

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: P455262

Luminaire Tested: **GALN-SA6B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455262
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-SA6B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 26754 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

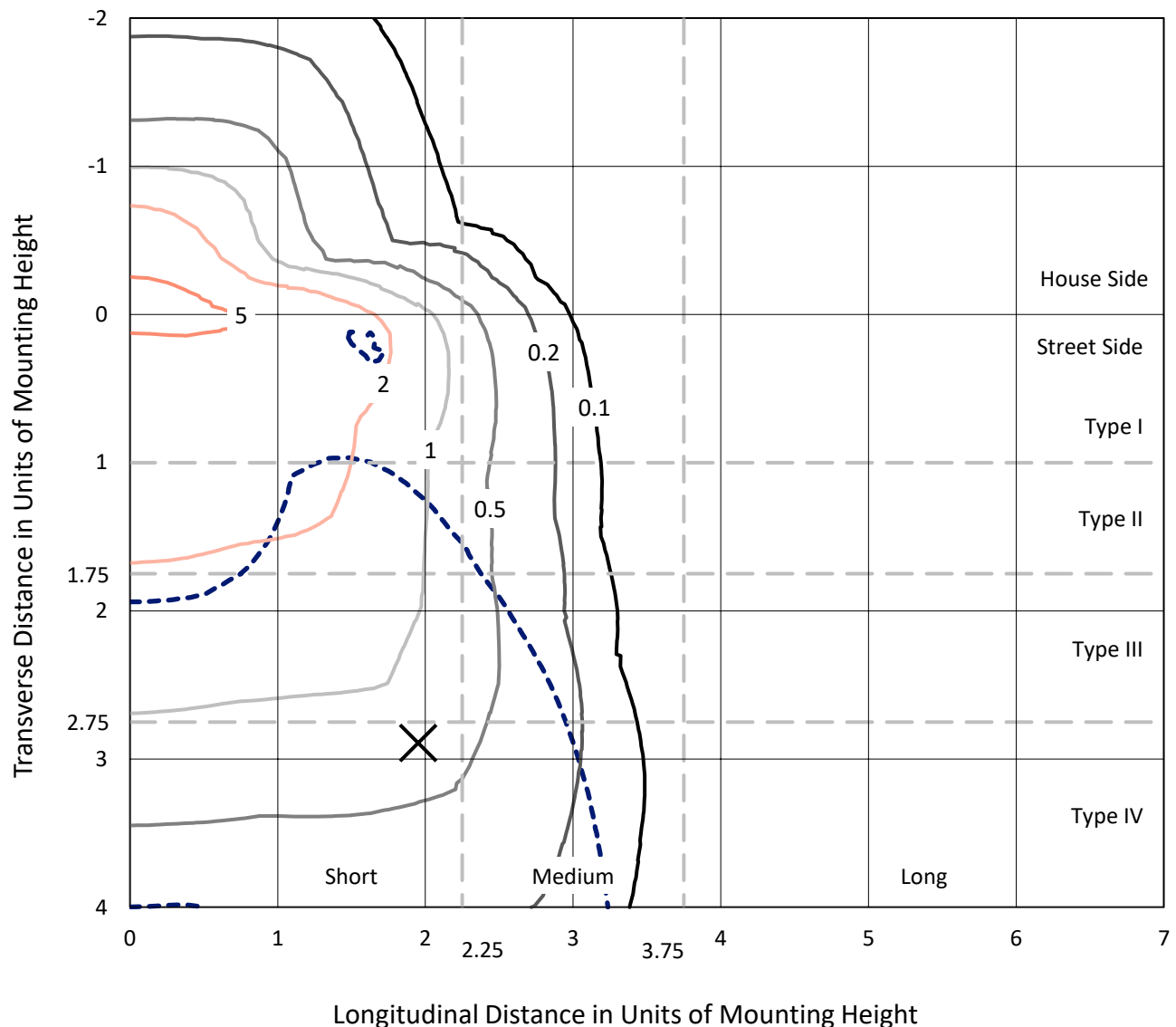


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

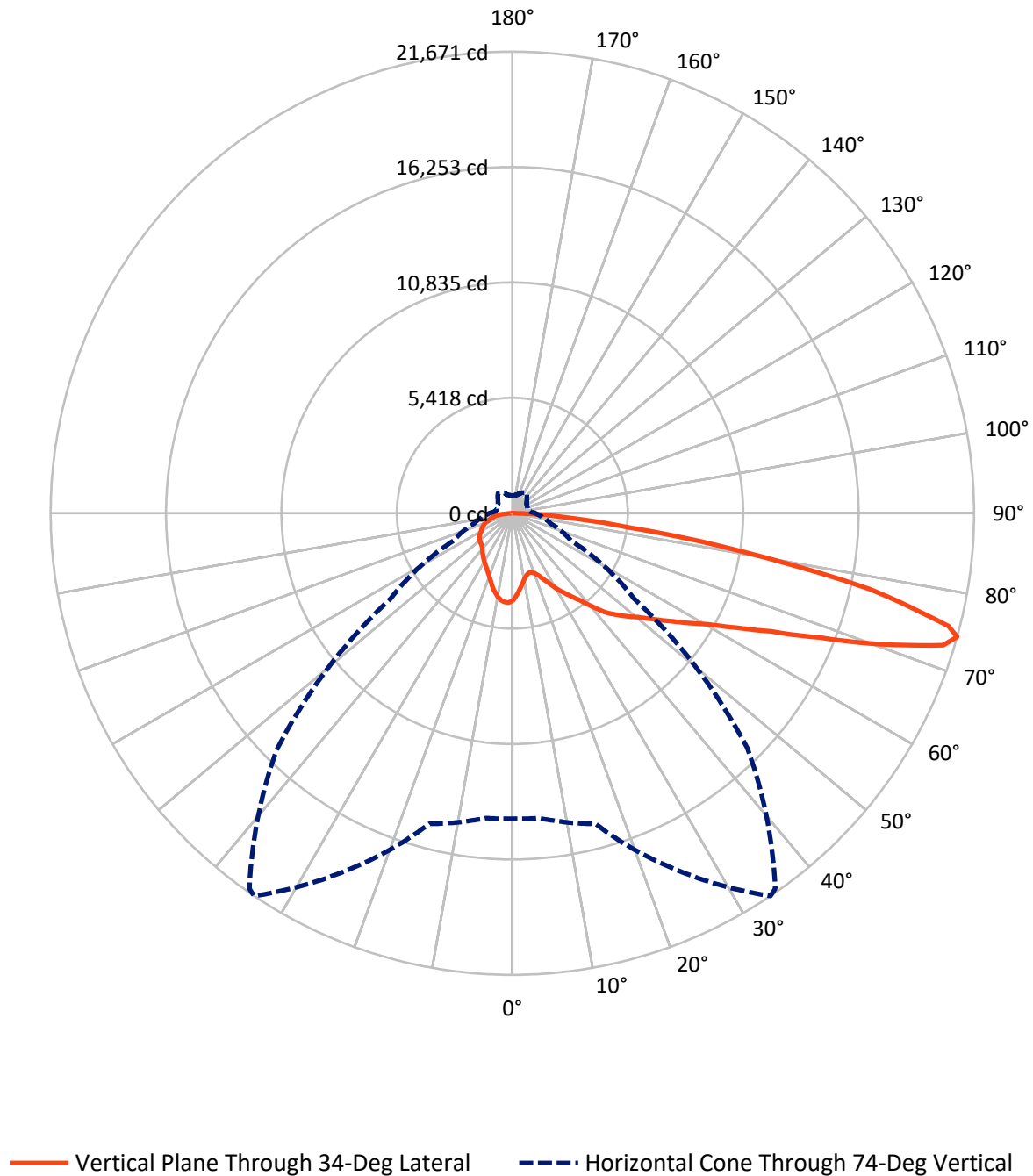


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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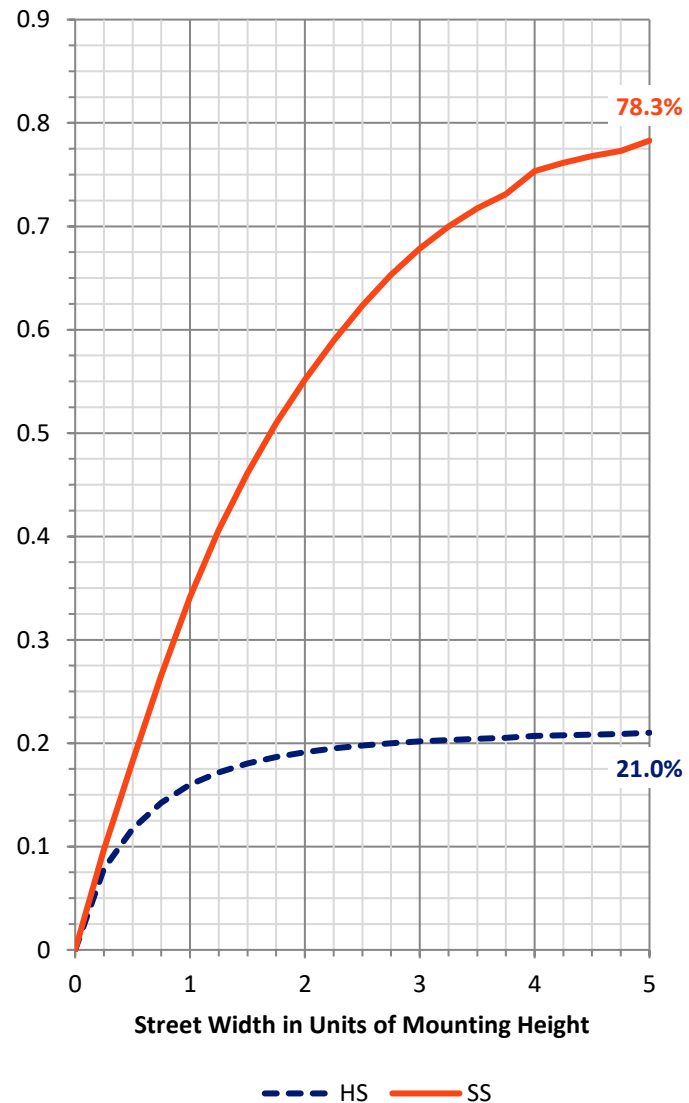
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5693.4	0.0	5693.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21060.6	0.0	21060.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	26754.0	0.0	26754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.4
10°-20°	1017.0	3.8
20°-30°	1676.7	6.3
30°-40°	2511.5	9.4
40°-50°	3651.0	13.6
50°-60°	5099.6	19.1
60°-70°	6384.5	23.9
70°-80°	5279.4	19.7
80°-90°	762.8	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°	26754.0	100.0
0°-180°	26754.0	100.0

Coefficient of Utilization



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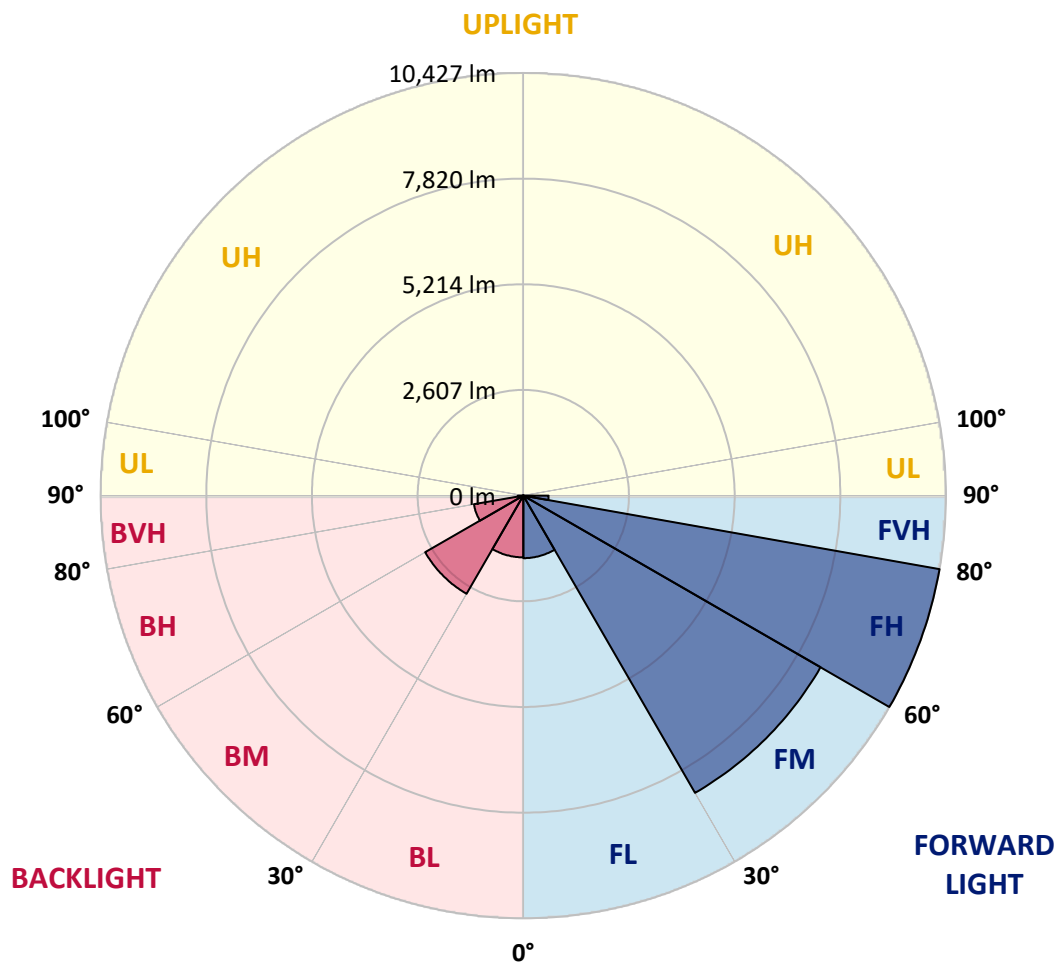
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.2	5.8			
FM	(30°-60°)	8466.1	31.6			
FH	(60°-80°)	10427.3	39.0			G4/12000
FVH	(80°-90°)	624.9	2.3			G4/750
BL	(0°-30°)	1522.9	5.7	B3/2500		
BM	(30°-60°)	2796.1	10.5	B3/5000		
BH	(60°-80°)	1236.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	137.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8
2.5°	3775.0	3794.3	3804.7	3841.7	3850.6	3862.5	3893.6	3935.1	3988.5	4035.9	4077.4
5°	3460.8	3490.5	3508.3	3540.9	3604.6	3610.5	3693.5	3788.4	3896.6	3997.4	4080.4
7.5°	3162.9	3195.5	3210.3	3269.6	3354.1	3367.4	3489.0	3638.7	3819.5	3972.2	4099.6
10°	2939.1	2955.4	2988.0	3032.5	3133.3	3142.2	3300.7	3500.8	3735.0	3960.3	4132.2
12.5°	2817.6	2826.5	2833.9	2881.3	2980.6	2993.9	3159.9	3386.7	3668.3	3969.2	4185.6
15°	2835.4	2838.3	2805.7	2814.6	2894.6	2913.9	3078.4	3311.1	3626.8	3991.4	4265.6
17.5°	2985.1	2974.7	2894.6	2853.1	2909.5	2918.4	3062.1	3281.5	3607.6	4032.9	4348.6
20°	3220.7	3205.9	3068.1	2976.2	3008.8	3016.2	3115.5	3303.7	3626.8	4101.1	4477.6
22.5°	3514.2	3508.3	3299.3	3188.1	3186.6	3186.6	3238.5	3383.7	3684.6	4194.5	4612.5
25°	3924.7	3893.6	3620.9	3477.1	3437.1	3434.1	3428.2	3515.7	3758.7	4293.8	4772.5
27.5°	4345.7	4292.3	4049.2	3828.4	3742.4	3732.1	3693.5	3702.4	3853.6	4406.4	4954.8
30°	4723.6	4689.5	4461.3	4216.7	4114.4	4090.7	3984.0	3935.1	4012.2	4609.5	5245.3
32.5°	5012.6	4991.9	4814.0	4591.7	4440.5	4436.1	4280.5	4240.4	4259.7	4855.5	5577.3
35°	5246.8	5254.2	5163.8	4971.1	4797.7	4772.5	4668.8	4618.4	4562.1	5211.2	5995.3
37.5°	5567.0	5583.3	5577.3	5411.3	5199.4	5205.3	5181.6	5098.6	4948.9	5608.5	6459.2
40°	5919.7	5931.6	5930.1	5866.4	5755.2	5761.1	5752.2	5657.4	5433.6	6113.9	6975.0
42.5°	6407.3	6351.0	6204.3	6268.0	6333.2	6361.4	6422.2	6331.7	6024.9	6653.4	7459.7
45°	6952.8	6846.1	6514.1	6543.7	6785.3	6838.6	7173.6	7049.1	6666.7	7272.9	8030.3
47.5°	7296.6	7191.4	6911.3	6905.3	7225.5	7277.4	7870.2	7824.3	7250.7	7941.4	8726.9
50°	7603.4	7588.6	7272.9	7348.5	7661.2	7738.3	8629.1	8586.1	7833.2	8729.9	9485.8
52.5°	8058.5	7938.4	7686.4	7842.1	8255.6	8356.4	9382.0	9256.0	8368.2	9426.5	10222.4
55°	8263.0	8234.8	8220.0	8354.9	8922.5	8995.2	10114.2	9825.2	8824.7	10016.4	10782.6
57.5°	8809.9	8758.0	8904.8	8996.7	9708.1	9819.2	10879.0	10419.5	9224.9	10484.7	11055.4
60°	9518.4	9490.2	9625.1	9791.1	10585.5	10754.5	11750.5	10926.4	9546.5	10720.4	10905.7
62.5°	10576.6	10573.7	10548.5	10904.2	11829.0	11984.7	12750.9	11420.0	9596.9	10544.0	10132.0
65°	12094.3	12041.0	11821.6	12210.0	13376.4	13558.7	13792.9	11695.6	9293.1	9638.4	8531.3
67.5°	13681.7	13678.8	13500.9	14004.8	15598.2	15786.4	15095.7	11634.9	8449.7	7808.0	6059.0
70°	14997.9	14934.1	15160.9	16503.7	18436.5	18654.3	16235.5	10919.0	6730.4	5156.4	3600.1
72.5°	15313.6	15316.5	15787.9	18430.5	21162.1	21196.2	16646.0	8849.9	4504.3	2844.2	1800.8
74°	14341.3	14366.5	15097.2	18526.9	21670.5	21516.4	15596.7	6955.7	3045.8	1857.1	1298.4
75°	13090.4	12931.8	13988.5	17885.1	21142.9	20976.9	14368.0	5581.8	2324.0	1483.6	1136.8
77.5°	6998.7	7160.3	8790.6	13346.8	17176.6	16985.4	9742.2	2676.8	1255.4	1033.1	818.1
80°	2491.5	2747.9	3862.5	6983.9	11012.4	11071.7	4649.5	1227.2	883.4	761.8	578.0
82.5°	1016.8	1044.9	1658.5	3099.2	5592.2	5645.5	1898.6	729.2	631.4	524.7	345.3
85°	397.2	409.1	733.7	1393.2	2386.3	2541.9	656.6	385.4	388.3	300.9	176.4
87.5°	133.4	151.2	300.9	463.9	810.7	794.4	191.2	114.1	139.3	130.4	54.8
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°	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8	4084.8
2.5°	4098.1	4126.3	4145.6	4166.3	4185.6	4191.5	4187.1	4200.4	4201.9	4203.4	4204.9
5°	4121.9	4160.4	4197.5	4218.2	4227.1	4219.7	4194.5	4181.1	4169.3	4160.4	4163.4
7.5°	4154.5	4209.3	4243.4	4252.3	4228.6	4194.5	4132.2	4083.3	4052.2	4031.4	4030.0
10°	4204.9	4258.2	4286.4	4261.2	4196.0	4113.0	4015.1	3923.3	3853.6	3832.8	3831.4
12.5°	4268.6	4329.4	4327.9	4253.8	4139.6	3991.4	3832.8	3726.1	3631.3	3583.8	3603.1
15°	4351.6	4397.5	4354.6	4221.2	4040.3	3837.3	3641.6	3496.4	3389.7	3339.3	3342.2
17.5°	4447.9	4488.0	4373.8	4163.4	3901.0	3640.2	3413.4	3275.6	3191.1	3154.0	3151.1
20°	4568.0	4579.8	4373.8	4062.6	3721.7	3410.4	3194.0	3097.7	3050.3	3031.0	3036.9
22.5°	4696.9	4673.2	4350.1	3920.3	3486.0	3170.3	3025.1	2982.1	2958.4	2955.4	2958.4
25°	4842.2	4775.5	4301.2	3727.6	3240.0	2962.8	2878.3	2885.7	2890.2	2890.2	2900.6
27.5°	5020.0	4886.7	4219.7	3484.5	2952.4	2770.1	2746.4	2798.3	2822.0	2826.5	2833.9
30°	5254.2	5008.2	4084.8	3180.7	2707.9	2596.7	2638.2	2707.9	2734.6	2750.9	2747.9
32.5°	5532.9	5141.6	3902.5	2876.9	2510.8	2475.2	2525.6	2596.7	2626.4	2635.3	2623.4
35°	5860.4	5292.8	3662.4	2592.3	2338.8	2359.6	2418.9	2441.1	2467.8	2467.8	2473.7
37.5°	6213.2	5414.3	3368.9	2331.4	2205.4	2281.0	2324.0	2303.3	2291.4	2276.6	2284.0
40°	6571.9	5504.7	2988.0	2073.5	2072.0	2199.5	2211.4	2152.1	2104.7	2089.8	2082.4
42.5°	6884.6	5561.0	2644.2	1873.4	1946.1	2119.5	2128.4	2033.5	1957.9	1913.5	1898.6
45°	7253.6	5626.2	2307.7	1707.4	1829.0	2055.7	2078.0	1950.5	1839.3	1746.0	1722.3
47.5°	7759.1	5774.5	2042.4	1578.5	1744.5	2015.7	2046.8	1882.3	1735.6	1614.1	1594.8
50°	8329.7	5977.5	1836.4	1491.0	1679.3	1980.2	2018.7	1812.7	1639.3	1504.4	1489.6
52.5°	8852.9	6087.2	1658.5	1412.5	1615.5	1914.9	1981.6	1762.3	1544.4	1394.7	1381.4
55°	9138.9	5909.3	1483.6	1335.4	1528.1	1830.5	1929.8	1692.6	1452.5	1336.9	1317.6
57.5°	9177.5	5541.8	1325.0	1252.4	1436.2	1726.7	1833.4	1608.1	1393.2	1296.9	1280.6
60°	8879.6	4993.4	1202.0	1184.2	1342.8	1609.6	1725.2	1534.0	1332.5	1252.4	1236.1
62.5°	8138.5	4397.5	1116.1	1122.0	1248.0	1486.6	1645.2	1462.9	1274.6	1203.5	1188.7
65°	6863.8	3629.8	1033.1	1058.3	1163.5	1390.3	1572.6	1403.6	1216.8	1166.5	1153.1
67.5°	4768.1	2620.4	964.9	991.6	1083.5	1292.4	1488.1	1339.9	1151.6	1125.0	1104.2
70°	2639.7	1612.6	884.8	916.0	1000.5	1182.8	1393.2	1243.5	1056.8	1044.9	1015.3
72.5°	1387.3	1027.1	794.4	828.5	887.8	1042.0	1248.0	1138.3	963.4	913.0	874.5
74°	1083.5	841.9	733.7	769.2	809.3	959.0	1162.0	1062.7	896.7	837.4	807.8
75°	944.1	750.0	681.8	727.7	763.3	902.6	1095.3	1009.3	859.6	803.3	776.6
77.5°	667.0	561.7	557.3	612.1	631.4	791.5	987.1	918.9	766.3	707.0	681.8
80°	468.4	420.9	441.7	475.8	502.4	699.6	916.0	794.4	628.4	558.8	549.9
82.5°	305.3	275.7	315.7	346.8	355.7	515.8	739.6	603.2	458.0	372.0	345.3
85°	140.8	137.8	180.8	176.4	174.9	252.0	438.7	352.8	263.8	197.1	185.3
87.5°	35.6	34.1	44.5	37.1	44.5	38.5	40.0	10.4	1.5	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)