

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: P456175

Luminaire Tested: **GALN-SA7B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 30828 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

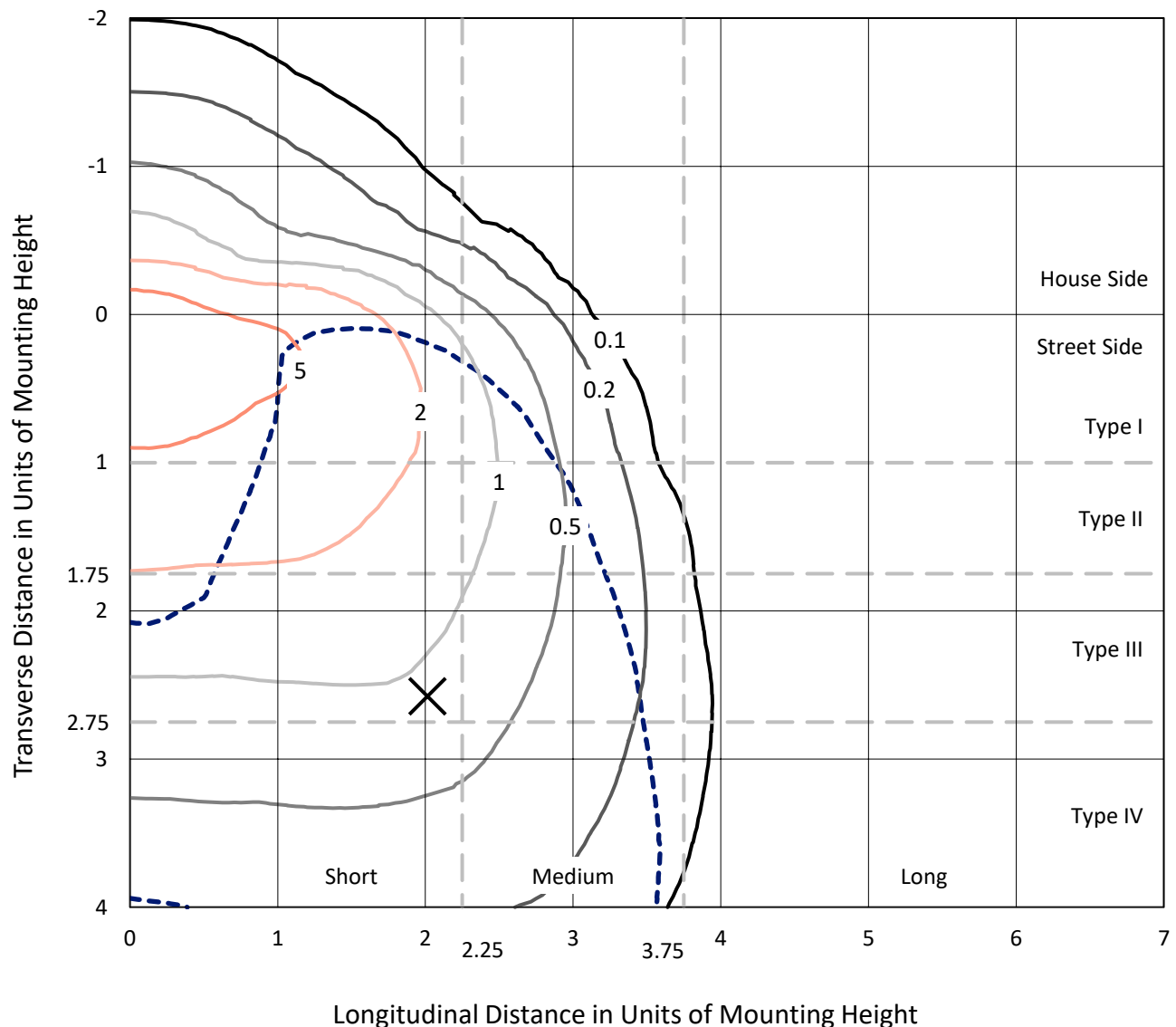


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

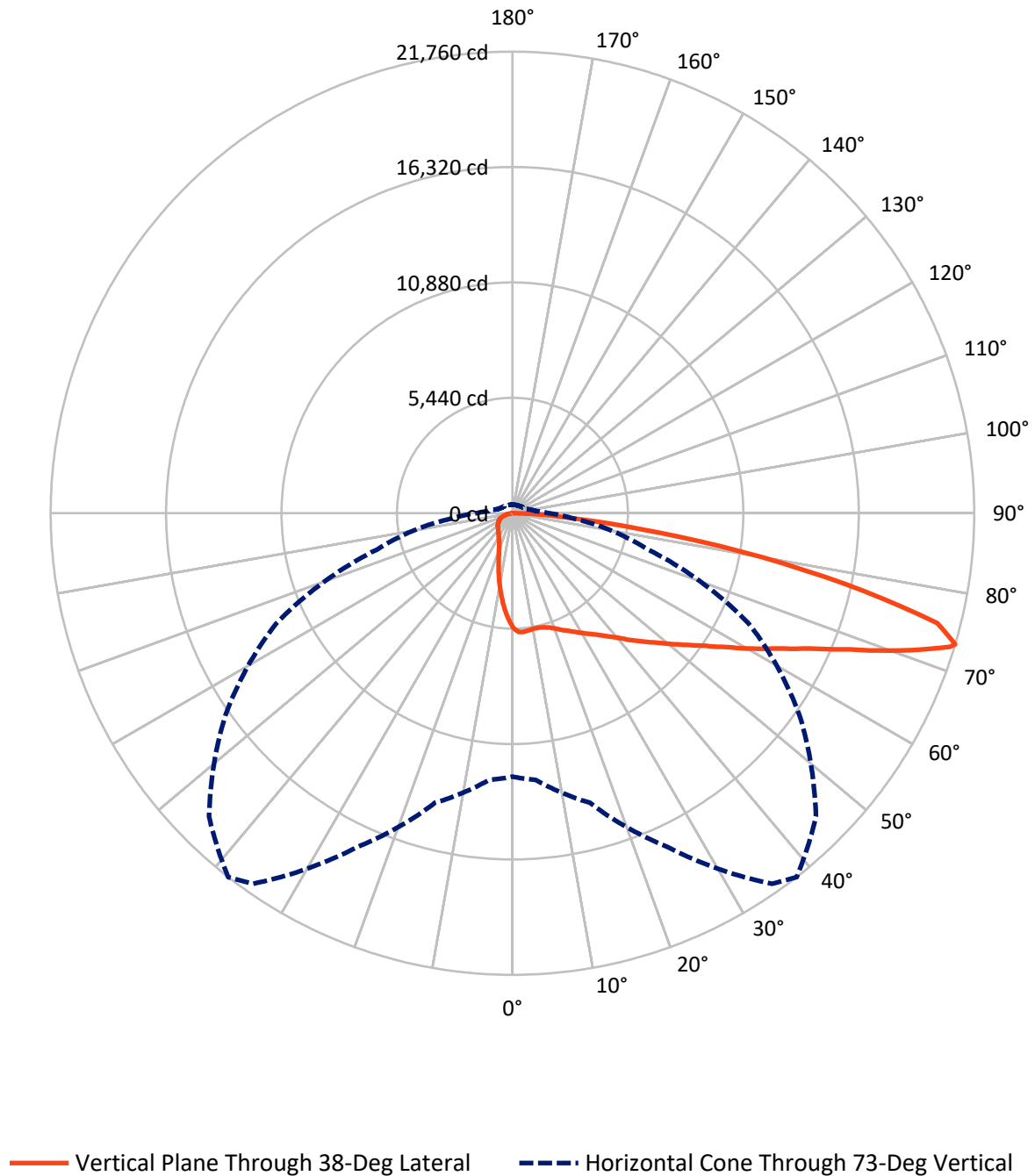


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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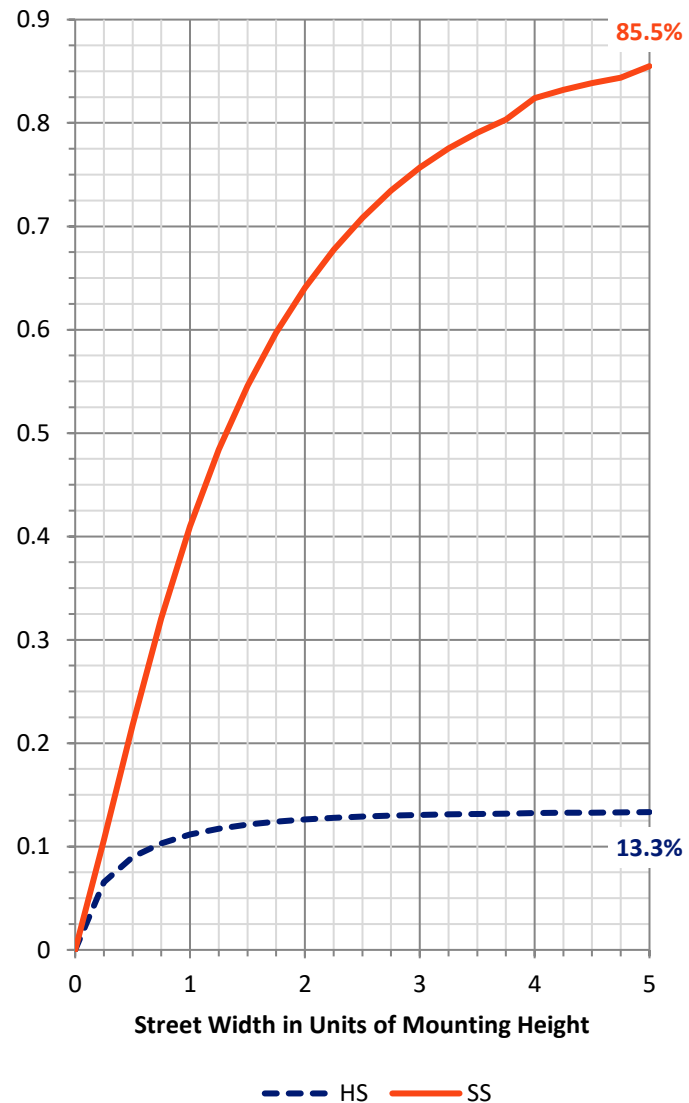
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4144.2	0.0	4144.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26683.8	0.0	26683.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	30828.0	0.0	30828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.7	1.5
10°-20°	1212.3	3.9
20°-30°	1887.8	6.1
30°-40°	2768.9	9.0
40°-50°	4107.4	13.3
50°-60°	5819.4	18.9
60°-70°	7382.0	23.9
70°-80°	6145.0	19.9
80°-90°	1032.5	3.3
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°	30828.0	100.0
0°-180°	30828.0	100.0

Coefficient of Utilization



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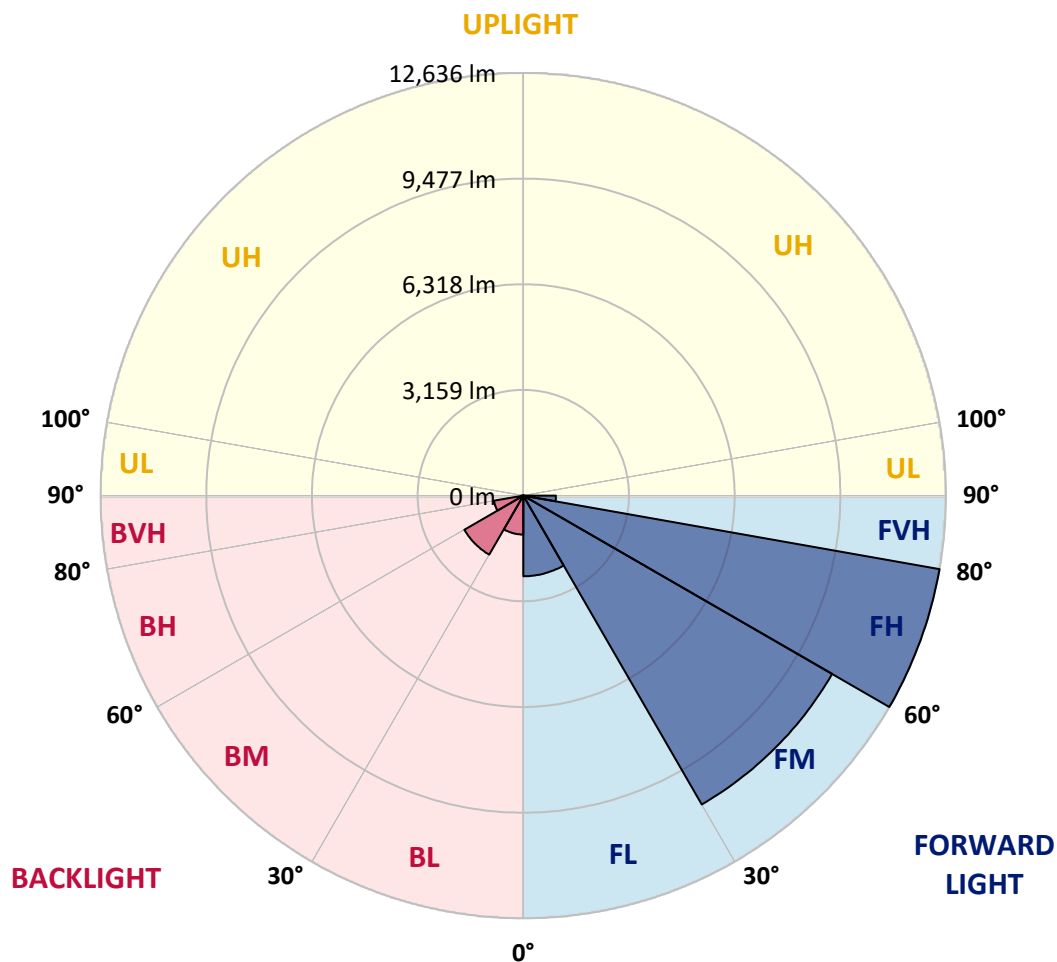
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2409.9	7.8			
FM	(30°-60°)	10661.2	34.6			
FH	(60°-80°)	12636.3	41.0			G5
FVH	(80°-90°)	976.5	3.2			G5
BL	(0°-30°)	1162.9	3.8	B3/2500		
BM	(30°-60°)	2034.5	6.6	B2/2500		
BH	(60°-80°)	890.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	56.0	0.2			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°	38°	45°	55°	65°	75°	85°
0°	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0
2.5°	5633.6	5661.4	5647.5	5628.3	5616.2	5604.0	5586.6	5536.1	5496.0	5452.5	5384.6
5°	5675.4	5692.8	5680.6	5656.2	5628.3	5616.2	5583.1	5516.9	5452.5	5379.4	5278.4
7.5°	5651.0	5657.9	5644.0	5614.4	5590.0	5567.4	5529.1	5456.0	5377.7	5288.9	5156.6
10°	5563.9	5590.0	5590.0	5565.7	5541.3	5529.1	5490.8	5421.2	5349.8	5248.8	5092.1
12.5°	5492.6	5520.4	5543.0	5536.1	5534.3	5534.3	5504.7	5452.5	5369.0	5273.2	5086.9
15°	5443.8	5476.9	5525.6	5553.5	5570.9	5576.1	5563.9	5518.7	5433.4	5321.9	5107.8
17.5°	5433.4	5473.4	5562.2	5623.1	5668.4	5666.6	5663.2	5600.5	5506.5	5391.6	5133.9
20°	5480.4	5532.6	5656.2	5752.0	5818.1	5805.9	5786.8	5704.9	5595.3	5466.4	5158.3
22.5°	5621.4	5675.4	5811.1	5915.6	5980.0	5980.0	5922.6	5814.6	5698.0	5553.5	5191.4
25°	5823.3	5882.5	6027.0	6133.2	6162.8	6140.2	6082.7	5952.2	5818.1	5678.8	5261.0
27.5°	6070.5	6141.9	6276.0	6364.8	6356.0	6338.6	6279.4	6112.3	5978.3	5851.2	5379.4
30°	6378.7	6430.9	6570.2	6591.1	6559.7	6556.3	6472.7	6305.6	6180.2	6082.7	5548.3
32.5°	6669.4	6716.4	6827.8	6836.5	6780.8	6787.8	6709.4	6556.3	6484.9	6450.1	5832.0
35°	6977.5	7001.9	7097.7	7087.2	7050.7	7045.4	7014.1	6867.9	6890.5	6953.2	6234.2
37.5°	7235.2	7283.9	7337.9	7346.6	7344.9	7362.3	7383.2	7313.5	7444.1	7640.8	6761.7
40°	7472.0	7513.7	7593.8	7621.7	7689.6	7724.4	7795.8	7797.5	8098.7	8422.5	7411.0
42.5°	7632.1	7703.5	7853.2	7903.7	8069.1	8173.6	8279.7	8392.9	8829.9	9245.9	8177.0
45°	7771.4	7865.4	8114.4	8271.0	8495.6	8622.7	8847.3	9084.0	9712.5	10257.4	8955.2
47.5°	7982.1	8065.6	8351.1	8627.9	8967.4	9113.6	9449.6	9803.0	10624.7	11221.9	9700.3
50°	8274.5	8325.0	8615.7	9066.6	9500.1	9688.1	10132.1	10642.2	11599.7	12174.2	10354.9
52.5°	8648.8	8669.7	8901.3	9501.9	10072.9	10306.2	10894.6	11490.0	12452.7	13001.1	10873.7
55°	9091.0	9056.2	9237.2	9963.2	10727.5	11032.1	11664.1	12348.2	13411.9	13669.6	11251.5
57.5°	9528.0	9474.0	9618.5	10523.8	11535.2	11902.6	12639.0	13232.6	14268.5	14294.6	11516.1
60°	9991.1	9951.0	10123.4	11181.8	12525.8	12961.0	13641.7	14150.1	15097.1	14729.8	11557.9
62.5°	10466.3	10401.9	10647.4	11921.7	13641.7	14036.9	14696.7	15125.0	15910.1	14891.7	11155.7
65°	10927.7	10898.1	11277.6	12800.9	14912.6	15361.8	16002.4	16293.1	16561.2	14648.0	10158.2
67.5°	11418.6	11477.8	12083.6	13974.2	16569.9	17134.0	17825.1	17551.8	16747.5	13493.8	8554.8
70°	12167.2	12205.5	13142.1	15511.5	18706.0	19386.7	19721.0	17999.2	15849.2	11302.0	6430.9
72.5°	12489.3	12658.1	14087.4	17125.3	21132.9	21548.9	20358.1	17001.7	13203.0	7677.4	3379.1
73°	12417.9	12619.8	14130.9	17370.8	21322.6	21759.6	20222.4	16488.1	12273.4	6612.0	2896.9
75°	11528.3	11777.2	13565.1	17165.3	20953.5	20692.4	18039.3	14052.6	8293.7	3006.5	1319.6
77.5°	9096.2	9167.6	10748.4	13861.1	16500.3	16016.3	13500.7	8782.9	3387.8	1117.7	748.6
80°	4562.9	4825.8	6058.4	7940.3	11033.9	10875.4	8521.7	4153.8	1411.9	656.3	496.2
82.5°	2195.3	2381.6	2950.8	3871.8	6096.7	5952.2	4220.0	2270.1	896.6	383.0	292.5
85°	1413.6	1552.9	1878.4	1847.1	2506.9	2393.7	1895.8	1718.3	531.0	200.2	203.7
87.5°	933.1	1021.9	1225.6	980.1	912.2	825.2	837.4	967.9	104.5	76.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0	5416.0
2.5°	5356.8	5334.1	5259.3	5186.2	5116.5	5050.4	5006.8	4949.4	4911.1	4921.5	4937.2
5°	5222.7	5172.2	5039.9	4911.1	4789.2	4644.7	4528.1	4434.1	4362.7	4336.6	4331.4
7.5°	5081.7	4996.4	4806.6	4585.5	4378.4	4199.1	3991.9	3889.2	3769.1	3727.3	3713.4
10°	4996.4	4881.5	4615.1	4307.0	3995.4	3697.7	3473.1	3290.3	3124.9	3093.6	3077.9
12.5°	4972.0	4820.6	4461.9	4065.0	3650.7	3285.1	2952.6	2712.3	2552.2	2515.6	2461.6
15°	4958.1	4770.1	4319.2	3821.3	3295.5	2849.9	2499.9	2219.7	2073.4	1975.9	1977.7
17.5°	4945.9	4712.6	4159.0	3554.9	2989.1	2475.6	2089.1	1836.7	1702.6	1650.4	1645.2
20°	4928.5	4644.7	3974.5	3274.6	2639.2	2134.4	1784.4	1596.4	1505.9	1462.4	1460.6
22.5°	4921.5	4578.6	3793.4	2989.1	2329.3	1871.5	1582.5	1450.2	1392.7	1363.1	1363.1
25°	4938.9	4531.6	3603.7	2717.6	2054.3	1646.9	1443.2	1352.7	1319.6	1303.9	1298.7
27.5°	4992.9	4510.7	3415.7	2446.0	1801.8	1493.7	1349.2	1286.5	1262.2	1250.0	1251.7
30°	5095.6	4508.9	3231.1	2177.9	1613.8	1377.1	1274.3	1230.8	1211.7	1204.7	1203.0
32.5°	5261.0	4547.2	3050.1	1956.8	1455.4	1279.6	1204.7	1173.4	1164.7	1159.4	1157.7
35°	5541.3	4655.2	2870.8	1754.8	1333.5	1192.5	1138.6	1122.9	1110.7	1115.9	1117.7
37.5°	5919.1	4841.5	2700.1	1596.4	1241.3	1128.1	1082.8	1068.9	1062.0	1067.2	1072.4
40°	6425.7	5109.6	2557.4	1469.3	1175.1	1074.1	1034.1	1021.9	1014.9	1023.7	1025.4
42.5°	6984.5	5419.4	2439.0	1370.1	1121.1	1028.9	990.6	976.6	971.4	976.6	978.4
45°	7559.0	5779.8	2378.1	1298.7	1075.9	995.8	955.8	940.1	927.9	924.4	929.6
47.5°	8124.8	6093.2	2376.3	1255.2	1039.3	966.2	922.7	905.3	889.6	880.9	879.2
50°	8586.1	6342.1	2418.1	1236.0	1008.0	933.1	889.6	872.2	851.3	833.9	837.4
52.5°	8934.3	6504.0	2437.3	1227.3	990.6	898.3	854.8	839.1	814.7	792.1	792.1
55°	9158.9	6542.3	2390.3	1218.6	976.6	861.7	814.7	800.8	776.4	753.8	753.8
57.5°	9235.5	6423.9	2221.4	1197.7	962.7	830.4	774.7	762.5	743.4	720.7	717.3
60°	9057.9	6023.5	1925.4	1135.1	934.9	797.3	731.2	726.0	719.0	699.8	698.1
62.5°	8373.8	5174.0	1603.4	1053.2	887.9	762.5	691.1	699.8	705.1	694.6	692.9
65°	7235.2	4200.8	1370.1	940.1	825.2	713.8	647.6	670.2	684.2	684.2	680.7
67.5°	5868.6	3225.9	1154.2	842.6	746.8	647.6	598.9	616.3	626.7	623.2	631.9
70°	4171.2	2184.8	940.1	731.2	647.6	572.8	536.2	536.2	529.2	525.8	525.8
72.5°	2022.9	1248.2	762.5	611.1	551.9	489.2	459.6	447.4	433.5	431.7	423.0
73°	1690.4	1119.4	727.7	588.4	529.2	477.0	443.9	424.8	416.1	409.1	407.4
75°	1028.9	849.6	607.6	496.2	450.9	410.9	381.3	363.8	355.1	349.9	348.2
77.5°	677.2	633.7	471.8	379.5	344.7	320.3	308.1	290.7	285.5	278.5	278.5
80°	504.9	484.0	337.7	268.1	247.2	226.3	222.8	219.4	205.4	196.7	193.2
82.5°	325.5	344.7	229.8	179.3	156.7	139.3	141.0	146.2	132.3	120.1	116.6
85°	231.5	248.9	139.3	81.8	66.2	57.4	64.4	57.4	59.2	47.0	38.3
87.5°	38.3	66.2	24.4	10.4	5.2	3.5	0.0	0.0	0.0	0.0	0.0
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)