	288.8	1065.6	1853.6	1861.0	4587.4	7113.5	5801.8	2425.4	825.2
80°	72.6	69.8	81.1	211.4	1726.0	1746.4	2065.0	3452.8	2071.5	402.4	271.9
82.5°	51.3	48.4	52.1	88.5	543.0	1591.0	1494.0	1563.0	858.8	154.6	122.1
85°	18.7	17.7	28.9	80.1	170.5	914.7	1535.0	1289.1	695.8	70.8	89.4
87.5°	6.5	5.6	11.2	43.8	52.1	389.3	947.3	974.3	273.8	42.8	41.9
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°	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5	4287.5
2.5°	4249.2	4191.5	4085.3	3976.3	3875.8	3754.5	3694.0	3634.5	3609.4	3600.0	3556.3
5°	4126.2	4028.5	3803.1	3576.7	3368.1	3146.4	3000.2	2882.8	2813.9	2780.3	2727.2
7.5°	3968.9	3808.7	3466.8	3117.5	2792.4	2472.0	2234.6	2052.0	1926.2	1865.7	1810.8
10°	3816.1	3602.9	3116.6	2640.6	2199.2	1774.4	1446.5	1209.0	1057.2	987.3	942.6
12.5°	3679.2	3402.6	2778.5	2175.8	1621.6	1124.3	790.8	601.7	507.6	475.1	459.2
15°	3557.2	3218.1	2459.0	1734.4	1098.2	642.7	432.2	367.8	353.0	353.0	351.2
17.5°	3441.6	3037.4	2150.7	1319.9	689.3	393.2	328.8	320.4	320.4	324.2	324.2
20°	3330.9	2865.1	1852.6	947.3	434.1	312.1	297.0	295.2	297.0	301.8	301.8
22.5°	3235.8	2708.6	1574.1	650.1	322.4	281.4	273.8	271.1	271.9	274.8	276.7
25°	3165.0	2576.4	1311.4	440.6	277.5	256.1	247.8	243.1	239.4	239.4	241.3
27.5°	3120.3	2464.6	1057.2	320.4	249.6	232.8	219.8	212.4	204.0	199.3	201.1
30°	3087.6	2358.4	818.8	261.7	223.6	206.8	190.0	177.9	165.7	160.2	162.0
32.5°	3075.6	2272.7	612.0	231.0	200.3	181.6	161.1	145.4	132.3	127.7	128.5
35°	3108.2	2204.8	448.1	208.6	181.6	158.3	135.1	117.4	107.1	104.4	105.2
37.5°	3193.8	2168.4	335.3	190.0	164.9	138.8	112.7	95.9	89.4	89.4	90.3
40°	3356.0	2167.4	269.3	177.0	150.0	120.1	93.2	81.1	77.3	79.2	80.1
42.5°	3592.6	2216.9	234.7	164.9	136.9	102.4	77.3	69.0	68.0	69.8	70.8
45°	3915.8	2307.2	216.2	154.6	122.9	85.7	65.2	59.6	59.6	62.4	63.4
47.5°	4311.6	2439.4	200.3	144.3	108.9	71.7	55.9	52.1	53.1	55.9	56.9
50°	4788.5	2606.2	184.4	133.2	98.8	59.6	48.4	45.7	46.6	50.3	51.3
52.5°	5331.6	2830.7	171.4	122.9	85.7	49.3	41.0	39.2	41.0	44.7	45.7
55°	5797.3	3031.8	155.5	114.6	69.0	41.0	33.6	33.6	35.4	40.1	41.0
57.5°	6245.3	3242.4	141.6	98.8	54.0	32.6	28.0	28.9	31.6	36.3	37.2
60°	6902.9	3599.1	124.8	82.9	41.0	26.1	23.3	24.2	28.0	32.6	33.6
62.5°	8019.7	4142.1	108.0	69.0	31.6	20.5	18.7	20.5	25.1	30.7	31.6
65°	9027.5	4362.8	88.5	57.8	24.2	15.9	15.9	18.7	24.2	29.8	30.7
67.5°	8465.9	3672.6	69.0	45.7	18.7	12.1	13.0	17.7	23.3	29.8	30.7
69°	7486.9	3003.0	58.7	36.3	15.9	11.2	12.1	17.7	23.3	28.9	29.8
70°	6724.1	2535.4	52.1	30.7	13.9	11.2	12.1	16.7	23.3	28.9	29.8
72.5°	4503.5	1369.2	41.9	22.4	13.0	10.3	10.3	16.7	22.4	28.0	28.9
75°	1935.5	378.1	33.6	15.9	11.2	9.3	9.3	15.9	21.5	27.0	28.9
77.5°	354.0	95.9	27.0	13.9	11.2	9.3	8.4	14.9	20.5	26.1	27.0
80°	140.6	47.5	21.5	12.1	10.3	8.4	7.4	13.9	19.5	25.1	26.1
82.5°	84.7	27.0	17.7	11.2	10.3	7.4	6.5	12.1	18.7	24.2	25.1
85°	69.0	18.7	13.9	11.2	9.3	7.4	5.6	11.2	16.7	23.3	24.2
87.5°	33.6	13.0	13.0	10.3	9.3	7.4	5.6	10.3	15.9	22.4	23.3
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)