

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: P192784

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23042.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

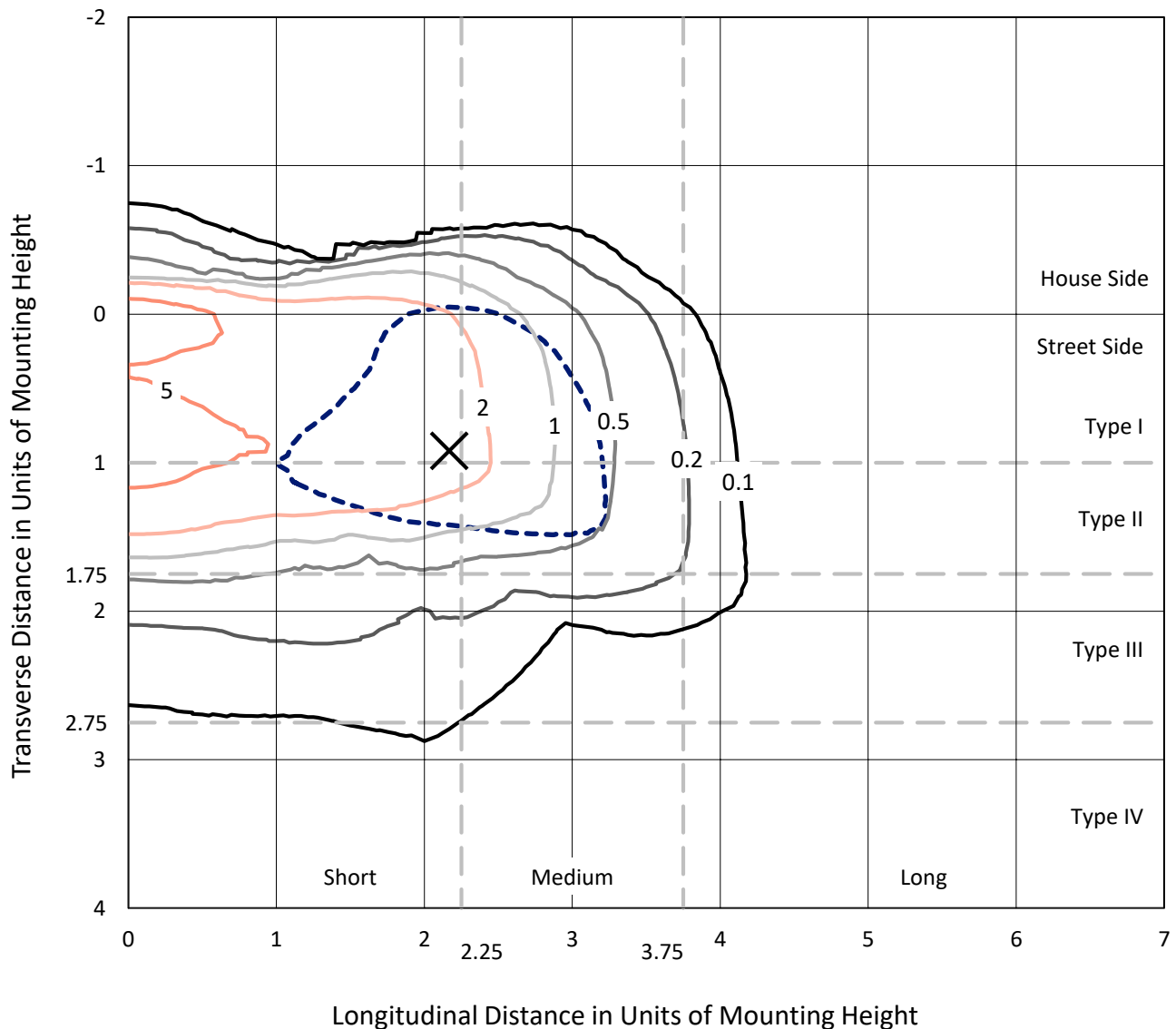


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

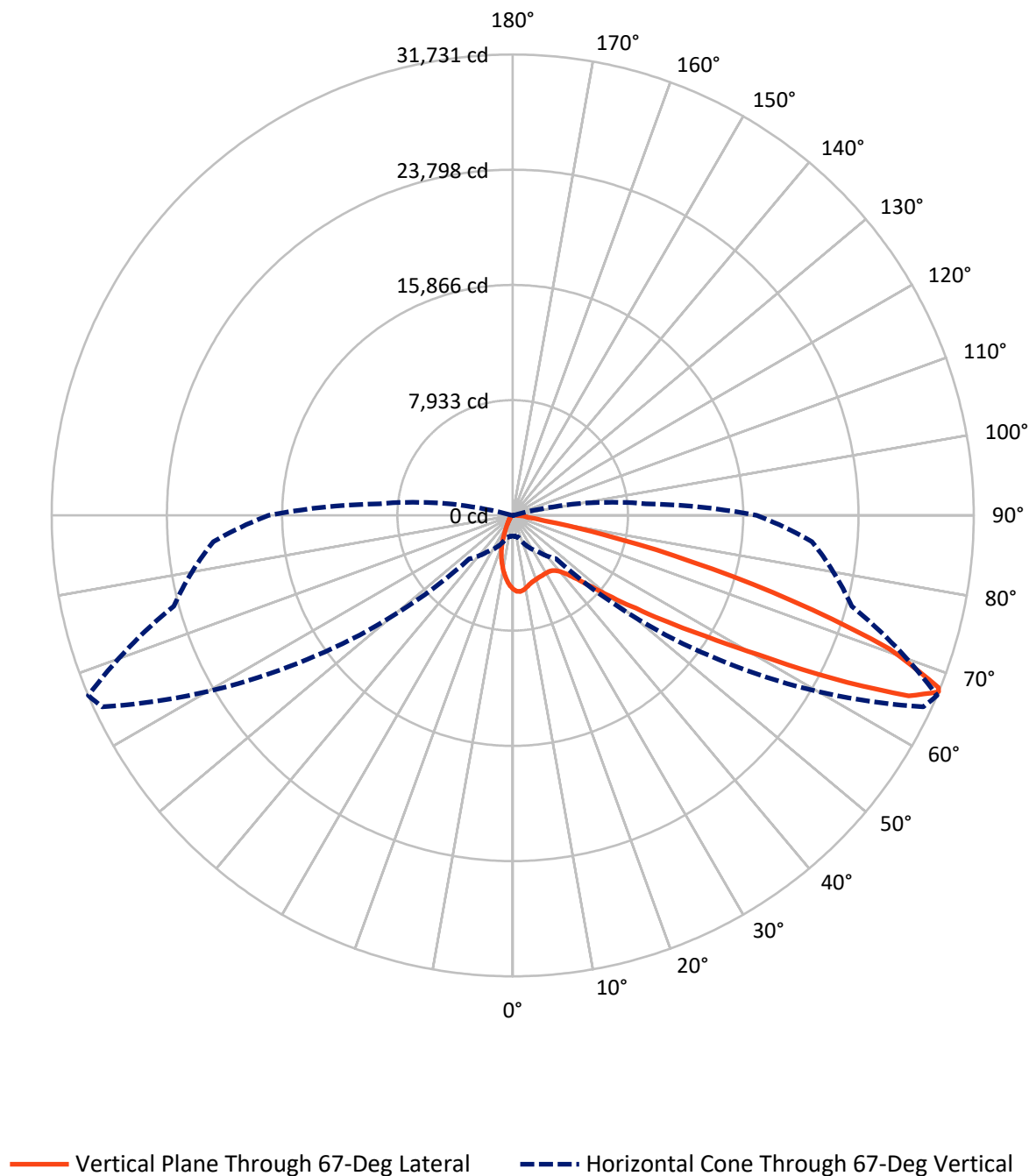


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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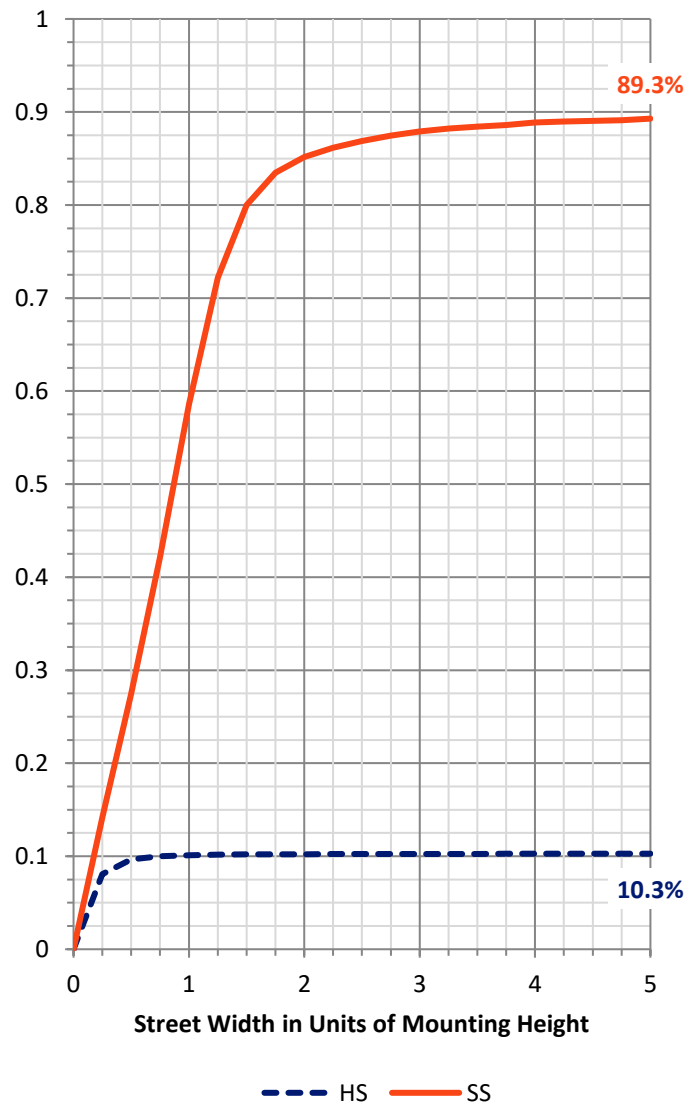
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2392.5	0.0	2392.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20650.2	0.0	20650.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	23042.8	0.0	23042.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	1.8
10°-20°	880.1	3.8
20°-30°	1279.6	5.6
30°-40°	1996.2	8.7
40°-50°	3536.1	15.3
50°-60°	5595.5	24.3
60°-70°	6408.9	27.8
70°-80°	2658.4	11.5
80°-90°	274.6	1.2
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°	23042.8	100.0
0°-180°	23042.8	100.0

Coefficient of Utilization



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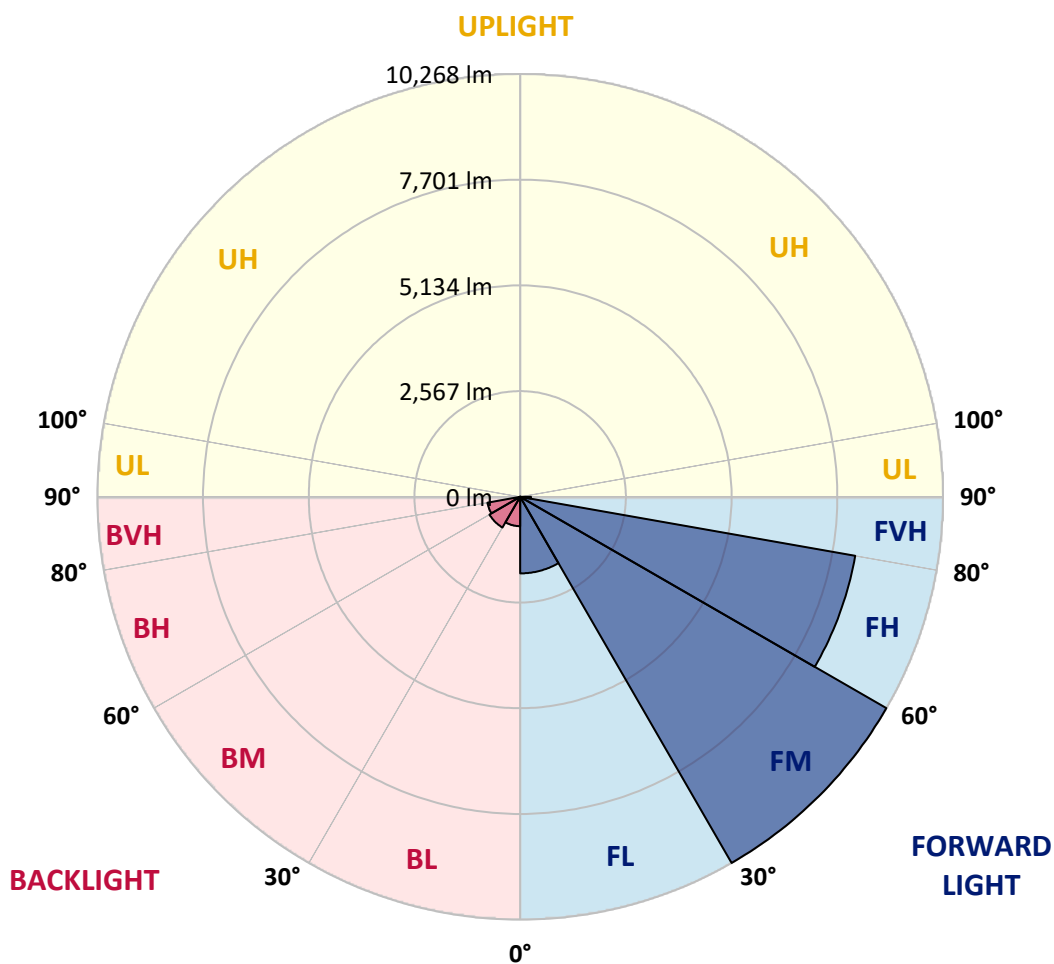
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1859.2	8.1			
FM	(30°-60°)	10267.9	44.6			
FH	(60°-80°)	8260.9	35.9			G4/12000
FVH	(80°-90°)	262.2	1.1			G3/500
BL	(0°-30°)	713.9	3.1	B2/1000		
BM	(30°-60°)	859.9	3.7	B1/1000		
BH	(60°-80°)	806.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	12.4	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7
2.5°	5253.8	5264.5	5263.2	5271.3	5290.2	5291.4	5272.7	5236.4	5228.3	5181.3	5099.2
5°	4845.2	4876.1	4895.0	4971.7	5057.6	5161.1	5239.0	5267.3	5263.2	5229.5	5106.0
7.5°	4378.9	4409.8	4431.2	4521.3	4635.6	4813.0	5015.9	5182.6	5197.4	5233.6	5100.6
10°	4068.4	4073.7	4103.3	4189.3	4308.9	4490.4	4732.3	5024.0	5068.3	5201.4	5087.1
12.5°	3813.0	3817.1	3856.0	3948.7	4076.5	4259.3	4513.3	4850.6	4919.2	5161.1	5084.5
15°	3631.6	3646.3	3681.3	3778.0	3913.7	4095.2	4356.0	4722.9	4804.9	5146.3	5108.6
17.5°	3571.1	3587.2	3598.0	3667.9	3791.6	3969.0	4236.4	4639.5	4732.3	5154.5	5155.7
20°	3634.3	3646.3	3622.2	3639.7	3716.2	3874.9	4135.6	4568.3	4678.6	5163.8	5216.1
22.5°	3869.4	3874.9	3809.0	3732.4	3718.9	3806.3	4056.2	4511.9	4630.2	5189.3	5287.4
25°	4272.7	4263.3	4155.7	3990.4	3834.6	3794.2	4009.3	4477.0	4606.1	5216.1	5361.4
27.5°	4759.3	4772.7	4624.8	4384.2	4087.2	3874.9	4002.5	4462.1	4595.2	5235.0	5425.9
30°	5350.5	5369.4	5200.0	4897.6	4471.6	4073.7	4064.3	4459.5	4588.6	5222.9	5431.3
32.5°	5954.1	5976.9	5843.8	5532.1	4985.1	4407.1	4204.1	4489.0	4602.0	5181.3	5400.3
35°	6585.7	6618.1	6529.4	6261.8	5681.3	4888.3	4450.1	4579.2	4665.2	5177.2	5369.4
37.5°	7458.0	7487.6	7320.9	7037.4	6524.0	5533.3	4845.2	4748.5	4814.3	5241.7	5377.5
40°	8760.4	8756.4	8326.3	7892.2	7450.0	6353.2	5400.3	5054.9	5088.5	5436.6	5476.9
42.5°	10179.6	10173.0	9537.2	8877.4	8478.2	7362.7	6130.1	5584.5	5561.7	5795.4	5735.0
45°	11273.7	11272.4	10753.7	10010.4	9716.0	8521.1	7073.7	6320.9	6286.0	6378.8	6210.8
47.5°	11740.1	11748.2	11487.4	10964.6	11088.2	10088.4	8263.1	7388.1	7335.7	7298.1	7042.8
50°	11377.2	11393.3	11414.9	11312.7	12094.9	12194.4	9858.5	8892.1	8866.6	8698.5	8299.5
52.5°	10191.8	10273.7	10526.5	10850.3	12444.4	14215.8	12359.7	10760.3	10623.3	10444.4	10005.0
55°	8194.6	8284.6	8764.4	9550.7	11924.2	15543.8	15865.0	13168.8	12940.3	12406.7	11772.3
57.5°	5423.2	5562.9	6259.1	7259.0	10413.6	15757.5	19362.2	16511.5	15715.8	14254.8	13539.7
60°	2987.8	3122.2	3877.5	4783.4	7521.2	14701.1	21714.1	20863.4	19457.6	16320.6	15686.3
62.5°	1839.9	1912.6	2470.4	3313.1	4510.6	11603.0	22200.7	26332.2	24704.6	18980.4	18278.8
65°	1464.9	1495.9	1768.8	2708.2	3233.7	6901.6	20629.6	30501.5	29958.5	22200.7	20600.0
67°	1422.0	1434.0	1563.1	2325.1	3048.3	4231.1	17282.8	31180.2	31731.3	24149.6	20672.5
67.5°	1431.4	1444.9	1567.1	2218.9	3042.9	3888.3	16129.7	30912.7	31608.9	24304.1	20351.2
70°	1380.3	1422.0	1794.2	2217.6	2893.7	3231.1	9659.5	26783.9	27508.3	22582.5	17268.1
72.5°	489.3	491.8	775.5	1794.2	3146.3	3266.0	4850.6	19635.0	20171.2	17274.9	12449.8
75°	290.3	247.3	258.1	510.7	3006.6	3171.9	2798.2	12546.6	12746.8	9898.8	6304.8
77.5°	200.3	174.7	180.1	225.8	1145.1	3127.5	2223.0	6542.8	6329.1	3471.6	1342.7
80°	114.2	100.8	107.5	197.5	416.6	2917.9	2096.6	2653.2	2262.0	588.7	370.9
82.5°	60.5	51.1	61.8	162.6	290.3	1818.5	2100.7	1282.1	1016.1	199.0	252.7
85°	21.6	17.5	29.6	111.6	193.5	557.8	1947.5	1078.0	846.8	96.8	192.2
87.5°	4.1	4.1	12.1	45.7	77.9	170.7	1151.8	639.7	428.8	57.8	131.7
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°	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7	5081.7
2.5°	5065.7	5007.9	4929.9	4834.5	4721.5	4622.1	4548.3	4471.6	4455.5	4428.6	4424.6
5°	5032.1	4932.6	4739.0	4517.4	4280.8	4067.0	3893.7	3739.1	3670.6	3611.4	3604.7
7.5°	4982.3	4833.1	4503.8	4146.4	3776.8	3440.7	3155.7	2954.2	2768.7	2680.0	2666.6
10°	4924.6	4710.8	4239.0	3743.1	3232.4	2757.9	2334.6	1979.8	1764.7	1637.0	1620.9
12.5°	4870.8	4591.2	3969.0	3325.1	2646.4	2012.0	1467.7	1128.9	903.1	811.8	801.1
15°	4845.2	4494.5	3716.2	2897.8	2033.6	1280.8	802.4	620.9	547.1	525.5	524.2
17.5°	4842.6	4412.4	3469.0	2455.5	1424.6	744.6	522.8	477.1	462.3	456.9	456.9
20°	4841.2	4334.6	3221.6	1997.3	904.5	495.9	435.5	424.7	414.0	407.2	407.2
22.5°	4856.0	4264.6	2963.5	1529.5	569.9	401.8	383.1	372.2	358.8	349.4	348.1
25°	4870.8	4210.9	2700.2	1088.7	412.7	349.4	330.6	315.9	297.0	284.9	283.6
27.5°	4873.5	4143.6	2417.9	728.4	345.4	305.1	280.9	258.1	236.5	224.4	223.1
30°	4833.1	4030.8	2104.8	491.8	305.1	264.7	232.5	208.3	188.2	178.7	178.7
32.5°	4753.9	3890.9	1760.7	370.9	271.5	227.2	192.2	169.4	155.9	151.9	150.6
35°	4682.7	3740.5	1407.1	314.5	243.3	192.2	157.3	142.5	134.4	133.1	131.7
37.5°	4640.9	3619.4	1075.2	284.9	216.5	161.2	133.1	122.3	118.3	115.6	116.9
40°	4673.2	3518.7	794.4	260.7	189.4	134.4	112.9	107.5	103.5	102.1	102.1
42.5°	4814.3	3501.2	590.0	239.3	164.0	111.6	98.2	94.1	91.3	90.0	91.3
45°	5185.2	3608.8	458.4	219.1	138.4	94.1	83.4	82.0	80.7	80.7	80.7
47.5°	5743.0	3830.5	381.8	196.2	115.6	80.7	72.5	71.2	69.9	71.2	71.2
50°	6687.9	4236.4	341.4	173.4	95.4	68.5	61.8	61.8	61.8	61.8	63.2
52.5°	8124.6	5034.7	314.5	150.6	77.9	57.8	52.5	52.5	53.7	53.7	55.0
55°	9725.3	6093.8	290.3	127.8	65.9	48.4	43.0	44.4	45.7	47.1	47.1
57.5°	11462.0	7267.2	270.2	104.9	56.5	39.0	36.3	37.5	39.0	41.6	41.6
60°	13557.2	8537.3	240.6	82.0	47.1	30.9	28.2	30.9	35.0	37.5	39.0
62.5°	15858.2	9765.7	202.9	64.5	39.0	24.1	22.8	28.2	33.7	36.3	37.5
65°	17430.7	10151.5	155.9	52.5	29.6	17.5	18.8	25.5	32.2	36.3	36.3
67°	16793.7	9203.9	127.8	44.4	24.1	13.4	17.5	25.5	32.2	35.0	36.3
67.5°	16351.5	8832.9	122.3	43.0	22.8	13.4	17.5	25.5	32.2	36.3	36.3
70°	13304.6	6635.6	102.1	32.2	18.8	12.1	14.7	24.1	30.9	35.0	35.0
72.5°	9244.2	4091.2	91.3	22.8	16.2	10.7	13.4	22.8	29.6	33.7	35.0
75°	4395.0	1481.1	77.9	17.5	14.7	9.4	12.1	22.8	29.6	33.7	33.7
77.5°	896.5	344.0	63.2	14.7	12.1	9.4	10.7	21.6	28.2	32.2	32.2
80°	294.4	133.1	47.1	13.4	12.1	9.4	10.7	20.2	28.2	30.9	32.2
82.5°	212.4	67.2	30.9	13.4	12.1	9.4	9.4	20.2	26.9	30.9	30.9
85°	162.6	47.1	20.2	13.4	12.1	9.4	9.4	18.8	25.5	29.6	29.6
87.5°	107.5	18.8	16.2	13.4	12.1	9.4	9.4	18.8	24.1	28.2	29.6
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)