

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: P192871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192871
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 15015.5 lumens
Efficiency: N/A
Efficacy: 90.5 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): 166
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



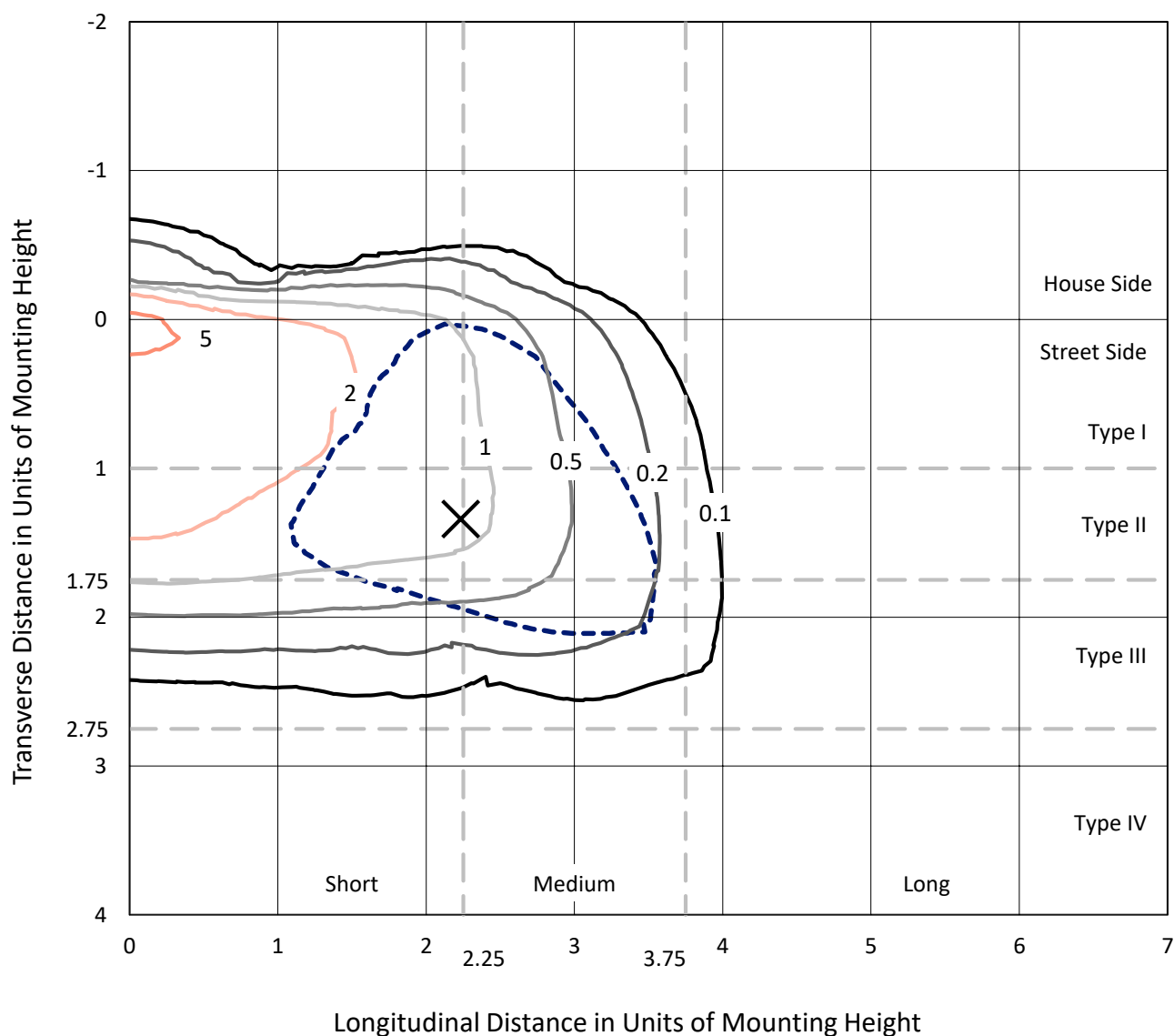
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

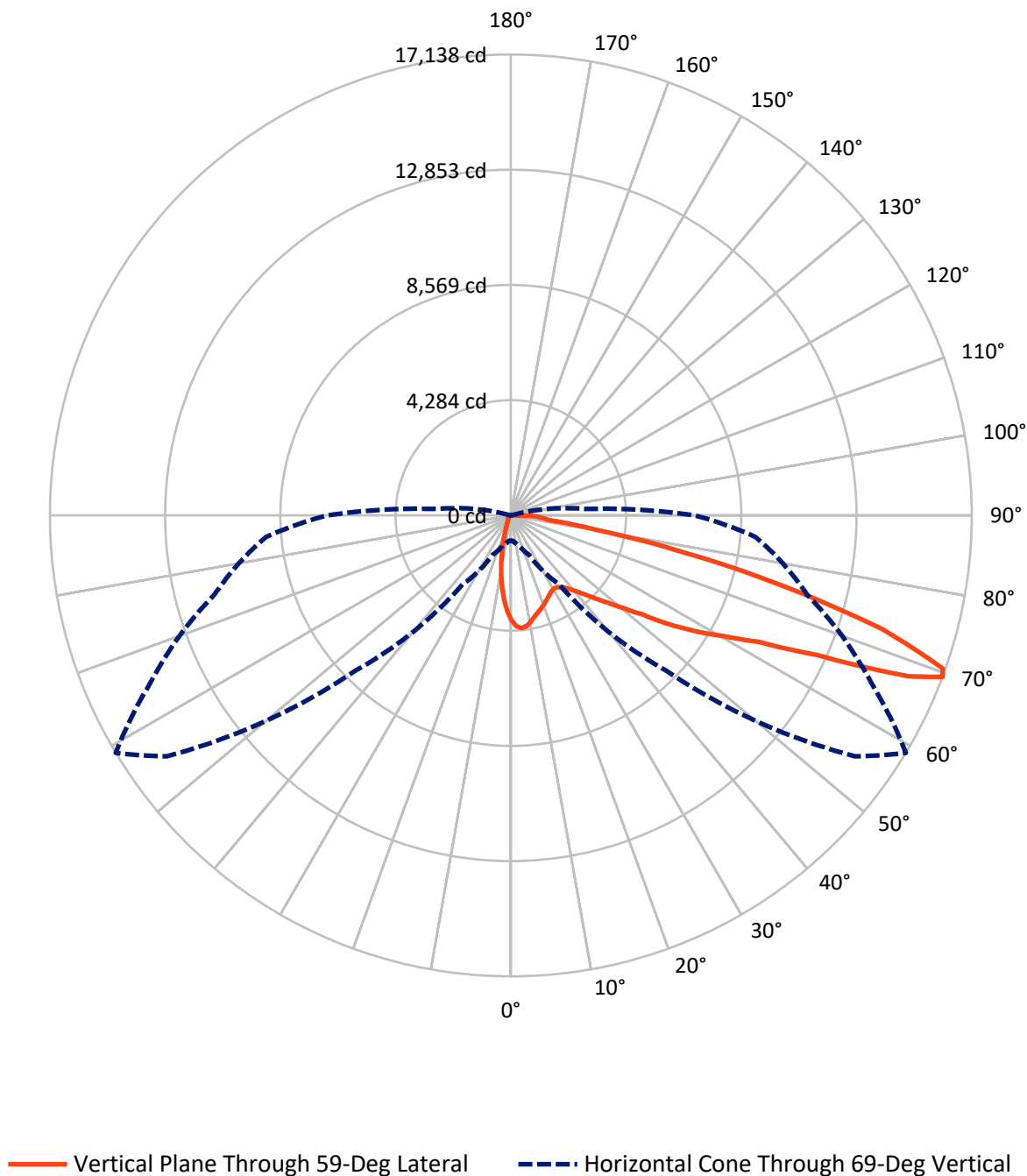


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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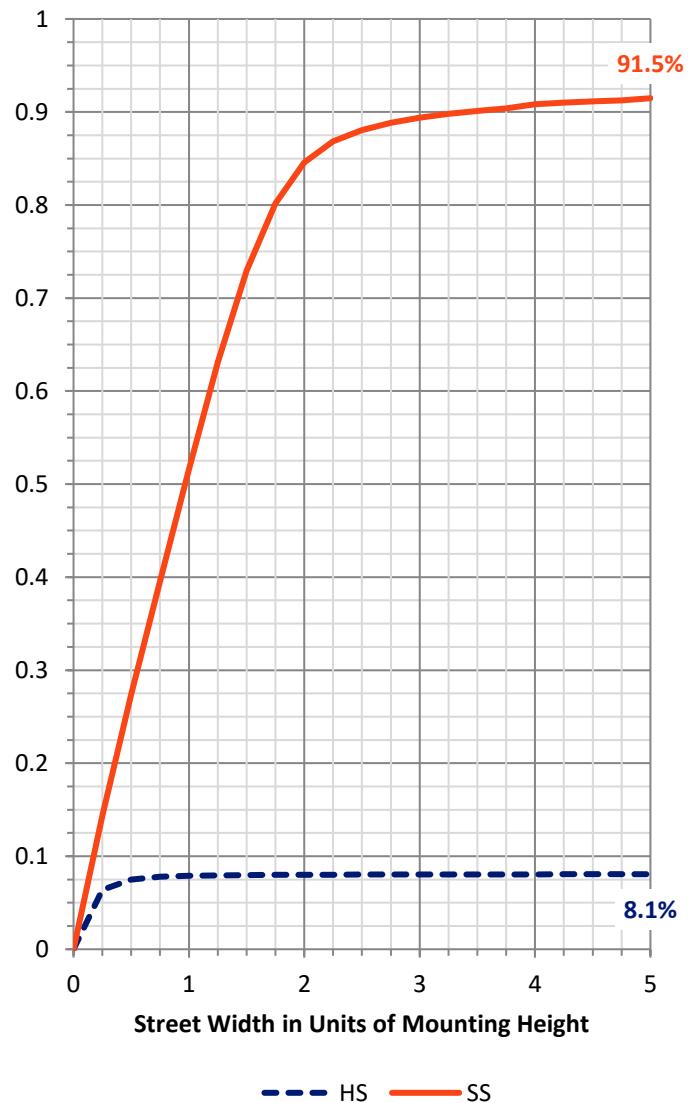
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.8	0.0	1222.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	13792.7	0.0	13792.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	15015.5	0.0	15015.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	2.1
10°-20°	655.5	4.4
20°-30°	882.1	5.9
30°-40°	1280.7	8.5
40°-50°	2132.5	14.2
50°-60°	3326.6	22.2
60°-70°	4116.4	27.4
70°-80°	2086.2	13.9
80°-90°	218.3	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°	15015.5	100.0
0°-180°	15015.5	100.0

Coefficient of Utilization



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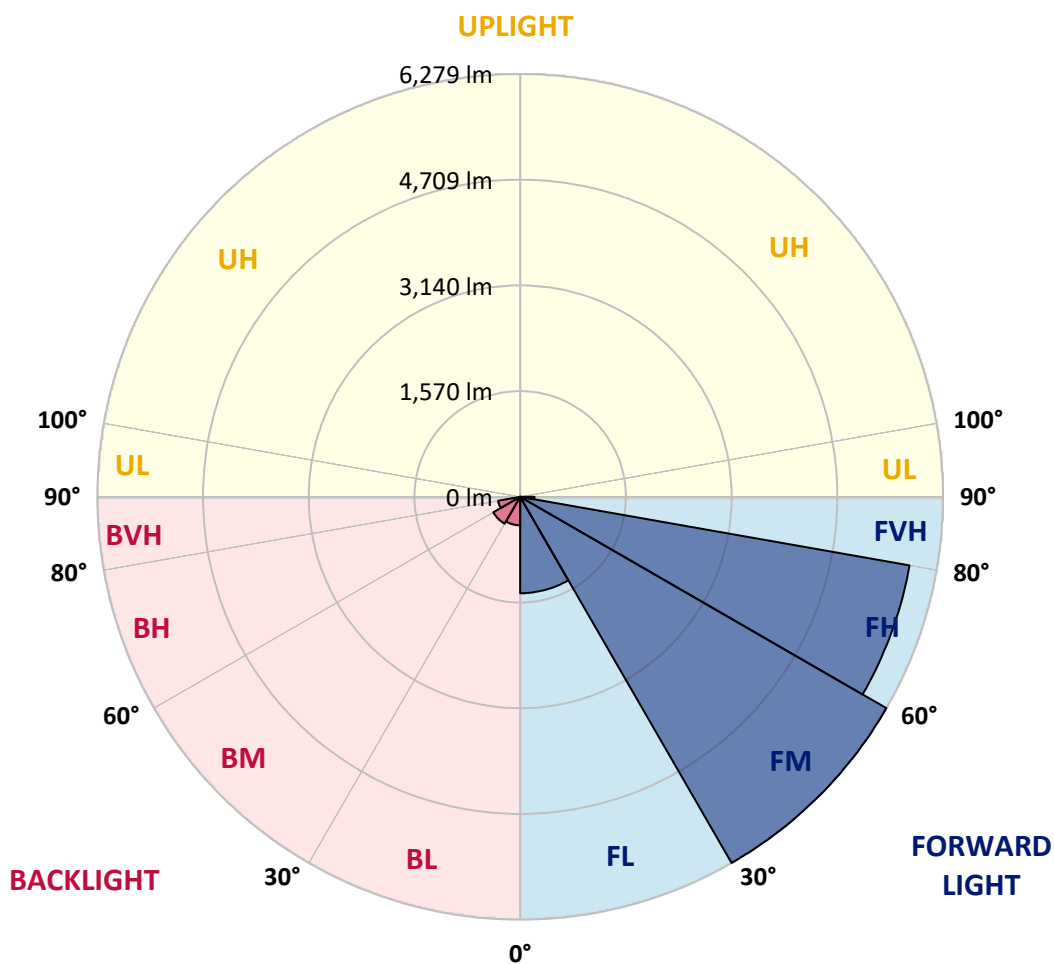
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1431.6	9.5			
FM	(30°-60°)	6279.0	41.8			
FH	(60°-80°)	5870.5	39.1			G3/7500
FVH	(80°-90°)	211.6	1.4			G2/225
BL	(0°-30°)	423.3	2.8	B1/500		
BM	(30°-60°)	460.8	3.1	B1/1000		
BH	(60°-80°)	332.1	2.2	B1/500		G1/500
BVH	(80°-90°)	6.7	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°	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3
2.5°	4283.6	4281.9	4263.3	4254.8	4239.5	4207.2	4157.1	4130.8	4088.4	4014.5	3915.1
5°	4244.6	4264.9	4276.0	4276.9	4287.9	4276.0	4230.9	4208.8	4150.3	4031.4	3853.1
7.5°	3979.7	3987.3	4018.7	4045.9	4098.6	4148.6	4164.8	4155.4	4120.6	3993.2	3756.4
10°	3696.0	3703.7	3741.0	3776.8	3848.0	3925.3	4006.9	4023.8	4038.2	3938.9	3662.9
12.5°	3451.5	3459.1	3497.4	3544.1	3627.3	3722.4	3848.8	3876.9	3940.6	3887.1	3588.2
15°	3240.9	3244.4	3281.7	3339.4	3438.8	3561.1	3704.6	3749.6	3847.2	3850.7	3522.8
17.5°	3061.8	3070.3	3093.2	3148.5	3257.1	3408.3	3575.5	3640.0	3754.7	3820.0	3459.1
20°	2952.3	2960.7	2960.0	2990.4	3088.1	3249.5	3446.5	3523.7	3662.9	3788.6	3402.3
22.5°	2931.0	2931.0	2908.9	2904.6	2962.4	3097.5	3312.3	3406.4	3580.5	3775.0	3362.4
25°	3006.6	3003.2	2948.1	2903.0	2905.5	2986.3	3182.4	3294.5	3510.9	3784.4	3341.1
27.5°	3166.3	3162.0	3092.4	3006.6	2937.9	2937.0	3083.9	3204.5	3455.8	3828.6	3349.7
30°	3387.0	3385.3	3309.7	3201.9	3077.1	2962.4	3049.9	3159.4	3420.2	3908.3	3369.1
32.5°	3628.2	3625.6	3568.7	3454.9	3297.0	3077.1	3085.6	3177.3	3430.3	4014.5	3416.7
35°	3883.7	3879.5	3854.8	3755.5	3581.4	3288.4	3202.7	3274.1	3494.8	4173.2	3510.1
37.5°	4160.5	4164.8	4182.6	4087.5	3904.9	3584.8	3398.8	3447.2	3624.7	4389.0	3662.1
40°	4568.9	4568.0	4574.0	4449.1	4273.4	3947.4	3673.1	3688.4	3842.1	4675.1	3893.0
42.5°	5310.1	5258.3	5101.4	4846.5	4670.0	4361.7	4018.7	4002.6	4107.8	5029.1	4216.6
45°	6306.1	6195.8	5788.2	5299.9	5074.1	4828.7	4444.1	4392.3	4459.4	5454.6	4615.6
47.5°	7162.8	7048.2	6471.8	5772.0	5503.0	5272.0	4942.6	4849.2	4871.3	5930.8	5121.6
50°	7454.1	7398.1	6894.6	6183.0	5918.1	5829.7	5520.8	5406.9	5375.5	6482.0	5708.4
52.5°	7353.0	7348.8	7013.5	6449.7	6298.5	6407.2	6248.4	6116.8	6001.3	7062.6	6305.3
55°	7190.9	7212.1	7061.9	6683.2	6678.0	6934.4	7243.6	7134.0	6799.4	7693.5	6819.9
57.5°	6743.4	6834.2	7034.6	7124.7	7333.5	7595.9	8072.2	8136.7	7741.1	8176.6	7246.9
60°	5471.4	5671.0	6326.5	7188.3	8178.4	8832.2	9072.5	9127.6	8513.7	8578.3	7823.4
62.5°	3883.7	4087.5	4918.8	6376.6	8191.0	10456.4	10562.6	10346.1	9364.5	9173.5	8817.8
65°	2061.6	2218.6	2897.9	4602.9	7101.8	10833.5	13168.5	12523.1	10865.8	10344.3	10102.4
67.5°	1054.6	1102.1	1372.1	2252.6	4882.2	9622.7	15504.2	15958.5	13452.9	11505.9	10040.4
69°	933.2	961.2	1140.3	1628.5	3126.4	8150.3	15618.1	17137.9	14807.2	11409.1	9124.2
70°	903.5	928.0	1091.1	1474.0	2443.7	6835.2	15182.4	17034.3	15153.6	11040.6	8439.8
72.5°	766.7	788.0	971.4	1302.5	1986.0	3392.9	12332.9	14434.4	13598.1	9197.2	6109.1
75°	512.9	582.5	932.3	1221.0	1847.6	1927.5	8130.8	10431.0	9689.7	6203.4	3182.4
77.5°	123.1	132.4	263.2	971.4	1689.7	1696.5	4181.7	6484.4	5288.9	2211.0	752.2
80°	66.2	63.7	73.9	192.8	1573.4	1592.0	1882.4	3147.5	1888.3	366.8	247.9
82.5°	46.7	44.1	47.5	80.7	495.1	1450.2	1361.9	1424.7	782.9	141.0	111.2
85°	16.9	16.2	26.3	72.9	155.3	833.7	1399.3	1175.1	634.2	64.6	81.5
87.5°	5.9	5.1	10.2	39.9	47.5	354.9	863.4	888.2	249.6	39.0	38.2
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°	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3
2.5°	3873.6	3820.9	3724.1	3624.7	3533.0	3422.6	3367.5	3313.1	3290.3	3281.7	3241.8
5°	3761.5	3672.3	3466.8	3260.6	3070.3	2868.2	2734.9	2627.9	2565.1	2534.5	2486.0
7.5°	3617.9	3471.9	3160.4	2841.9	2545.5	2253.5	2036.9	1870.5	1755.9	1700.7	1650.6
10°	3478.7	3284.3	2841.1	2407.2	2004.7	1617.5	1318.6	1102.1	963.6	900.1	859.4
12.5°	3353.8	3101.7	2532.8	1983.5	1478.3	1024.9	720.9	548.5	462.7	433.0	418.6
15°	3242.6	2933.6	2241.6	1581.0	1001.1	585.8	394.0	335.4	321.8	321.8	320.1
17.5°	3137.4	2768.8	1960.5	1203.2	628.4	358.3	299.7	292.0	292.0	295.4	295.4
20°	3036.4	2611.8	1688.8	863.4	395.6	284.4	270.9	269.1	270.9	275.2	275.2
22.5°	2949.7	2469.2	1434.9	592.6	293.8	256.4	249.6	247.0	247.9	250.5	252.2
25°	2885.2	2348.5	1195.6	401.6	253.1	233.5	225.8	221.6	218.2	218.2	219.9
27.5°	2844.4	2246.7	963.6	292.0	227.6	212.3	200.4	193.6	186.0	181.7	183.4
30°	2814.7	2149.9	746.4	238.6	203.8	188.5	173.1	162.1	151.1	146.1	147.7
32.5°	2803.7	2071.8	557.9	210.6	182.6	165.5	146.9	132.4	120.6	116.4	117.1
35°	2833.4	2009.9	408.4	190.2	165.5	144.3	123.1	107.0	97.7	95.0	95.9
37.5°	2911.5	1976.7	305.7	173.1	150.3	126.5	102.7	87.4	81.5	81.5	82.4
40°	3059.3	1975.9	245.4	161.3	136.7	109.5	84.9	73.9	70.5	72.2	72.9
42.5°	3274.9	2020.9	213.9	150.3	124.8	93.4	70.5	62.9	62.0	63.7	64.6
45°	3569.5	2103.1	197.0	141.0	112.1	78.1	59.4	54.3	54.3	57.0	57.7
47.5°	3930.4	2223.8	182.6	131.6	99.3	65.3	51.0	47.5	48.4	51.0	51.8
50°	4365.1	2375.8	168.2	121.4	90.0	54.3	44.1	41.6	42.5	45.9	46.7
52.5°	4860.2	2580.3	156.2	112.1	78.1	45.1	37.3	35.6	37.3	40.8	41.6
55°	5284.7	2763.7	141.8	104.5	62.9	37.3	30.6	30.6	32.2	36.5	37.3
57.5°	5693.1	2955.7	129.0	90.0	49.2	29.7	25.4	26.3	28.9	33.1	34.0
60°	6292.6	3280.8	113.7	75.6	37.3	23.8	21.2	22.1	25.4	29.7	30.6
62.5°	7310.6	3775.9	98.5	62.9	28.9	18.7	16.9	18.7	23.0	28.0	28.9
65°	8229.3	3977.1	80.7	52.7	22.1	14.4	14.4	16.9	22.1	27.2	28.0
67.5°	7717.3	3347.9	62.9	41.6	16.9	11.0	11.9	16.2	21.2	27.2	28.0
69°	6824.9	2737.5	53.5	33.1	14.4	10.2	11.0	16.2	21.2	26.3	27.2
70°	6129.6	2311.2	47.5	28.0	12.8	10.2	11.0	15.3	21.2	26.3	27.2
72.5°	4105.3	1248.2	38.2	20.4	11.9	9.3	9.3	15.3	20.4	25.4	26.3
75°	1764.4	344.7	30.6	14.4	10.2	8.5	8.5	14.4	19.5	24.6	26.3
77.5°	322.7	87.4	24.6	12.8	10.2	8.5	7.6	13.5	18.7	23.8	24.6
80°	128.2	43.2	19.5	11.0	9.3	7.6	6.8	12.8	17.8	23.0	23.8
82.5°	77.2	24.6	16.2	10.2	9.3	6.8	5.9	11.0	16.9	22.1	23.0
85°	62.9	16.9	12.8	10.2	8.5	6.8	5.1	10.2	15.3	21.2	22.1
87.5°	30.6	11.9	11.9	9.3	8.5	6.8	5.1	9.3	14.4	20.4	21.2
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)