

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: P192778

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192778
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-10-LED-E1-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA 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: 31097.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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



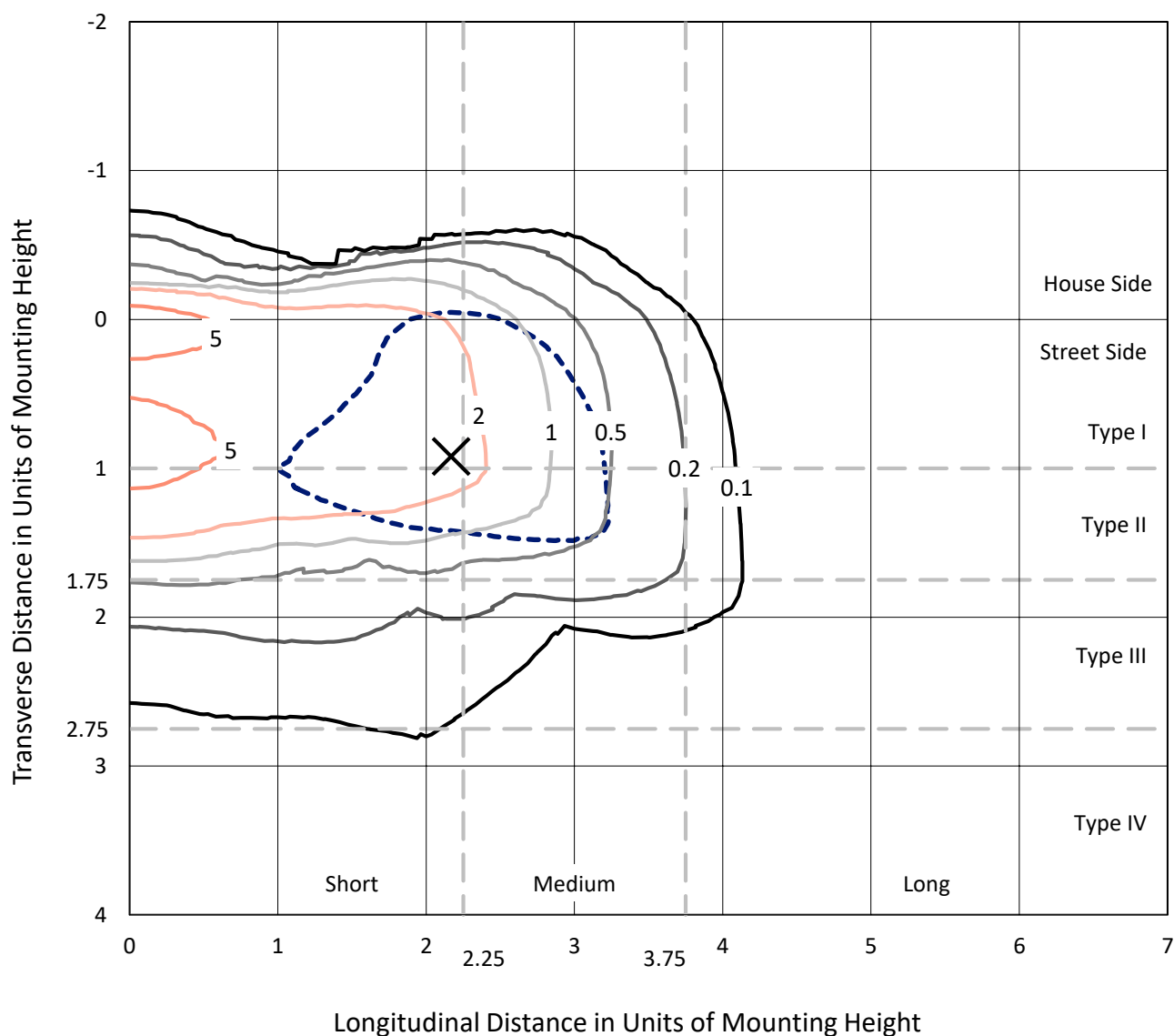
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

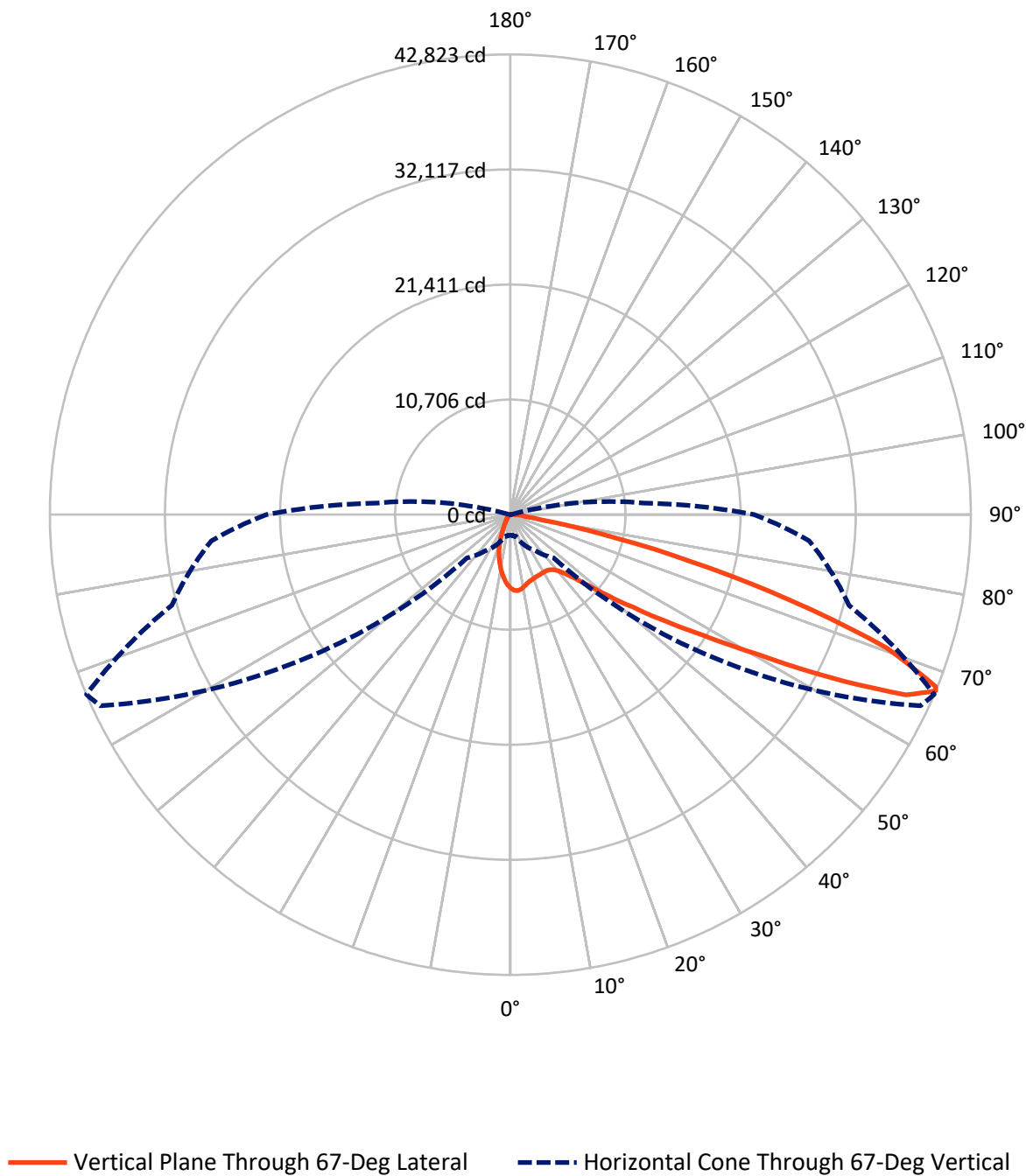


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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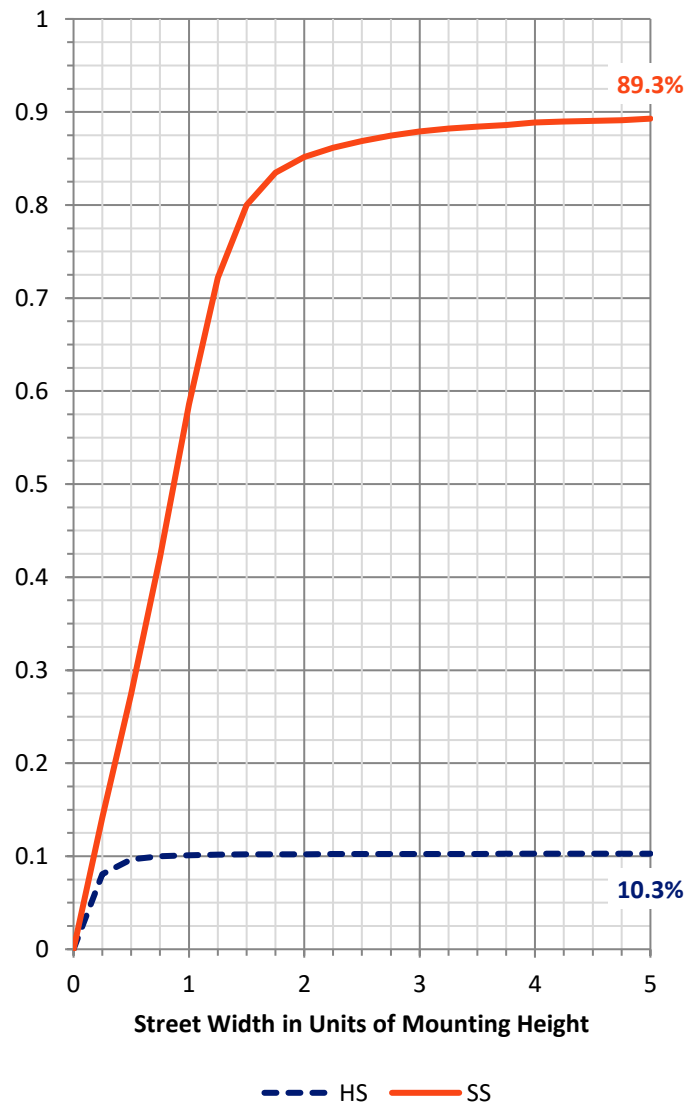
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3228.8	0.0	3228.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27868.5	0.0	27868.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	31097.4	0.0	31097.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	1.8
10°-20°	1187.7	3.8
20°-30°	1726.8	5.6
30°-40°	2693.9	8.7
40°-50°	4772.1	15.3
50°-60°	7551.4	24.3
60°-70°	8649.1	27.8
70°-80°	3587.6	11.5
80°-90°	370.6	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°	31097.4	100.0
0°-180°	31097.4	100.0

Coefficient of Utilization



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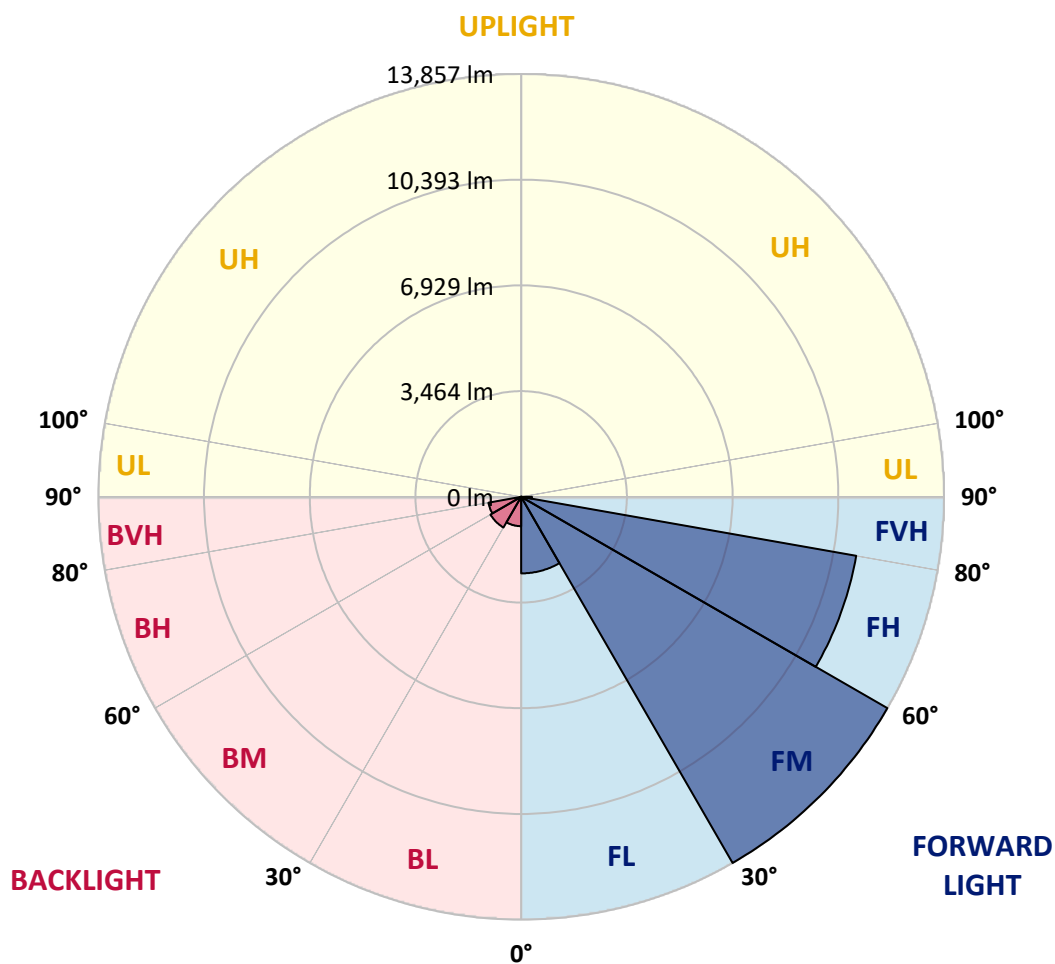
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2509.1	8.1			
FM	(30°-60°)	13857.1	44.6			
FH	(60°-80°)	11148.5	35.9			G4/12000
FVH	(80°-90°)	353.9	1.1			G3/500
BL	(0°-30°)	963.5	3.1	B2/1000		
BM	(30°-60°)	1160.4	3.7	B2/2500		
BH	(60°-80°)	1088.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	16.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1
2.5°	7090.3	7104.8	7103.0	7113.9	7139.2	7141.0	7115.7	7066.7	7055.9	6992.4	6881.7
5°	6538.8	6580.5	6606.1	6709.4	6825.4	6965.2	7070.3	7108.4	7103.0	7057.6	6890.8
7.5°	5909.5	5951.3	5980.2	6101.8	6255.9	6495.4	6769.2	6994.1	7014.1	7063.1	6883.6
10°	5490.5	5497.7	5537.7	5653.7	5815.3	6060.1	6386.5	6780.1	6839.9	7019.6	6865.5
12.5°	5145.9	5151.2	5203.9	5329.0	5501.4	5748.0	6090.8	6546.2	6638.6	6965.2	6861.7
15°	4901.1	4920.9	4968.1	5098.7	5281.9	5526.8	5878.7	6373.8	6484.4	6945.2	6894.4
17.5°	4819.3	4841.2	4855.6	4950.0	5116.8	5356.2	5717.2	6261.3	6386.5	6956.1	6957.8
20°	4904.6	4920.9	4888.3	4911.9	5015.2	5229.2	5581.2	6165.3	6314.0	6968.8	7039.5
22.5°	5222.0	5229.2	5140.4	5037.1	5019.0	5136.9	5474.1	6089.0	6248.6	7003.2	7135.6
25°	5766.1	5753.5	5608.4	5385.3	5174.8	5120.4	5410.6	6041.9	6216.0	7039.5	7235.3
27.5°	6422.8	6441.0	6241.4	5916.7	5515.9	5229.2	5401.6	6022.0	6201.5	7064.9	7322.4
30°	7220.8	7246.3	7017.7	6609.6	6034.6	5497.7	5485.1	6018.3	6192.5	7048.6	7329.7
32.5°	8035.3	8066.2	7886.6	7465.8	6727.5	5947.5	5673.8	6058.2	6210.7	6992.4	7288.0
35°	8887.8	8931.3	8811.6	8450.6	7667.0	6597.0	6005.7	6179.7	6295.8	6986.9	7246.3
37.5°	10065.0	10104.9	9880.0	9497.3	8804.3	7467.6	6538.8	6408.3	6497.2	7074.0	7257.1
40°	11822.6	11817.2	11236.8	10650.8	10054.1	8574.0	7288.0	6821.8	6867.2	7337.0	7391.4
42.5°	13738.0	13729.0	12871.0	11980.4	11441.7	9936.1	8272.9	7536.4	7505.7	7821.3	7739.6
45°	15214.5	15212.6	14512.5	13509.5	13112.2	11499.7	9546.2	8530.5	8483.3	8608.4	8381.8
47.5°	15843.9	15854.7	15502.9	14797.3	14964.1	13614.7	11151.4	9970.7	9899.9	9849.1	9504.5
50°	15354.1	15375.9	15404.9	15267.1	16322.7	16456.9	13304.5	12000.4	11965.8	11739.2	11200.5
52.5°	13754.3	13865.0	14206.0	14643.2	16794.4	19185.0	16680.1	14521.5	14336.6	14095.3	13502.1
55°	11059.0	11180.5	11828.1	12889.1	16092.4	20977.0	21410.6	17772.0	17463.7	16743.6	15887.4
57.5°	7318.8	7507.4	8447.1	9796.5	14053.6	21265.4	26130.1	22283.0	21209.2	19237.6	18272.6
60°	4032.2	4213.6	5233.0	6455.5	10150.1	19839.8	29304.3	28156.2	26259.0	22025.5	21169.3
62.5°	2483.1	2581.1	3333.8	4471.1	6087.3	15658.8	29961.0	35536.7	33340.1	25615.0	24668.2
65°	1977.0	2018.8	2387.0	3654.8	4364.2	9314.1	27840.6	41163.2	40430.4	29961.0	27800.7
67°	1919.0	1935.4	2109.5	3137.9	4113.8	5710.0	23324.1	42079.2	42822.8	32591.1	27898.6
67.5°	1931.7	1949.8	2114.9	2994.7	4106.5	5247.4	21767.8	41718.3	42657.9	32799.6	27465.1
70°	1862.8	1919.0	2421.5	2992.8	3905.2	4360.4	13036.0	36146.1	37123.8	30476.1	23304.2
72.5°	660.3	663.9	1046.6	2421.5	4246.2	4407.6	6546.2	26498.3	27222.1	23313.3	16801.6
75°	391.8	333.8	348.2	689.2	4057.6	4280.7	3776.4	16932.1	17202.5	13358.9	8508.7
77.5°	270.3	235.8	243.1	304.8	1545.4	4220.8	3000.0	8829.8	8541.4	4685.1	1812.1
80°	154.2	136.0	145.1	266.6	562.2	3937.8	2829.6	3580.5	3052.7	794.5	500.6
82.5°	81.6	69.0	83.5	219.5	391.8	2454.1	2835.1	1730.4	1371.3	268.4	341.0
85°	29.1	23.6	39.9	150.6	261.2	752.8	2628.2	1454.7	1142.8	130.6	259.4
87.5°	5.5	5.5	16.3	61.6	105.2	230.3	1554.4	863.3	578.6	78.0	177.8
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°	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1	6858.1
2.5°	6836.4	6758.3	6653.2	6524.4	6372.0	6237.8	6138.0	6034.6	6012.9	5976.6	5971.1
5°	6791.0	6656.7	6395.6	6096.3	5777.1	5488.6	5254.8	5046.1	4953.6	4873.7	4864.7
7.5°	6724.0	6522.6	6078.2	5595.7	5096.8	4643.4	4258.9	3986.8	3736.5	3616.8	3598.7
10°	6645.9	6357.5	5720.9	5051.5	4362.2	3722.0	3150.6	2671.8	2381.6	2209.2	2187.5
12.5°	6573.4	6196.1	5356.2	4487.4	3571.4	2715.3	1980.8	1523.6	1218.9	1095.6	1081.0
15°	6538.8	6065.4	5015.2	3910.6	2744.4	1728.6	1082.9	838.0	738.3	709.2	707.4
17.5°	6535.3	5954.8	4681.5	3313.9	1922.6	1004.8	705.6	643.9	624.0	616.7	616.7
20°	6533.4	5849.6	4347.8	2695.3	1220.8	669.3	587.7	573.2	558.7	549.6	549.6
22.5°	6553.4	5755.3	3999.6	2064.1	769.0	542.4	516.9	502.5	484.3	471.6	469.9
25°	6573.4	5682.8	3644.1	1469.2	556.9	471.6	446.3	426.2	400.9	384.5	382.7
27.5°	6577.0	5592.1	3263.1	983.2	466.2	411.7	379.1	348.2	319.2	302.8	301.1
30°	6522.6	5439.7	2840.5	663.9	411.7	357.3	313.8	281.2	253.9	241.3	241.3
32.5°	6415.6	5251.1	2376.2	500.6	366.3	306.6	259.4	228.6	210.5	205.0	203.1
35°	6319.4	5047.9	1899.0	424.5	328.4	259.4	212.2	192.3	181.4	179.6	177.8
37.5°	6263.2	4884.7	1451.1	384.5	292.0	217.7	179.6	165.1	159.6	156.0	157.8
40°	6306.7	4748.6	1072.0	352.0	255.7	181.4	152.4	145.1	139.7	137.8	137.8
42.5°	6497.2	4725.0	796.3	322.9	221.2	150.6	132.4	127.0	123.4	121.5	123.4
45°	6997.8	4870.1	618.5	295.6	186.9	127.0	112.4	110.7	108.8	108.8	108.8
47.5°	7750.6	5169.4	515.1	264.9	156.0	108.8	97.9	96.1	94.3	96.1	96.1
50°	9025.7	5717.2	460.7	234.1	128.8	92.6	83.5	83.5	83.5	83.5	85.2
52.5°	10964.6	6794.7	424.5	203.1	105.2	78.0	70.7	70.7	72.5	72.5	74.4
55°	13124.9	8224.0	391.8	172.3	88.8	65.3	58.0	59.9	61.6	63.5	63.5
57.5°	15468.4	9807.4	364.6	141.5	76.2	52.6	48.9	50.8	52.6	56.3	56.3
60°	18296.2	11521.5	324.7	110.7	63.5	41.7	38.1	41.7	47.2	50.8	52.6
62.5°	21401.4	13179.3	273.9	87.1	52.6	32.7	30.8	38.1	45.4	48.9	50.8
65°	23523.6	13699.9	210.5	70.7	39.9	23.6	25.3	34.4	43.4	48.9	48.9
67°	22663.8	12421.1	172.3	59.9	32.7	18.1	23.6	34.4	43.4	47.2	48.9
67.5°	22067.1	11920.5	165.1	58.0	30.8	18.1	23.6	34.4	43.4	48.9	48.9
70°	17955.1	8954.9	137.8	43.4	25.3	16.3	20.0	32.7	41.7	47.2	47.2
72.5°	12475.6	5521.3	123.4	30.8	21.8	14.5	18.1	30.8	39.9	45.4	47.2
75°	5931.2	1998.9	105.2	23.6	20.0	12.7	16.3	30.8	39.9	45.4	45.4
77.5°	1209.8	464.4	85.2	20.0	16.3	12.7	14.5	29.1	38.1	43.4	43.4
80°	397.2	179.6	63.5	18.1	16.3	12.7	14.5	27.2	38.1	41.7	43.4
82.5°	286.6	90.6	41.7	18.1	16.3	12.7	12.7	27.2	36.3	41.7	41.7
85°	219.5	63.5	27.2	18.1	16.3	12.7	12.7	25.3	34.4	39.9	39.9
87.5°	145.1	25.3	21.8	18.1	16.3	12.7	12.7	25.3	32.7	38.1	39.9
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)