

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: P451528

Luminaire Tested: **GALN-SA2B-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9182 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 82
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

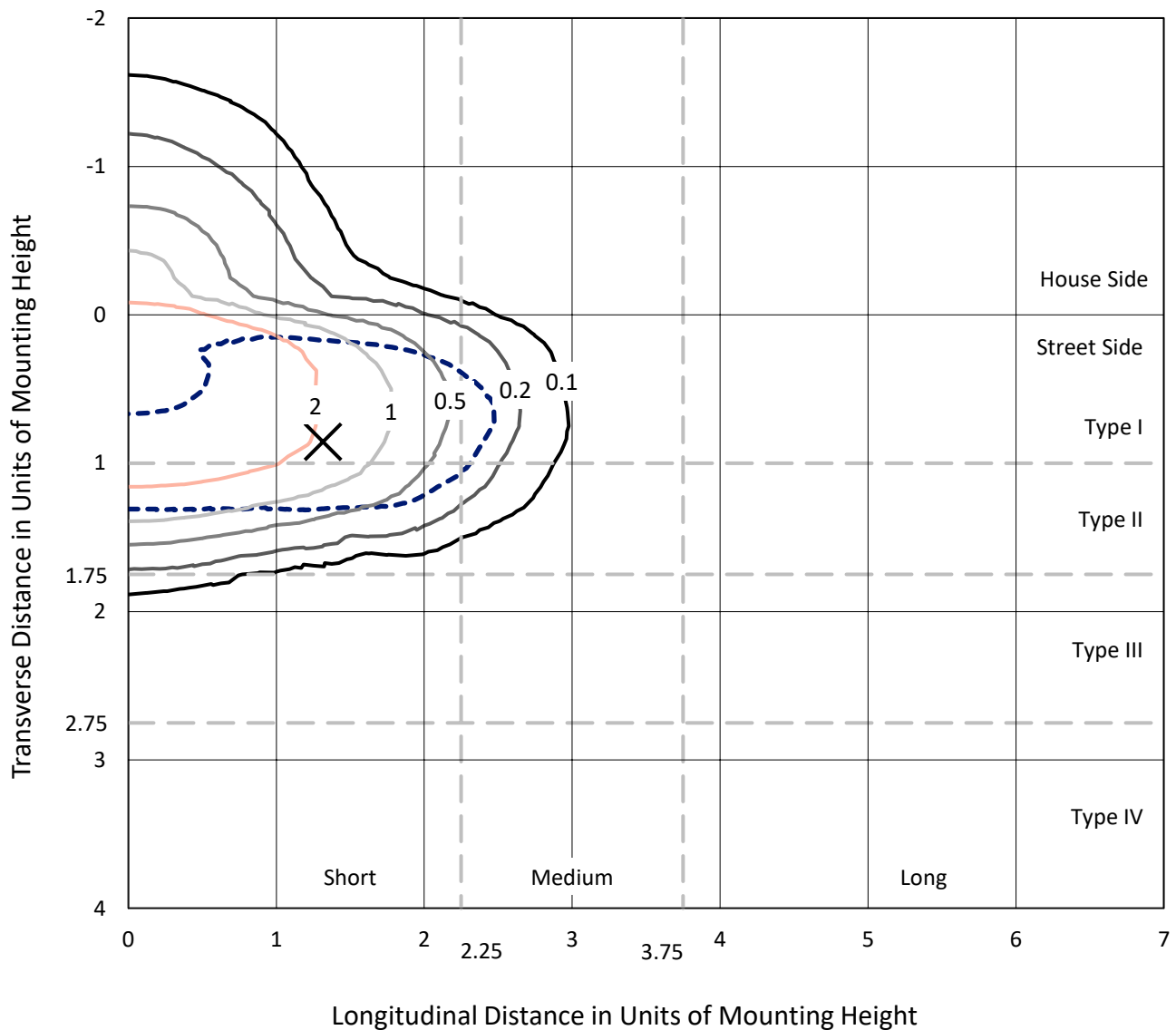


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

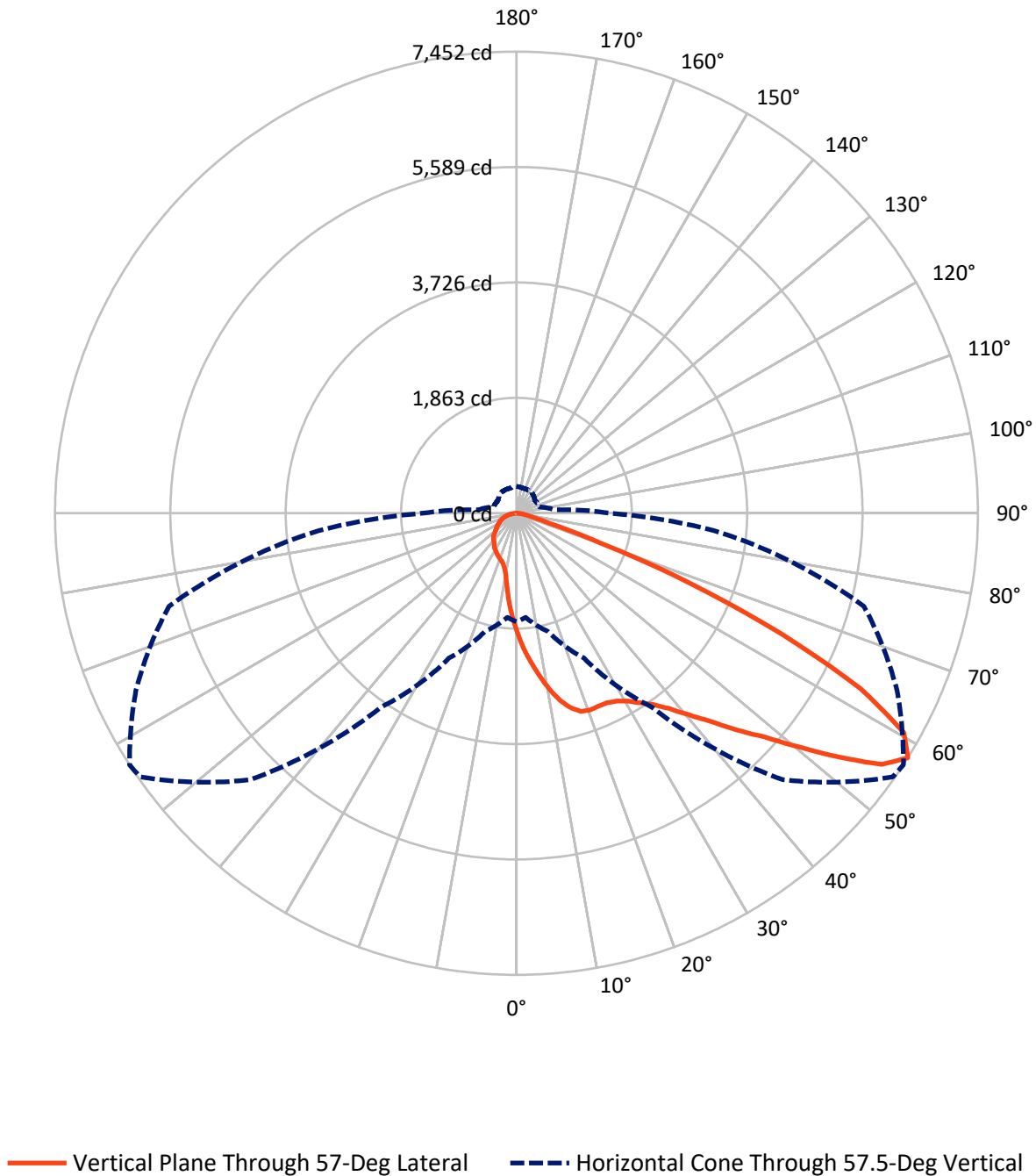


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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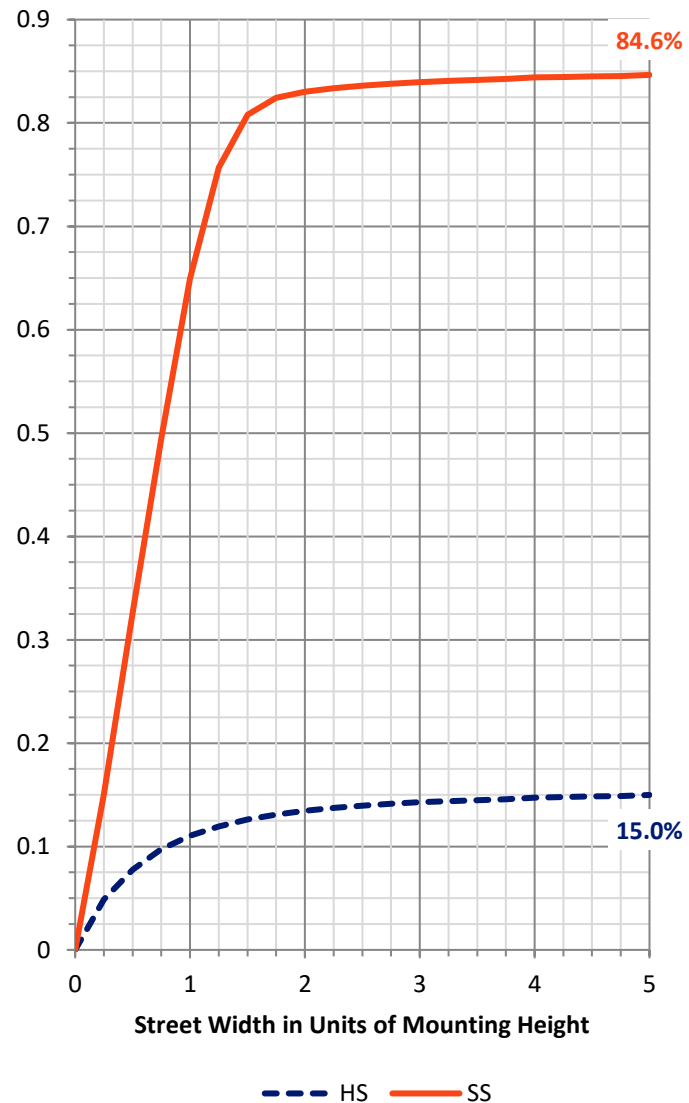
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.3	0.0	1396.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	7785.7	0.0	7785.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	9182.0	0.0	9182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	2.0
10°-20°	546.4	6.0
20°-30°	907.3	9.9
30°-40°	1366.6	14.9
40°-50°	2051.9	22.3
50°-60°	2299.9	25.0
60°-70°	1346.0	14.7
70°-80°	398.1	4.3
80°-90°	80.5	0.9
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°	9182.0	100.0
0°-180°	9182.0	100.0

Coefficient of Utilization



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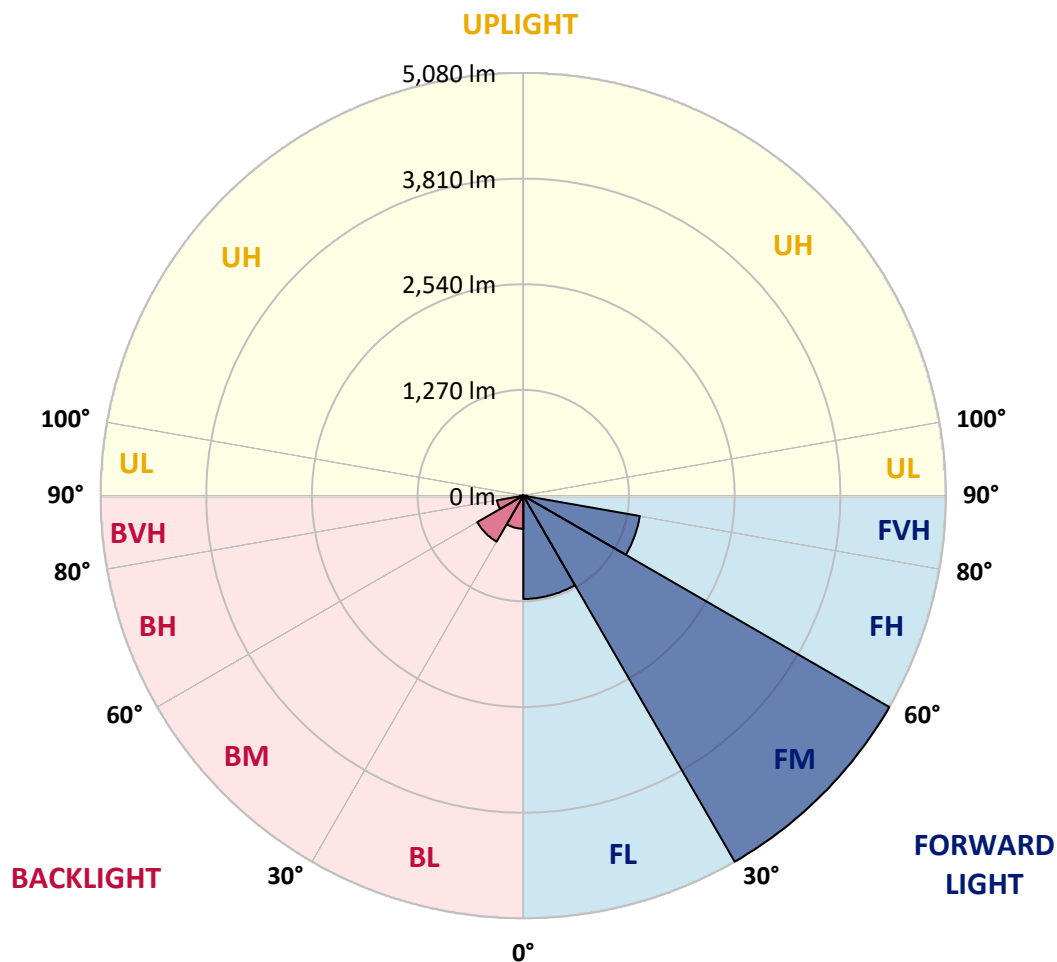
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1241.2	13.5			
FM	(30°-60°)	5079.9	55.3			
FH	(60°-80°)	1422.8	15.5			G1/1800
FVH	(80°-90°)	41.8	0.5			G1/100
BL	(0°-30°)	397.9	4.3	B1/500		
BM	(30°-60°)	638.5	7.0	B1/1000		
BH	(60°-80°)	321.3	3.5	B1/500		G1/500
BVH	(80°-90°)	38.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0
2.5°	2397.0	2370.8	2350.2	2332.1	2308.5	2244.7	2180.8	2179.8	2129.1	2050.7	1970.2
5°	2787.5	2752.3	2756.8	2700.5	2644.3	2551.8	2416.6	2409.5	2301.5	2154.7	2005.4
7.5°	3041.8	3042.3	3028.3	2996.1	2935.3	2830.2	2676.9	2642.2	2492.0	2269.3	2045.6
10°	3028.8	3042.3	3065.9	3093.6	3112.2	3060.4	2920.7	2878.5	2683.0	2408.0	2090.4
12.5°	2854.8	2876.0	2909.6	2979.0	3091.1	3176.5	3128.8	3094.6	2904.1	2546.2	2139.6
15°	2746.3	2758.8	2777.4	2824.2	2944.8	3149.4	3273.0	3254.9	3112.7	2702.6	2194.9
17.5°	2713.1	2725.7	2731.7	2760.4	2846.3	3055.9	3329.8	3362.0	3297.7	2846.3	2250.7
20°	2746.3	2752.3	2752.3	2769.4	2836.8	3001.1	3327.3	3392.1	3449.4	3018.7	2303.0
22.5°	2833.2	2835.7	2832.2	2838.3	2888.5	3016.2	3303.7	3384.1	3572.1	3165.0	2343.7
25°	2974.5	2978.5	2955.4	2941.3	2978.0	3082.5	3316.8	3390.6	3668.1	3304.7	2370.8
27.5°	3134.8	3139.8	3111.7	3079.0	3096.1	3164.5	3368.0	3434.4	3740.0	3442.4	2387.9
30°	3331.3	3333.3	3286.1	3246.9	3235.8	3286.6	3455.5	3517.3	3829.4	3604.7	2413.6
32.5°	3532.4	3547.5	3486.6	3431.3	3412.8	3428.3	3584.6	3644.5	3936.0	3779.2	2454.8
35°	3805.8	3808.3	3735.4	3668.1	3606.8	3626.9	3750.0	3793.2	4083.2	3980.7	2513.1
37.5°	4147.1	4170.2	4069.7	3944.0	3868.6	3839.5	3950.0	3997.3	4289.8	4228.0	2601.0
40°	4526.0	4534.6	4448.6	4370.2	4232.5	4148.1	4224.5	4275.7	4544.6	4523.0	2703.1
42.5°	4764.3	4782.9	4789.4	4781.4	4677.8	4536.1	4565.2	4589.4	4846.2	4800.0	2807.6
45°	4844.7	4872.3	4965.8	5163.9	5174.9	5035.2	4967.3	4990.5	5174.9	5079.4	2907.6
47.5°	4711.5	4758.8	4931.1	5337.3	5641.3	5651.9	5447.3	5396.6	5474.5	5311.1	2980.0
50°	4367.2	4377.3	4641.1	5229.2	5860.0	6241.5	6029.9	5935.4	5759.0	5482.5	3029.8
52.5°	3834.4	3846.0	4067.2	4727.1	5725.3	6653.6	6711.4	6542.5	6048.0	5615.7	3062.4
55°	2846.3	2913.2	3156.4	3794.2	5087.0	6614.9	7253.2	7157.2	6397.3	5721.3	3113.7
57.5°	1750.1	1688.8	1977.3	2581.4	3825.9	6083.1	7420.6	7451.8	6781.8	5809.7	3199.6
60°	805.2	817.3	936.4	1331.4	2332.1	4758.8	6989.4	7186.4	6994.4	5806.7	3221.3
62.5°	554.9	543.8	513.7	584.5	1063.5	3009.7	5903.7	6237.4	6568.2	5626.3	3135.3
65°	496.1	485.0	426.7	407.1	488.5	1311.8	4291.8	4713.0	5530.3	5170.9	2921.2
67.5°	463.4	448.3	388.0	349.8	348.8	522.2	2530.7	3037.8	4101.8	4371.7	2531.2
70°	429.2	417.2	357.4	315.1	297.0	328.2	1112.3	1456.1	2663.4	3150.4	1971.8
72.5°	395.1	381.0	327.2	282.0	258.3	245.8	426.2	554.4	1504.8	1888.8	1208.8
75°	345.3	338.3	292.5	255.3	229.7	198.5	270.4	308.6	719.7	867.5	606.7
77.5°	302.1	294.5	259.9	223.2	204.6	161.3	192.0	209.6	303.6	351.8	273.9
80°	221.2	228.7	219.1	197.0	182.4	126.7	129.2	143.7	180.4	199.5	167.4
82.5°	140.2	154.3	168.9	151.8	138.2	100.0	89.5	95.0	123.1	130.7	74.4
85°	58.8	59.8	98.0	92.5	78.9	59.3	53.8	56.8	65.8	68.9	34.7
87.5°	22.6	22.1	34.7	32.2	24.6	17.1	17.1	19.1	26.1	24.1	11.1
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°	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0	1929.0
2.5°	1935.6	1899.9	1829.0	1741.1	1676.7	1604.3	1540.5	1494.8	1477.7	1469.6	1454.6
5°	1934.1	1863.7	1716.9	1563.1	1439.5	1312.8	1205.8	1136.4	1130.4	1084.1	1079.6
7.5°	1934.6	1827.0	1593.3	1367.1	1178.6	1049.0	960.5	937.4	909.7	902.7	906.2
10°	1936.1	1780.3	1460.6	1173.1	990.7	905.7	872.5	863.5	864.5	867.5	868.0
12.5°	1938.1	1735.0	1322.9	1025.8	885.1	849.9	846.4	854.4	863.0	869.5	871.0
15°	1940.6	1683.3	1188.7	907.2	832.3	829.3	840.9	854.4	866.5	876.1	877.6
17.5°	1937.6	1622.9	1076.1	834.3	803.2	817.8	836.9	853.9	865.0	874.0	875.1
20°	1930.5	1555.6	967.5	783.1	785.1	808.7	829.3	845.4	857.5	862.0	865.5
22.5°	1903.4	1475.2	873.0	743.4	763.5	796.1	820.8	830.3	816.7	807.2	809.7
25°	1857.2	1370.6	785.1	711.2	743.9	778.5	803.7	780.6	769.5	765.5	767.5
27.5°	1799.4	1256.0	718.7	677.5	718.7	758.9	751.9	747.9	742.9	736.3	737.8
30°	1737.0	1143.9	662.4	651.4	691.6	714.7	717.7	724.3	718.7	708.7	712.7
32.5°	1679.2	1038.4	619.7	629.3	672.5	669.0	691.6	699.1	673.5	639.8	641.3
35°	1630.0	940.4	587.6	607.7	639.8	641.3	664.0	637.8	610.2	594.1	595.1
37.5°	1592.8	864.0	566.4	589.1	598.1	617.2	605.1	591.6	588.1	577.0	577.5
40°	1570.7	797.1	552.9	574.5	573.0	586.0	547.3	560.9	565.9	562.4	562.9
42.5°	1548.6	749.9	538.8	554.4	553.9	528.2	519.7	531.3	544.3	545.8	544.8
45°	1531.0	713.2	524.2	523.7	533.8	493.6	491.1	498.1	516.7	525.7	525.2
47.5°	1511.4	682.6	502.1	488.0	491.1	472.0	467.9	470.9	493.6	508.1	512.2
50°	1486.7	651.9	474.5	455.4	442.8	451.9	452.9	453.4	476.0	492.6	496.1
52.5°	1467.1	628.8	442.8	428.7	413.7	433.8	441.3	442.3	455.9	469.4	472.0
55°	1478.7	615.7	411.6	401.6	388.0	415.2	429.7	431.7	434.8	444.8	446.3
57.5°	1513.4	618.7	386.5	373.4	363.4	393.0	417.7	419.2	417.2	429.2	431.2
60°	1523.9	617.2	367.9	342.3	336.2	369.4	400.1	403.1	402.6	420.2	423.7
62.5°	1479.7	598.1	349.3	316.1	312.1	345.3	375.5	387.5	390.0	415.2	419.7
65°	1375.7	558.9	324.7	288.5	288.5	319.7	351.8	368.4	375.5	409.1	414.2
67.5°	1238.4	512.7	299.6	264.9	263.9	295.0	326.7	343.8	354.8	400.6	403.6
70°	1027.8	450.3	268.4	239.2	239.2	267.4	296.0	316.6	332.7	384.5	384.5
72.5°	704.2	374.4	230.7	210.1	210.6	236.7	265.9	289.0	308.1	352.3	353.3
75°	445.3	292.5	189.5	178.9	180.9	205.6	235.7	259.9	298.1	348.3	349.8
77.5°	236.7	205.6	150.8	148.3	150.8	173.4	207.1	240.2	299.1	302.1	297.0
80°	153.3	145.8	119.1	114.1	115.1	139.7	184.5	228.2	240.2	243.3	232.2
82.5°	83.4	92.5	84.4	79.4	79.4	109.1	157.3	181.4	172.4	143.2	136.7
85°	35.7	43.2	43.7	38.2	36.7	67.4	105.5	99.0	92.0	88.0	87.0
87.5°	10.1	14.1	14.1	10.6	8.0	18.6	21.1	6.0	0.0	0.5	1.0
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)