

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: P455495

Luminaire Tested: **GALN-SA6C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23965 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

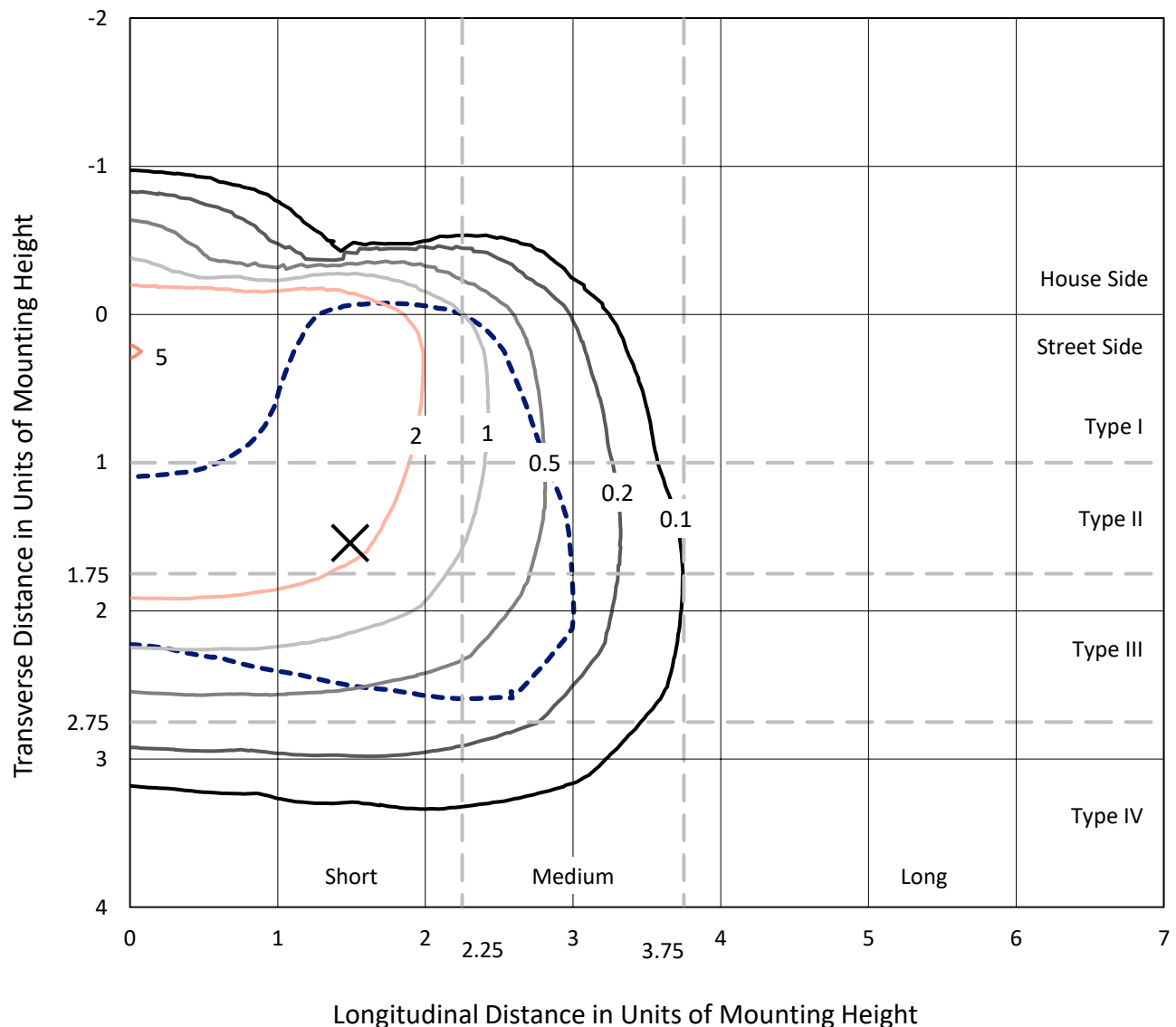


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Iso-Footcandle Lines of Horizontal Illumination

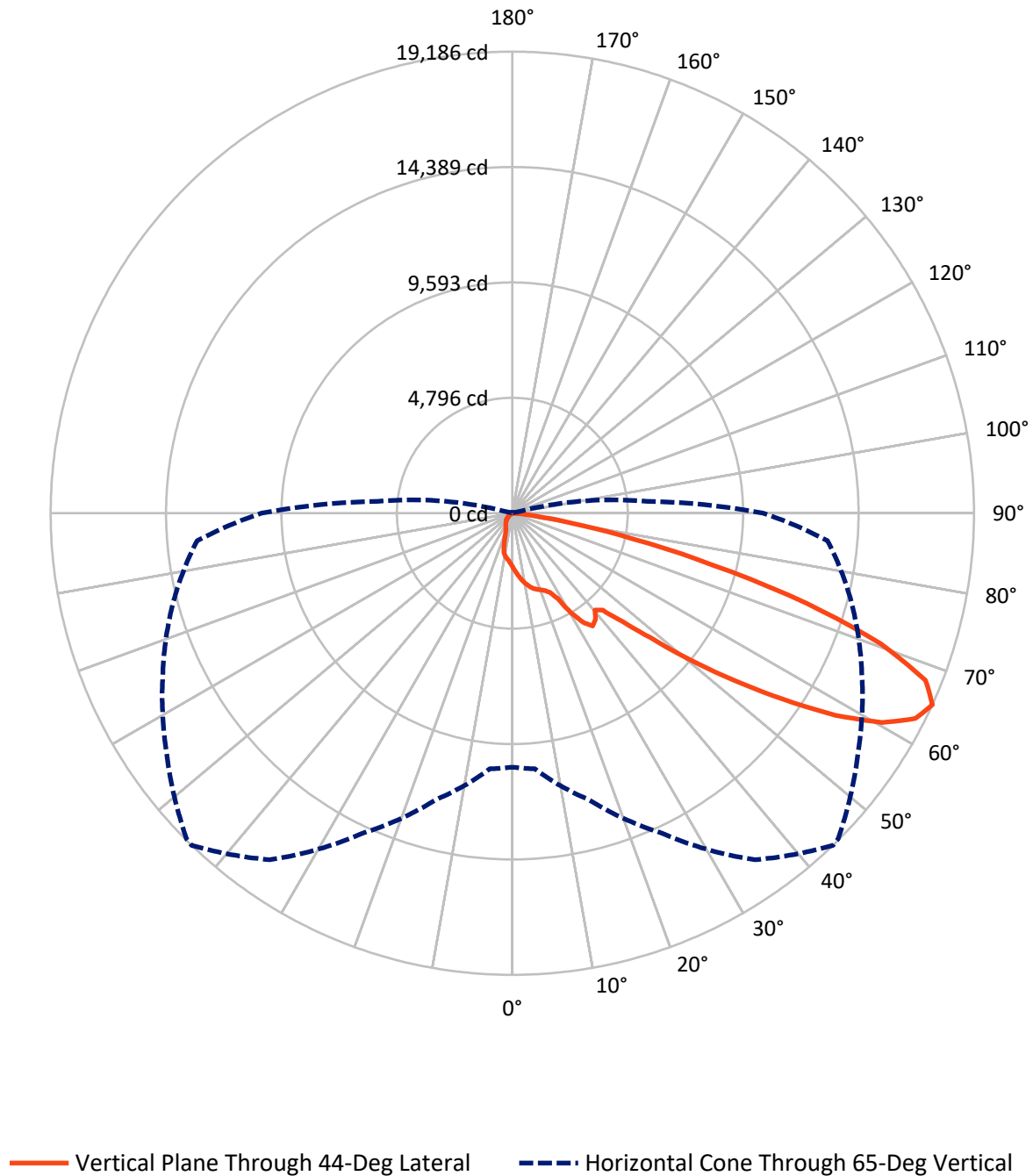
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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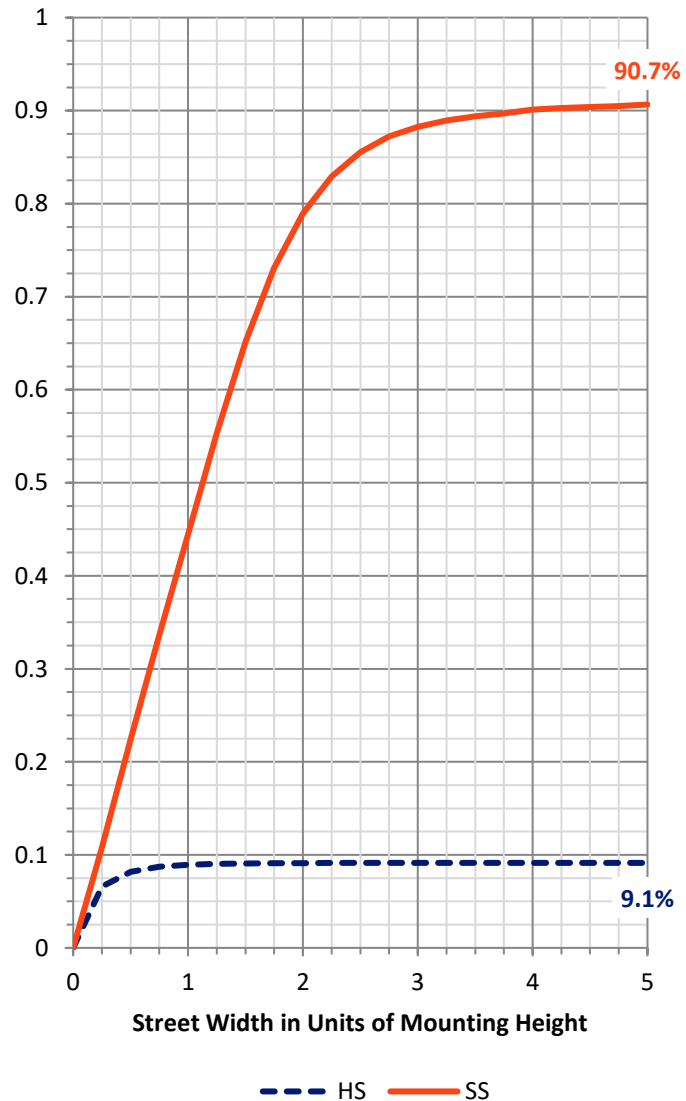
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2208.0	0.0	2208.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	21757.0	0.0	21757.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	23965.0	0.0	23965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	0.9
10°-20°	667.7	2.8
20°-30°	1132.1	4.7
30°-40°	1882.3	7.9
40°-50°	3286.6	13.7
50°-60°	6420.8	26.8
60°-70°	7449.7	31.1
70°-80°	2712.8	11.3
80°-90°	191.1	0.8
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°	23965.0	100.0
0°-180°	23965.0	100.0

Coefficient of Utilization



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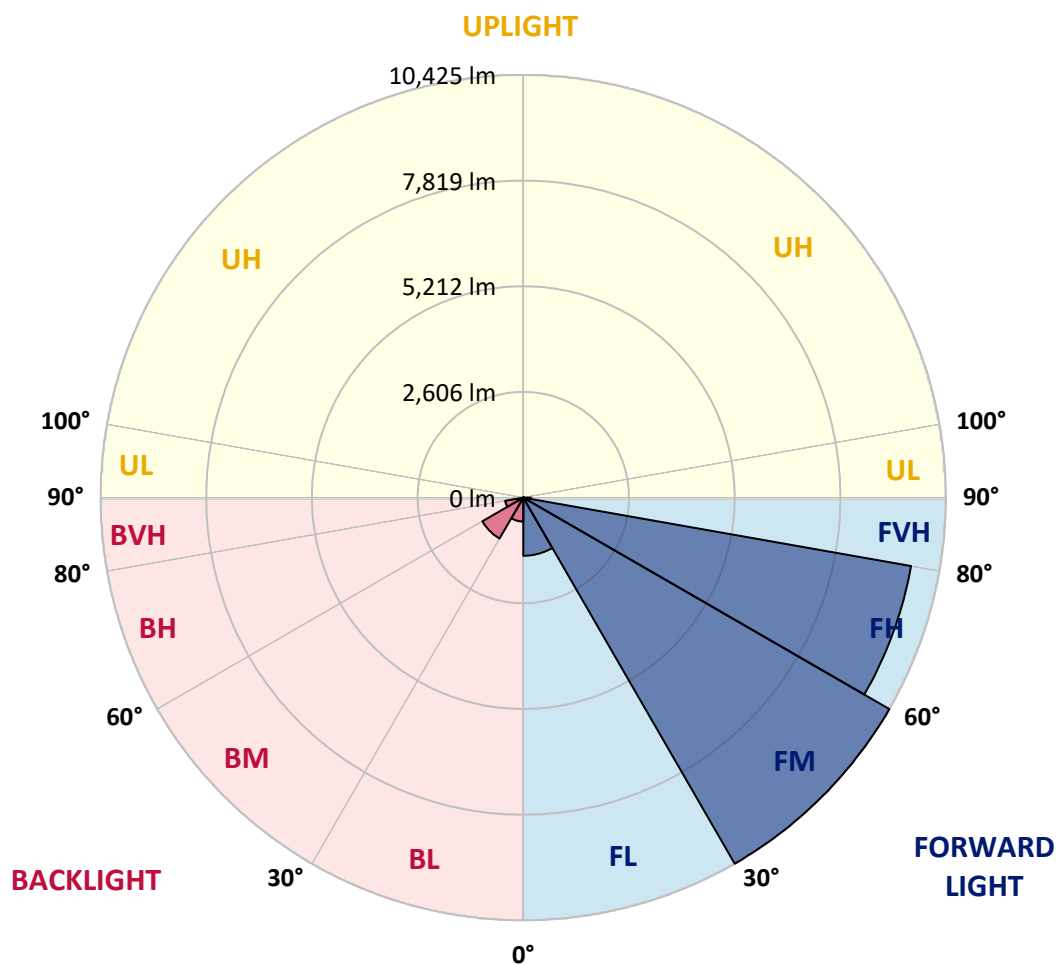
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.3	6.0			
FM	(30°-60°)	10424.8	43.5			
FH	(60°-80°)	9710.3	40.5			G4/12000
FVH	(80°-90°)	188.5	0.8			G2/225
BL	(0°-30°)	588.3	2.5	B2/1000		
BM	(30°-60°)	1165.0	4.9	B2/2500		
BH	(60°-80°)	452.2	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2510.6	2499.6	2494.1	2464.8	2442.8	2415.4	2415.4	2380.6	2340.3	2296.4	2256.1
5°	2790.8	2772.5	2748.7	2723.0	2671.8	2598.5	2598.5	2525.3	2441.0	2365.9	2283.5
7.5°	3060.0	3043.5	3003.2	2953.8	2869.5	2792.6	2787.1	2680.9	2580.2	2466.7	2349.5
10°	3296.2	3283.4	3248.6	3153.4	3065.5	2964.7	2962.9	2843.9	2726.7	2587.5	2442.8
12.5°	3461.0	3462.8	3417.1	3325.5	3212.0	3116.7	3109.4	2992.2	2869.5	2719.4	2541.7
15°	3578.2	3578.2	3530.6	3428.0	3325.5	3241.3	3233.9	3131.4	3005.0	2842.1	2649.8
17.5°	3611.2	3622.2	3570.9	3479.3	3396.9	3323.7	3321.8	3235.8	3135.0	2977.6	2759.6
20°	3598.3	3609.3	3569.0	3497.6	3440.9	3398.7	3393.3	3358.5	3265.1	3116.7	2876.8
22.5°	3570.9	3581.9	3552.6	3510.5	3483.0	3495.8	3486.6	3515.9	3466.5	3287.0	3016.0
25°	3576.4	3587.4	3565.4	3541.6	3565.4	3644.1	3667.9	3794.3	3750.3	3503.1	3166.2
27.5°	3748.5	3770.5	3739.4	3750.3	3834.6	4017.7	4063.5	4281.4	4087.3	3777.8	3400.6
30°	4131.2	4116.6	4058.0	4111.1	4404.1	4792.3	4779.5	4744.7	4440.7	4094.6	3678.9
32.5°	4479.2	4466.3	4462.7	4691.6	5222.6	5411.3	5402.1	5065.2	4757.5	4457.2	3953.6
35°	4620.2	4570.7	4559.7	5114.6	6002.7	5753.7	5696.9	5197.0	5142.1	4852.7	4233.8
37.5°	5045.0	5010.2	4839.9	5184.2	5691.4	5609.0	5565.1	5424.1	5552.3	5202.5	4550.6
40°	5920.3	5823.3	5669.5	5332.5	5250.1	5284.9	5328.9	5715.2	6037.5	5680.4	4973.6
42.5°	7008.1	6986.1	6700.4	6072.3	5455.2	5502.8	5559.6	6323.2	6735.2	6400.1	5664.0
45°	8313.7	8344.9	7932.8	7191.2	6381.8	6422.1	6504.5	7220.5	7680.1	7519.0	6749.9
47.5°	9500.4	9476.6	9337.4	8566.5	7819.3	7729.6	7863.3	8372.3	8987.6	9013.3	8097.7
50°	10694.3	10820.7	10613.8	10311.6	9756.7	9568.1	9518.7	9767.7	10705.3	10582.6	9716.5
52.5°	12410.2	12476.1	12087.9	12011.0	12137.3	11525.7	11476.3	11536.7	12375.4	11954.2	10928.7
55°	13488.8	13450.3	13305.6	13906.3	14406.2	13642.6	13580.3	13336.8	13761.6	12922.9	12095.2
57.5°	13829.4	13884.3	14221.3	15307.2	16490.1	15841.9	15728.4	15036.2	14761.5	13825.7	13168.3
60°	13677.4	13778.1	14505.1	16120.2	17761.0	17664.0	17566.9	16404.1	15479.3	14580.2	13920.9
62.5°	12595.1	12736.1	13899.0	15975.6	18191.3	18797.5	18676.6	17257.4	15957.3	14946.4	14052.8
65°	10555.2	10659.5	12329.6	14662.6	17579.7	19185.7	19141.7	17524.8	16032.3	14611.3	13150.0
67.5°	7524.5	7879.7	9427.1	12357.1	15770.5	18522.8	18597.9	17204.3	15327.3	13162.8	10890.3
70°	4730.0	4971.8	6081.5	8846.6	12642.7	16250.3	16497.5	15737.5	13302.0	10260.3	7290.1
72.5°	2256.1	2435.5	3226.6	5599.9	8923.5	12785.6	12981.5	12919.3	10286.0	6464.2	3761.3
75°	1005.3	1073.1	1540.1	2858.5	5761.0	8593.9	9101.2	9185.4	6427.6	3162.5	1463.1
77.5°	512.7	514.6	721.5	1384.4	2876.8	5127.4	5228.1	5523.0	3484.8	1393.6	509.1
80°	272.9	291.2	382.7	653.7	1492.4	2525.3	2512.4	2761.5	1545.6	683.0	170.3
82.5°	122.7	135.5	216.1	342.4	728.8	957.7	1032.8	1129.9	662.9	435.8	75.1
85°	36.6	43.9	106.2	172.1	263.7	276.5	309.5	399.2	375.4	309.5	38.5
87.5°	5.5	5.5	43.9	47.6	38.5	49.4	51.3	56.8	120.9	113.5	20.1
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°	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2234.1	2221.3	2175.5	2137.0	2104.1	2083.9	2060.1	2045.5	2038.1	2032.7	2034.5
5°	2243.2	2212.1	2133.4	2071.1	2023.5	1972.2	1937.4	1917.3	1908.1	1893.5	1893.5
7.5°	2294.5	2245.1	2135.2	2040.0	1957.6	1888.0	1822.1	1798.3	1781.8	1778.1	1774.5
10°	2367.8	2305.5	2155.3	2023.5	1906.3	1811.1	1717.7	1635.3	1571.2	1532.7	1527.2
12.5°	2459.3	2369.6	2186.5	2012.5	1862.4	1693.9	1446.7	1280.0	1168.3	1133.5	1139.0
15°	2543.6	2446.5	2217.6	2003.4	1781.8	1404.5	1124.4	933.9	877.2	871.7	873.5
17.5°	2644.3	2528.9	2254.2	1990.5	1560.2	1073.1	835.0	783.8	794.7	813.1	811.2
20°	2748.7	2616.8	2298.2	1913.6	1245.2	807.6	738.0	743.5	760.0	776.4	780.1
22.5°	2860.4	2717.5	2349.5	1728.7	950.4	703.2	699.5	706.9	723.3	741.6	745.3
25°	3014.2	2843.9	2387.9	1487.0	719.7	650.1	657.4	670.2	684.9	705.0	708.7
27.5°	3212.0	3014.2	2408.1	1172.0	622.6	602.5	604.3	622.6	640.9	659.2	659.2
30°	3468.3	3217.5	2367.8	886.3	575.0	556.7	549.4	560.4	584.2	602.5	604.3
32.5°	3697.2	3409.7	2261.6	677.6	540.2	514.6	496.3	498.1	507.2	518.2	520.1
35°	3926.1	3596.5	2080.3	569.5	503.6	474.3	446.8	432.2	424.8	419.3	424.8
37.5°	4219.1	3829.1	1838.5	518.2	472.5	435.8	397.4	366.2	340.6	324.1	327.8
40°	4596.4	4151.4	1552.9	485.3	443.2	399.2	347.9	307.6	263.7	249.0	241.7
42.5°	5219.0	4640.3	1252.6	457.8	413.9	360.8	296.7	241.7	201.4	186.8	190.4
45°	6202.3	5257.4	965.1	428.5	384.6	318.6	249.0	190.4	157.5	150.2	153.8
47.5°	7506.2	6055.8	743.5	395.5	347.9	272.9	195.9	150.2	130.0	128.2	126.4
50°	8733.1	6799.3	620.8	358.9	304.0	227.1	161.1	126.4	113.5	111.7	111.7
52.5°	9842.8	7332.2	505.4	316.8	256.4	186.8	135.5	111.7	100.7	95.2	95.2
55°	10829.8	7680.1	410.2	265.5	201.4	148.3	117.2	100.7	87.9	80.6	78.7
57.5°	11575.1	7722.3	307.6	212.4	150.2	115.4	100.7	87.9	73.2	64.1	60.4
60°	11893.8	7357.8	227.1	161.1	111.7	91.6	80.6	71.4	54.9	45.8	43.9
62.5°	11573.3	6649.2	168.5	122.7	86.1	67.8	56.8	53.1	38.5	27.5	25.6
65°	10425.1	5625.5	133.7	93.4	64.1	49.4	36.6	34.8	23.8	12.8	11.0
67.5°	8352.2	4405.9	106.2	69.6	45.8	33.0	23.8	22.0	12.8	3.7	3.7
70°	5431.4	2816.4	86.1	51.3	29.3	22.0	14.6	11.0	7.3	1.8	0.0
72.5°	2686.4	1316.6	69.6	40.3	20.1	11.0	5.5	3.7	5.5	0.0	0.0
75°	1042.0	468.8	51.3	27.5	11.0	5.5	3.7	0.0	1.8	0.0	0.0
77.5°	346.1	155.7	31.1	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	128.2	60.4	16.5	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	51.3	23.8	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.6	14.6	7.3	5.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	11.0	7.3	5.5	3.7	1.8	0.0	0.0	0.0	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)