

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: P455493

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23855 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

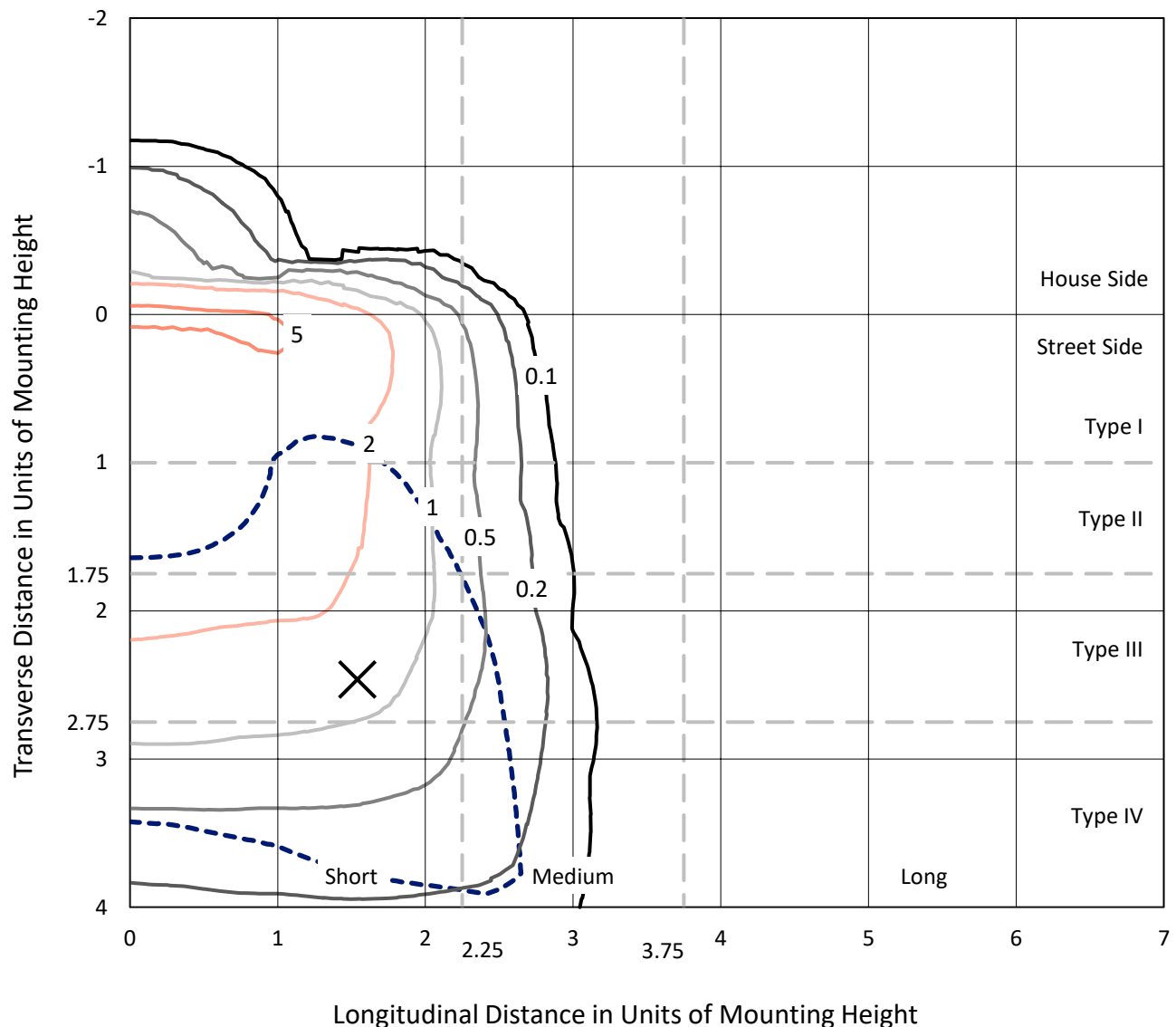
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

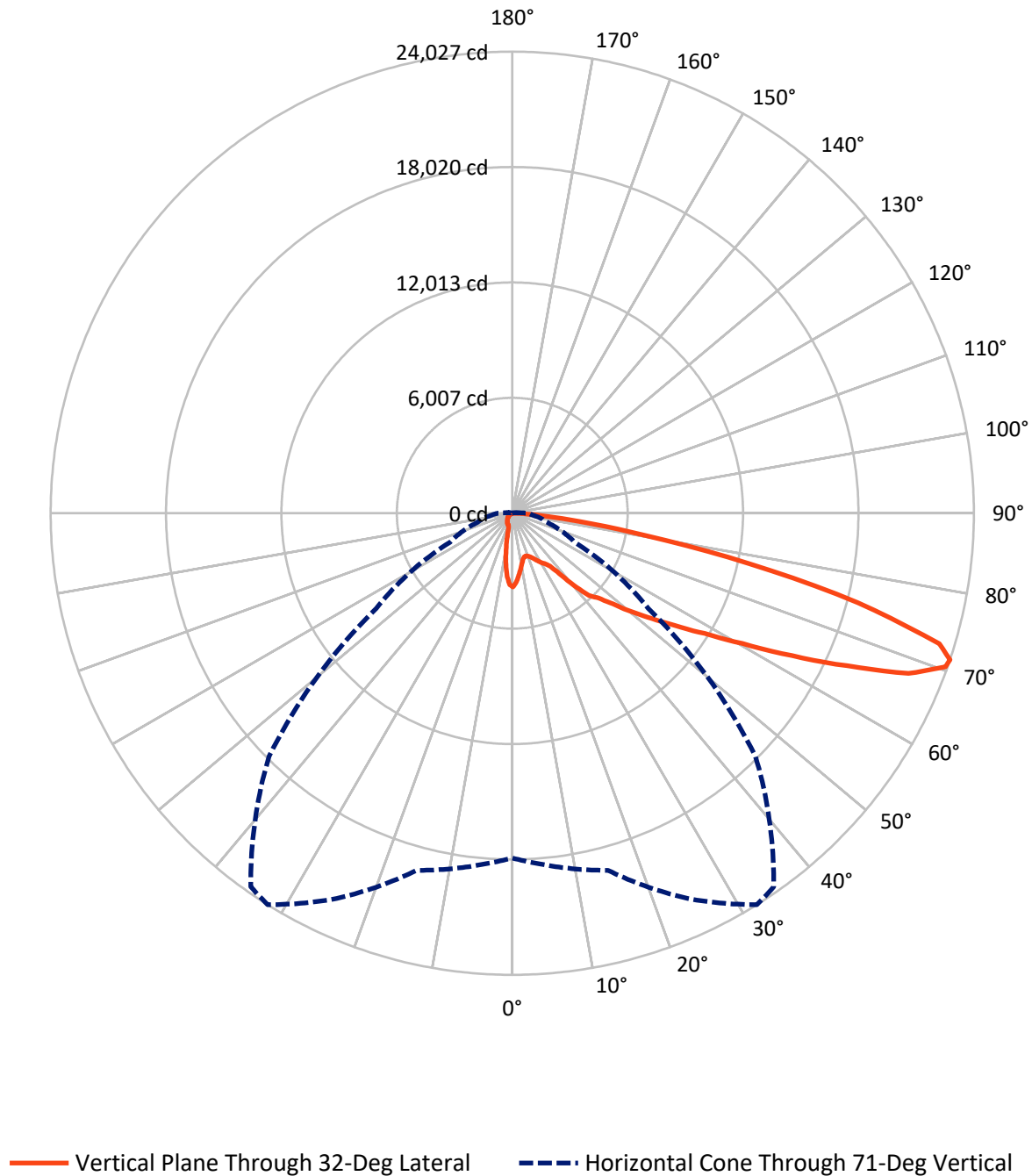
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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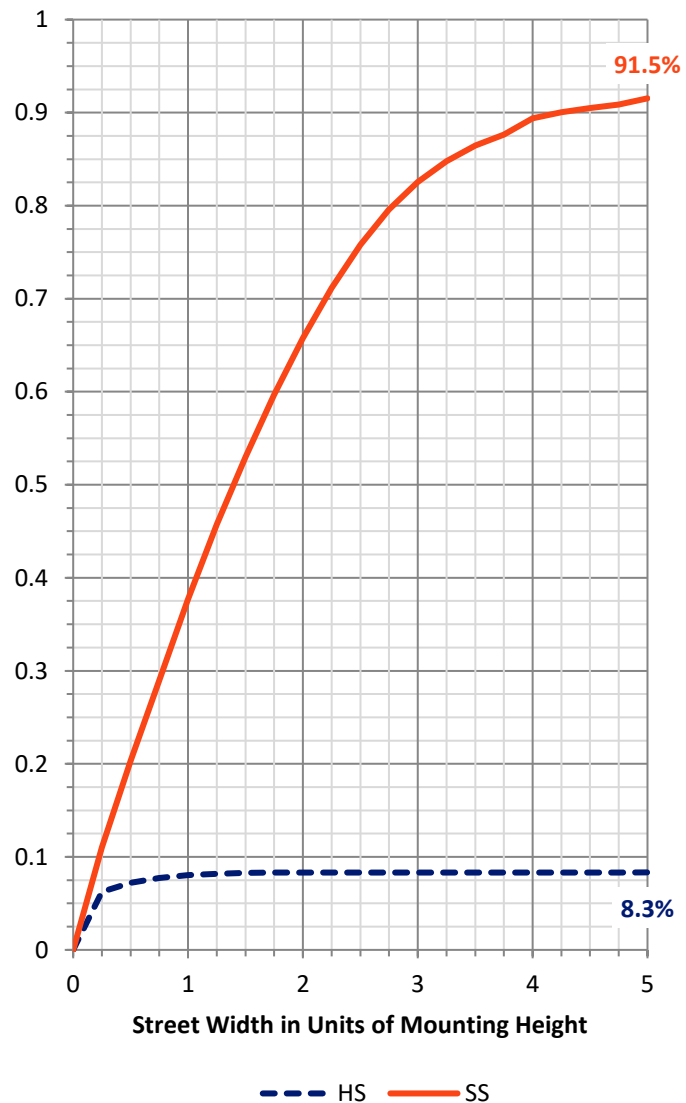
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1998.1	0.0	1998.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21856.9	0.0	21856.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	23855.0	0.0	23855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	1.3
10°-20°	677.0	2.8
20°-30°	1053.2	4.4
30°-40°	1754.7	7.4
40°-50°	3263.9	13.7
50°-60°	5240.4	22.0
60°-70°	7048.6	29.5
70°-80°	4182.0	17.5
80°-90°	323.3	1.4
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°	23855.0	100.0
0°-180°	23855.0	100.0

Coefficient of Utilization



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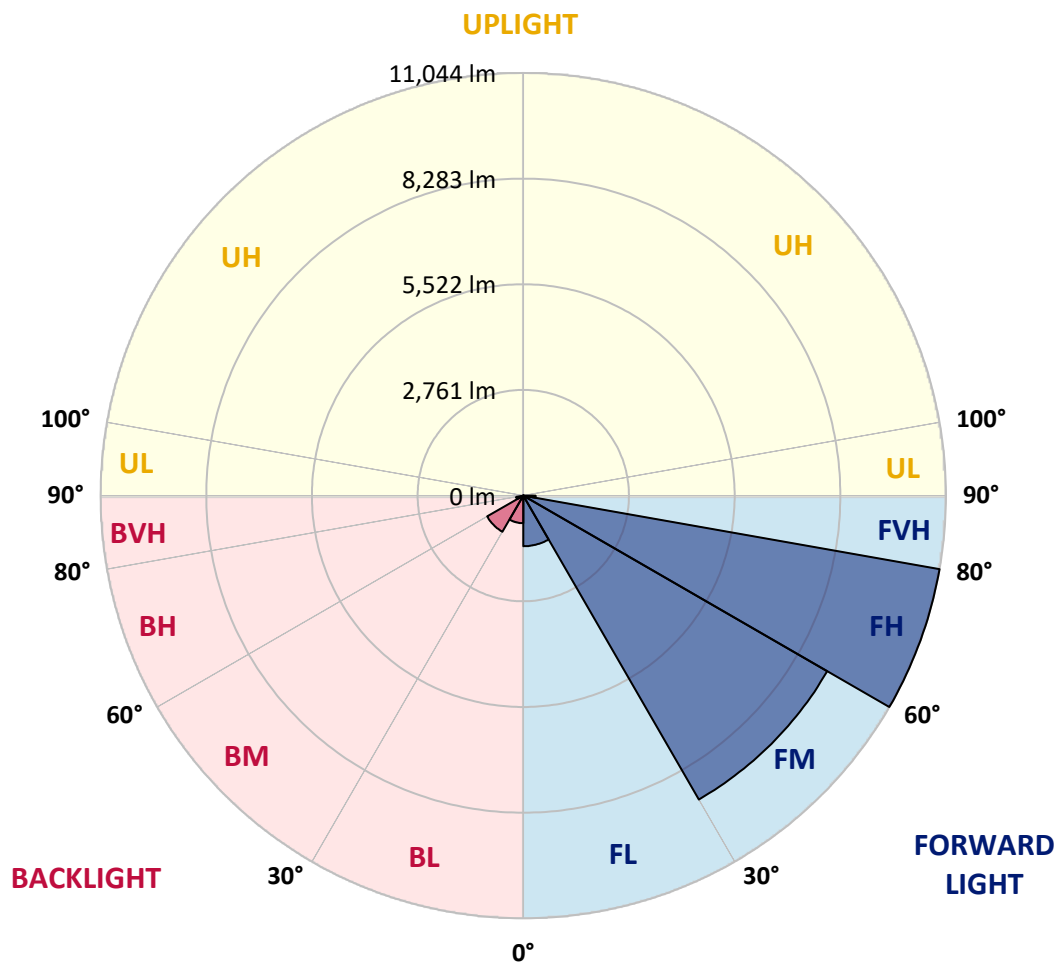
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1322.2	5.5			
FM	(30°-60°)	9169.0	38.4			
FH	(60°-80°)	11043.7	46.3			G4/12000
FVH	(80°-90°)	322.0	1.3			G3/500
BL	(0°-30°)	720.0	3.0	B2/1000		
BM	(30°-60°)	1090.0	4.6	B2/2500		
BH	(60°-80°)	186.9	0.8	B1/500		G1/500
BVH	(80°-90°)	1.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3
2.5°	3557.9	3594.5	3589.1	3601.9	3633.0	3645.8	3680.6	3719.1	3772.2	3808.8	3832.6
5°	3186.2	3213.7	3217.3	3281.4	3312.5	3347.3	3449.9	3561.6	3686.1	3785.0	3850.9
7.5°	2788.8	2803.5	2832.8	2917.0	2995.8	3030.6	3186.2	3380.3	3576.2	3761.2	3880.2
10°	2461.1	2477.5	2530.6	2620.4	2693.6	2739.4	2955.5	3199.0	3473.7	3748.4	3922.3
12.5°	2274.3	2283.4	2303.6	2384.2	2477.5	2527.0	2759.5	3037.9	3391.3	3753.9	3993.7
15°	2261.5	2257.8	2234.0	2267.0	2351.2	2402.5	2629.5	2928.0	3318.0	3772.2	4078.0
17.5°	2329.2	2320.1	2263.3	2263.3	2332.9	2375.0	2574.6	2869.4	3281.4	3814.3	4197.0
20°	2433.6	2418.9	2325.6	2318.2	2386.0	2429.9	2607.6	2873.1	3288.7	3893.0	4356.3
22.5°	2565.4	2549.0	2408.0	2411.6	2484.9	2528.8	2702.8	2939.0	3334.5	3990.1	4526.6
25°	2737.6	2719.3	2552.6	2545.3	2622.2	2660.7	2843.8	3056.2	3398.6	4110.9	4750.0
27.5°	2966.5	2928.0	2728.4	2717.4	2799.8	2849.3	3014.1	3213.7	3512.1	4277.6	5050.3
30°	3155.1	3113.0	2922.5	2893.2	2981.1	3019.6	3189.9	3426.1	3735.5	4568.7	5466.0
32.5°	3402.3	3340.0	3116.6	3039.7	3133.1	3182.5	3444.4	3821.6	4067.0	4876.3	5960.4
35°	3958.9	3920.5	3647.6	3378.5	3373.0	3435.2	3819.8	4220.8	4407.6	5356.1	6634.3
37.5°	4755.5	4728.0	4438.7	4078.0	3973.6	3944.3	4275.7	4660.3	4951.4	6015.3	7418.0
40°	5680.2	5616.1	5350.6	5044.8	4909.3	4823.2	4814.1	5314.0	5661.9	6910.8	8234.7
42.5°	6343.1	6225.9	5903.6	5881.6	5852.4	5762.6	5502.6	6269.9	6579.3	7873.9	9108.1
45°	7038.9	6861.3	6381.6	6299.2	6288.2	6282.7	6542.7	7401.5	7579.1	8917.7	10005.4
47.5°	7579.1	7438.1	7044.4	7007.8	7053.6	7178.1	7917.9	8602.7	8566.1	9847.9	10758.0
50°	8298.8	8192.6	7754.9	7824.5	8060.7	8264.0	9468.9	9912.0	9377.3	10580.4	11305.5
52.5°	9148.4	8952.5	8546.0	8734.6	9097.1	9435.9	11115.1	11058.3	9946.8	11131.6	11713.9
55°	9884.5	9745.4	9606.2	9802.1	10344.2	10767.2	12602.0	11917.1	10360.6	11574.7	11893.3
57.5°	11129.7	11096.8	10953.9	11153.5	11810.9	12250.4	13933.2	12583.7	10626.2	11805.4	11682.7
60°	12971.9	12918.8	12653.2	12907.8	13764.7	14455.1	15160.1	13182.4	10686.6	11715.7	11076.6
62.5°	15187.5	15006.3	14779.2	15154.6	16330.2	16634.2	16315.5	13537.7	10461.4	11001.5	9615.4
65°	17256.7	17070.0	17075.5	17866.5	19146.5	19353.4	17663.3	13484.6	9802.1	9212.5	7092.0
67.5°	18840.7	18809.6	19033.0	20576.6	22250.3	22107.5	18868.2	12689.9	7848.3	5971.4	3768.5
70°	18921.3	18981.7	19622.6	22228.3	23927.6	23700.6	18765.6	10314.9	4892.8	2746.7	1485.1
71°	17947.1	18353.6	19239.9	22177.0	24026.5	23731.7	17901.3	8639.4	3589.1	1915.4	1071.2
72.5°	15293.8	15508.0	17423.4	20871.4	23244.6	22614.7	15709.4	6055.6	2298.1	1171.9	615.3
75°	8423.3	8950.7	11668.1	16374.1	18591.7	18038.6	10238.0	2876.7	1146.3	640.9	254.5
77.5°	4010.2	3907.7	5693.0	9738.0	12605.6	12576.3	5158.3	1278.1	668.4	434.0	128.2
80°	1146.3	1289.1	2179.1	4629.1	6998.7	7075.6	1981.3	617.1	463.3	338.8	65.9
82.5°	346.1	353.4	800.2	2047.2	3481.0	3281.4	743.4	315.0	333.3	269.2	38.5
85°	60.4	75.1	236.2	721.5	1327.6	1007.1	186.8	150.2	219.7	177.6	22.0
87.5°	3.7	5.5	78.7	82.4	117.2	67.8	33.0	22.0	47.6	47.6	12.8
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°	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3	3836.3
2.5°	3849.1	3860.1	3852.7	3836.3	3808.8	3775.8	3731.9	3695.3	3664.1	3647.6	3667.8
5°	3872.9	3887.5	3850.9	3768.5	3644.0	3508.5	3354.7	3235.6	3142.3	3113.0	3102.0
7.5°	3909.5	3918.7	3819.8	3636.7	3373.0	3052.5	2772.4	2536.1	2353.0	2298.1	2217.5
10°	3957.1	3951.6	3764.8	3424.2	2961.0	2479.4	2045.4	1723.1	1479.6	1391.7	1384.3
12.5°	4030.4	4001.1	3695.3	3134.9	2470.2	1840.3	1303.8	1019.9	866.1	814.9	803.9
15°	4121.9	4052.3	3585.4	2796.2	1891.6	1188.4	803.9	717.8	697.7	694.0	690.3
17.5°	4230.0	4120.1	3440.7	2380.5	1329.4	770.9	672.0	670.2	672.0	668.4	666.5
20°	4376.4	4191.5	3268.6	1887.9	879.0	650.1	640.9	640.9	642.7	640.9	640.9
22.5°	4532.1	4275.7	3056.2	1441.1	662.9	617.1	615.3	618.9	622.6	620.8	620.8
25°	4724.4	4385.6	2776.0	987.0	593.3	589.6	591.5	598.8	606.1	607.9	606.1
27.5°	5002.7	4521.1	2475.7	679.4	543.9	547.5	565.8	584.1	595.1	597.0	597.0
30°	5315.8	4671.3	2083.8	551.2	503.6	503.6	525.5	560.3	584.1	587.8	589.6
32.5°	5718.7	4845.2	1649.9	496.2	465.1	461.4	481.6	523.7	567.7	580.5	580.5
35°	6216.7	5050.3	1226.9	461.4	437.6	428.5	439.5	474.3	531.0	567.7	571.3
37.5°	6800.9	5244.4	897.3	430.3	412.0	399.2	406.5	434.0	479.8	534.7	549.3
40°	7341.1	5416.5	670.2	404.7	386.4	377.2	382.7	395.5	434.0	485.3	494.4
42.5°	7930.7	5550.2	532.9	377.2	360.7	357.1	357.1	362.6	388.2	417.5	419.3
45°	8518.5	5597.8	446.8	344.3	333.3	336.9	335.1	331.4	342.4	338.8	338.8
47.5°	8937.8	5541.1	369.9	313.1	313.1	318.6	309.5	296.6	291.2	269.2	271.0
50°	9225.3	5334.1	304.0	276.5	291.2	298.5	280.2	260.0	239.9	216.1	210.6
52.5°	9344.4	4966.1	249.0	228.9	258.2	267.3	245.4	221.6	190.4	170.3	164.8
55°	9267.4	4512.0	206.9	186.8	217.9	228.9	206.9	179.5	144.7	122.7	119.0
57.5°	8928.7	3969.9	175.8	148.3	174.0	181.3	166.6	137.3	102.5	80.6	80.6
60°	8342.7	3409.6	142.8	117.2	130.0	141.0	126.3	98.9	69.6	49.4	45.8
62.5°	7154.3	2768.7	115.4	91.6	91.6	100.7	87.9	71.4	43.9	25.6	23.8
65°	5165.7	1898.9	91.6	67.8	65.9	65.9	54.9	47.6	25.6	11.0	7.3
67.5°	2807.2	1071.2	73.2	51.3	45.8	43.9	34.8	27.5	11.0	1.8	0.0
70°	1104.2	412.0	56.8	34.8	29.3	27.5	18.3	12.8	7.3	0.0	0.0
71°	748.9	283.8	49.4	29.3	23.8	20.1	14.6	11.0	5.5	0.0	0.0
72.5°	428.5	175.8	38.5	22.0	18.3	14.6	11.0	7.3	5.5	0.0	0.0
75°	186.8	89.7	23.8	16.5	12.8	9.2	7.3	5.5	1.8	0.0	0.0
77.5°	95.2	49.4	16.5	12.8	7.3	5.5	3.7	1.8	0.0	0.0	0.0
80°	53.1	25.6	11.0	7.3	5.5	3.7	1.8	1.8	0.0	0.0	0.0
82.5°	29.3	14.6	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.7	0.0	0.0	0.0	0.0	1.8	1.8	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)