

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: P455494

Luminaire Tested: **GALN-SA6C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33056 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321
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

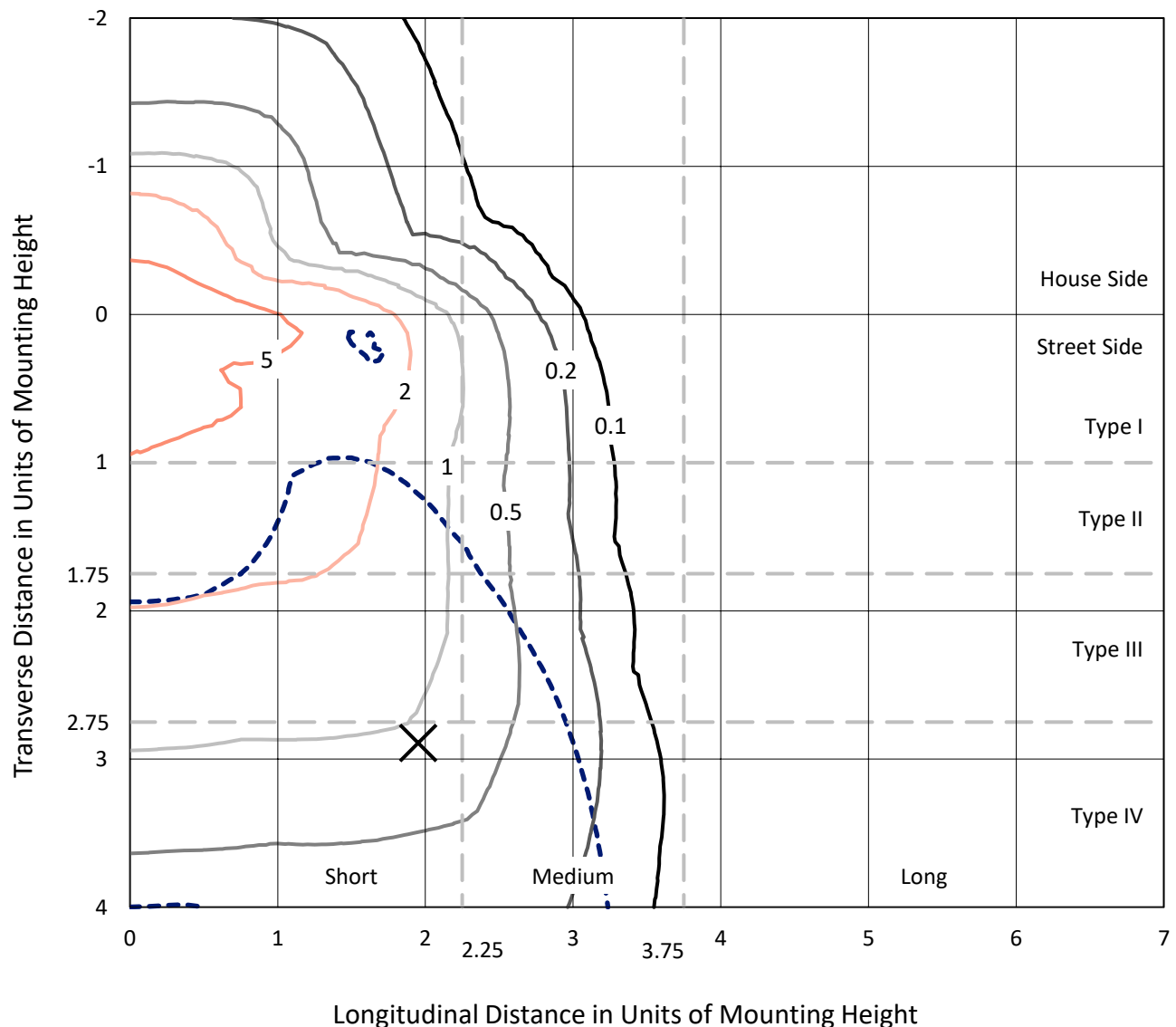


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

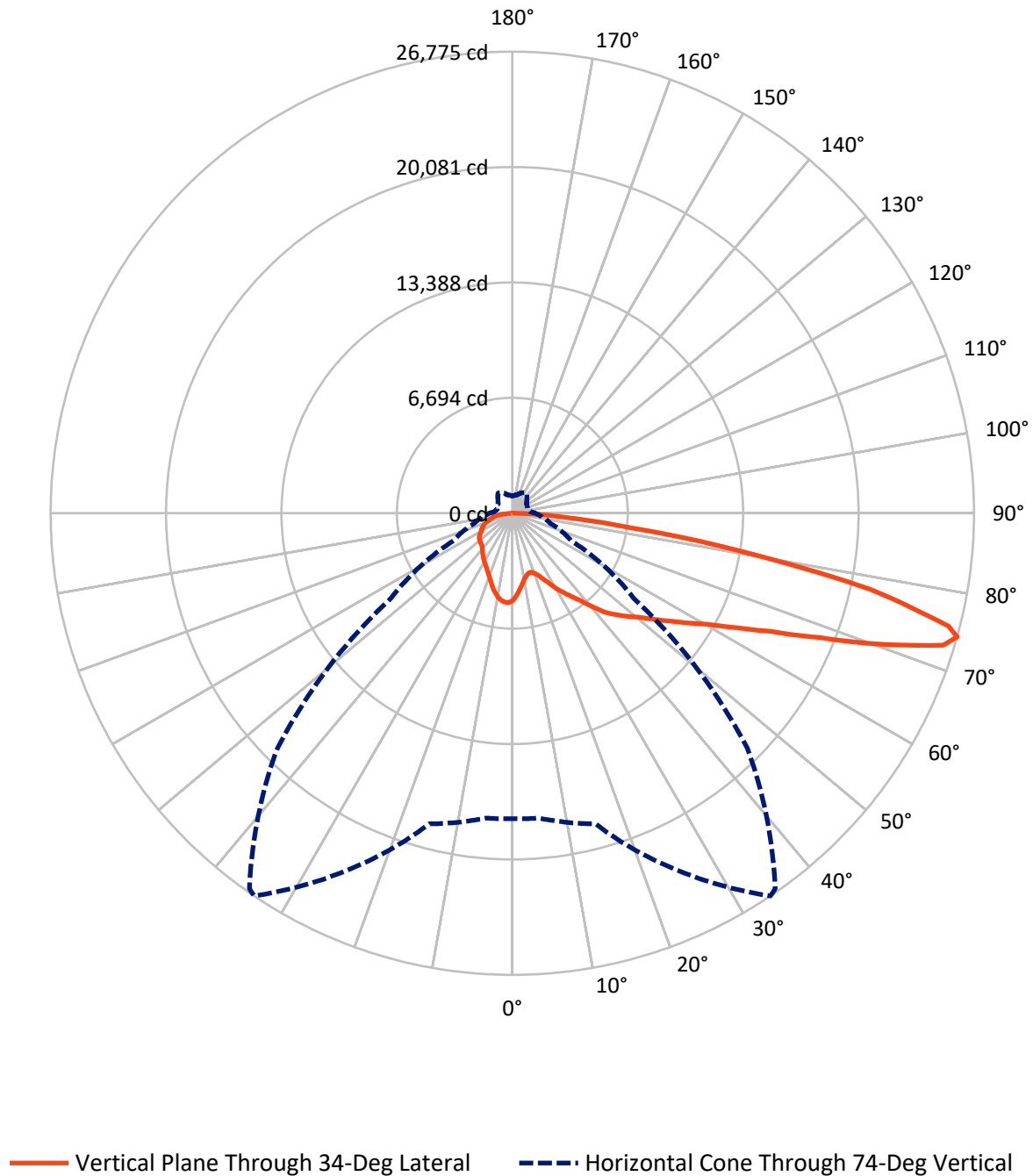


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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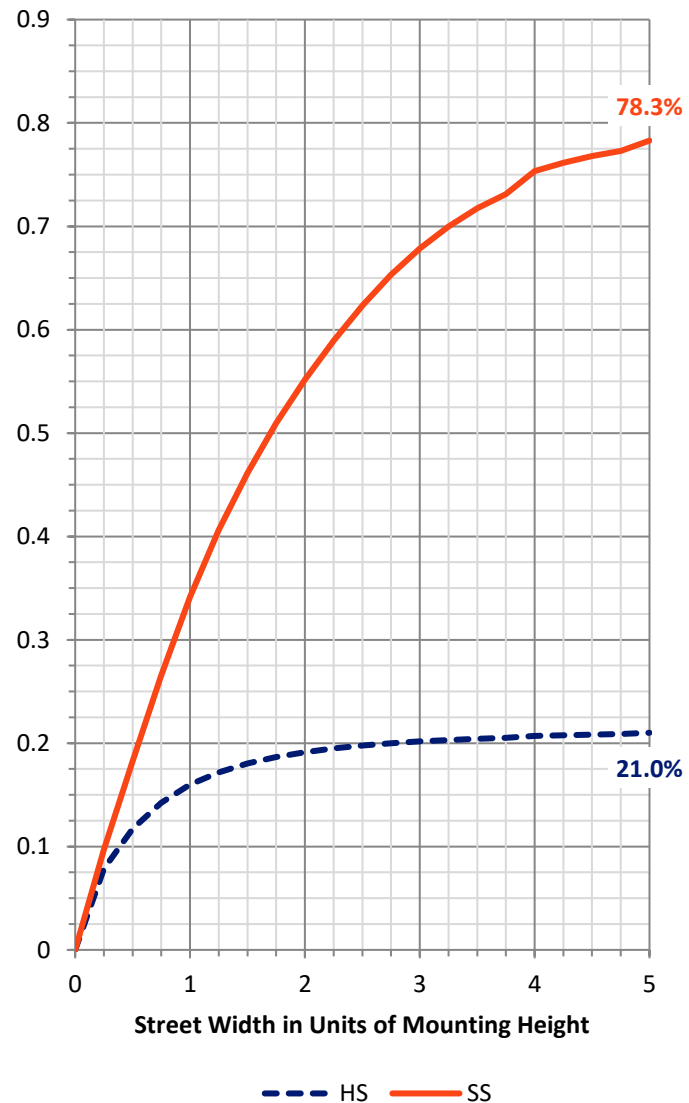
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7034.6	0.0	7034.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	26021.5	0.0	26021.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	33056.0	0.0	33056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	1.4
10°-20°	1256.5	3.8
20°-30°	2071.6	6.3
30°-40°	3103.1	9.4
40°-50°	4511.0	13.6
50°-60°	6300.9	19.1
60°-70°	7888.3	23.9
70°-80°	6523.0	19.7
80°-90°	942.5	2.9
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°	33056.0	100.0
0°-180°	33056.0	100.0

Coefficient of Utilization



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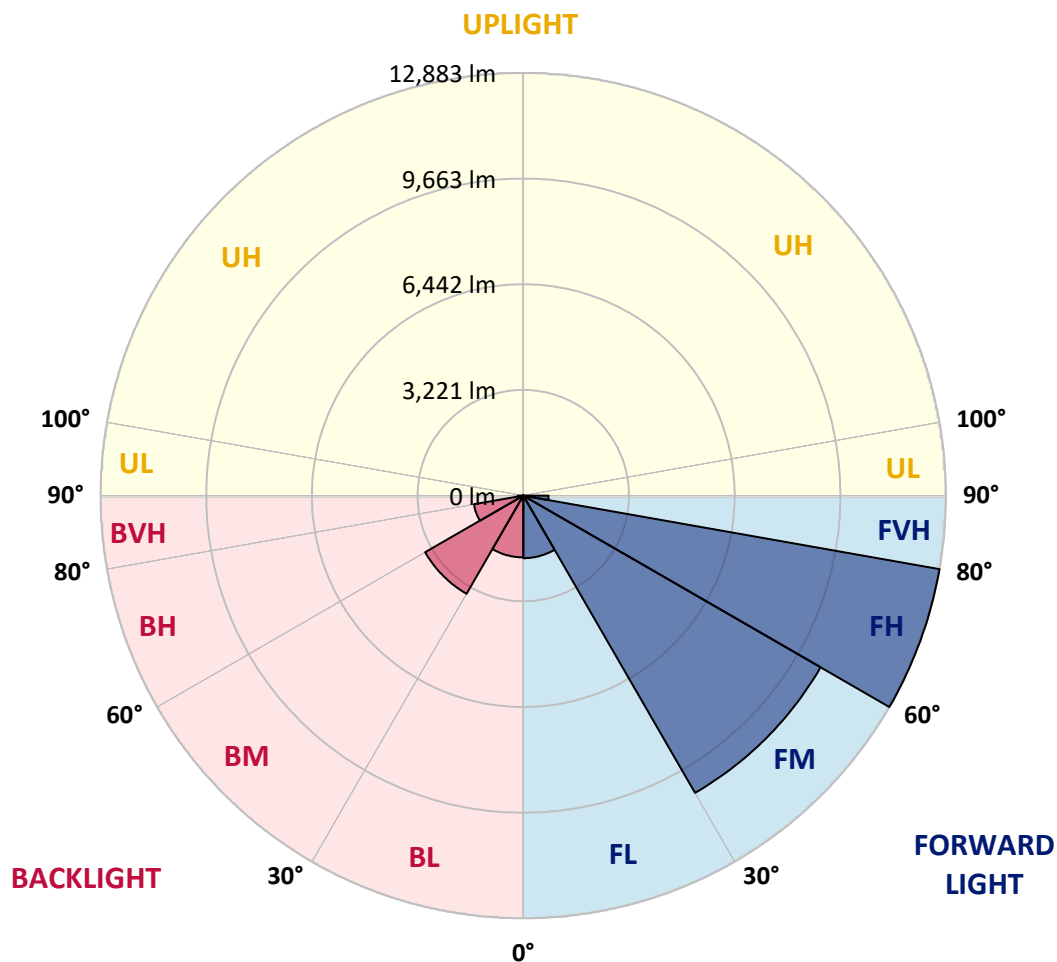
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1905.5	5.8			
FM	(30°-60°)	10460.3	31.6			
FH	(60°-80°)	12883.5	39.0			G5
FVH	(80°-90°)	772.2	2.3			G5
BL	(0°-30°)	1881.6	5.7	B3/2500		
BM	(30°-60°)	3454.7	10.5	B3/5000		
BH	(60°-80°)	1527.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	170.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0
2.5°	4664.3	4688.1	4700.9	4746.7	4757.7	4772.3	4810.8	4862.0	4928.0	4986.6	5037.8
5°	4276.0	4312.7	4334.6	4374.9	4453.7	4461.0	4563.5	4680.7	4814.4	4939.0	5041.5
7.5°	3907.9	3948.2	3966.5	4039.8	4144.2	4160.7	4310.8	4495.8	4719.2	4907.8	5065.3
10°	3631.4	3651.6	3691.9	3746.8	3871.3	3882.3	4078.3	4325.5	4614.8	4893.2	5105.6
12.5°	3481.3	3492.2	3501.4	3560.0	3682.7	3699.2	3904.3	4184.5	4532.4	4904.2	5171.5
15°	3503.2	3506.9	3466.6	3477.6	3576.5	3600.3	3803.6	4091.1	4481.1	4931.6	5270.4
17.5°	3688.2	3675.4	3576.5	3525.2	3594.8	3605.8	3783.4	4054.4	4457.3	4982.9	5373.0
20°	3979.4	3961.1	3790.7	3677.2	3717.5	3726.6	3849.3	4081.9	4481.1	5067.1	5532.3
22.5°	4342.0	4334.6	4076.4	3939.1	3937.2	3937.2	4001.3	4180.8	4552.6	5182.5	5698.9
25°	4849.2	4810.8	4473.8	4296.2	4246.7	4243.1	4235.7	4343.8	4644.1	5305.2	5896.7
27.5°	5369.3	5303.4	5003.0	4730.2	4624.0	4611.2	4563.5	4574.5	4761.3	5444.4	6122.0
30°	5836.3	5794.2	5512.1	5210.0	5083.6	5054.3	4922.5	4862.0	4957.3	5695.3	6480.9
32.5°	6193.4	6167.7	5948.0	5673.3	5486.5	5481.0	5288.7	5239.3	5263.1	5999.3	6891.1
35°	6482.7	6491.9	6380.2	6142.1	5927.8	5896.7	5768.5	5706.3	5636.7	6438.8	7407.5
37.5°	6878.3	6898.4	6891.1	6686.0	6424.1	6431.4	6402.1	6299.6	6114.6	6929.5	7980.7
40°	7314.1	7328.8	7326.9	7248.2	7110.8	7118.2	7107.2	6990.0	6713.5	7554.0	8618.0
42.5°	7916.6	7847.0	7665.7	7744.5	7825.0	7859.8	7934.9	7823.2	7444.1	8220.6	9216.8
45°	8590.5	8458.7	8048.5	8085.1	8383.6	8449.5	8863.4	8709.6	8237.1	8986.1	9921.9
47.5°	9015.4	8885.4	8539.2	8531.9	8927.5	8991.6	9724.1	9667.3	8958.6	9812.0	10782.6
50°	9394.4	9376.1	8986.1	9079.5	9465.9	9561.1	10661.7	10608.6	9678.3	10786.2	11720.2
52.5°	9956.6	9808.3	9497.0	9689.3	10200.2	10324.7	11592.0	11436.3	10339.4	11646.9	12630.3
55°	10209.4	10174.6	10156.3	10322.9	11024.3	11114.0	12496.6	12139.5	10903.4	12375.8	13322.5
57.5°	10885.1	10821.0	11002.3	11115.8	11994.9	12132.2	13441.6	12873.9	11397.9	12954.4	13659.5
60°	11760.5	11725.7	11892.3	12097.4	13079.0	13287.7	14518.4	13500.2	11795.3	13245.6	13474.5
62.5°	13068.0	13064.3	13033.2	13472.7	14615.4	14807.7	15754.5	14110.0	11857.5	13027.7	12518.6
65°	14943.2	14877.3	14606.3	15086.1	16527.3	16752.5	17041.9	14450.6	11482.1	11908.8	10540.8
67.5°	16904.5	16900.8	16681.1	17303.7	19272.4	19504.9	18651.5	14375.5	10440.1	9647.2	7486.3
70°	18530.7	18451.9	18732.1	20391.3	22779.2	23048.4	20059.8	13491.0	8315.8	6371.0	4448.2
72.5°	18920.7	18924.4	19506.8	22771.9	26147.0	26189.1	20567.1	10934.6	5565.2	3514.2	2225.0
74°	17719.4	17750.6	18653.4	22891.0	26775.1	26584.6	19270.5	8594.2	3763.3	2294.6	1604.2
75°	16173.8	15977.9	17283.6	22098.0	26123.2	25918.1	17752.4	6896.6	2871.4	1833.1	1404.6
77.5°	8647.3	8846.9	10861.3	16490.6	21222.7	20986.4	12037.0	3307.3	1551.1	1276.4	1010.9
80°	3078.4	3395.2	4772.3	8629.0	13606.4	13679.6	5744.7	1516.3	1091.4	941.3	714.2
82.5°	1256.3	1291.0	2049.2	3829.2	6909.4	6975.3	2345.9	901.0	780.1	648.3	426.7
85°	490.8	505.4	906.5	1721.4	2948.4	3140.6	811.3	476.1	479.8	371.7	217.9
87.5°	164.8	186.8	371.7	573.2	1001.7	981.6	236.2	141.0	172.1	161.2	67.8
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°	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0	5047.0
2.5°	5063.5	5098.3	5122.1	5147.7	5171.5	5178.8	5173.4	5189.8	5191.7	5193.5	5195.3
5°	5092.8	5140.4	5186.2	5211.8	5222.8	5213.6	5182.5	5166.0	5151.4	5140.4	5144.1
7.5°	5133.1	5200.8	5242.9	5253.9	5224.6	5182.5	5105.6	5045.2	5006.7	4981.1	4979.2
10°	5195.3	5261.3	5296.1	5264.9	5184.3	5081.8	4960.9	4847.4	4761.3	4735.7	4733.8
12.5°	5274.1	5349.2	5347.3	5255.8	5114.8	4931.6	4735.7	4603.8	4486.6	4428.0	4451.8
15°	5376.6	5433.4	5380.3	5215.5	4992.1	4741.2	4499.4	4320.0	4188.1	4125.9	4129.5
17.5°	5495.7	5545.1	5404.1	5144.1	4819.9	4497.6	4217.4	4047.1	3942.7	3897.0	3893.3
20°	5644.0	5658.6	5404.1	5019.5	4598.3	4213.8	3946.4	3827.4	3768.8	3745.0	3752.3
22.5°	5803.3	5774.0	5374.8	4843.7	4307.2	3917.1	3737.6	3684.5	3655.2	3651.6	3655.2
25°	5982.8	5900.4	5314.4	4605.7	4003.2	3660.7	3556.3	3565.5	3571.0	3571.0	3583.8
27.5°	6202.5	6037.7	5213.6	4305.3	3647.9	3422.7	3393.4	3457.4	3486.8	3492.2	3501.4
30°	6491.9	6187.9	5047.0	3929.9	3345.7	3208.4	3259.7	3345.7	3378.7	3398.8	3395.2
32.5°	6836.2	6352.7	4821.8	3554.5	3102.2	3058.2	3120.5	3208.4	3245.0	3256.0	3241.4
35°	7240.9	6539.5	4525.1	3202.9	2889.8	2915.4	2988.6	3016.1	3049.1	3049.1	3056.4
37.5°	7676.7	6689.7	4162.5	2880.6	2724.9	2818.3	2871.4	2845.8	2831.2	2812.8	2822.0
40°	8119.9	6801.4	3691.9	2562.0	2560.1	2717.6	2732.3	2659.0	2600.4	2582.1	2572.9
42.5°	8506.3	6870.9	3267.0	2314.7	2404.5	2618.7	2629.7	2512.5	2419.1	2364.2	2345.9
45°	8962.3	6951.5	2851.3	2109.6	2259.8	2540.0	2567.4	2410.0	2272.6	2157.2	2127.9
47.5°	9586.7	7134.7	2523.5	1950.3	2155.4	2490.5	2529.0	2325.7	2144.4	1994.3	1970.5
50°	10291.8	7385.5	2269.0	1842.3	2074.8	2446.6	2494.2	2239.7	2025.4	1858.7	1840.4
52.5°	10938.2	7521.1	2049.2	1745.2	1996.1	2366.0	2448.4	2177.4	1908.2	1723.2	1706.7
55°	11291.6	7301.3	1833.1	1650.0	1888.0	2261.6	2384.3	2091.3	1794.7	1651.8	1628.0
57.5°	11339.3	6847.1	1637.2	1547.4	1774.5	2133.4	2265.3	1986.9	1721.4	1602.4	1582.2
60°	10971.2	6169.6	1485.2	1463.2	1659.1	1988.8	2131.6	1895.4	1646.3	1547.4	1527.3
62.5°	10055.5	5433.4	1379.0	1386.3	1541.9	1836.8	2032.7	1807.5	1574.9	1487.0	1468.7
65°	8480.6	4484.8	1276.4	1307.5	1437.6	1717.7	1943.0	1734.2	1503.5	1441.2	1424.7
67.5°	5891.2	3237.7	1192.2	1225.1	1338.7	1596.9	1838.6	1655.5	1422.9	1389.9	1364.3
70°	3261.5	1992.4	1093.3	1131.7	1236.1	1461.4	1721.4	1536.4	1305.7	1291.0	1254.4
72.5°	1714.1	1269.1	981.6	1023.7	1096.9	1287.4	1541.9	1406.4	1190.3	1128.1	1080.5
74°	1338.7	1040.2	906.5	950.4	999.9	1184.8	1435.7	1313.0	1107.9	1034.7	998.0
75°	1166.5	926.6	842.4	899.2	943.1	1115.2	1353.3	1247.1	1062.1	992.6	959.6
77.5°	824.1	694.1	688.6	756.3	780.1	977.9	1219.6	1135.4	946.8	873.5	842.4
80°	578.7	520.1	545.7	587.8	620.8	864.4	1131.7	981.6	776.5	690.4	679.4
82.5°	377.2	340.6	390.1	428.5	439.5	637.3	913.8	745.3	565.9	459.7	426.7
85°	174.0	170.3	223.4	217.9	216.1	311.3	542.1	435.8	326.0	243.6	228.9
87.5°	44.0	42.1	54.9	45.8	54.9	47.6	49.4	12.8	1.8	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)