

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: P530995

Luminaire Tested: **GALN-SA6B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18127 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

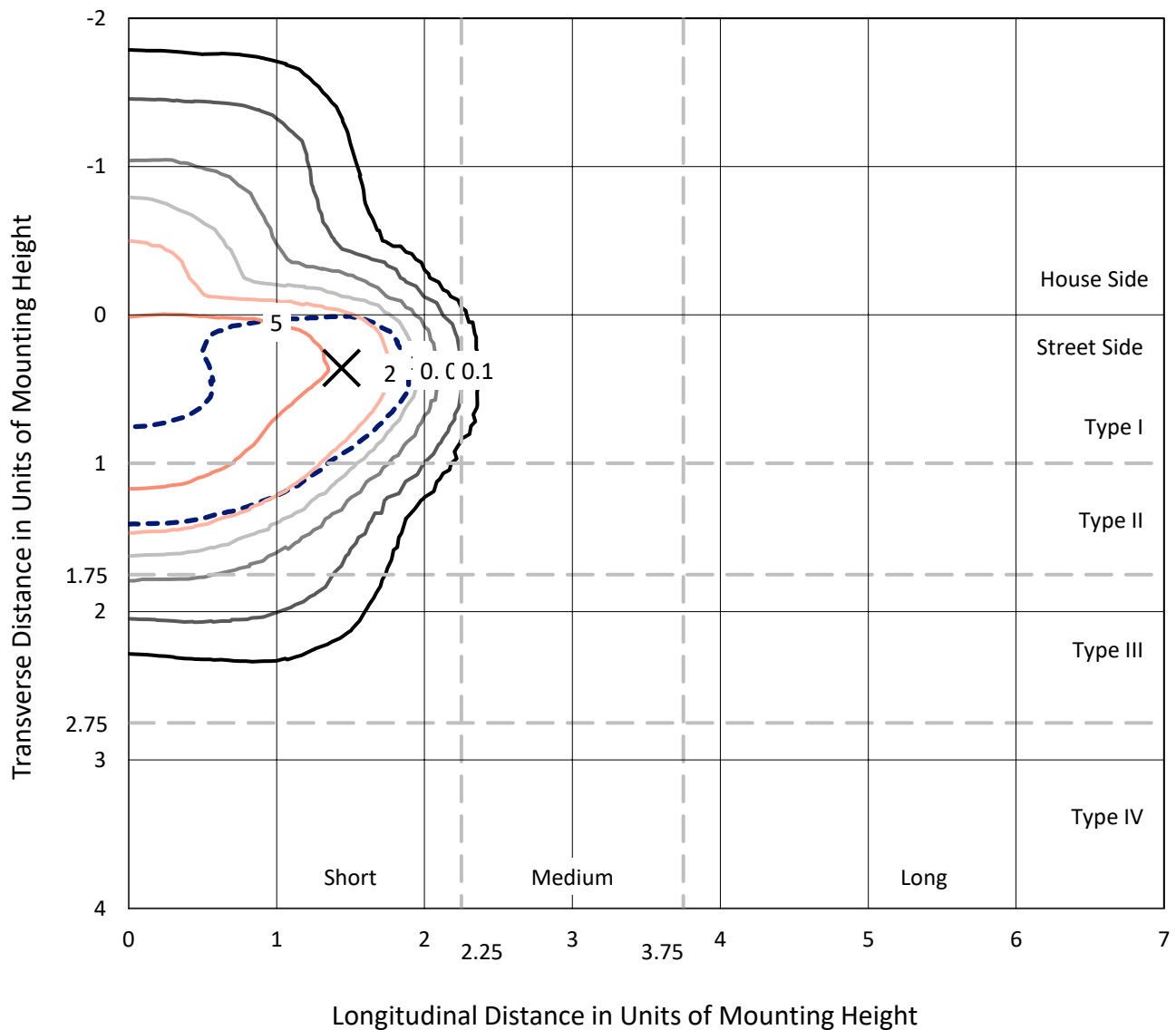
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

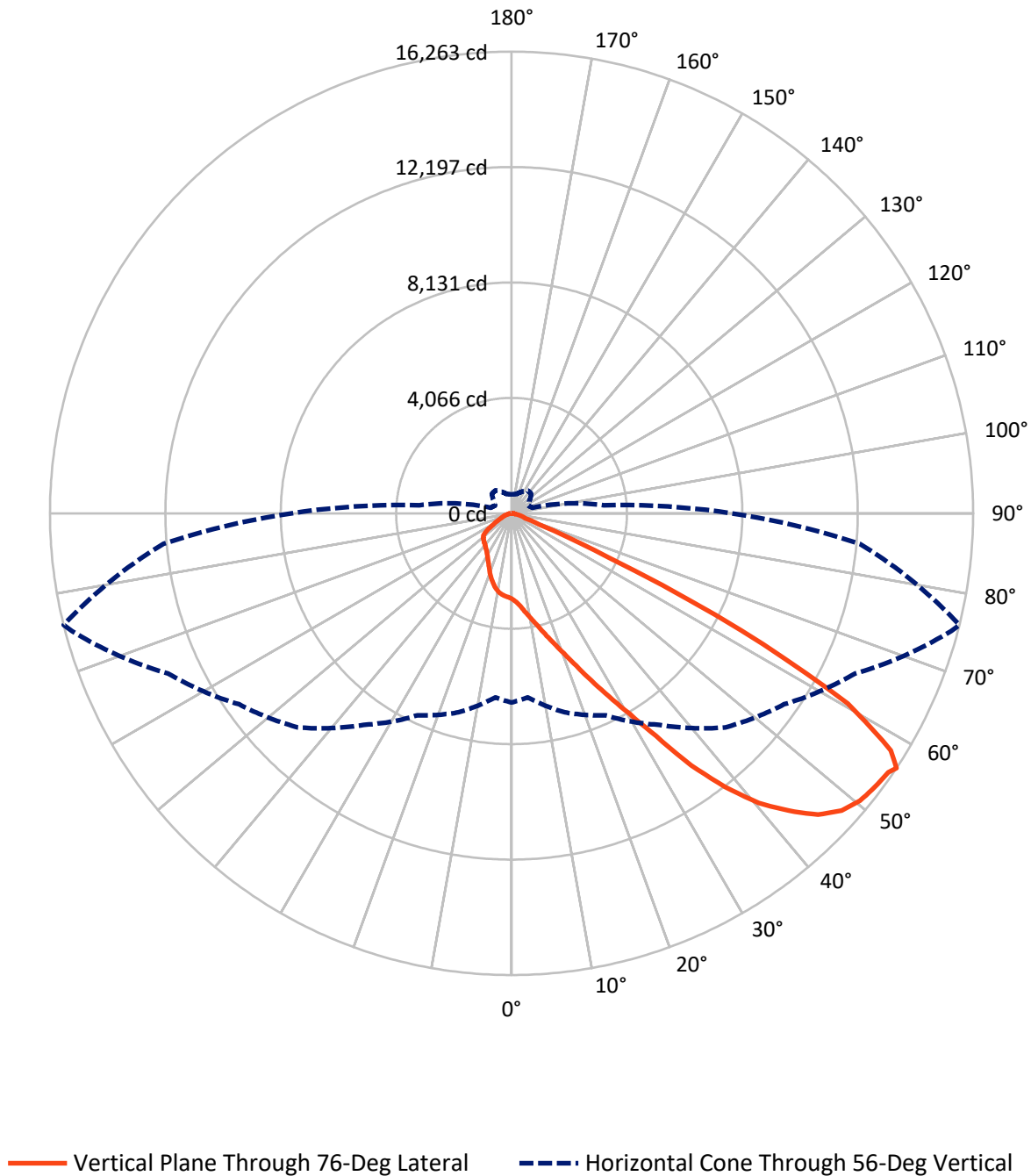
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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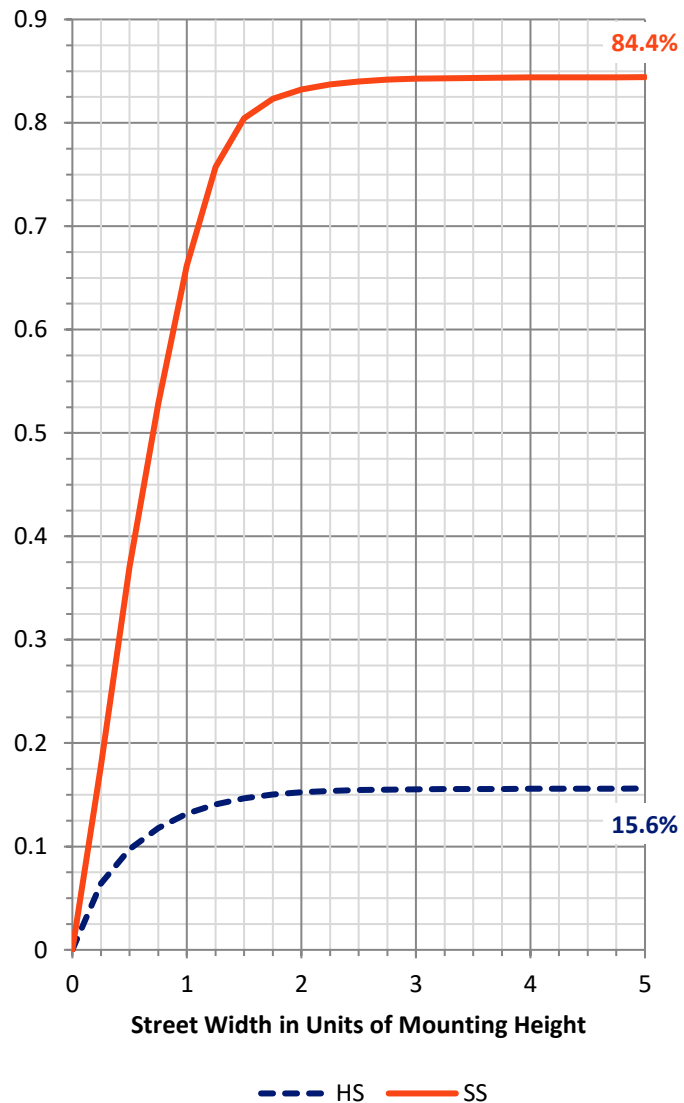
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2847.7	0.0	2847.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15279.3	0.0	15279.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	18127.0	0.0	18127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.7
10°-20°	976.5	5.4
20°-30°	1770.6	9.8
30°-40°	3053.5	16.8
40°-50°	4960.5	27.4
50°-60°	5228.5	28.8
60°-70°	1597.5	8.8
70°-80°	204.8	1.1
80°-90°	31.1	0.2
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°	18127.0	100.0
0°-180°	18127.0	100.0

Coefficient of Utilization



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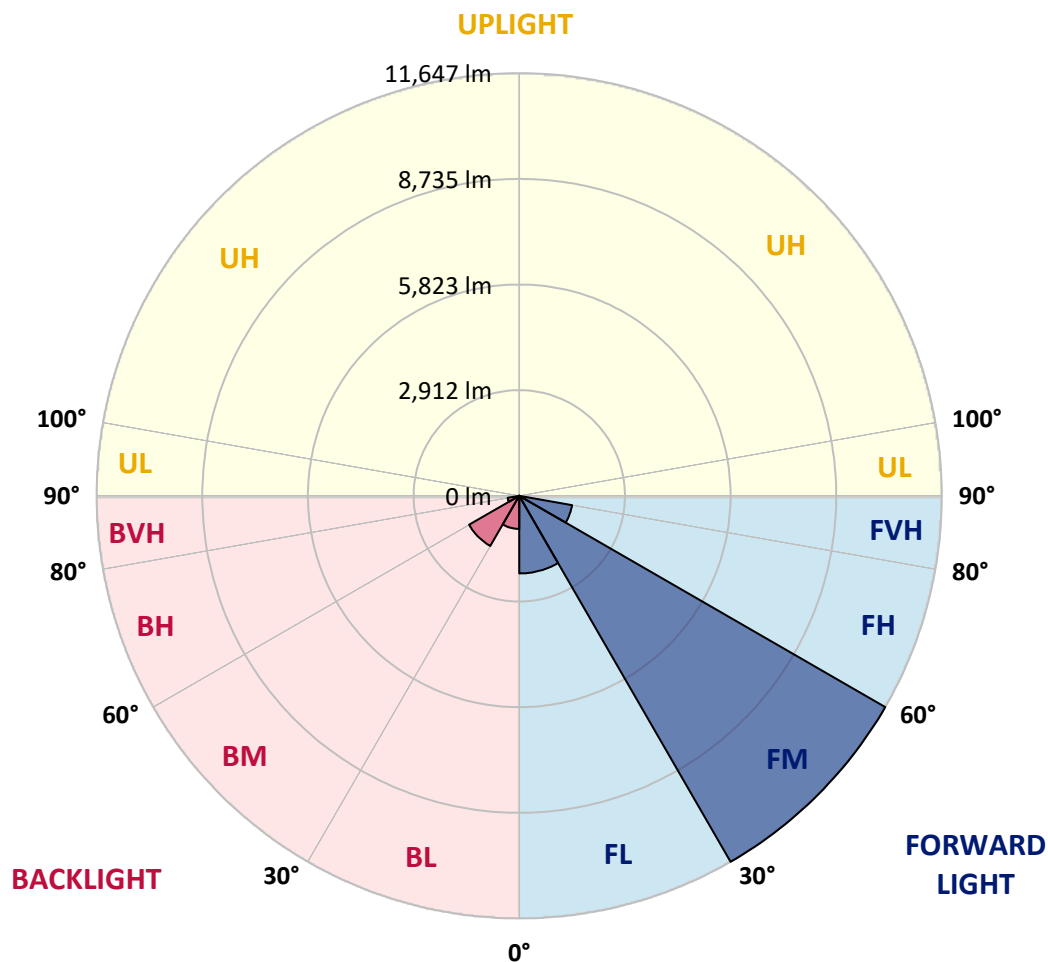
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2140.1	11.8			
FM	(30°-60°)	11646.6	64.2			
FH	(60°-80°)	1477.5	8.2			G1/1800
FVH	(80°-90°)	15.2	0.1			G1/100
BL	(0°-30°)	911.0	5.0	B2/1000		
BM	(30°-60°)	1595.9	8.8	B2/2500		
BH	(60°-80°)	324.9	1.8	B1/500		G1/500
BVH	(80°-90°)	15.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3
2.5°	3475.0	3394.8	3398.2	3391.5	3381.5	3344.7	3234.5	3217.7	3144.2	3124.2	3057.4
5°	3892.7	3822.5	3862.6	3802.5	3745.7	3712.3	3531.8	3448.3	3331.4	3287.9	3194.4
7.5°	4153.3	4119.9	4106.6	4109.9	4056.4	3972.9	3892.7	3708.9	3551.9	3518.5	3321.3
10°	4280.3	4260.3	4280.3	4270.3	4293.7	4303.7	4163.4	4053.1	3822.5	3765.7	3458.3
12.5°	4310.4	4350.5	4367.2	4410.6	4467.4	4564.3	4554.3	4403.9	4096.5	4059.8	3668.8
15°	4383.9	4417.3	4400.6	4470.8	4577.7	4741.4	4828.3	4804.9	4474.1	4407.3	3912.8
17.5°	4450.7	4390.6	4447.4	4587.7	4694.6	4945.2	5155.7	5252.6	4885.1	4808.2	4136.6
20°	4540.9	4524.2	4514.2	4584.4	4774.8	5109.0	5526.6	5703.7	5346.2	5266.0	4457.4
22.5°	4814.9	4818.3	4811.6	4708.0	4845.0	5222.6	5850.8	6288.5	5897.5	5830.7	4821.6
25°	5175.8	5132.4	5098.9	5015.4	4998.7	5326.2	6178.2	7003.5	6559.1	6512.4	5215.9
27.5°	5556.7	5556.7	5456.5	5379.6	5272.7	5583.4	6478.9	7698.5	7357.7	7294.2	5560.1
30°	5971.0	5994.4	5981.1	5817.3	5750.5	5864.1	6786.3	8587.3	8273.3	8193.1	6128.1
32.5°	6582.5	6532.4	6589.2	6452.2	6255.1	6355.3	7270.8	9382.6	9462.8	9349.2	6873.2
35°	7391.1	7361.1	7324.3	7100.4	6866.5	6946.7	7955.8	10361.6	10956.4	10899.6	7625.0
37.5°	8116.2	8099.5	8069.4	7915.7	7645.1	7742.0	8734.4	11380.7	12413.2	12226.1	8687.6
40°	8878.0	8968.3	8871.4	8734.4	8487.1	8701.0	9649.9	11985.5	13639.5	13412.3	9499.5
42.5°	9910.5	9840.4	9883.8	9633.2	9499.5	9733.4	10568.8	12590.3	14591.8	14321.2	10361.6
45°	11009.8	11013.2	10896.2	10816.0	10468.5	10722.5	11133.5	12924.5	15350.3	15139.8	11013.2
47.5°	11714.9	11711.5	11838.5	11965.5	11608.0	11357.4	11517.7	13241.9	15741.2	15644.3	11250.4
50°	11604.6	11638.0	11801.8	12276.2	12463.3	12125.9	11878.6	13148.3	15918.3	15908.3	11454.3
52.5°	10094.3	10204.6	10478.6	11163.6	12105.8	12523.5	12256.2	13322.1	16005.2	16021.9	11758.3
55°	7685.2	7745.3	8266.6	9098.6	10141.1	11571.2	12105.8	13459.1	16072.0	16102.1	12125.9
56°	6666.1	6505.7	7257.5	7848.9	9095.2	10659.0	11724.9	13352.2	16031.9	16262.5	12309.6
57.5°	5032.1	4925.2	5533.3	6271.8	7471.3	9122.0	10542.1	12847.6	15761.3	15757.9	12045.7
60°	3060.7	2953.8	3421.6	3856.0	4527.6	5616.9	7123.8	10231.3	13325.4	13606.1	9753.5
62.5°	1821.1	1887.9	2349.0	2613.0	2830.1	2943.8	3685.5	6081.3	8891.4	9091.9	6051.2
65°	1212.9	1236.3	1583.8	2018.2	2115.1	1684.1	1500.3	2462.6	3856.0	3732.3	2496.0
67.5°	748.5	801.9	1062.6	1517.0	1680.7	1229.6	711.7	918.9	1062.6	1062.6	721.7
70°	454.4	481.2	708.4	1032.5	1152.8	791.9	517.9	517.9	511.2	501.2	431.0
72.5°	217.2	233.9	360.9	531.3	541.3	417.7	401.0	437.7	427.7	424.4	357.5
75°	93.6	100.2	127.0	167.1	190.5	177.1	243.9	314.1	324.1	314.1	257.3
77.5°	30.1	33.4	46.8	60.1	63.5	76.9	103.6	130.3	150.4	140.3	127.0
80°	3.3	6.7	13.4	30.1	46.8	60.1	76.9	86.9	96.9	96.9	90.2
82.5°	3.3	3.3	13.4	26.7	43.4	56.8	73.5	83.5	96.9	100.2	93.6
85°	0.0	3.3	10.0	23.4	36.8	36.8	33.4	33.4	23.4	23.4	23.4
87.5°	0.0	0.0	3.3	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3
2.5°	3044.0	3037.3	2947.1	2890.3	2860.2	2800.1	2763.3	2736.6	2716.5	2693.2	2696.5
5°	3084.1	3060.7	2910.3	2806.8	2683.1	2616.3	2559.5	2512.7	2482.6	2476.0	2462.6
7.5°	3197.7	3074.1	2846.9	2659.7	2502.7	2435.9	2385.7	2355.7	2369.0	2339.0	2362.4
10°	3284.6	3100.8	2770.0	2499.4	2342.3	2292.2	2265.5	2288.8	2322.3	2308.9	2292.2
12.5°	3391.5	3127.5	2646.4	2345.6	2198.6	2161.9	2208.7	2252.1	2318.9	2345.6	2312.2
15°	3511.8	3157.6	2489.3	2168.6	2075.0	2105.1	2185.3	2262.1	2328.9	2362.4	2382.4
17.5°	3658.8	3147.6	2335.6	2028.2	1958.0	2044.9	2141.8	2212.0	2312.2	2362.4	2349.0
20°	3795.8	3114.2	2165.2	1887.9	1891.2	1971.4	2051.6	2165.2	2218.7	2285.5	2262.1
22.5°	3926.1	3054.0	1988.1	1791.0	1791.0	1914.6	1954.7	2028.2	2075.0	2108.4	2105.1
25°	4109.9	2940.4	1841.1	1697.4	1737.5	1817.7	1851.1	1874.5	1854.5	1881.2	1884.5
27.5°	4240.2	2823.5	1720.8	1613.9	1687.4	1747.5	1737.5	1724.2	1677.4	1640.6	1664.0
30°	4380.5	2686.5	1617.2	1557.1	1597.2	1650.6	1610.5	1570.4	1496.9	1436.8	1440.1
32.5°	4581.0	2623.0	1527.0	1490.3	1543.7	1550.4	1507.0	1446.8	1373.3	1316.5	1313.2
35°	4955.3	2582.9	1450.2	1446.8	1456.8	1460.2	1416.7	1343.2	1313.2	1266.4	1283.1
37.5°	5329.5	2562.8	1396.7	1383.3	1380.0	1383.3	1333.2	1263.0	1319.8	1316.5	1323.2
40°	5807.3	2653.1	1319.8	1303.1	1306.5	1306.5	1243.0	1222.9	1323.2	1333.2	1336.6
42.5°	6291.8	2766.7	1269.7	1216.3	1229.6	1229.6	1196.2	1172.8	1243.0	1176.2	1166.1
45°	6712.8	2933.7	1216.3	1129.4	1162.8	1179.5	1169.5	1129.4	1085.9	972.3	972.3
47.5°	6849.8	3080.8	1152.8	1045.9	1072.6	1146.1	1116.0	1032.5	955.6	862.1	855.4
50°	7090.4	3241.1	1102.7	949.0	1005.8	1096.0	1065.9	982.4	895.5	828.7	832.0
52.5°	7337.7	3424.9	1009.1	835.3	905.5	1055.9	1055.9	962.3	828.7	781.9	775.2
55°	7708.6	3418.2	842.0	685.0	808.6	995.7	1012.4	862.1	741.8	705.0	705.0
56°	7762.0	3264.5	758.5	641.5	765.2	979.0	982.4	835.3	708.4	668.3	668.3
57.5°	7361.1	2947.1	664.9	588.1	711.7	949.0	952.3	812.0	681.6	624.8	618.2
60°	5663.6	1994.8	554.7	524.6	644.9	855.4	872.1	738.4	598.1	554.7	551.3
62.5°	3197.7	1106.0	487.8	474.5	554.7	728.4	778.5	644.9	507.9	484.5	491.2
65°	1460.2	608.1	411.0	384.3	447.7	561.4	628.2	531.3	417.7	390.9	390.9
67.5°	534.6	414.3	350.8	304.1	314.1	364.2	407.6	344.2	277.3	237.2	247.3
70°	380.9	347.5	307.4	264.0	243.9	237.2	233.9	193.8	137.0	106.9	113.6
72.5°	307.4	287.4	257.3	223.9	190.5	160.4	137.0	100.2	63.5	43.4	40.1
75°	220.5	210.5	187.1	160.4	133.7	113.6	93.6	63.5	33.4	16.7	16.7
77.5°	113.6	113.6	110.3	100.2	83.5	66.8	53.5	36.8	20.0	6.7	6.7
80°	86.9	93.6	96.9	86.9	76.9	60.1	43.4	26.7	13.4	3.3	3.3
82.5°	83.5	96.9	103.6	90.2	76.9	56.8	43.4	26.7	13.4	3.3	3.3
85°	20.0	20.0	30.1	33.4	43.4	46.8	36.8	23.4	10.0	3.3	3.3
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)