

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: P451544

Luminaire Tested: **GALN-SA2B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9267 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

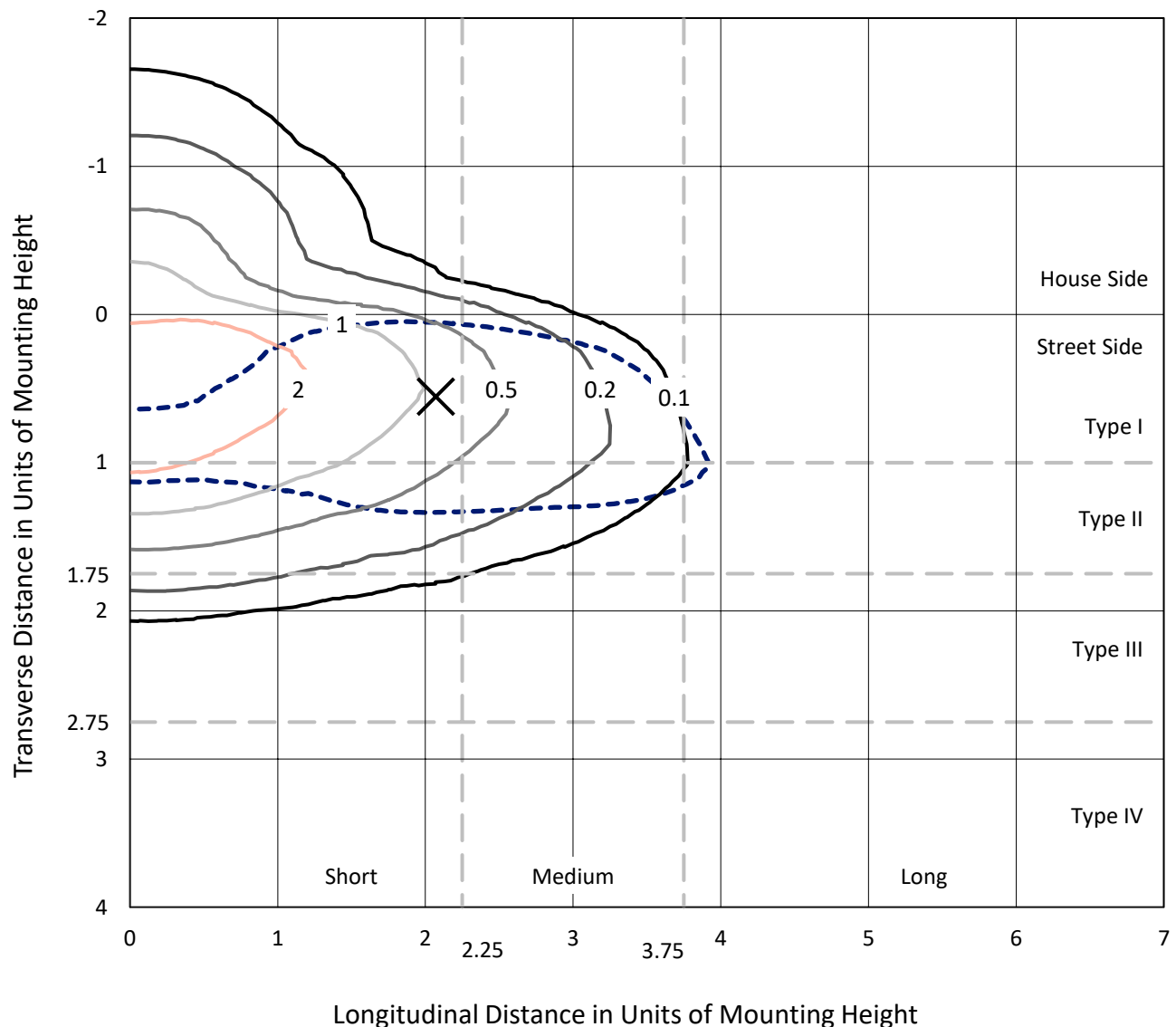


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

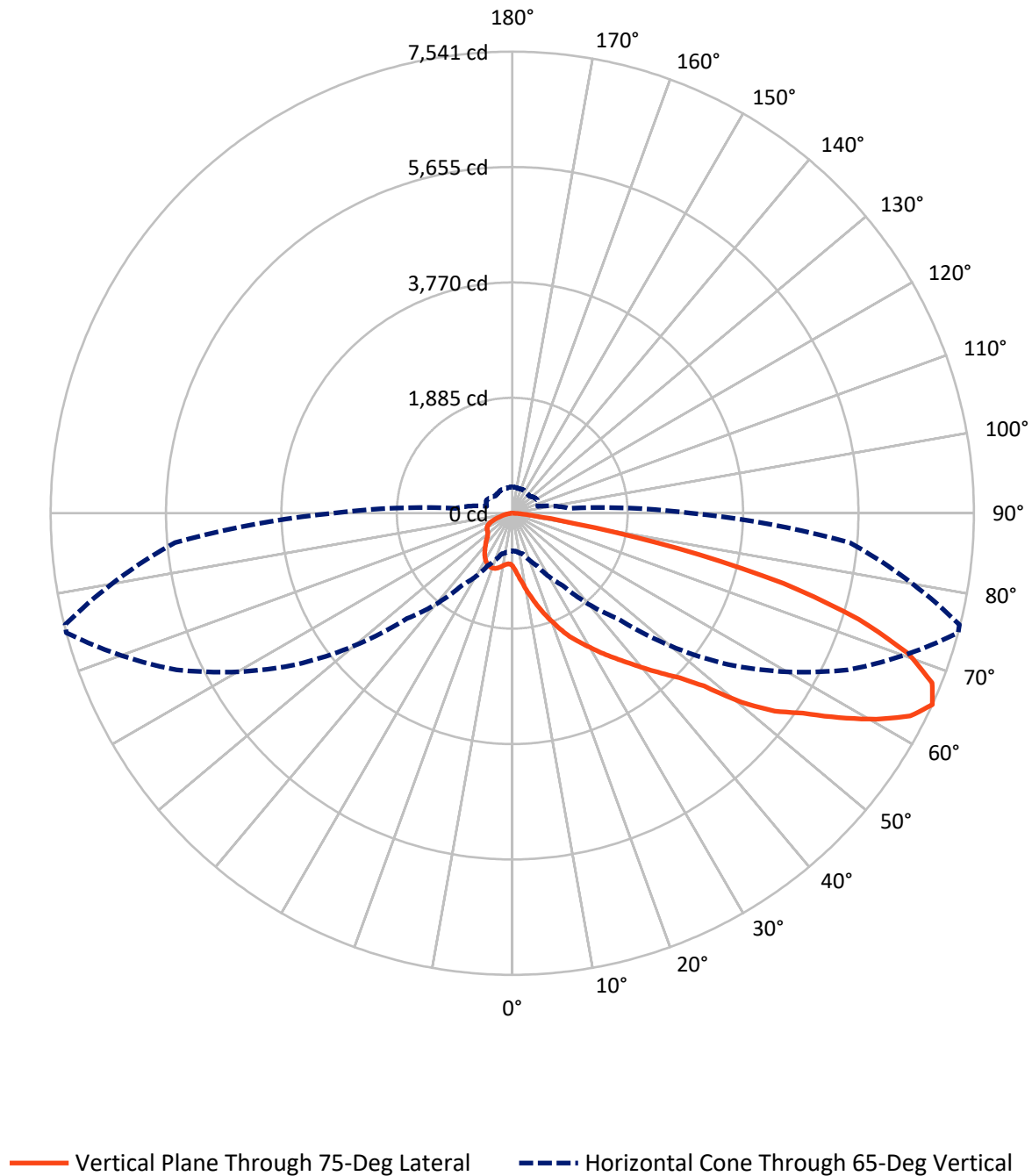


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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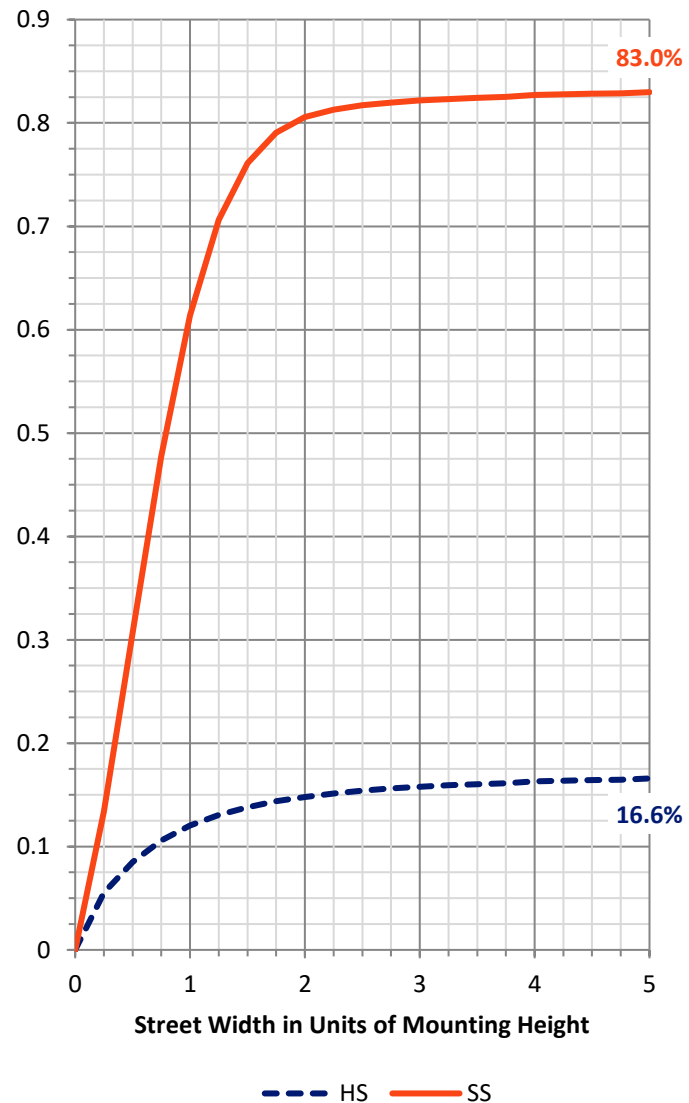
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.9	0.0	1557.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7709.1	0.0	7709.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	9267.0	0.0	9267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.1
10°-20°	409.7	4.4
20°-30°	791.5	8.5
30°-40°	1285.6	13.9
40°-50°	1768.5	19.1
50°-60°	2088.0	22.5
60°-70°	1829.4	19.7
70°-80°	873.4	9.4
80°-90°	116.2	1.3
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°	9267.0	100.0
0°-180°	9267.0	100.0

Coefficient of Utilization



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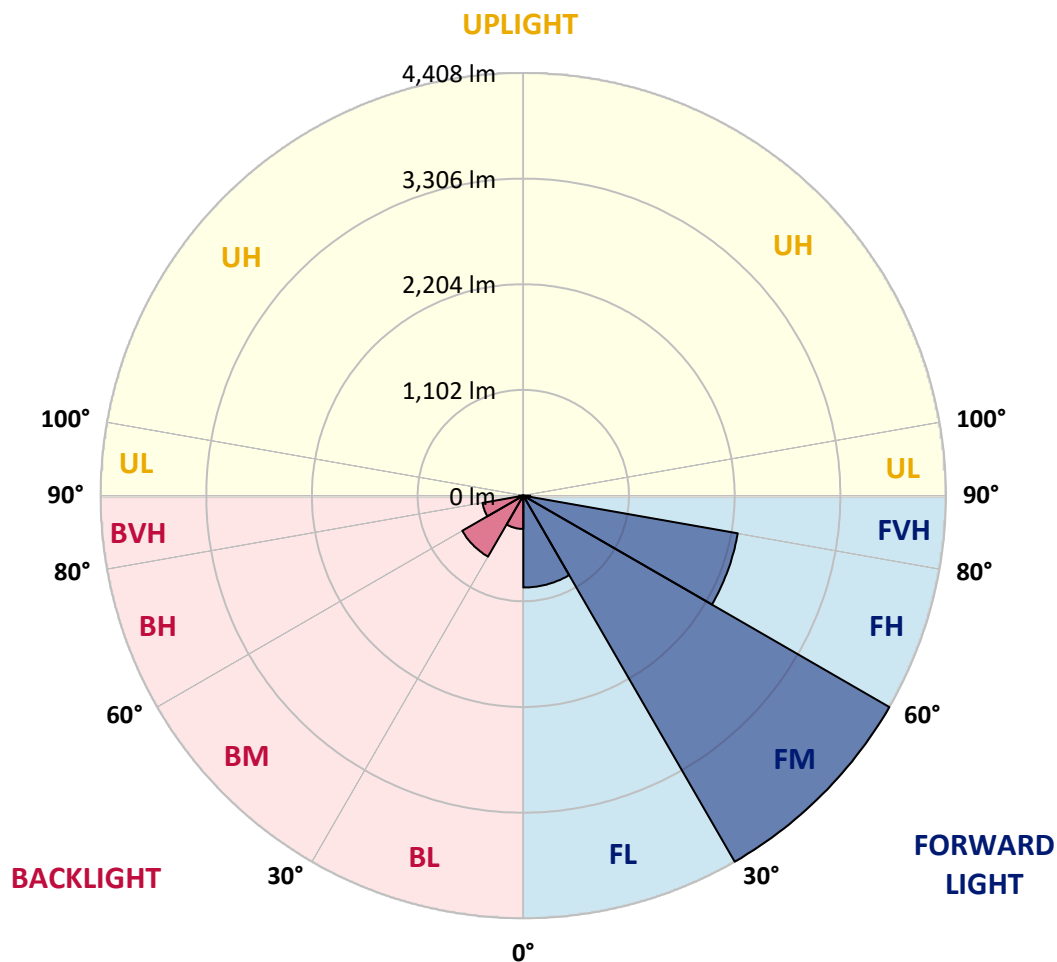
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.1	10.3			
FM	(30°-60°)	4407.6	47.6			
FH	(60°-80°)	2270.8	24.5			G2/5000
FVH	(80°-90°)	72.6	0.8			G1/100
BL	(0°-30°)	347.8	3.8	B1/500		
BM	(30°-60°)	734.5	7.9	B1/1000		
BH	(60°-80°)	432.0	4.7	B1/500		G1/500
BVH	(80°-90°)	43.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	1144.0	1136.5	1128.4	1106.3	1082.7	1056.0	1017.8	981.2	932.4	930.9	894.7
5°	1461.2	1456.1	1420.5	1399.9	1345.1	1272.2	1210.4	1114.4	1025.4	1014.8	944.5
7.5°	1752.7	1733.1	1719.5	1682.3	1628.0	1534.6	1414.9	1285.2	1136.5	1122.4	1005.8
10°	1972.4	1970.3	1963.3	1931.1	1890.4	1797.4	1664.7	1478.8	1277.2	1249.6	1080.2
12.5°	2136.7	2138.2	2137.2	2136.7	2107.6	2028.7	1884.9	1688.9	1419.5	1399.9	1166.1
15°	2244.8	2259.9	2265.9	2291.0	2293.5	2240.8	2117.1	1891.9	1579.8	1550.6	1258.6
17.5°	2316.2	2323.7	2351.8	2394.6	2429.3	2419.7	2309.6	2079.9	1743.7	1694.9	1354.6
20°	2384.5	2397.6	2419.2	2477.5	2538.8	2567.0	2489.6	2272.4	1906.0	1874.8	1460.7
22.5°	2526.8	2545.4	2552.9	2582.6	2634.8	2684.6	2649.4	2456.9	2083.9	2041.7	1573.3
25°	2767.5	2787.1	2766.0	2759.0	2776.1	2800.7	2793.2	2630.8	2251.8	2191.5	1679.8
27.5°	3081.2	3083.7	3042.5	3003.3	2961.0	2948.5	2925.4	2785.1	2397.6	2347.3	1786.9
30°	3417.9	3405.9	3337.5	3266.7	3195.3	3124.9	3058.6	2933.9	2559.9	2502.1	1891.9
32.5°	3730.6	3724.1	3648.2	3538.1	3417.4	3351.1	3216.9	3084.2	2733.9	2678.1	2000.0
35°	3964.8	3974.4	3890.9	3770.8	3639.1	3580.3	3410.9	3242.0	2913.8	2853.0	2117.6
37.5°	4131.2	4126.2	4052.3	3948.2	3832.6	3781.4	3637.6	3414.4	3107.3	3049.0	2246.3
40°	4190.5	4187.5	4132.7	4056.8	3983.4	3965.3	3874.8	3600.4	3329.0	3260.6	2401.1
42.5°	4152.8	4159.3	4123.2	4102.5	4089.0	4102.0	4110.6	3844.2	3570.8	3507.9	2569.0
45°	4037.2	4033.7	4028.7	4062.3	4138.7	4224.7	4343.8	4074.4	3833.6	3783.4	2794.2
47.5°	3830.6	3855.7	3868.3	3961.3	4128.2	4331.7	4612.2	4383.0	4215.1	4171.4	3137.5
50°	3541.6	3561.7	3636.1	3801.5	4050.3	4372.0	4874.6	4887.7	4851.5	4769.5	3510.4
52.5°	3090.2	3121.4	3274.7	3577.8	3890.4	4355.4	5033.4	5320.4	5368.2	5306.9	3877.9
55°	2585.1	2628.8	2790.7	3188.2	3670.3	4264.9	5143.0	5571.3	5761.8	5705.0	4231.7
57.5°	2090.5	2136.7	2303.1	2688.1	3286.3	4064.8	5214.9	5850.7	6297.6	6223.7	4672.0
60°	1566.7	1615.0	1757.7	2154.3	2739.4	3673.8	5166.1	6093.0	6832.9	6801.2	5112.8
62.5°	1010.8	1064.1	1188.2	1516.5	2105.6	3139.5	4905.3	6226.7	7296.3	7258.1	5434.5
65°	615.7	621.8	690.1	941.4	1441.1	2430.8	4308.6	6049.3	7540.6	7529.0	5532.6
67.5°	398.1	407.6	438.8	564.0	864.0	1688.4	3445.1	5463.7	7397.8	7393.8	5330.0
70°	336.3	339.3	353.4	380.5	502.1	1023.9	2419.2	4530.3	6855.5	6855.5	4842.9
72.5°	300.6	304.6	309.6	318.2	358.4	580.0	1443.6	3526.5	5919.1	5958.3	4122.1
75°	272.9	271.9	274.9	276.5	305.6	379.0	746.4	2608.2	4579.0	4500.6	2985.2
77.5°	233.7	235.2	233.7	240.3	269.9	288.5	379.0	1750.2	2775.1	2673.5	1498.4
80°	192.0	194.5	197.0	201.1	230.7	219.2	227.7	797.7	1026.4	1004.8	462.9
82.5°	144.3	147.8	151.8	161.3	181.5	144.8	143.8	340.8	370.4	339.3	170.4
85°	58.3	68.9	104.0	113.6	114.1	79.4	88.5	142.2	151.3	147.8	66.9
87.5°	13.6	16.1	33.7	50.8	46.7	29.7	32.7	46.2	52.8	48.8	22.6
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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	878.1	860.5	830.4	807.2	790.7	776.1	767.0	761.5	759.5	759.0	759.5
5°	907.8	876.6	828.9	798.7	782.1	772.6	767.0	766.5	767.0	767.5	766.0
7.5°	948.5	903.7	841.4	813.3	800.7	793.7	791.2	790.1	790.7	790.1	790.1
10°	1002.8	941.4	866.0	836.9	826.3	818.3	814.3	811.8	809.8	807.7	806.7
12.5°	1062.6	983.2	892.7	864.5	849.5	836.9	827.8	821.3	816.8	812.3	811.3
15°	1129.4	1027.4	922.3	883.1	861.5	842.9	827.3	816.8	808.7	802.2	801.7
17.5°	1193.3	1069.1	942.4	891.7	860.0	833.9	813.3	798.7	788.6	780.1	779.1
20°	1261.6	1108.8	951.5	886.2	844.9	813.3	786.1	768.5	757.0	747.4	745.9
22.5°	1330.5	1142.5	950.5	868.6	818.8	781.6	753.0	734.4	720.8	711.2	707.7
25°	1396.3	1169.6	937.9	840.4	782.6	743.9	714.8	697.7	685.6	674.0	674.0
27.5°	1455.6	1185.7	914.3	806.2	745.4	704.7	681.6	666.0	654.9	647.4	642.9
30°	1513.9	1193.3	882.1	763.0	706.2	671.5	652.9	643.9	633.8	625.3	624.3
32.5°	1566.2	1191.8	841.9	720.8	669.0	644.4	636.8	629.8	619.3	607.2	604.2
35°	1617.0	1181.7	794.2	674.5	637.8	628.3	630.3	620.3	601.2	586.1	583.6
37.5°	1672.3	1163.6	741.9	636.8	611.7	620.8	625.8	603.7	572.5	548.9	543.4
40°	1736.1	1143.0	687.6	599.1	591.1	613.7	613.7	573.0	530.3	515.7	511.7
42.5°	1811.0	1125.9	642.4	567.5	574.0	596.6	594.1	532.3	514.7	507.2	505.2
45°	1929.6	1119.9	595.6	539.8	559.9	576.5	555.9	518.2	508.2	502.1	500.1
47.5°	2117.1	1126.9	554.4	519.2	543.9	556.4	513.2	508.7	501.6	493.1	492.1
50°	2291.0	1120.4	525.3	507.7	529.8	532.3	495.6	497.1	493.1	483.5	481.5
52.5°	2433.3	1099.8	506.7	501.6	517.7	490.1	479.0	484.5	483.0	471.0	469.0
55°	2589.6	1087.2	497.6	501.6	509.7	453.4	463.4	471.5	469.5	460.9	460.4
57.5°	2779.1	1089.7	491.1	503.1	501.6	434.8	447.9	457.4	456.9	454.4	454.4
60°	2973.1	1090.7	481.0	502.6	492.1	420.2	431.8	445.3	446.3	447.9	447.9
62.5°	3037.5	1047.0	461.4	493.6	471.0	406.1	416.7	435.3	434.3	438.3	438.8
65°	2917.3	925.9	432.3	473.0	443.8	396.1	405.1	422.2	416.7	427.2	429.3
67.5°	2655.4	766.0	387.0	435.8	413.7	385.5	397.6	404.1	394.1	414.7	415.2
70°	2295.1	598.1	329.7	383.0	379.5	374.5	391.6	381.5	367.4	392.6	387.5
72.5°	1919.1	456.9	263.4	313.1	333.8	357.9	381.0	352.4	332.7	340.3	331.2
75°	1441.6	337.8	211.6	245.3	278.0	334.3	371.5	317.2	287.0	280.0	278.0
77.5°	734.9	220.7	158.3	183.5	208.6	302.1	358.4	275.9	237.7	226.7	221.7
80°	262.4	137.2	111.6	126.7	140.7	259.9	313.1	228.2	184.5	182.5	184.5
82.5°	121.6	88.5	74.9	82.9	83.4	173.4	238.8	170.4	140.2	213.1	179.9
85°	52.3	44.2	42.2	41.2	38.2	77.4	134.2	91.5	142.7	63.8	58.8
87.5°	15.6	17.6	15.6	11.6	8.5	8.5	13.6	5.0	3.5	2.5	2.5
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)