

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: P454319

Luminaire Tested: **GALN-SA5B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454319
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-SA5B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 22165 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 204
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: 24 FT

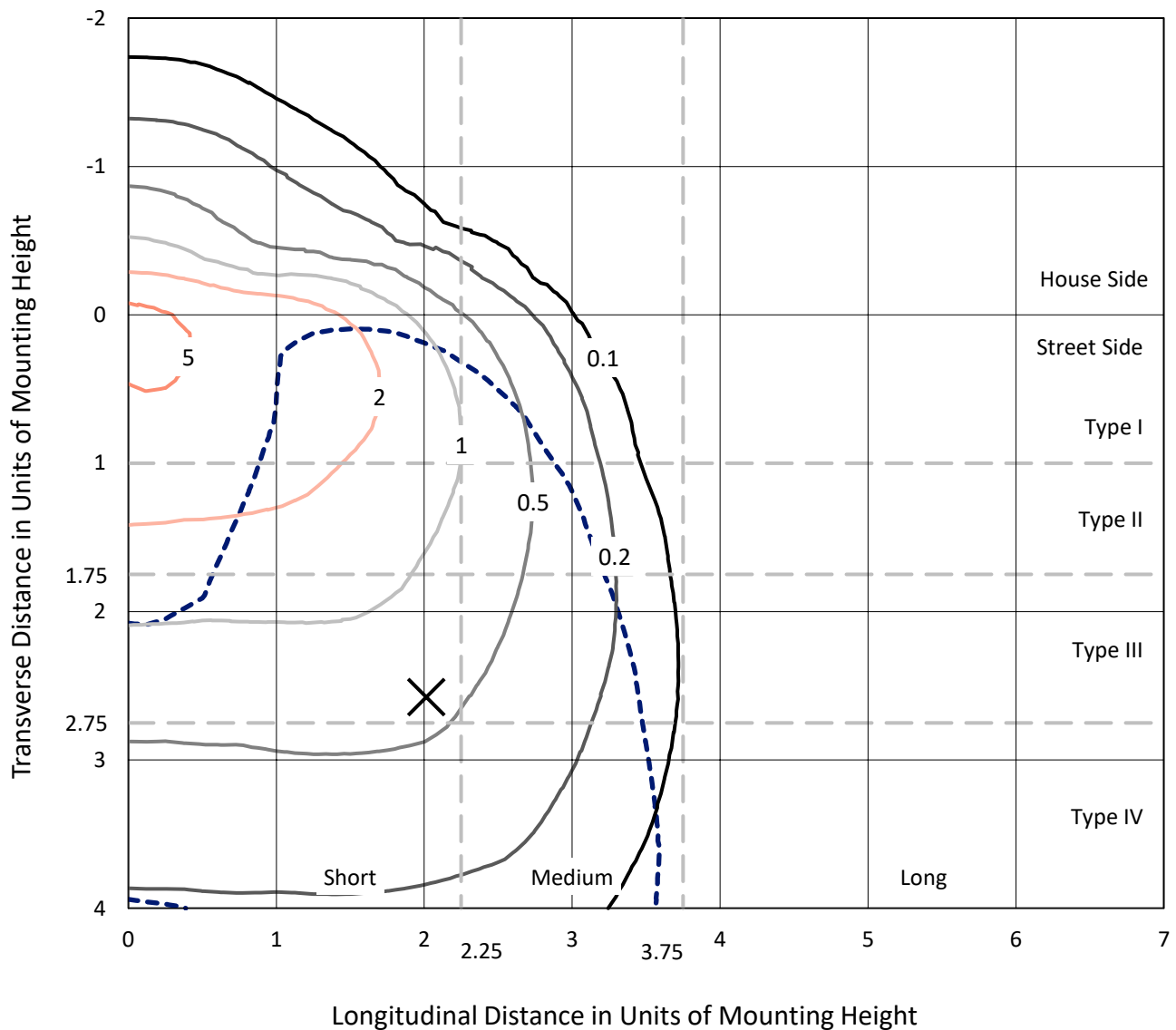


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

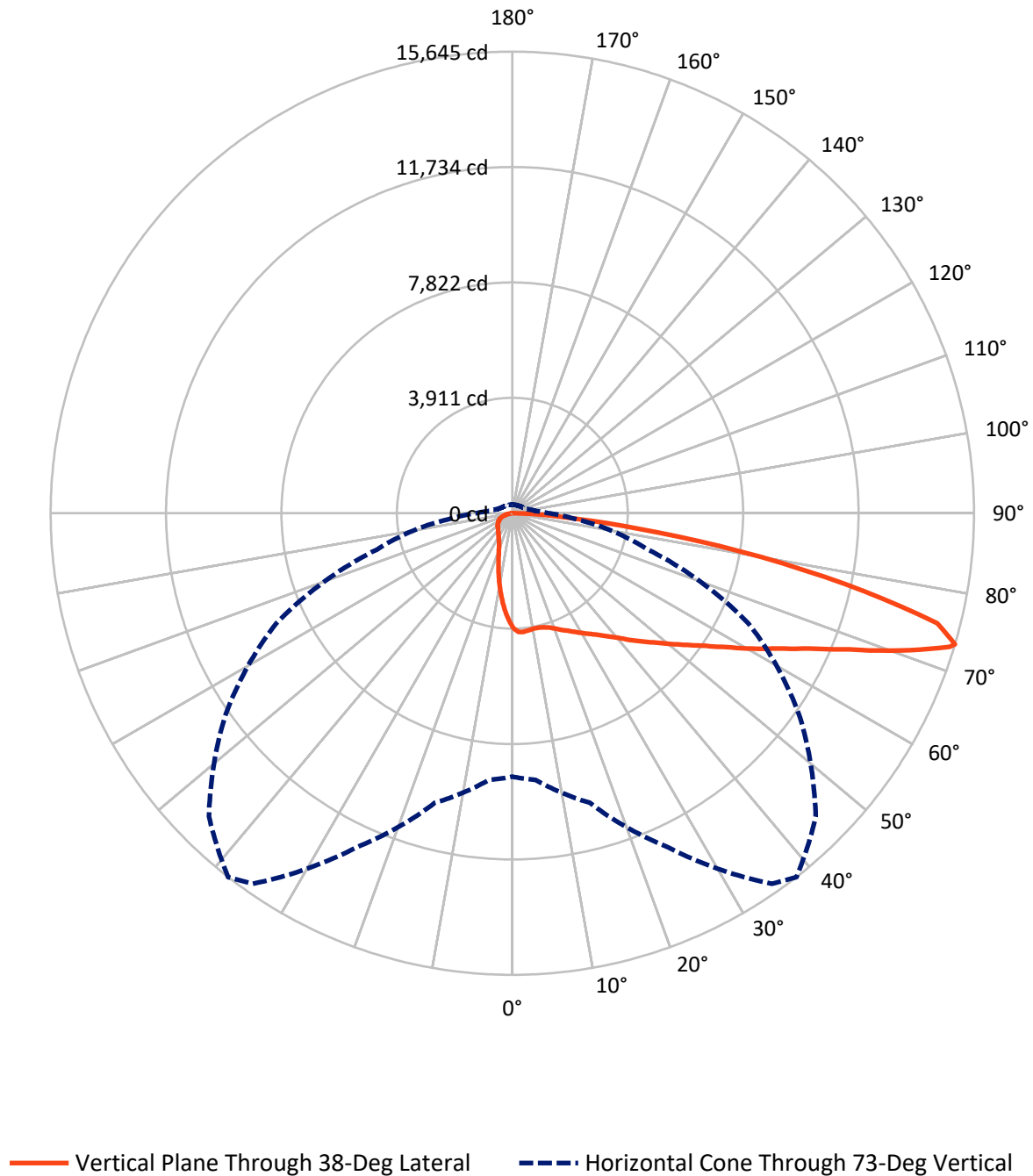


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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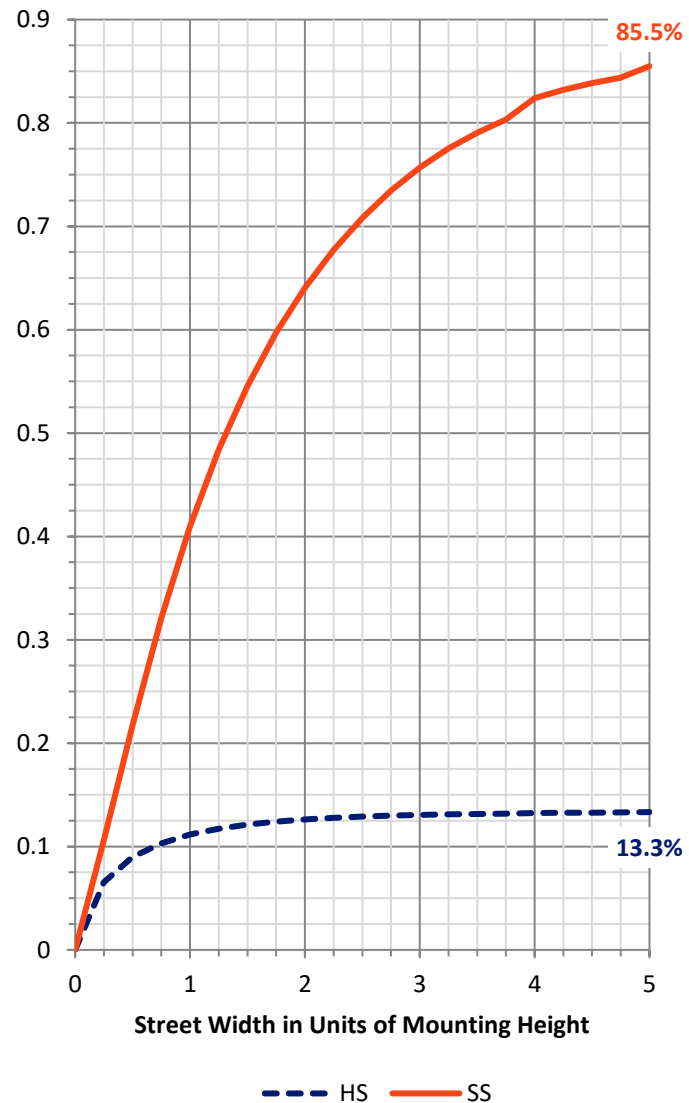
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2979.6	0.0	2979.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19185.4	0.0	19185.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	22165.0	0.0	22165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.5
10°-20°	871.6	3.9
20°-30°	1357.3	6.1
30°-40°	1990.8	9.0
40°-50°	2953.2	13.3
50°-60°	4184.1	18.9
60°-70°	5307.6	23.9
70°-80°	4418.2	19.9
80°-90°	742.3	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°	22165.0	100.0
0°-180°	22165.0	100.0

Coefficient of Utilization



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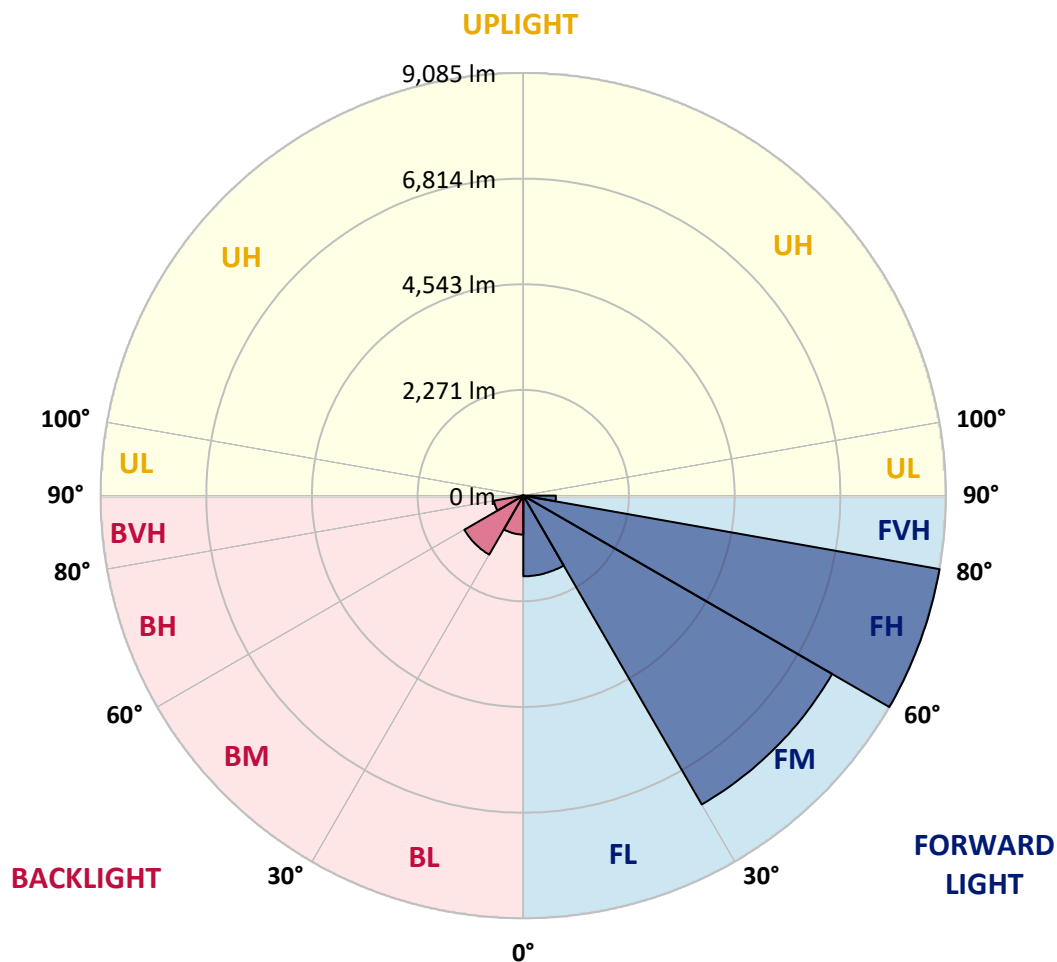
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1732.7	7.8			
FM	(30°-60°)	7665.3	34.6			
FH	(60°-80°)	9085.3	41.0			G4/12000
FVH	(80°-90°)	702.1	3.2			G4/750
BL	(0°-30°)	836.1	3.8	B2/1000		
BM	(30°-60°)	1462.8	6.6	B2/2500		
BH	(60°-80°)	640.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	40.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0
2.5°	4050.5	4070.5	4060.5	4046.7	4038.0	4029.2	4016.7	3980.4	3951.6	3920.3	3871.5
5°	4080.5	4093.0	4084.3	4066.7	4046.7	4038.0	4014.2	3966.6	3920.3	3867.7	3795.1
7.5°	4063.0	4068.0	4058.0	4036.7	4019.2	4002.9	3975.4	3922.8	3866.5	3802.6	3707.5
10°	4000.4	4019.2	4019.2	4001.7	3984.1	3975.4	3947.8	3897.8	3846.5	3773.9	3661.2
12.5°	3949.1	3969.1	3985.4	3980.4	3979.1	3979.1	3957.9	3920.3	3860.2	3791.4	3657.4
15°	3914.0	3937.8	3972.9	3992.9	4005.4	4009.2	4000.4	3967.9	3906.5	3826.4	3672.5
17.5°	3906.5	3935.3	3999.2	4043.0	4075.5	4074.3	4071.8	4026.7	3959.1	3876.5	3691.2
20°	3940.3	3977.9	4066.7	4135.6	4183.2	4174.4	4160.6	4101.8	4022.9	3930.3	3708.8
22.5°	4041.7	4080.5	4178.1	4253.3	4299.6	4299.6	4258.3	4180.7	4096.8	3992.9	3732.5
25°	4186.9	4229.5	4333.4	4409.7	4431.0	4414.7	4373.4	4279.5	4183.2	4083.0	3782.6
27.5°	4364.7	4416.0	4512.4	4576.2	4569.9	4557.4	4514.9	4394.7	4298.3	4206.9	3867.7
30°	4586.2	4623.8	4723.9	4738.9	4716.4	4713.9	4653.8	4533.6	4443.5	4373.4	3989.1
32.5°	4795.2	4829.0	4909.1	4915.4	4875.3	4880.3	4824.0	4713.9	4662.6	4637.5	4193.2
35°	5016.8	5034.3	5103.1	5095.6	5069.4	5065.6	5043.1	4937.9	4954.2	4999.3	4482.3
37.5°	5202.0	5237.1	5275.9	5282.1	5280.9	5293.4	5308.4	5258.4	5352.2	5493.7	4861.6
40°	5372.3	5402.3	5459.9	5479.9	5528.7	5553.8	5605.1	5606.3	5822.9	6055.7	5328.5
42.5°	5487.4	5538.7	5646.4	5682.7	5801.6	5876.7	5953.0	6034.4	6348.6	6647.7	5879.2
45°	5587.6	5655.1	5834.1	5946.8	6108.3	6199.6	6361.1	6531.3	6983.2	7375.0	6438.7
47.5°	5739.0	5799.1	6004.4	6203.4	6447.5	6552.6	6794.2	7048.3	7639.1	8068.4	6974.4
50°	5949.3	5985.6	6194.6	6518.8	6830.5	6965.7	7284.8	7651.6	8340.0	8753.1	7445.1
52.5°	6218.4	6233.4	6399.9	6831.7	7242.3	7410.0	7833.1	8261.2	8953.4	9347.6	7818.1
55°	6536.3	6511.3	6641.5	7163.4	7712.9	7932.0	8386.3	8878.3	9643.0	9828.3	8089.7
57.5°	6850.5	6811.7	6915.6	7566.5	8293.7	8557.8	9087.3	9514.1	10258.9	10277.6	8279.9
60°	7183.5	7154.7	7278.6	8039.6	9005.9	9318.8	9808.3	10173.8	10854.7	10590.6	8310.0
62.5°	7525.2	7478.9	7655.4	8571.6	9808.3	10092.4	10566.8	10874.7	11439.2	10707.0	8020.8
65°	7856.9	7835.6	8108.5	9203.7	10722.0	11044.9	11505.6	11714.6	11907.3	10531.7	7303.6
67.5°	8209.9	8252.4	8688.0	10047.3	11913.6	12319.2	12816.1	12619.6	12041.3	9701.9	6150.8
70°	8748.1	8775.6	9449.0	11152.6	13449.4	13938.8	14179.2	12941.2	11395.4	8126.0	4623.8
72.5°	8979.6	9101.1	10128.7	12312.9	15194.3	15493.4	14637.3	12224.0	9492.8	5520.0	2429.5
73°	8928.3	9073.5	10160.0	12489.4	15330.7	15644.9	14539.7	11854.8	8824.4	4753.9	2082.8
75°	8288.7	8467.7	9753.2	12341.7	15065.4	14877.6	12970.0	10103.7	5963.1	2161.7	948.8
77.5°	6540.1	6591.4	7727.9	9966.0	11863.5	11515.6	9706.9	6314.8	2435.8	803.6	538.2
80°	3280.7	3469.7	4355.9	5709.0	7933.2	7819.3	6127.0	2986.5	1015.1	471.9	356.7
82.5°	1578.4	1712.3	2121.6	2783.8	4383.4	4279.5	3034.1	1632.2	644.6	275.4	210.3
85°	1016.4	1116.5	1350.6	1328.0	1802.4	1721.1	1363.1	1235.4	381.8	143.9	146.4
87.5°	670.9	734.7	881.2	704.7	655.9	593.3	602.1	695.9	75.1	55.1	20.0
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°	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0	3894.0
2.5°	3851.5	3835.2	3781.4	3728.8	3678.7	3631.2	3599.9	3558.6	3531.0	3538.5	3549.8
5°	3755.1	3718.8	3623.6	3531.0	3443.4	3339.5	3255.7	3188.1	3136.7	3118.0	3114.2
7.5°	3653.7	3592.4	3455.9	3297.0	3148.0	3019.1	2870.1	2796.3	2709.9	2679.9	2669.9
10°	3592.4	3509.7	3318.2	3096.7	2872.6	2658.6	2497.1	2365.7	2246.8	2224.3	2213.0
12.5°	3574.8	3465.9	3208.1	2922.7	2624.8	2361.9	2122.9	1950.1	1835.0	1808.7	1769.9
15°	3564.8	3429.6	3105.4	2747.5	2369.5	2049.0	1797.4	1595.9	1490.8	1420.7	1421.9
17.5°	3556.1	3388.3	2990.3	2556.0	2149.2	1779.9	1502.0	1320.5	1224.2	1186.6	1182.8
20°	3543.5	3339.5	2857.6	2354.4	1897.6	1534.6	1283.0	1147.8	1082.7	1051.4	1050.2
22.5°	3538.5	3292.0	2727.4	2149.2	1674.8	1345.6	1137.8	1042.7	1001.4	980.1	980.1
25°	3551.1	3258.2	2591.0	1953.9	1477.0	1184.1	1037.7	972.6	948.8	937.5	933.8
27.5°	3589.9	3243.1	2455.8	1758.6	1295.5	1074.0	970.1	925.0	907.5	898.7	900.0
30°	3663.7	3241.9	2323.1	1565.9	1160.3	990.1	916.2	884.9	871.2	866.2	864.9
32.5°	3782.6	3269.4	2193.0	1406.9	1046.4	920.0	866.2	843.6	837.4	833.6	832.4
35°	3984.1	3347.0	2064.0	1261.7	958.8	857.4	818.6	807.3	798.6	802.3	803.6
37.5°	4255.8	3481.0	1941.4	1147.8	892.5	811.1	778.6	768.5	763.5	767.3	771.0
40°	4620.0	3673.7	1838.7	1056.4	844.9	772.3	743.5	734.7	729.7	736.0	737.2
42.5°	5021.8	3896.5	1753.6	985.1	806.1	739.8	712.2	702.2	698.4	702.2	703.5
45°	5434.8	4155.6	1709.8	933.8	773.5	716.0	687.2	675.9	667.2	664.6	668.4
47.5°	5841.6	4380.9	1708.6	902.5	747.3	694.7	663.4	650.9	639.6	633.4	632.1
50°	6173.3	4559.9	1738.6	888.7	724.7	670.9	639.6	627.1	612.1	599.6	602.1
52.5°	6423.7	4676.3	1752.4	882.4	712.2	645.9	614.6	603.3	585.8	569.5	569.5
55°	6585.2	4703.9	1718.6	876.2	702.2	619.6	585.8	575.8	558.3	542.0	542.0
57.5°	6640.2	4618.7	1597.2	861.2	692.2	597.1	557.0	548.2	534.5	518.2	515.7
60°	6512.6	4330.9	1384.4	816.1	672.2	573.3	525.7	522.0	516.9	503.2	501.9
62.5°	6020.6	3720.0	1152.8	757.3	638.4	548.2	496.9	503.2	506.9	499.4	498.2
65°	5202.0	3020.3	985.1	675.9	593.3	513.2	465.6	481.9	491.9	491.9	489.4
67.5°	4219.5	2319.4	829.9	605.8	537.0	465.6	430.6	443.1	450.6	448.1	454.4
70°	2999.1	1570.9	675.9	525.7	465.6	411.8	385.5	385.5	380.5	378.0	378.0
72.5°	1454.5	897.5	548.2	439.3	396.8	351.7	330.4	321.7	311.7	310.4	304.2
73°	1215.4	804.8	523.2	423.1	380.5	343.0	319.2	305.4	299.2	294.1	292.9
75°	739.8	610.8	436.8	356.7	324.2	295.4	274.1	261.6	255.3	251.6	250.3
77.5°	486.9	455.6	339.2	272.9	247.8	230.3	221.5	209.0	205.3	200.3	200.3
80°	363.0	348.0	242.8	192.8	177.7	162.7	160.2	157.7	147.7	141.4	138.9
82.5°	234.1	247.8	165.2	128.9	112.7	100.1	101.4	105.1	95.1	86.4	83.9
85°	166.5	179.0	100.1	58.8	47.6	41.3	46.3	41.3	42.6	33.8	27.5
87.5°	27.5	47.6	17.5	7.5	3.8	2.5	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)