

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: P192946

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30255 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 334
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

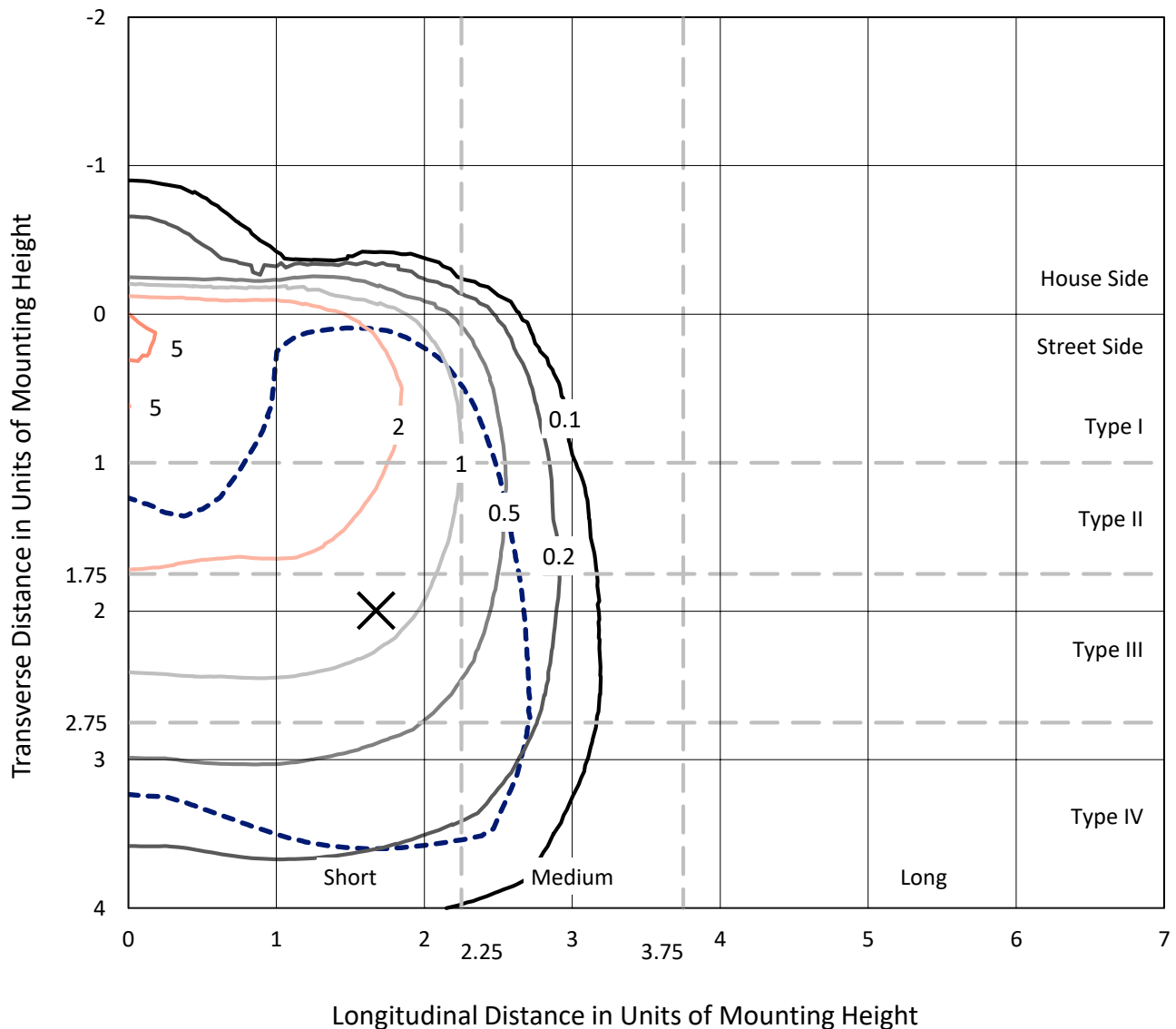


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

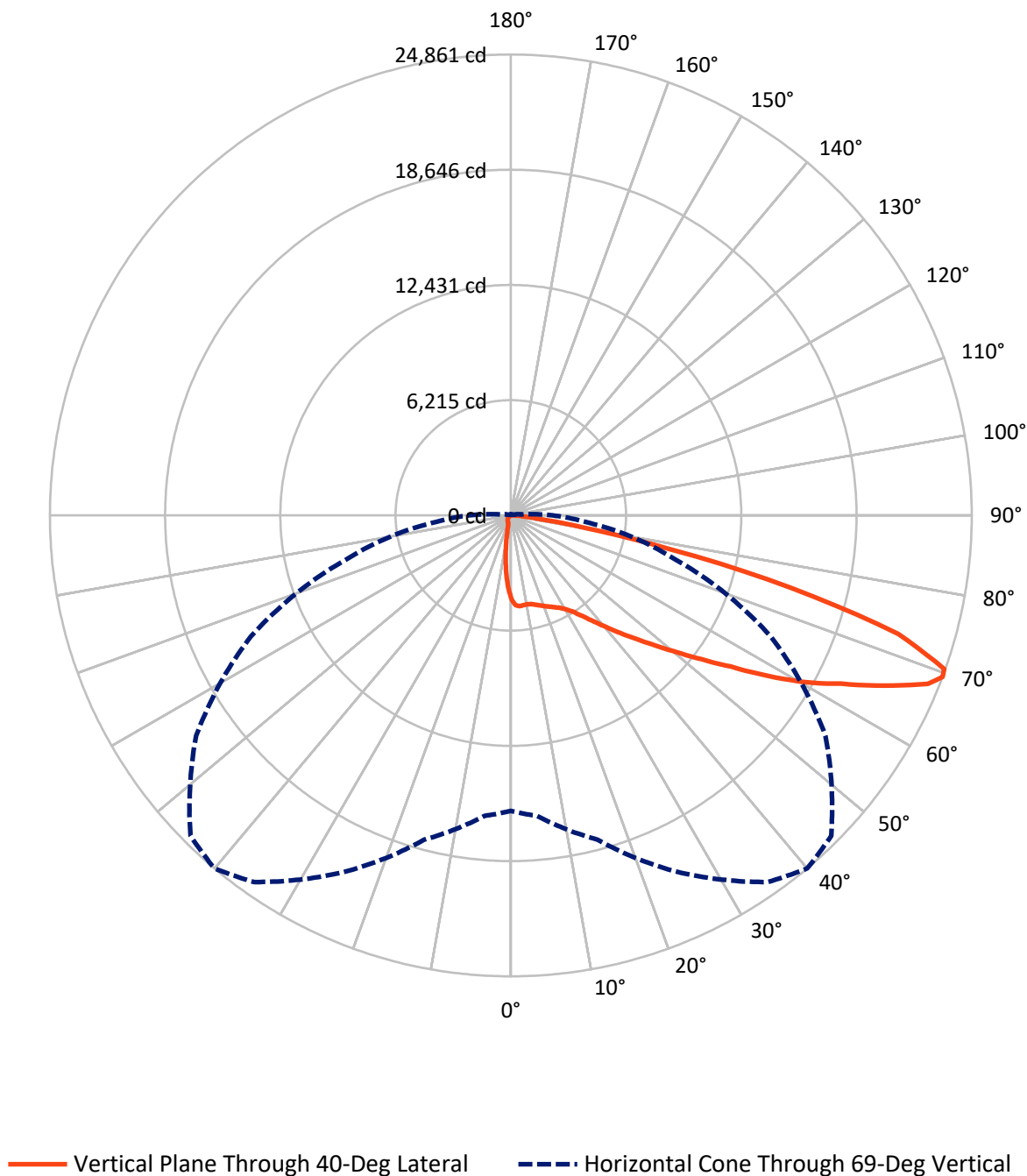


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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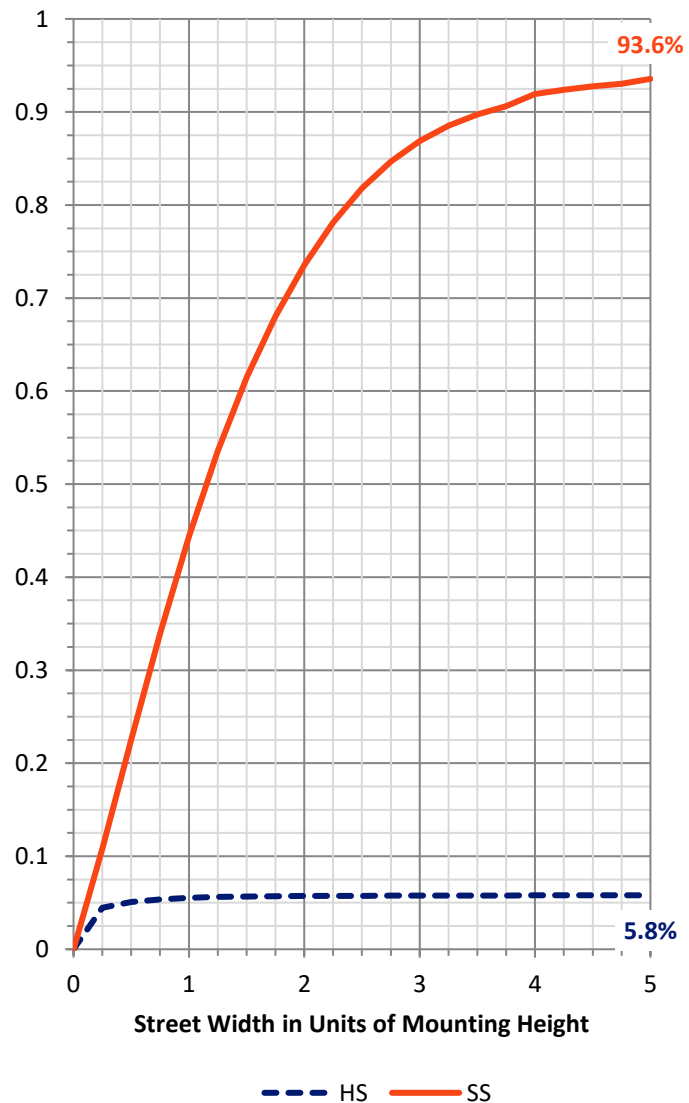
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1770.1	0.0	1770.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	28484.9	0.0	28484.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	30255.0	0.0	30255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	1.2
10°-20°	901.3	3.0
20°-30°	1518.1	5.0
30°-40°	2485.2	8.2
40°-50°	4303.0	14.2
50°-60°	6777.6	22.4
60°-70°	8851.3	29.3
70°-80°	4558.8	15.1
80°-90°	493.1	1.6
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°	30255.0	100.0
0°-180°	30255.0	100.0

Coefficient of Utilization



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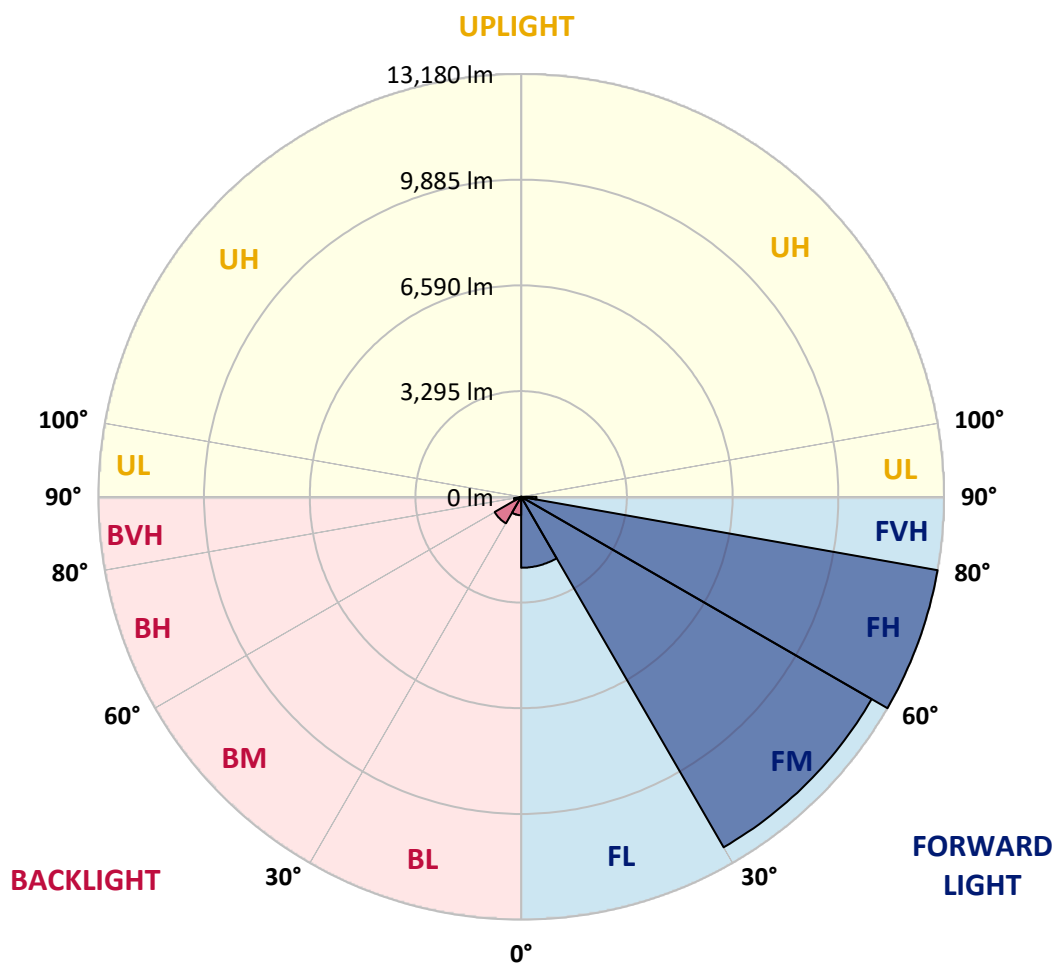
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2212.5	7.3			
FM	(30°-60°)	12614.4	41.7			
FH	(60°-80°)	13180.3	43.6			G5
FVH	(80°-90°)	477.7	1.6			G3/500
BL	(0°-30°)	573.4	1.9	B2/1000		
BM	(30°-60°)	951.4	3.1	B1/1000		
BH	(60°-80°)	229.8	0.8	B1/500		G1/500
BVH	(80°-90°)	15.5	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3
2.5°	4963.3	4936.3	4920.1	4898.4	4871.5	4848.1	4839.0	4772.3	4709.3	4622.9	4523.9
5°	5055.1	5046.1	5017.3	4988.4	4956.1	4920.1	4900.3	4820.9	4730.9	4604.8	4432.0
7.5°	5064.1	5053.3	5017.3	4977.7	4932.6	4889.5	4855.3	4775.9	4693.1	4565.3	4354.5
10°	5049.8	5037.1	5010.1	4966.9	4911.1	4869.5	4835.4	4759.8	4689.5	4574.2	4340.1
12.5°	5033.5	5020.9	5008.3	4986.7	4938.1	4909.2	4880.4	4808.4	4745.3	4648.1	4392.4
15°	5049.8	5042.6	5056.9	5047.9	5020.9	4995.7	4966.9	4902.0	4844.4	4763.3	4487.9
17.5°	5118.1	5118.1	5163.1	5168.6	5143.4	5107.4	5066.0	5001.2	4952.5	4884.0	4601.4
20°	5278.5	5273.1	5330.6	5341.4	5280.3	5224.4	5163.1	5084.0	5046.1	5002.9	4712.9
22.5°	5553.9	5528.7	5562.9	5552.1	5431.5	5345.1	5269.5	5172.3	5152.3	5132.6	4837.2
25°	5912.3	5898.0	5921.3	5815.1	5602.6	5485.6	5395.4	5285.6	5285.6	5305.4	4977.7
27.5°	6432.7	6378.8	6299.6	6112.3	5793.5	5644.0	5546.8	5429.7	5460.3	5534.2	5163.1
30°	6965.9	6906.4	6724.6	6436.4	6025.7	5869.1	5755.7	5633.2	5705.2	5840.4	5411.7
32.5°	7491.7	7425.2	7167.5	6803.8	6359.0	6202.3	6092.4	5957.4	6078.0	6305.0	5775.5
35°	8001.4	7941.9	7644.8	7216.1	6801.9	6672.4	6571.5	6454.4	6609.3	6926.3	6288.8
37.5°	8574.1	8509.2	8147.3	7682.7	7340.5	7246.8	7173.0	7056.0	7326.1	7790.7	7003.7
40°	9278.2	9168.4	8680.3	8217.5	7963.6	7918.6	7868.1	7851.9	8271.5	8914.5	7956.4
42.5°	10085.0	9904.9	9238.6	8781.1	8647.9	8680.3	8667.7	8739.7	9454.8	10311.9	9116.1
45°	10891.8	10659.6	9859.9	9382.6	9400.6	9514.2	9584.3	9872.5	10936.9	11914.7	10364.2
47.5°	11576.1	11347.4	10456.0	10032.8	10248.9	10472.2	10663.1	11208.8	12460.4	13492.3	11334.9
50°	12161.4	11945.4	11088.0	10747.8	11234.0	11594.1	11903.9	12712.6	14099.3	14693.5	12015.6
52.5°	12640.5	12496.4	11743.6	11567.2	12359.5	12887.2	13341.0	14309.9	15550.8	15669.6	12545.0
55°	13107.0	13004.2	12447.8	12541.5	13681.5	14400.0	14974.4	16004.6	16800.6	16483.6	13052.8
57.5°	13643.6	13549.9	13251.0	13776.8	15419.3	16323.4	16950.1	17506.5	17900.9	17315.6	13532.0
60°	14191.0	14137.0	14144.2	15149.2	17414.7	18282.7	18628.4	18772.5	18981.5	18099.1	13559.0
62.5°	14713.3	14816.0	15165.3	16676.4	19325.4	19991.7	20166.4	20308.7	20063.9	18223.3	12527.0
65°	15597.6	15765.0	16598.8	18720.3	21427.1	22140.2	22320.3	21832.3	20235.0	16616.9	10189.5
67.5°	16029.8	16335.9	17823.5	20625.6	23465.7	24258.1	24191.4	21931.3	18158.5	12671.2	6539.0
69°	15939.8	16265.7	18106.2	21209.2	24142.8	24861.4	24438.1	20719.3	15469.7	9179.2	4014.1
70°	15583.1	15912.7	17960.4	21187.5	24229.3	24798.3	23980.8	19222.7	13079.9	6711.9	2510.4
72.5°	13013.4	13297.8	15945.2	19150.8	22320.3	21857.6	20061.9	13317.6	6373.4	1827.9	565.5
75°	8010.4	8168.9	11441.1	14427.0	16858.1	15669.6	13366.2	6625.5	1899.9	516.9	313.3
77.5°	4232.1	4304.2	6263.5	8503.8	10686.5	8842.4	6850.5	2584.3	875.2	324.2	226.9
80°	2501.5	2555.5	3373.1	3888.1	4624.7	3863.0	2739.1	1586.6	626.7	203.5	201.7
82.5°	1431.8	1465.9	2445.7	2161.0	1822.6	1556.0	1363.2	1503.7	376.4	136.9	208.9
85°	525.9	533.0	1375.9	1644.3	1084.2	644.7	677.2	1246.2	100.8	86.5	163.9
87.5°	245.0	239.5	707.8	1006.8	633.9	408.8	527.6	273.7	39.7	55.8	45.1
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°	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3	4520.3
2.5°	4466.2	4399.6	4278.9	4154.7	4028.6	3931.3	3835.9	3760.2	3735.0	3688.3	3691.9
5°	4329.4	4206.9	3954.7	3699.1	3432.5	3212.8	3005.7	2838.2	2757.1	2674.3	2674.3
7.5°	4210.6	4032.2	3637.8	3221.8	2791.3	2429.4	2103.5	1858.5	1723.4	1615.4	1613.6
10°	4165.5	3924.1	3373.1	2777.0	2177.3	1683.8	1296.7	1048.2	920.3	837.4	833.8
12.5°	4185.2	3886.4	3169.6	2366.3	1613.6	1082.3	750.9	590.6	536.7	511.5	511.5
15°	4242.9	3875.5	2966.1	1964.8	1140.0	677.2	498.9	455.6	452.0	452.0	452.0
17.5°	4313.1	3879.1	2757.1	1574.0	776.2	484.4	430.4	425.0	428.7	428.7	428.7
20°	4385.2	3880.9	2532.1	1212.0	547.5	421.4	405.3	403.3	407.0	407.0	408.8
22.5°	4473.4	3889.9	2306.9	905.9	452.0	398.0	385.3	385.3	387.3	387.3	385.3
25°	4574.2	3907.9	2072.8	671.7	412.5	381.8	370.9	369.2	370.9	369.2	367.3
27.5°	4700.4	3933.2	1811.7	525.9	394.4	365.6	356.6	356.6	354.8	353.0	351.2
30°	4858.9	3962.0	1518.1	446.7	376.4	351.2	342.2	340.4	338.6	335.0	335.0
32.5°	5100.1	4025.0	1228.2	405.3	356.6	331.4	324.2	324.2	320.5	317.0	315.1
35°	5471.1	4149.2	968.9	380.0	335.0	309.8	300.8	300.8	297.1	295.3	293.6
37.5°	5984.3	4338.3	752.8	356.6	313.3	286.4	277.3	275.6	271.9	268.3	266.5
40°	6666.9	4572.5	592.5	335.0	291.7	262.9	255.7	252.2	245.0	239.5	239.5
42.5°	7524.1	4839.0	480.8	311.6	266.5	241.4	235.9	230.5	217.9	212.5	210.7
45°	8420.9	5078.5	407.0	284.5	241.4	219.7	216.2	207.1	190.8	185.5	185.5
47.5°	9067.5	5134.3	358.4	259.4	217.9	196.3	194.5	178.3	163.9	160.3	158.4
50°	9470.9	5024.5	318.7	234.2	196.3	174.7	169.3	149.4	140.5	136.9	135.1
52.5°	9742.8	4828.1	286.4	212.5	176.5	154.9	142.2	127.9	120.6	117.0	117.0
55°	9960.7	4550.8	253.9	192.8	160.3	138.6	120.6	109.8	102.7	99.1	99.1
57.5°	10022.1	4174.5	221.5	176.5	144.1	122.5	102.7	95.5	86.5	84.6	84.6
60°	9577.1	3495.5	196.3	156.7	129.7	106.2	90.0	81.1	72.0	70.3	68.4
62.5°	8404.8	2704.9	172.8	138.6	113.4	91.9	77.5	66.6	59.4	59.4	59.4
65°	6411.3	1813.4	151.4	120.6	99.1	77.5	66.6	54.0	50.5	50.5	52.2
67.5°	3837.7	986.9	129.7	102.7	84.6	64.8	55.8	46.9	45.1	46.9	46.9
69°	2249.3	579.8	117.0	91.9	73.9	57.6	48.6	41.4	45.1	46.9	46.9
70°	1388.4	390.8	108.0	82.8	66.6	52.2	45.1	39.7	43.2	45.1	45.1
72.5°	387.3	201.7	86.5	64.8	54.0	43.2	36.0	36.0	41.4	43.2	43.2
75°	252.2	149.4	66.6	48.6	41.4	34.2	30.6	34.2	39.7	41.4	41.4
77.5°	208.9	122.5	54.0	39.7	34.2	32.4	28.9	30.6	36.0	37.8	37.8
80°	190.8	86.5	43.2	36.0	30.6	28.9	27.0	25.2	32.4	34.2	34.2
82.5°	181.9	68.4	37.8	32.4	28.9	25.2	23.4	25.2	28.9	30.6	32.4
85°	113.4	45.1	34.2	30.6	25.2	23.4	23.4	23.4	27.0	28.9	28.9
87.5°	41.4	36.0	30.6	25.2	21.7	21.7	21.7	21.7	23.4	27.0	27.0
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)