

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: P192986

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35421.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - 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

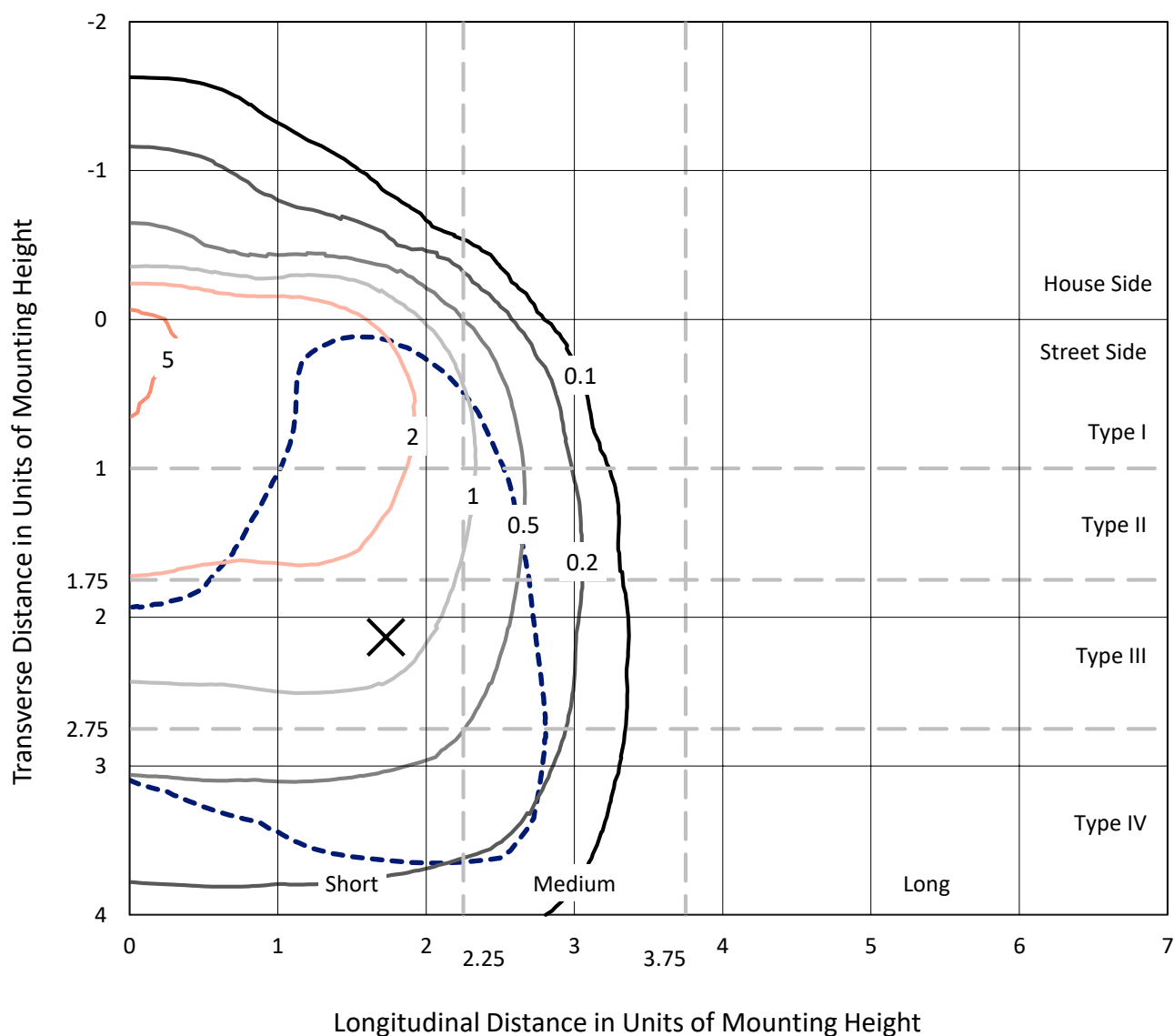


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

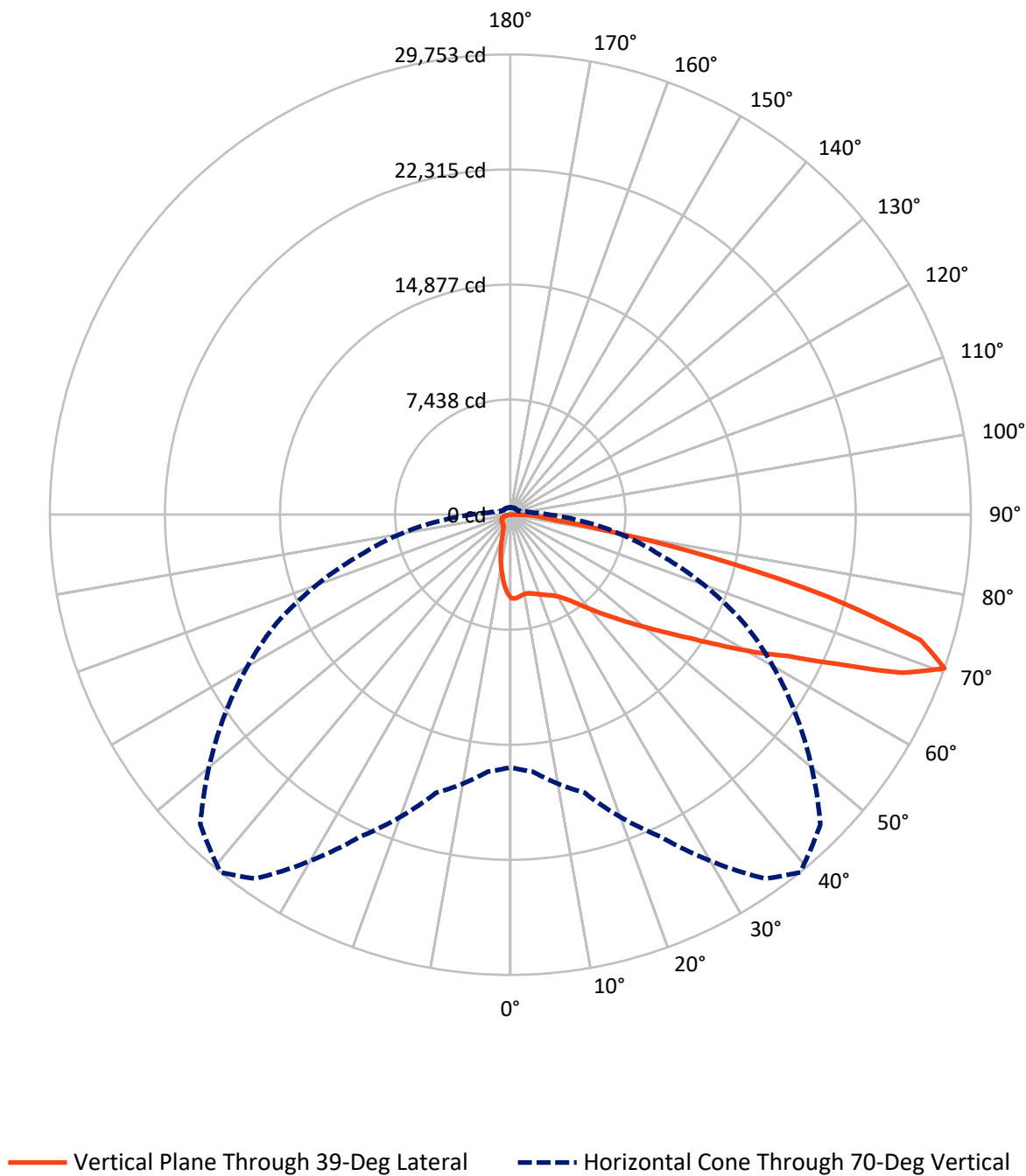


Based on 30 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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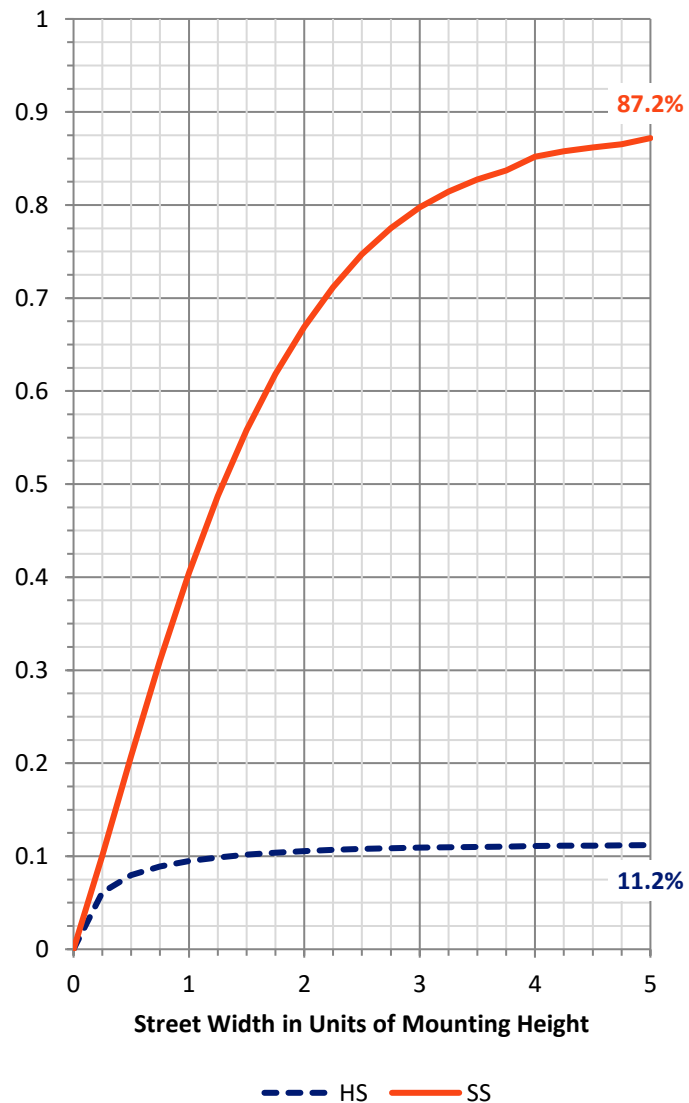
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4028.7	0.0	4028.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	31393.2	0.0	31393.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	35421.8	0.0	35421.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	1.3
10°-20°	1153.6	3.3
20°-30°	1796.1	5.1
30°-40°	2798.1	7.9
40°-50°	4697.5	13.3
50°-60°	7462.3	21.1
60°-70°	9953.9	28.1
70°-80°	6010.9	17.0
80°-90°	1087.9	3.1
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°	35421.8	100.0
0°-180°	35421.8	100.0

Coefficient of Utilization



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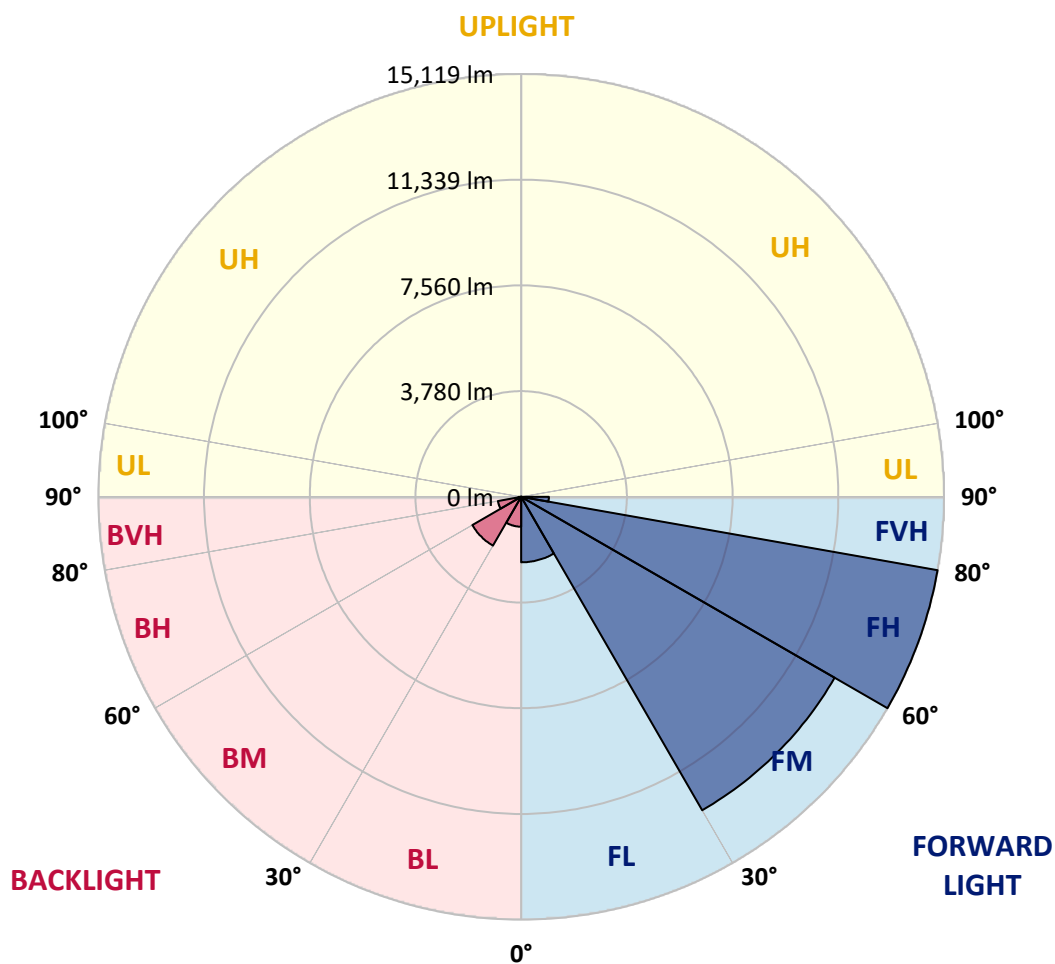
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2342.5	6.6			
FM	(30°-60°)	12941.8	36.5			
FH	(60°-80°)	15119.1	42.7			G5
FVH	(80°-90°)	989.8	2.8			G5
BL	(0°-30°)	1068.7	3.0	B3/2500		
BM	(30°-60°)	2016.1	5.7	B2/2500		
BH	(60°-80°)	845.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	98.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6
2.5°	5482.1	5480.2	5465.8	5455.0	5446.0	5442.4	5449.7	5422.6	5399.1	5370.4	5339.7
5°	5440.6	5438.8	5415.4	5393.8	5372.2	5364.9	5363.2	5314.6	5285.8	5242.5	5184.9
7.5°	5395.6	5386.6	5356.0	5320.0	5282.1	5264.1	5246.1	5183.0	5150.7	5107.5	5040.7
10°	5348.8	5338.0	5309.1	5273.2	5237.2	5210.1	5179.4	5118.2	5084.1	5051.6	4974.1
12.5°	5300.1	5291.1	5283.9	5267.7	5242.5	5219.1	5195.8	5143.5	5107.5	5069.6	4979.6
15°	5292.9	5289.3	5305.5	5316.3	5302.0	5287.5	5262.4	5217.3	5179.4	5141.6	5024.7
17.5°	5350.5	5348.8	5390.2	5419.0	5411.8	5386.6	5352.4	5302.0	5271.3	5238.9	5093.0
20°	5476.6	5485.7	5536.0	5573.9	5538.0	5501.9	5446.0	5375.8	5359.6	5345.2	5163.3
22.5°	5714.4	5723.3	5759.4	5773.8	5680.2	5628.0	5550.5	5460.4	5449.7	5460.4	5247.9
25°	6085.3	6076.4	6071.0	6016.9	5845.8	5764.7	5665.7	5572.1	5577.4	5626.1	5366.9
27.5°	6577.0	6528.3	6452.8	6290.7	6018.8	5928.6	5808.0	5721.6	5755.8	5849.4	5545.1
30°	7086.7	7032.7	6857.9	6593.2	6245.6	6146.6	6011.6	5914.3	6004.4	6152.0	5782.8
32.5°	7558.5	7551.4	7295.6	6955.2	6559.1	6472.5	6337.5	6227.7	6373.5	6598.6	6139.4
35°	8073.6	8089.8	7783.6	7374.8	6982.2	6892.2	6795.0	6712.2	6906.6	7216.3	6656.3
37.5°	8624.7	8657.0	8295.1	7834.1	7464.9	7427.0	7369.4	7333.4	7634.2	8062.8	7378.4
40°	9361.3	9328.9	8826.4	8352.8	8057.4	8055.5	8037.5	8080.9	8581.4	9168.6	8305.9
42.5°	10150.0	10054.6	9390.1	8909.2	8707.5	8768.7	8804.7	8981.2	9721.5	10512.1	9436.9
45°	11000.1	10785.7	9975.4	9498.1	9429.7	9559.3	9681.8	10065.4	11063.1	12041.0	10675.9
47.5°	11679.0	11471.9	10580.4	10115.9	10265.4	10461.6	10697.6	11304.5	12565.2	13620.5	11898.8
50°	12213.9	12078.8	11191.0	10836.3	11185.6	11488.2	11873.5	12707.4	14128.4	15158.4	13031.6
52.5°	12732.6	12631.8	11806.9	11574.6	12266.2	12684.0	13208.1	14213.0	15731.1	16671.3	13984.2
55°	13200.8	13128.8	12469.6	12494.9	13537.7	14081.5	14740.6	15927.5	17478.1	18020.1	14791.1
57.5°	13728.5	13636.6	13226.1	13649.3	15171.0	15877.0	16734.2	17854.5	19116.9	19219.6	15405.2
60°	14259.8	14180.5	14065.3	14981.9	17245.7	17987.7	18799.9	19722.1	20779.2	20150.6	15369.2
62.5°	14720.8	14729.8	14933.3	16381.2	19277.1	20136.3	21126.7	22038.0	22283.0	20312.7	14232.7
65°	15502.5	15644.8	16251.7	18362.3	22137.0	23286.1	24501.7	24355.8	22698.9	18798.2	11796.0
67.5°	16431.7	16682.0	17912.1	21002.5	25751.6	27276.9	27746.9	24879.9	21033.1	15280.9	8408.6
70°	16338.1	16682.0	18628.8	22970.8	28730.3	29753.3	28326.9	22517.0	16701.8	9982.6	4466.3
72.5°	14508.3	14999.9	17168.4	22068.6	27792.0	27701.9	24591.7	16786.5	9923.2	4008.8	1745.1
75°	11057.7	11554.8	13420.6	17434.8	21966.0	21209.6	17449.2	9273.1	3765.7	1592.0	1100.4
77.5°	6360.8	6746.3	8187.1	10692.1	13935.6	13159.4	9712.4	4124.1	1833.4	1109.4	859.0
80°	3551.5	3765.7	4641.0	5424.4	6829.1	6260.0	4345.7	2562.6	1368.7	805.0	662.7
82.5°	2807.6	2998.5	3753.2	3421.8	3119.3	2877.9	2496.1	2281.8	1093.1	507.8	396.2
85°	2452.9	2634.8	3176.8	2694.3	2130.5	1954.0	2027.9	2245.8	850.0	306.2	338.6
87.5°	2272.8	2515.9	2831.0	2076.5	1658.7	1469.5	1871.2	2461.8	273.7	190.8	136.9
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°	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6	5377.6
2.5°	5312.7	5283.9	5237.2	5195.8	5130.9	5096.6	5058.8	5031.8	5010.2	4992.2	5021.0
5°	5148.9	5094.9	4995.8	4889.6	4763.4	4664.4	4581.6	4504.1	4450.1	4414.1	4439.3
7.5°	4994.0	4905.7	4750.8	4558.2	4342.1	4158.4	4007.1	3873.8	3782.0	3722.6	3746.0
10°	4905.7	4795.9	4556.3	4253.8	3935.1	3648.7	3411.0	3205.6	3063.4	2982.3	2994.9
12.5°	4884.1	4741.9	4410.5	3994.5	3558.7	3160.7	2825.7	2541.2	2341.2	2236.7	2240.4
15°	4900.4	4718.5	4273.5	3746.0	3194.8	2692.3	2274.6	1928.8	1696.5	1577.6	1575.8
17.5°	4927.4	4700.5	4129.6	3477.6	2825.7	2242.1	1775.7	1437.2	1231.8	1136.4	1129.2
20°	4956.2	4671.6	3967.4	3187.6	2442.1	1824.3	1390.4	1125.6	995.9	943.7	940.0
22.5°	4997.6	4646.4	3799.9	2881.5	2065.6	1485.8	1143.6	965.3	896.9	869.8	866.2
25°	5064.2	4633.8	3621.7	2562.6	1727.1	1242.6	995.9	886.1	846.4	828.4	826.6
27.5°	5175.8	4651.8	3454.2	2252.9	1451.5	1078.7	913.1	846.4	817.6	801.4	799.7
30°	5320.0	4707.7	3277.7	1959.4	1237.3	967.1	862.6	819.5	796.1	779.8	779.8
32.5°	5559.4	4801.3	3092.2	1705.5	1084.2	889.7	824.8	796.1	776.2	763.6	761.7
35°	5912.4	4977.8	2919.3	1494.7	974.3	833.8	792.4	770.9	756.4	749.2	749.2
37.5°	6425.7	5256.9	2766.2	1343.5	907.6	796.1	761.7	745.5	736.6	736.6	736.6
40°	7115.5	5642.3	2642.0	1242.6	869.8	768.9	738.4	725.8	720.3	722.2	722.2
42.5°	7967.3	6143.0	2559.2	1172.5	851.9	752.8	722.2	711.4	706.0	704.1	706.0
45°	8938.1	6712.2	2550.1	1120.1	833.8	742.0	711.4	700.6	689.8	682.6	682.6
47.5°	9881.7	7290.3	2624.0	1102.2	814.0	729.5	702.3	691.6	675.3	659.2	659.2
50°	10715.6	7781.9	2723.0	1109.4	806.8	711.4	688.0	682.6	657.3	639.3	637.5
52.5°	11378.3	8160.0	2804.0	1131.0	814.0	698.7	670.0	671.7	644.7	625.0	623.1
55°	11909.6	8408.6	2782.4	1152.5	830.3	691.6	653.7	657.3	635.8	615.9	615.9
57.5°	12141.9	8316.7	2542.9	1134.5	842.8	693.4	641.2	655.5	637.5	619.5	619.5
60°	11643.0	7500.8	2094.5	1055.3	826.6	688.0	635.8	662.7	660.9	642.9	641.2
62.5°	10133.8	6040.3	1624.4	938.3	770.9	660.9	621.3	660.9	680.8	675.3	673.6
65°	7810.6	4302.4	1240.8	812.3	695.1	615.9	583.6	619.5	646.5	653.7	651.9
67.5°	5069.6	2636.5	956.3	693.4	610.5	563.7	534.9	551.1	556.4	556.4	552.9
70°	2492.5	1419.2	761.7	583.6	524.1	507.8	491.6	482.6	473.6	466.4	466.4
72.5°	1230.0	927.5	626.7	493.5	452.0	444.8	441.2	430.4	423.3	414.2	410.6
75°	909.5	754.6	533.0	416.1	389.0	381.8	389.0	380.0	378.1	371.1	367.4
77.5°	747.4	642.9	459.2	356.6	333.1	320.5	331.4	333.1	335.0	324.2	320.5
80°	606.9	543.9	383.6	295.3	273.7	264.7	271.9	286.4	290.0	273.7	266.6
82.5°	437.6	444.8	309.8	230.5	212.5	205.3	219.7	237.7	241.4	217.9	212.5
85°	367.4	371.1	237.7	163.9	145.9	135.1	158.5	176.5	189.1	165.6	160.3
87.5°	153.1	217.9	136.9	91.9	81.1	70.3	84.6	93.6	113.4	104.5	102.7
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)