

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: P455030

Luminaire Tested: **GALN-SA6A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455030
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-SA6A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 21502 lumens
Efficiency: N/A
Efficacy: 118.1 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): 182
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



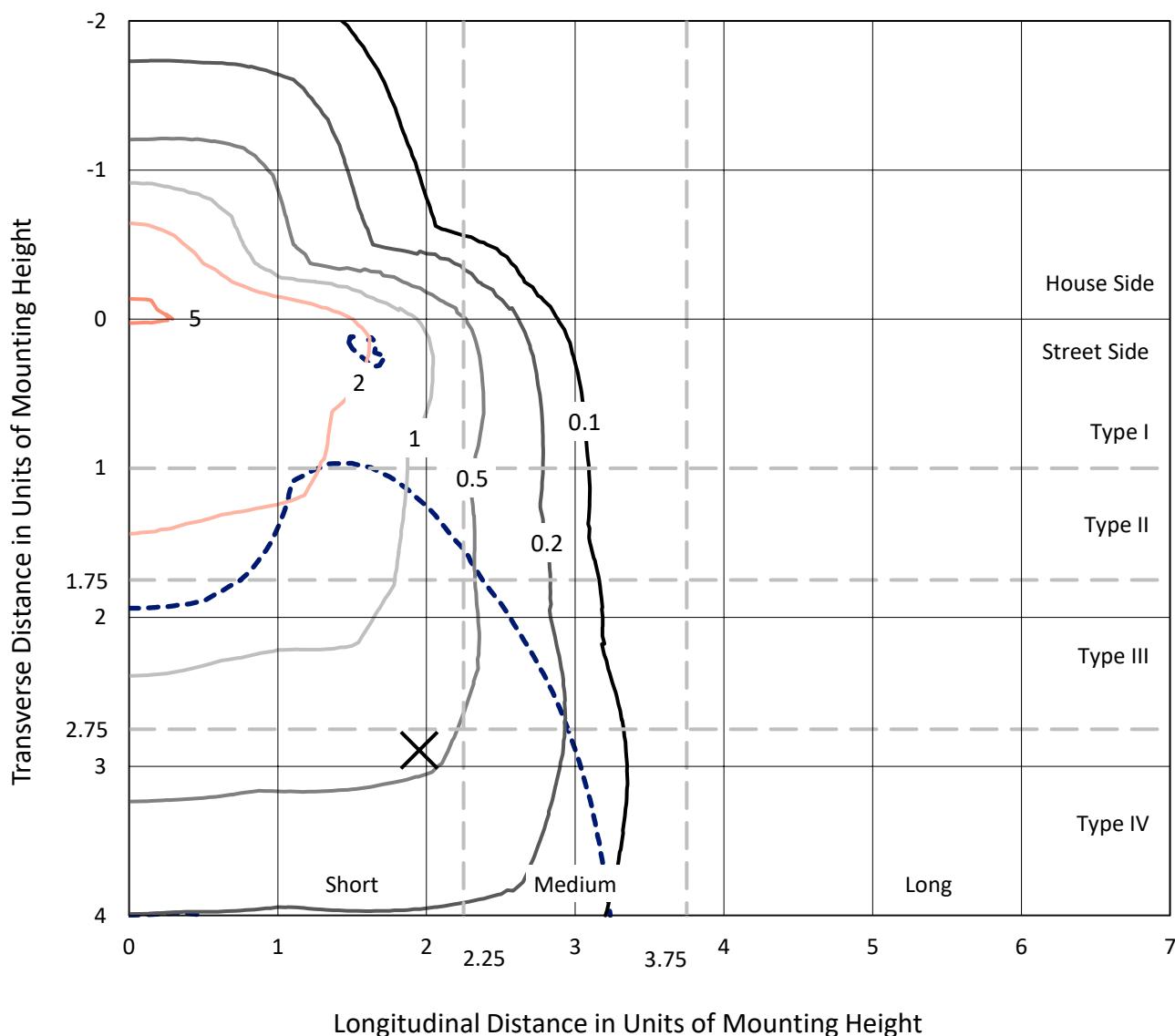
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



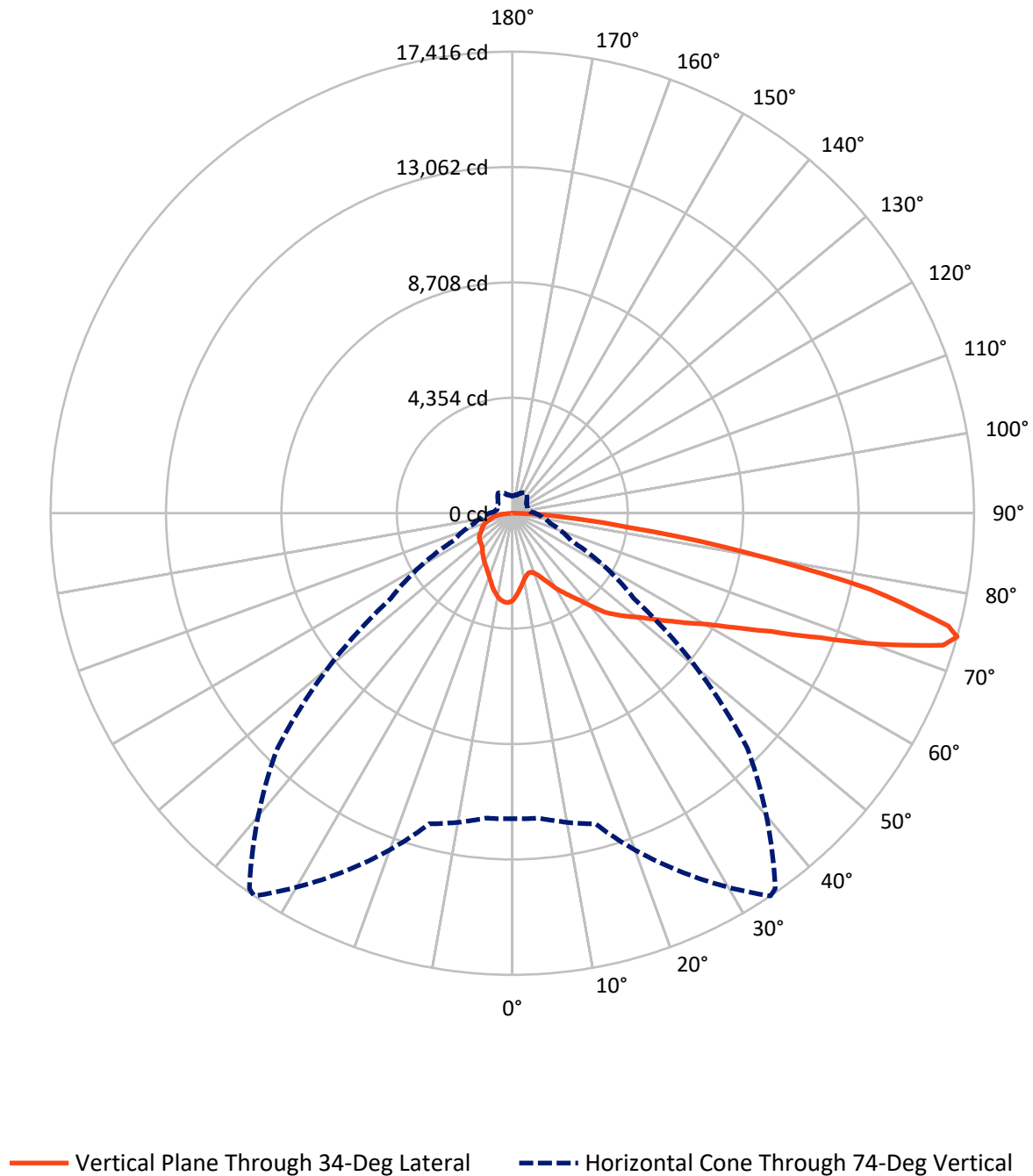
Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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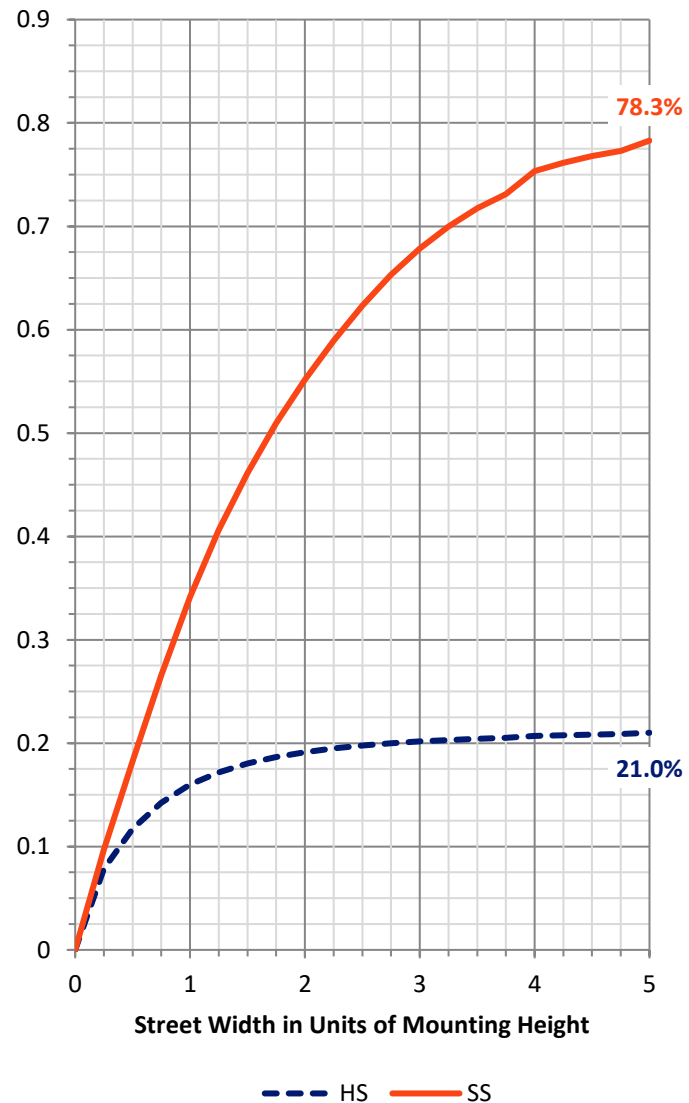
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4575.8	0.0	4575.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16926.2	0.0	16926.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	21502.0	0.0	21502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.4
10°-20°	817.3	3.8
20°-30°	1347.5	6.3
30°-40°	2018.5	9.4
40°-50°	2934.3	13.6
50°-60°	4098.5	19.1
60°-70°	5131.1	23.9
70°-80°	4243.0	19.7
80°-90°	613.1	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°	21502.0	100.0
0°-180°	21502.0	100.0

Coefficient of Utilization



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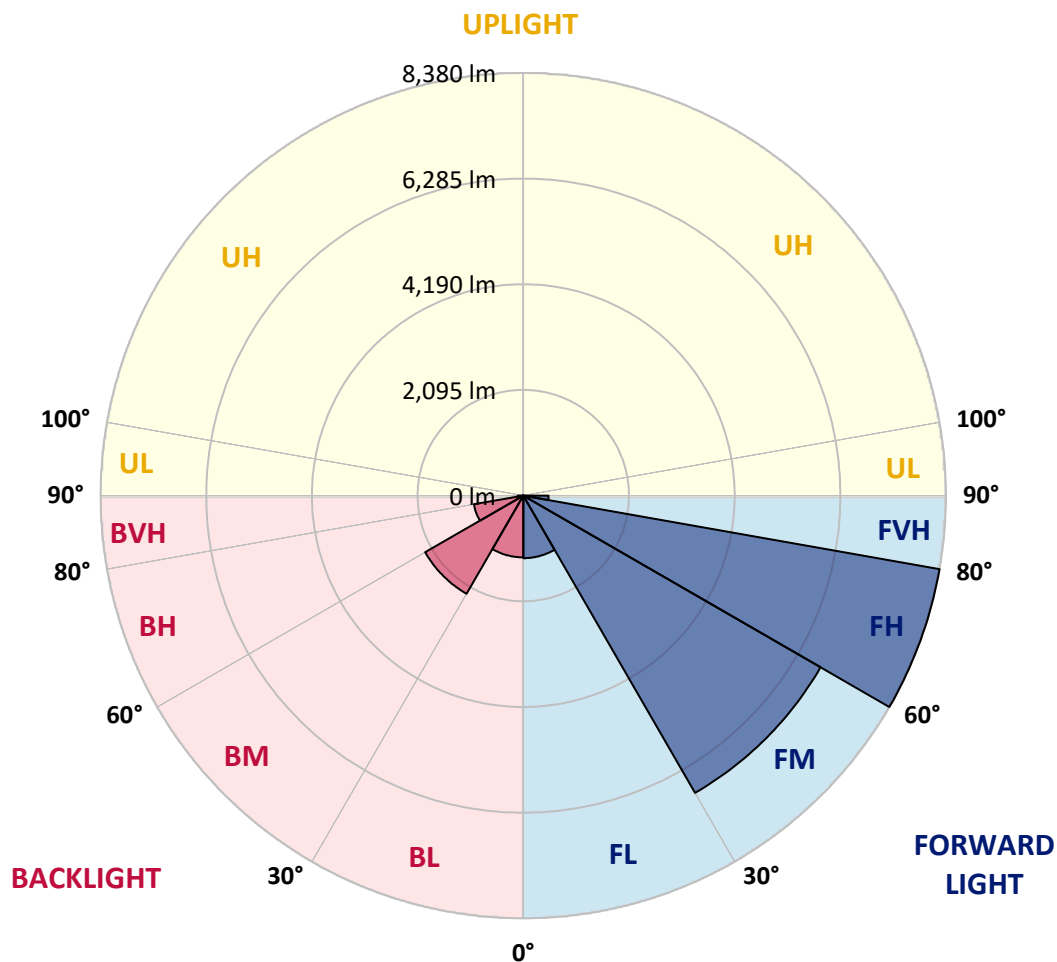
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1239.5	5.8			
FM	(30°-60°)	6804.1	31.6			
FH	(60°-80°)	8380.3	39.0			G4/12000
FVH	(80°-90°)	502.3	2.3			G4/750
BL	(0°-30°)	1223.9	5.7	B3/2500		
BM	(30°-60°)	2247.2	10.5	B2/2500		
BH	(60°-80°)	993.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	110.8	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°	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9
2.5°	3034.0	3049.5	3057.8	3087.6	3094.7	3104.3	3129.3	3162.6	3205.5	3243.6	3277.0
5°	2781.4	2805.3	2819.6	2845.8	2897.0	2901.7	2968.5	3044.7	3131.6	3212.6	3279.4
7.5°	2542.0	2568.2	2580.1	2627.8	2695.7	2706.4	2804.1	2924.4	3069.7	3192.4	3294.8
10°	2362.1	2375.2	2401.4	2437.2	2518.2	2525.3	2652.8	2813.6	3001.8	3182.9	3321.0
12.5°	2264.5	2271.6	2277.6	2315.7	2395.5	2406.2	2539.6	2721.9	2948.2	3190.0	3363.9
15°	2278.8	2281.1	2254.9	2262.1	2326.4	2341.9	2474.1	2661.1	2914.9	3207.9	3428.3
17.5°	2399.1	2390.7	2326.4	2293.0	2338.3	2345.5	2461.0	2637.3	2899.4	3241.2	3495.0
20°	2588.5	2576.6	2465.8	2391.9	2418.1	2424.1	2503.9	2655.2	2914.9	3296.0	3598.6
22.5°	2824.3	2819.6	2651.6	2562.3	2561.1	2561.1	2602.8	2719.5	2961.3	3371.1	3707.0
25°	3154.3	3129.3	2910.1	2794.5	2762.4	2760.0	2755.2	2825.5	3020.9	3450.9	3835.6
27.5°	3492.6	3449.7	3254.3	3076.9	3007.8	2999.4	2968.5	2975.6	3097.1	3541.4	3982.2
30°	3796.3	3768.9	3585.5	3388.9	3306.8	3287.7	3201.9	3162.6	3224.6	3704.6	4215.6
32.5°	4028.6	4011.9	3869.0	3690.3	3568.8	3565.2	3440.2	3408.0	3423.5	3902.4	4482.5
35°	4216.8	4222.8	4150.1	3995.3	3855.9	3835.6	3752.3	3711.8	3666.5	4188.2	4818.4
37.5°	4474.1	4487.2	4482.5	4349.0	4178.7	4183.5	4164.4	4097.7	3977.4	4507.5	5191.2
40°	4757.6	4767.2	4766.0	4714.7	4625.4	4630.2	4623.0	4546.8	4366.9	4913.7	5605.8
42.5°	5149.5	5104.3	4986.3	5037.6	5090.0	5112.6	5161.4	5088.8	4842.2	5347.3	5995.3
45°	5587.9	5502.1	5235.3	5259.1	5453.3	5496.2	5765.4	5665.3	5358.0	5845.2	6453.9
47.5°	5864.2	5779.7	5554.5	5549.8	5807.1	5848.8	6325.2	6288.3	5827.3	6382.4	7013.7
50°	6110.8	6098.9	5845.2	5905.9	6157.3	6219.2	6935.1	6900.6	6295.5	7016.1	7623.6
52.5°	6476.5	6380.0	6177.5	6302.6	6634.9	6716.0	7540.3	7439.0	6725.5	7576.0	8215.7
55°	6640.9	6618.3	6606.4	6714.8	7171.0	7229.4	8128.7	7896.4	7092.4	8050.1	8665.9
57.5°	7080.5	7038.8	7156.7	7230.5	7802.3	7891.7	8743.4	8374.1	7414.0	8426.5	8885.1
60°	7649.8	7627.2	7735.6	7869.0	8507.5	8643.3	9443.8	8781.5	7672.5	8615.9	8764.8
62.5°	8500.4	8498.0	8477.7	8763.6	9506.9	9632.0	10247.8	9178.1	7713.0	8474.2	8143.0
65°	9720.1	9677.3	9501.0	9813.1	10750.5	10897.0	11085.2	9399.7	7468.8	7746.3	6856.5
67.5°	10995.9	10993.5	10850.6	11255.6	12536.1	12687.4	12132.3	9350.9	6791.0	6275.2	4869.6
70°	12053.7	12002.5	12184.7	13263.9	14817.3	14992.4	13048.3	8775.5	5409.2	4144.2	2893.4
72.5°	12307.4	12309.8	12688.6	14812.5	17007.9	17035.3	13378.3	7112.6	3620.0	2285.9	1447.3
74°	11526.0	11546.2	12133.5	14889.9	17416.4	17292.6	12534.9	5590.3	2447.9	1492.6	1043.5
75°	10520.6	10393.2	11242.5	14374.1	16992.4	16859.0	11547.4	4486.0	1867.8	1192.4	913.6
77.5°	5624.8	5754.7	7065.0	10726.7	13804.7	13651.1	7829.7	2151.3	1008.9	830.3	657.5
80°	2002.4	2208.5	3104.3	5612.9	8850.6	8898.2	3736.8	986.3	710.0	612.3	464.6
82.5°	817.2	839.8	1332.9	2490.8	4494.4	4537.3	1525.9	586.1	507.4	421.7	277.5
85°	319.2	328.8	589.6	1119.7	1917.8	2042.9	527.7	309.7	312.1	241.8	141.8
87.5°	107.2	121.5	241.8	372.8	651.6	638.5	153.7	91.7	112.0	104.8	44.1
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°	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9	3282.9
2.5°	3293.7	3316.3	3331.8	3348.4	3363.9	3368.7	3365.1	3375.8	3377.0	3378.2	3379.4
5°	3312.7	3343.7	3373.5	3390.1	3397.3	3391.3	3371.1	3360.4	3350.8	3343.7	3346.1
7.5°	3338.9	3383.0	3410.4	3417.5	3398.5	3371.1	3321.0	3281.7	3256.7	3240.0	3238.9
10°	3379.4	3422.3	3444.9	3424.7	3372.3	3305.6	3226.9	3153.1	3097.1	3080.4	3079.2
12.5°	3430.6	3479.5	3478.3	3418.7	3327.0	3207.9	3080.4	2994.7	2918.4	2880.3	2895.8
15°	3497.3	3534.3	3499.7	3392.5	3247.2	3084.0	2926.8	2810.0	2724.3	2683.8	2686.1
17.5°	3574.8	3606.9	3515.2	3346.1	3135.2	2925.6	2743.3	2632.5	2564.6	2534.9	2532.5
20°	3671.3	3680.8	3515.2	3265.1	2991.1	2740.9	2567.0	2489.6	2451.5	2436.0	2440.8
22.5°	3774.9	3755.8	3496.2	3150.7	2801.7	2548.0	2431.2	2396.7	2377.6	2375.2	2377.6
25°	3891.6	3838.0	3456.8	2995.9	2603.9	2381.2	2313.3	2319.3	2322.8	2322.8	2331.2
27.5°	4034.6	3927.4	3391.3	2800.5	2372.9	2226.3	2207.3	2249.0	2268.0	2271.6	2277.6
30°	4222.8	4025.0	3282.9	2556.3	2176.3	2087.0	2120.3	2176.3	2197.8	2210.9	2208.5
32.5°	4446.7	4132.3	3136.4	2312.1	2017.9	1989.3	2029.8	2087.0	2110.8	2117.9	2108.4
35°	4710.0	4253.8	2943.4	2083.4	1879.7	1896.4	1944.0	1961.9	1983.3	1983.3	1988.1
37.5°	4993.5	4351.4	2707.6	1873.7	1772.5	1833.2	1867.8	1851.1	1841.6	1829.7	1835.6
40°	5281.8	4424.1	2401.4	1666.5	1665.3	1767.7	1777.3	1729.6	1691.5	1679.6	1673.6
42.5°	5533.1	4469.4	2125.1	1505.7	1564.0	1703.4	1710.6	1634.3	1573.6	1537.8	1525.9
45°	5829.7	4521.8	1854.7	1372.3	1469.9	1652.2	1670.1	1567.6	1478.3	1403.2	1384.2
47.5°	6235.9	4640.9	1641.5	1268.6	1402.0	1620.0	1645.0	1512.8	1394.9	1297.2	1281.7
50°	6694.5	4804.1	1475.9	1198.3	1349.6	1591.4	1622.4	1456.8	1317.5	1209.1	1197.1
52.5°	7115.0	4892.2	1332.9	1135.2	1298.4	1539.0	1592.6	1416.3	1241.2	1120.9	1110.2
55°	7344.9	4749.3	1192.4	1073.3	1228.1	1471.1	1550.9	1360.3	1167.4	1074.5	1059.0
57.5°	7375.9	4453.9	1064.9	1006.6	1154.3	1387.7	1473.5	1292.4	1119.7	1042.3	1029.2
60°	7136.4	4013.1	966.1	951.8	1079.2	1293.6	1386.5	1232.9	1070.9	1006.6	993.5
62.5°	6540.8	3534.3	897.0	901.7	1003.0	1194.8	1322.2	1175.7	1024.4	967.2	955.3
65°	5516.4	2917.2	830.3	850.5	935.1	1117.3	1263.9	1128.1	978.0	937.5	926.7
67.5°	3832.1	2106.0	775.5	796.9	870.8	1038.7	1196.0	1076.8	925.6	904.1	887.4
70°	2121.5	1296.0	711.1	736.2	804.1	950.6	1119.7	999.4	849.3	839.8	816.0
72.5°	1115.0	825.5	638.5	665.9	713.5	837.4	1003.0	914.8	774.3	733.8	702.8
74°	870.8	676.6	589.6	618.2	650.4	770.7	933.9	854.1	720.7	673.0	649.2
75°	758.8	602.7	547.9	584.9	613.5	725.4	880.3	811.2	690.9	645.6	624.2
77.5°	536.0	451.5	447.9	492.0	507.4	636.1	793.3	738.5	615.8	568.2	547.9
80°	376.4	338.3	355.0	382.4	403.8	562.2	736.2	638.5	505.1	449.1	441.9
82.5°	245.4	221.6	253.7	278.7	285.9	414.5	594.4	484.8	368.1	299.0	277.5
85°	113.2	110.8	145.3	141.8	140.6	202.5	352.6	283.5	212.0	158.4	148.9
87.5°	28.6	27.4	35.7	29.8	35.7	31.0	32.2	8.3	1.2	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)