

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: P454083

Luminaire Tested: **GALN-SA5A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18166 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 154
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

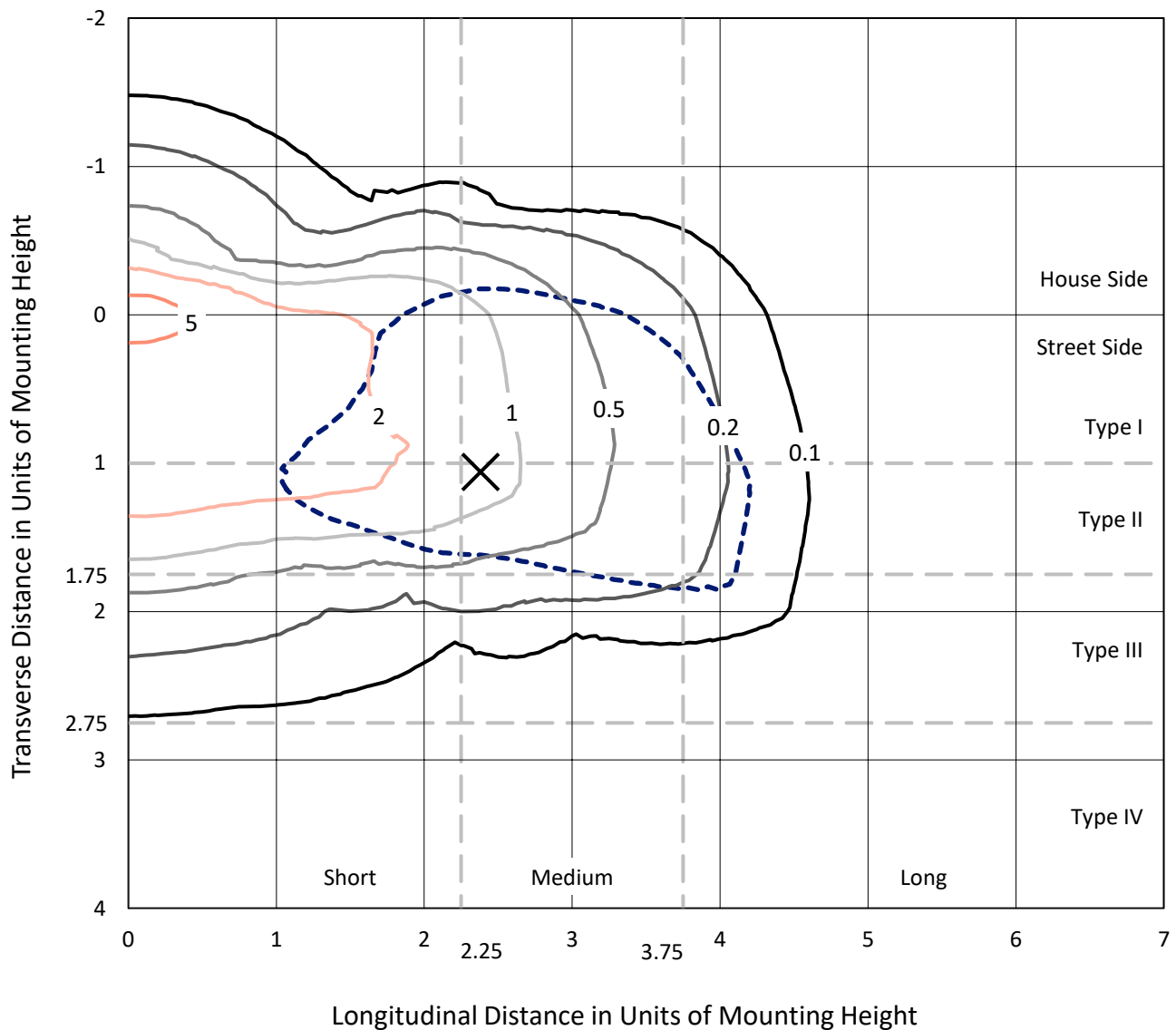


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

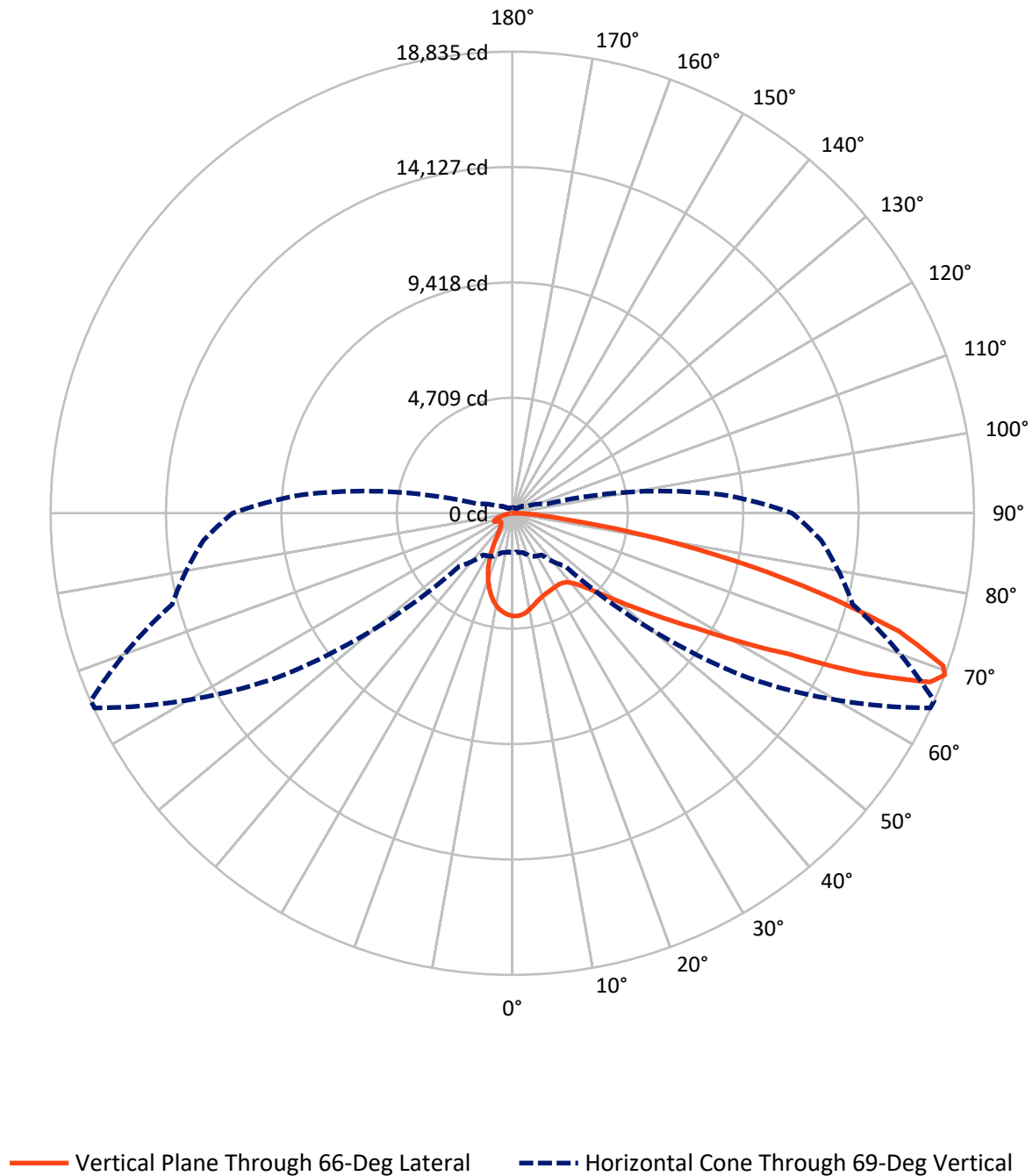


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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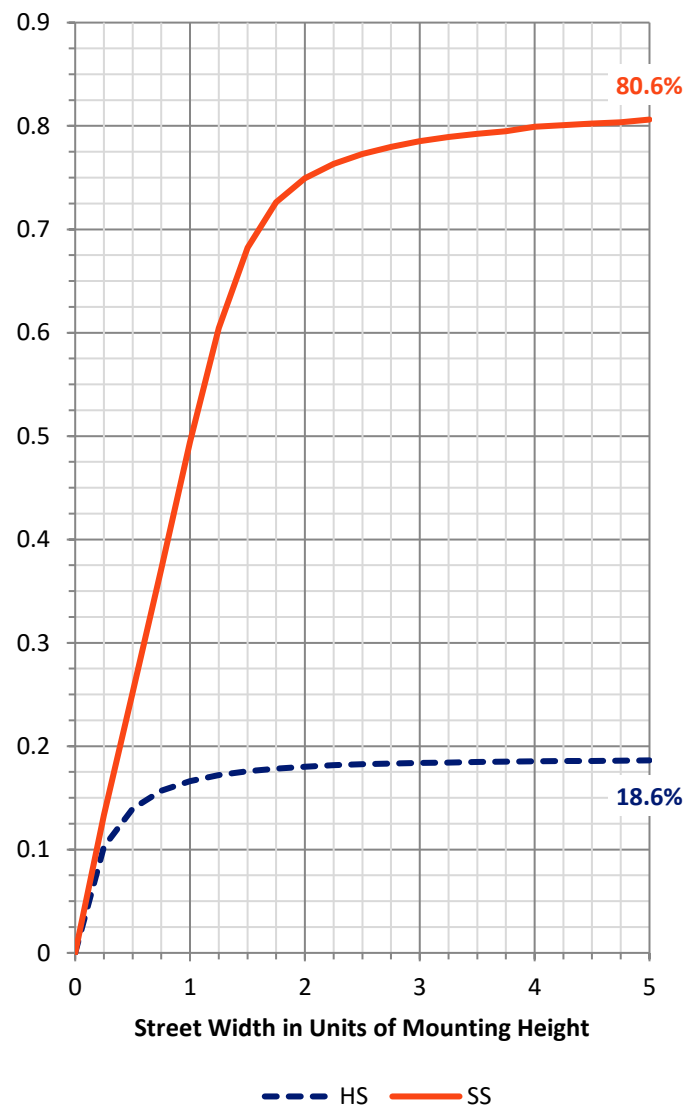
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3416.3	0.0	3416.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14749.7	0.0	14749.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	18166.0	0.0	18166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	2.0
10°-20°	864.1	4.8
20°-30°	1176.3	6.5
30°-40°	1580.7	8.7
40°-50°	2360.3	13.0
50°-60°	3754.4	20.7
60°-70°	4617.7	25.4
70°-80°	3004.5	16.5
80°-90°	443.7	2.4
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°	18166.0	100.0
0°-180°	18166.0	100.0

Coefficient of Utilization



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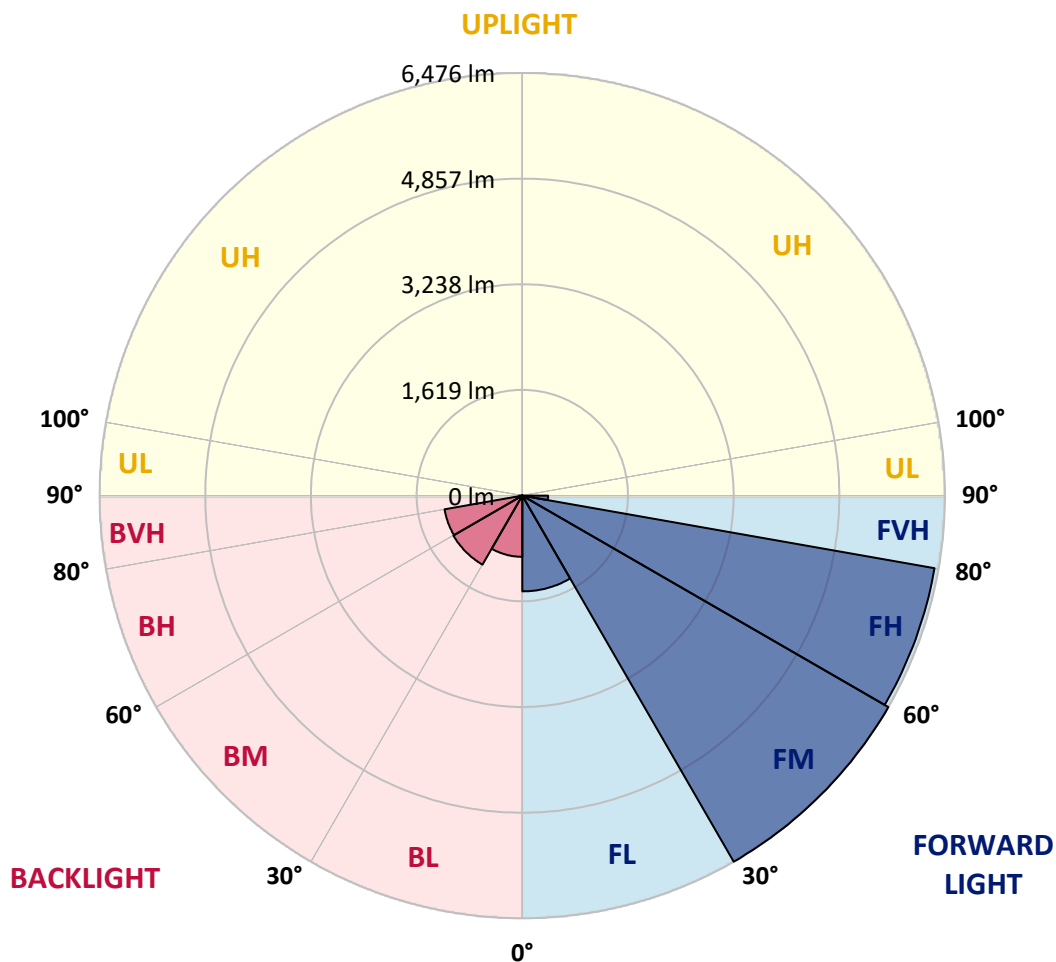
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.9	8.1			
FM	(30°-60°)	6475.6	35.6			
FH	(60°-80°)	6412.7	35.3			G3/7500
FVH	(80°-90°)	394.5	2.2			G3/500
BL	(0°-30°)	937.8	5.2	B2/1000		
BM	(30°-60°)	1219.8	6.7	B2/2500		
BH	(60°-80°)	1209.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	49.2	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0
2.5°	4048.2	4064.3	4082.4	4102.5	4140.7	4161.8	4176.9	4194.0	4196.0	4205.1	4198.1
5°	3749.4	3768.5	3795.7	3833.9	3891.2	3980.8	4073.3	4148.8	4157.8	4200.1	4212.1
7.5°	3499.9	3511.0	3533.1	3594.5	3675.9	3775.5	3910.3	4063.2	4085.4	4186.0	4221.2
10°	3296.7	3307.7	3333.9	3397.3	3477.8	3602.5	3750.4	3951.6	3969.7	4142.7	4223.2
12.5°	3144.8	3154.8	3183.0	3245.4	3337.9	3454.6	3617.6	3830.9	3857.0	4085.4	4204.1
15°	3029.1	3048.2	3071.3	3122.6	3220.2	3332.9	3490.8	3720.2	3741.3	4025.0	4191.0
17.5°	2979.8	2988.8	3004.9	3052.2	3123.6	3234.3	3393.2	3633.7	3658.8	3982.8	4188.0
20°	2981.8	2990.8	2993.9	3020.0	3071.3	3166.9	3323.8	3565.3	3595.5	3945.5	4193.0
22.5°	3050.2	3051.2	3040.1	3031.1	3051.2	3130.7	3274.5	3514.0	3549.2	3929.4	4197.0
25°	3155.8	3173.9	3157.8	3115.6	3078.4	3116.6	3255.4	3485.8	3519.0	3906.3	4192.0
27.5°	3326.9	3329.9	3316.8	3259.5	3162.9	3134.7	3247.4	3464.7	3492.8	3889.2	4166.9
30°	3556.2	3547.2	3535.1	3471.7	3319.8	3204.1	3264.5	3445.6	3474.7	3864.1	4136.7
32.5°	3788.6	3816.8	3805.7	3731.3	3534.1	3338.9	3319.8	3443.5	3467.7	3844.9	4103.5
35°	4035.1	4048.2	4100.5	4062.2	3860.0	3557.2	3423.4	3474.7	3493.8	3846.0	4080.3
37.5°	4228.2	4263.4	4386.2	4419.4	4229.2	3846.0	3591.4	3563.3	3571.3	3895.2	4089.4
40°	4461.6	4522.0	4679.9	4815.7	4691.0	4221.2	3877.1	3727.2	3737.3	4014.0	4148.8
42.5°	4757.4	4799.6	5011.9	5196.0	5175.9	4717.1	4223.2	3995.8	4000.9	4250.4	4314.7
45°	5103.5	5163.8	5402.2	5678.9	5726.2	5278.5	4723.2	4402.3	4399.3	4617.6	4624.6
47.5°	5546.1	5583.3	5819.7	6121.5	6312.7	5983.7	5329.8	4985.8	4953.6	5152.7	5095.4
50°	5953.5	6011.9	6190.9	6520.9	6996.8	6809.6	6127.6	5742.3	5666.8	5852.9	5756.4
52.5°	6124.5	6185.9	6336.8	6746.3	7583.3	7878.0	7140.6	6644.7	6518.9	6661.8	6626.5
55°	5827.8	5907.3	6048.1	6546.1	7840.8	9110.4	8506.8	7687.9	7596.3	7535.0	7545.0
57.5°	5030.0	5105.5	5295.6	5844.9	7533.0	10004.7	10457.4	9028.9	8832.7	8550.0	8598.3
60°	3828.8	3876.1	3974.7	4583.4	6620.5	10237.1	12672.6	10724.0	10599.3	9561.1	9595.3
62.5°	2719.2	2772.5	2841.0	3144.8	4846.9	9582.2	14407.0	13091.1	12645.5	10608.3	10575.1
65°	2208.2	2172.0	2254.5	2396.3	2844.0	7426.3	14797.3	16376.7	15763.1	11987.5	11526.8
67.5°	1815.8	1777.6	1859.1	2111.6	2162.9	4310.7	13390.9	18509.5	18386.7	13487.5	12493.6
69°	1607.6	1587.5	1658.9	1946.6	2076.4	3061.3	11665.6	18806.2	18835.4	14371.8	12642.4
70°	1448.6	1456.7	1526.1	1863.1	2037.2	2524.1	9970.5	18396.8	18644.3	14813.4	12481.5
72.5°	1066.4	1083.5	1180.0	1543.2	1999.9	2141.8	5933.4	16068.9	16506.5	14839.6	11418.1
75°	745.4	737.4	822.9	1161.9	1889.3	2122.7	3484.8	12427.2	12923.1	12826.5	9594.3
77.5°	487.9	501.0	569.4	820.9	1589.5	2106.6	2271.6	8816.6	9138.5	8578.2	5674.9
80°	344.1	343.0	381.3	560.3	1179.0	2024.1	1860.1	5557.2	5475.7	3371.1	1683.0
82.5°	197.2	211.3	255.5	394.4	788.7	1781.6	1711.2	2657.9	2426.5	960.7	568.4
85°	109.7	114.7	151.9	238.4	460.7	1342.0	1493.9	1209.2	1140.8	401.4	244.5
87.5°	35.2	38.2	63.4	120.7	209.2	633.8	846.0	558.3	515.1	144.9	98.6
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°	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0
2.5°	4201.1	4213.1	4181.0	4149.8	4121.6	4082.4	4047.2	4018.0	3997.9	3994.8	3984.8
5°	4215.2	4216.2	4154.8	4072.3	3991.8	3903.3	3811.7	3746.4	3685.0	3650.8	3633.7
7.5°	4225.2	4216.2	4105.5	3971.7	3816.8	3655.8	3494.9	3366.1	3266.5	3227.3	3242.3
10°	4221.2	4193.0	4031.1	3816.8	3591.4	3351.0	3119.6	2938.5	2772.5	2687.0	2689.0
12.5°	4199.1	4152.8	3920.4	3642.7	3311.8	2989.8	2635.7	2391.3	2199.1	2085.4	2050.2
15°	4179.9	4099.5	3790.6	3406.3	2994.9	2535.1	2103.6	1801.8	1640.8	1551.3	1550.3
17.5°	4159.8	4048.2	3648.8	3155.8	2630.7	2039.2	1586.5	1356.1	1280.6	1289.7	1274.6
20°	4138.7	3987.8	3500.9	2877.2	2187.1	1521.1	1188.1	1094.5	1115.7	1156.9	1162.9
22.5°	4114.6	3923.4	3341.9	2570.3	1720.3	1144.8	963.8	949.7	1004.0	1068.4	1077.4
25°	4077.3	3842.9	3141.7	2249.4	1326.9	922.5	844.0	854.1	907.4	961.7	967.8
27.5°	4025.0	3743.3	2939.5	1849.0	996.9	791.7	771.6	784.7	810.8	844.0	852.1
30°	3954.6	3630.7	2707.2	1503.0	798.8	726.3	718.3	725.3	740.4	754.5	758.5
32.5°	3884.2	3522.0	2472.8	1150.9	712.3	683.1	675.0	675.0	675.0	677.0	678.0
35°	3818.8	3419.4	2221.3	896.3	667.0	648.9	637.8	625.7	623.7	616.7	616.7
37.5°	3782.6	3325.8	1953.7	750.5	633.8	620.7	605.6	585.5	574.4	575.4	573.4
40°	3789.6	3264.5	1710.2	668.0	606.6	592.5	569.4	546.3	539.2	539.2	537.2
42.5°	3869.1	3244.4	1476.8	624.7	580.5	564.4	535.2	514.1	510.0	509.0	511.0
45°	4052.2	3293.7	1267.6	596.6	558.3	534.2	505.0	485.9	481.9	481.9	480.9
47.5°	4409.3	3453.6	1117.7	578.5	542.2	511.0	480.9	461.8	454.7	452.7	452.7
50°	4964.6	3800.7	1006.0	562.4	522.1	489.9	458.7	436.6	425.5	424.5	423.5
52.5°	5736.2	4341.9	962.7	550.3	500.0	467.8	433.6	412.5	398.4	395.4	393.3
55°	6638.6	5097.4	1022.1	541.2	476.8	442.6	407.4	385.3	372.2	366.2	365.2
57.5°	7683.9	6004.8	1247.4	529.2	455.7	415.5	381.3	359.1	345.1	338.0	336.0
60°	8622.5	6937.4	1640.8	522.1	437.6	386.3	351.1	331.0	317.9	310.9	309.8
62.5°	9653.6	7826.7	2110.6	541.2	429.6	358.1	322.9	304.8	293.8	286.7	286.7
65°	10755.2	8717.0	2421.5	605.6	441.6	336.0	292.7	277.7	267.6	262.6	261.6
67.5°	11497.6	9024.9	1994.9	672.0	471.8	311.9	263.6	251.5	245.5	240.4	240.4
69°	11417.1	8635.5	1471.8	689.1	480.9	299.8	247.5	238.4	230.4	228.4	226.4
70°	11162.6	8191.9	1233.4	678.0	473.8	288.7	237.4	226.4	219.3	217.3	216.3
72.5°	9942.3	7104.4	918.5	589.5	403.4	250.5	210.3	200.2	194.2	191.1	191.1
75°	8260.3	5806.7	717.3	468.8	315.9	211.3	180.1	172.0	167.0	165.0	164.0
77.5°	4629.6	3242.3	515.1	367.2	239.4	171.0	150.9	143.9	138.8	136.8	136.8
80°	1289.7	926.5	302.8	242.4	163.0	129.8	119.7	114.7	107.6	102.6	105.6
82.5°	485.9	401.4	173.0	145.9	103.6	86.5	83.5	79.5	76.5	69.4	69.4
85°	236.4	195.2	110.7	77.5	57.3	45.3	43.3	41.2	39.2	34.2	35.2
87.5°	81.5	86.5	48.3	28.2	17.1	11.1	9.1	5.0	5.0	5.0	5.0
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)