

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: P194546

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194546
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-SL4-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 31282 lumens
Efficiency: N/A
Efficacy: 93.7 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

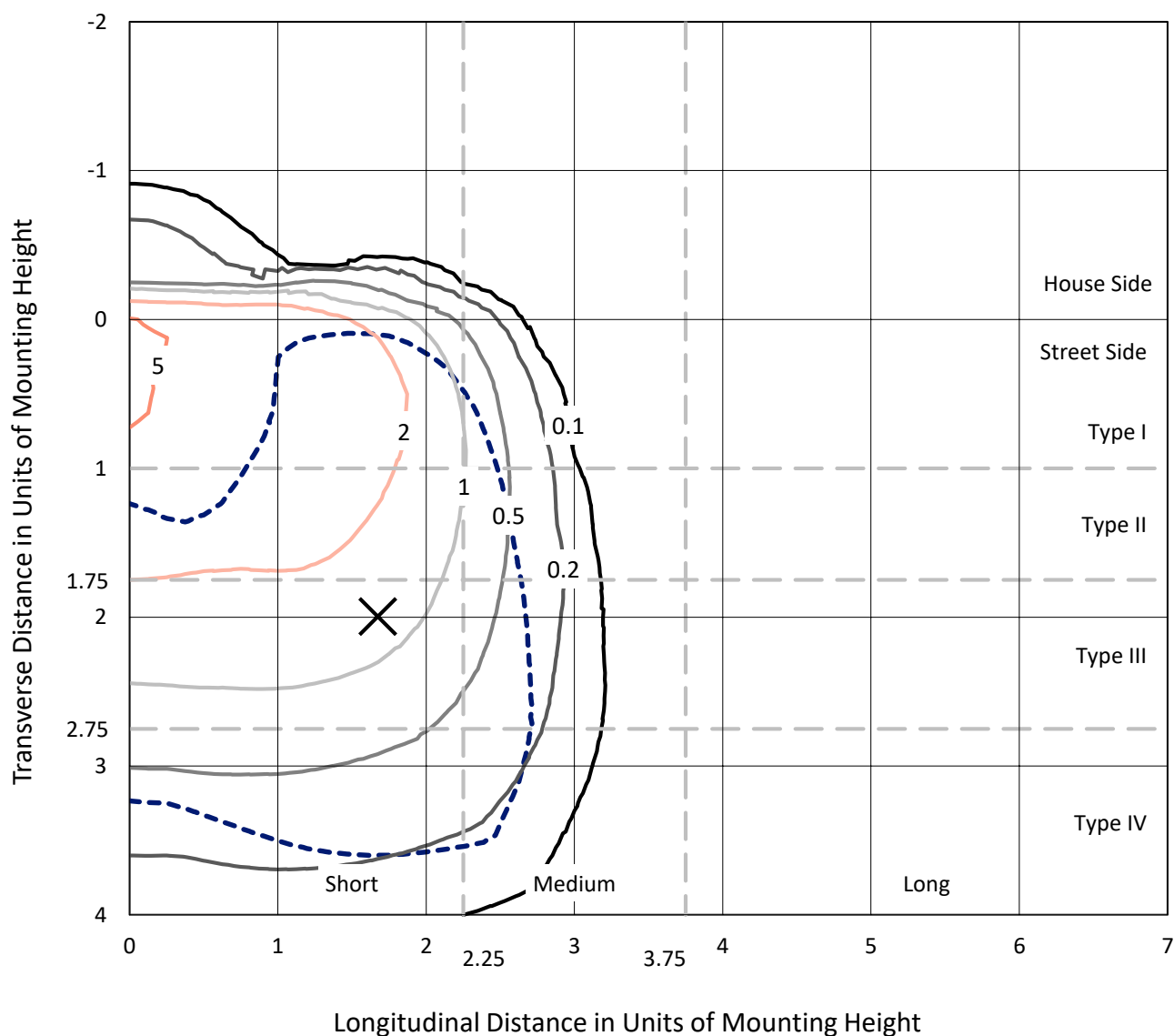


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

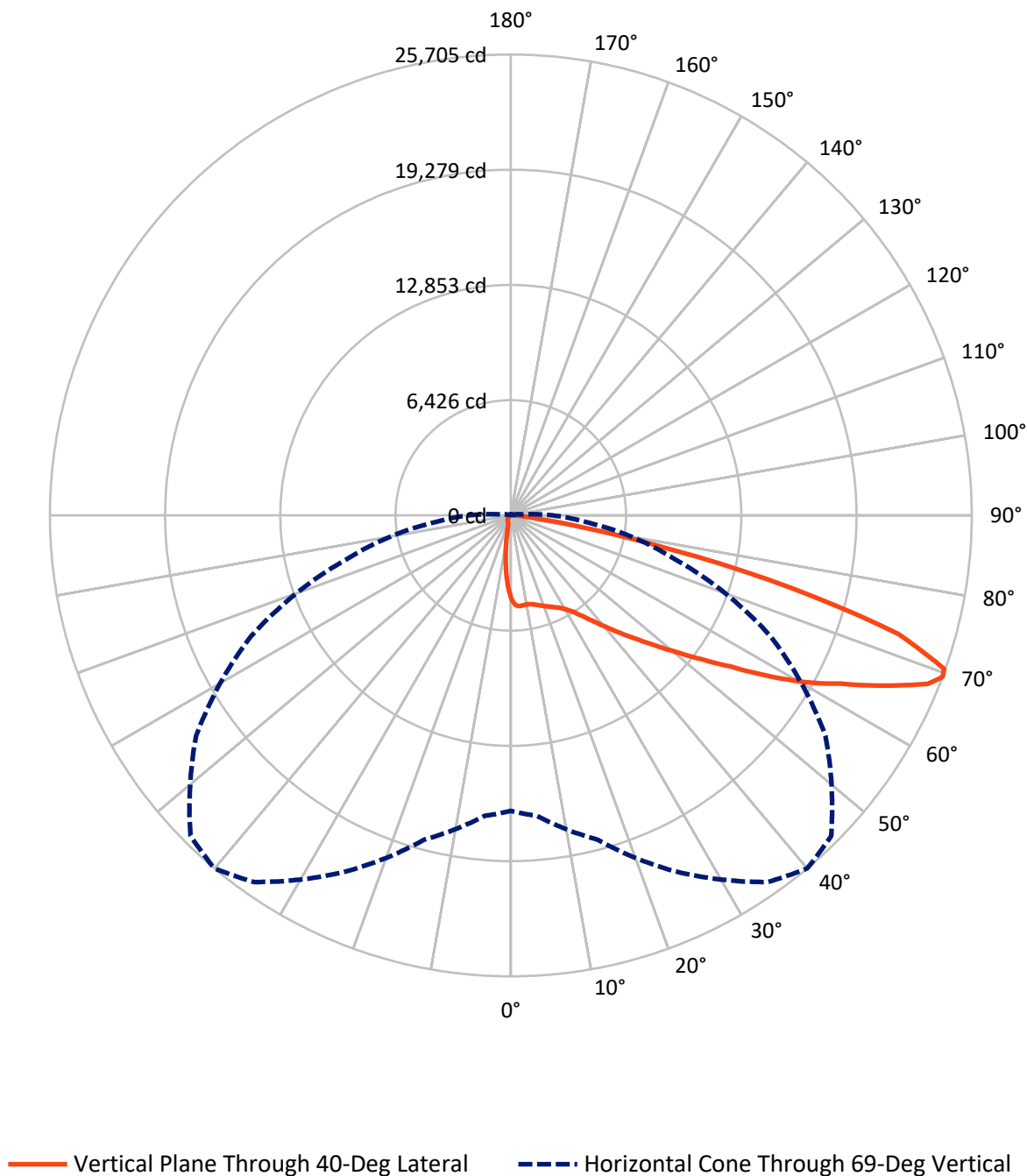


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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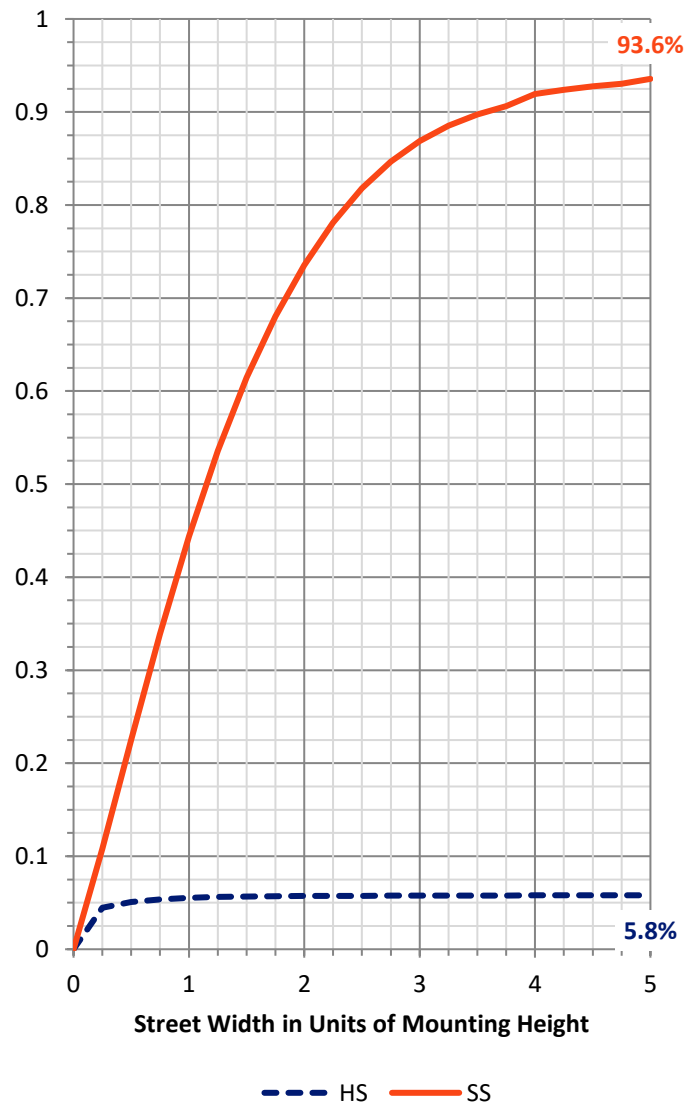
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1830.2	0.0	1830.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	29451.8	0.0	29451.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	31282.0	0.0	31282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.9	1.2
10°-20°	931.9	3.0
20°-30°	1569.6	5.0
30°-40°	2569.5	8.2
40°-50°	4449.1	14.2
50°-60°	7007.7	22.4
60°-70°	9151.8	29.3
70°-80°	4713.6	15.1
80°-90°	509.9	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°	31282.0	100.0
0°-180°	31282.0	100.0

Coefficient of Utilization



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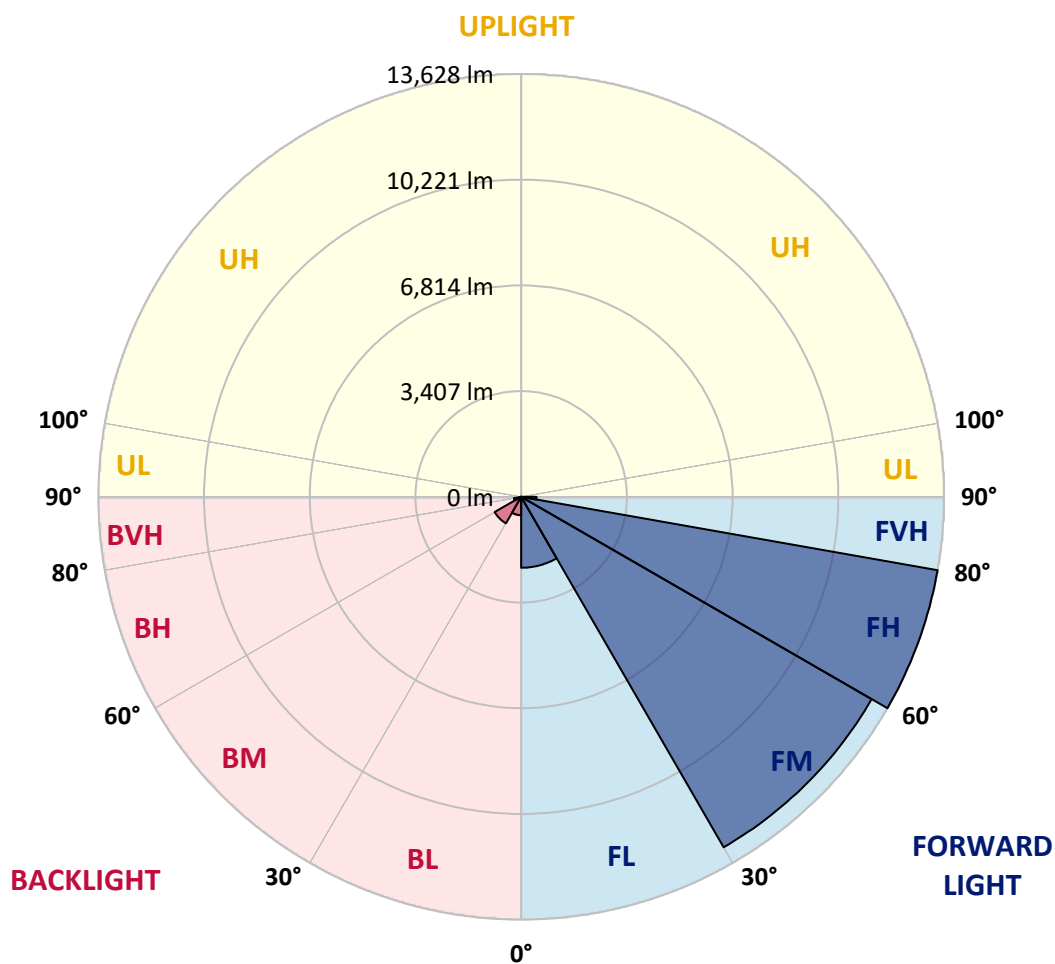
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2287.6	7.3			
FM	(30°-60°)	13042.6	41.7			
FH	(60°-80°)	13627.7	43.6			G5
FVH	(80°-90°)	493.9	1.6			G3/500
BL	(0°-30°)	592.9	1.9	B2/1000		
BM	(30°-60°)	983.7	3.1	B1/1000		
BH	(60°-80°)	237.7	0.8	B1/500		G1/500
BVH	(80°-90°)	16.0	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°	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7
2.5°	5131.8	5103.8	5087.1	5064.7	5036.8	5012.6	5003.3	4934.4	4869.2	4779.8	4677.4
5°	5226.7	5217.4	5187.6	5157.8	5124.3	5087.1	5066.6	4984.7	4891.5	4761.2	4582.5
7.5°	5236.0	5224.9	5187.6	5146.6	5100.1	5055.4	5020.0	4938.1	4852.4	4720.2	4502.4
10°	5221.1	5208.1	5180.2	5135.5	5077.8	5034.9	4999.5	4921.3	4848.7	4729.6	4487.5
12.5°	5204.4	5191.3	5178.3	5156.0	5105.7	5075.9	5046.1	4971.6	4906.4	4805.9	4541.5
15°	5221.1	5213.7	5228.6	5219.3	5191.3	5165.3	5135.5	5068.4	5008.9	4925.1	4640.2
17.5°	5291.9	5291.9	5338.4	5344.0	5318.0	5280.7	5237.9	5170.9	5120.6	5049.8	4757.5
20°	5457.6	5452.0	5511.6	5522.8	5459.5	5401.7	5338.4	5256.5	5217.4	5172.7	4872.9
22.5°	5742.5	5716.4	5751.8	5740.6	5615.9	5526.5	5448.3	5347.7	5327.3	5306.8	5001.4
25°	6113.0	6098.1	6122.3	6012.5	5792.8	5671.7	5578.6	5465.1	5465.1	5485.5	5146.6
27.5°	6651.2	6595.3	6513.4	6319.7	5990.1	5835.6	5735.0	5614.0	5645.7	5722.0	5338.4
30°	7202.3	7140.9	6952.8	6654.9	6230.3	6068.4	5951.0	5824.4	5898.9	6038.6	5595.4
32.5°	7746.0	7677.1	7410.9	7034.7	6574.8	6412.8	6299.2	6159.6	6284.3	6519.0	5971.5
35°	8273.0	8211.5	7904.3	7461.1	7032.9	6898.8	6794.5	6673.5	6833.6	7161.4	6502.2
37.5°	8865.1	8798.1	8423.8	7943.4	7589.6	7492.8	7416.5	7295.4	7574.7	8055.1	7241.4
40°	9593.2	9479.6	8975.0	8496.4	8233.9	8187.3	8135.2	8118.4	8552.3	9217.0	8226.4
42.5°	10427.4	10241.2	9552.2	9079.3	8941.5	8975.0	8961.9	9036.4	9775.6	10662.0	9425.6
45°	11261.5	11021.3	10194.6	9701.2	9719.8	9837.1	9909.7	10207.6	11308.1	12319.2	10716.0
47.5°	11969.1	11732.6	10810.9	10373.4	10596.8	10827.7	11025.1	11589.3	12883.4	13950.3	11719.6
50°	12574.3	12350.8	11464.5	11112.6	11615.3	11987.7	12308.0	13144.1	14577.8	15192.3	12423.5
52.5°	13069.6	12920.6	12142.3	11959.8	12779.1	13324.7	13793.9	14795.7	16078.6	16201.5	12970.9
55°	13551.8	13445.7	12870.3	12967.2	14145.8	14888.8	15482.8	16547.8	17370.9	17043.1	13496.0
57.5°	14106.7	14009.9	13700.8	14244.5	15942.7	16877.4	17525.4	18100.8	18508.6	17903.4	13991.3
60°	14672.8	14616.9	14624.4	15663.4	18005.8	18903.3	19260.8	19409.8	19625.8	18713.4	14019.2
62.5°	15212.8	15318.9	15680.1	17242.4	19981.4	20670.4	20851.0	20998.1	20744.9	18841.9	12952.3
65°	16127.0	16300.2	17162.3	19355.8	22154.4	22891.8	23078.0	22573.4	20921.8	17180.9	10535.4
67.5°	16573.9	16890.5	18428.5	21325.8	24262.2	25081.5	25012.6	22675.8	18774.8	13101.2	6761.0
69°	16480.8	16817.8	18720.8	21929.1	24962.4	25705.3	25267.7	21422.6	15994.8	9490.8	4150.5
70°	16112.1	16452.9	18570.0	21906.8	25051.7	25640.1	24794.8	19875.3	13523.9	6939.8	2595.7
72.5°	13455.0	13749.2	16486.4	19800.8	23078.0	22599.4	20743.0	13769.7	6589.7	1890.0	584.7
75°	8282.3	8446.2	11829.5	14916.7	17430.4	16201.5	13820.0	6850.4	1964.4	534.4	324.0
77.5°	4375.8	4450.2	6476.1	8792.5	11049.3	9142.6	7083.2	2672.0	904.9	335.2	234.6
80°	2586.4	2642.2	3487.6	4020.1	4781.7	3994.1	2832.1	1640.4	648.0	210.4	208.5
82.5°	1480.3	1515.7	2528.6	2234.4	1884.4	1608.8	1409.6	1554.8	389.2	141.5	216.0
85°	543.7	551.2	1422.6	1700.0	1120.9	666.6	700.1	1288.5	104.3	89.4	169.4
87.5°	253.2	247.6	731.8	1040.9	655.4	422.7	545.6	283.0	41.0	57.7	46.6
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°	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7	4673.7
2.5°	4617.8	4548.9	4424.2	4295.7	4165.4	4064.8	3966.1	3887.9	3861.8	3813.4	3817.2
5°	4476.3	4349.7	4089.0	3824.6	3549.0	3321.9	3107.7	2934.6	2850.8	2765.1	2765.1
7.5°	4353.4	4169.1	3761.3	3331.2	2886.1	2511.9	2174.8	1921.6	1782.0	1670.2	1668.4
10°	4306.9	4057.4	3487.6	2871.2	2251.2	1741.0	1340.7	1083.7	951.5	865.8	862.1
12.5°	4327.4	4018.3	3277.2	2446.7	1668.4	1119.1	776.5	610.7	554.9	528.8	528.8
15°	4386.9	4007.1	3066.8	2031.5	1178.7	700.1	515.8	471.1	467.4	467.4	467.4
17.5°	4459.6	4010.8	2850.8	1627.4	802.5	500.9	445.0	439.4	443.2	443.2	443.2
20°	4534.0	4012.7	2618.0	1253.1	566.1	435.7	419.0	417.1	420.8	420.8	422.7
22.5°	4625.3	4022.0	2385.3	936.6	467.4	411.5	398.5	398.5	400.3	400.3	398.5
25°	4729.6	4040.6	2143.2	694.5	426.4	394.8	383.6	381.7	383.6	381.7	379.9
27.5°	4859.9	4066.7	1873.2	543.7	407.8	378.0	368.7	368.7	366.8	365.0	363.1
30°	5023.8	4096.5	1569.7	461.8	389.2	363.1	353.8	351.9	350.1	346.3	346.3
32.5°	5273.3	4161.6	1269.9	419.0	368.7	342.6	335.2	335.2	331.4	327.7	325.9
35°	5656.8	4290.1	1001.8	392.9	346.3	320.3	311.0	311.0	307.2	305.4	303.5
37.5°	6187.5	4485.6	778.3	368.7	324.0	296.1	286.8	284.9	281.2	277.4	275.6
40°	6893.2	4727.7	612.6	346.3	301.6	271.9	264.4	260.7	253.2	247.6	247.6
42.5°	7779.6	5003.3	497.2	322.1	275.6	249.5	243.9	238.3	225.3	219.7	217.9
45°	8706.8	5250.9	420.8	294.2	249.5	227.2	223.4	214.1	197.4	191.8	191.8
47.5°	9375.3	5308.6	370.5	268.1	225.3	203.0	201.1	184.3	169.4	165.7	163.9
50°	9792.4	5195.1	329.6	242.1	203.0	180.6	175.0	154.5	145.2	141.5	139.7
52.5°	10073.6	4992.1	296.1	219.7	182.5	160.1	147.1	132.2	124.8	121.0	121.0
55°	10298.9	4705.3	262.5	199.2	165.7	143.4	124.8	113.6	106.1	102.4	102.4
57.5°	10362.2	4316.2	229.0	182.5	149.0	126.6	106.1	98.7	89.4	87.5	87.5
60°	9902.3	3614.2	203.0	162.0	134.1	109.9	93.1	83.8	74.5	72.6	70.8
62.5°	8690.1	2796.8	178.8	143.4	117.3	95.0	80.1	68.9	61.4	61.4	61.4
65°	6628.8	1875.1	156.4	124.8	102.4	80.1	68.9	55.9	52.1	52.1	54.0
67.5°	3968.0	1020.4	134.1	106.1	87.5	67.0	57.7	48.4	46.6	48.4	48.4
69°	2325.7	599.6	121.0	95.0	76.3	59.6	50.3	42.8	46.6	48.4	48.4
70°	1435.6	404.1	111.7	85.7	68.9	54.0	46.6	41.0	44.7	46.6	46.6
72.5°	400.3	208.5	89.4	67.0	55.9	44.7	37.2	37.2	42.8	44.7	44.7
75°	260.7	154.5	68.9	50.3	42.8	35.4	31.7	35.4	41.0	42.8	42.8
77.5°	216.0	126.6	55.9	41.0	35.4	33.5	29.8	31.7	37.2	39.1	39.1
80°	197.4	89.4	44.7	37.2	31.7	29.8	27.9	26.1	33.5	35.4	35.4
82.5°	188.1	70.8	39.1	33.5	29.8	26.1	24.2	26.1	29.8	31.7	33.5
85°	117.3	46.6	35.4	31.7	26.1	24.2	24.2	24.2	27.9	29.8	29.8
87.5°	42.8	37.2	31.7	26.1	22.3	22.3	22.3	22.3	24.2	27.9	27.9
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)