

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: P454331

Luminaire Tested: **GALN-SA5B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17729 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 204
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

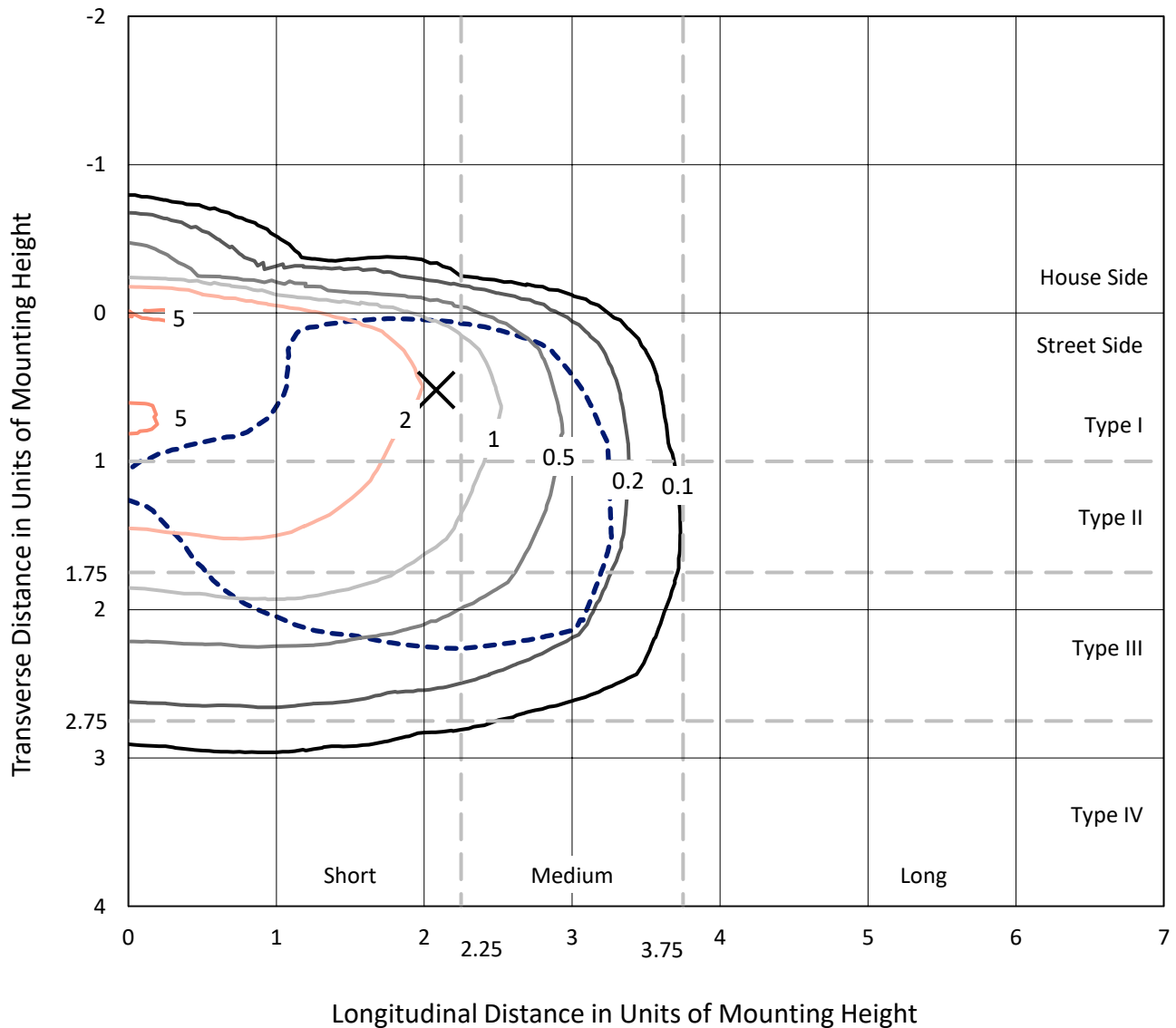


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

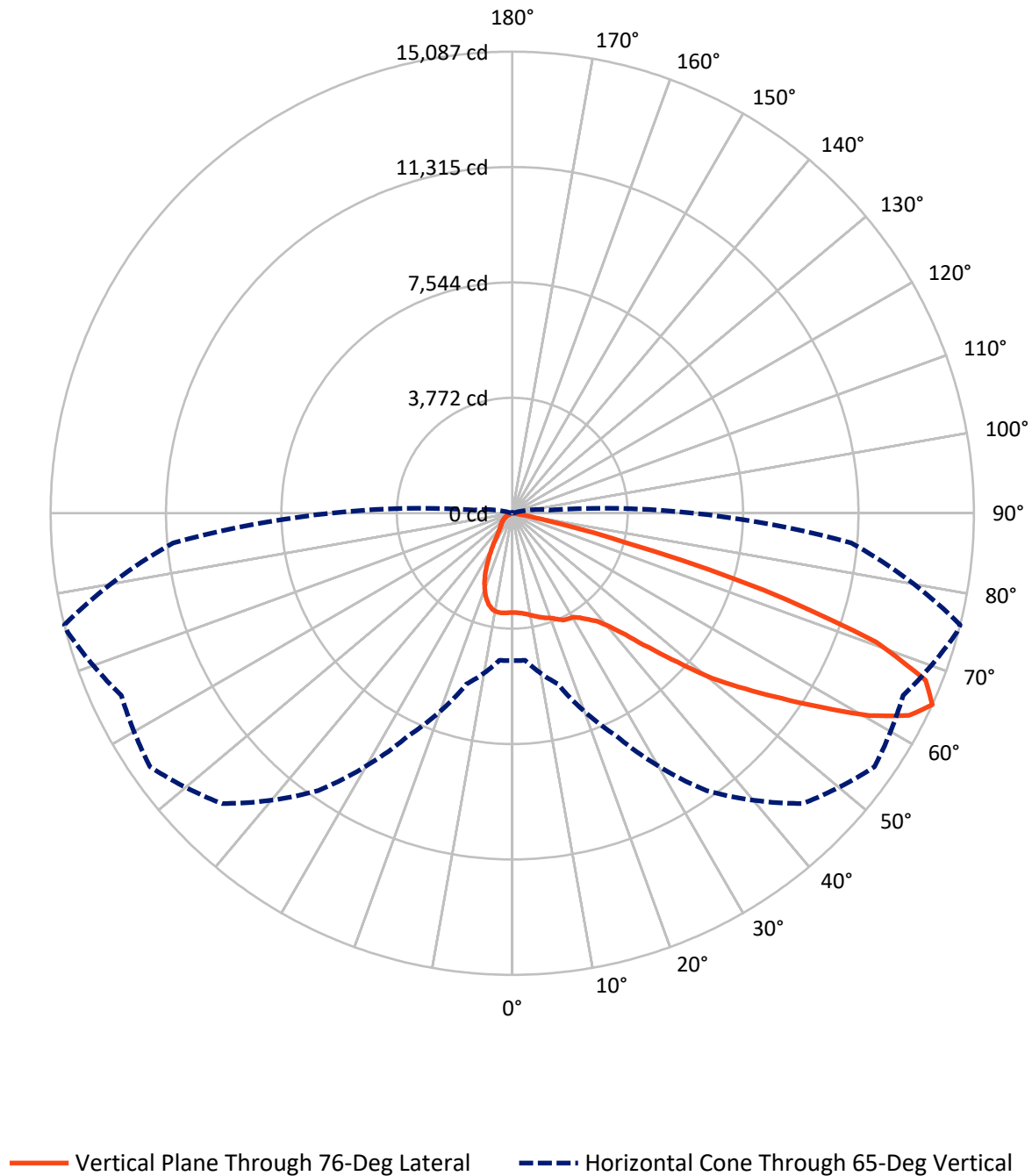


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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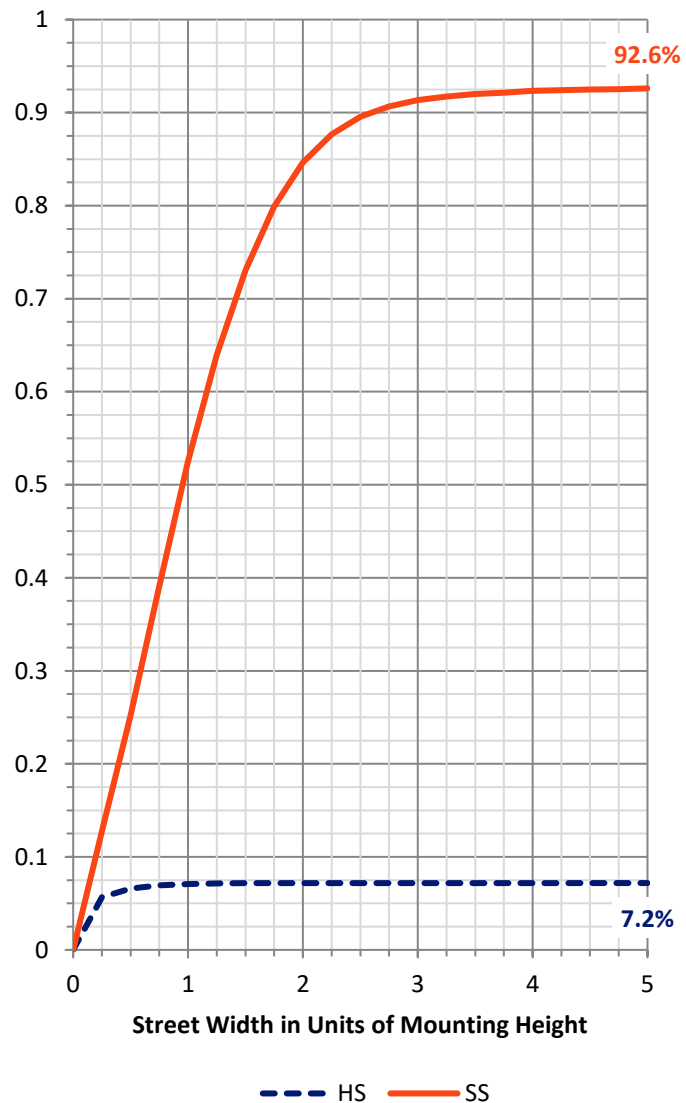
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1280.4	0.0	1280.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16448.6	0.0	16448.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	17729.0	0.0	17729.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.5
10°-20°	594.9	3.4
20°-30°	958.6	5.4
30°-40°	1666.7	9.4
40°-50°	2754.1	15.5
50°-60°	4254.6	24.0
60°-70°	5195.4	29.3
70°-80°	1971.8	11.1
80°-90°	65.8	0.4
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°	17729.0	100.0
0°-180°	17729.0	100.0



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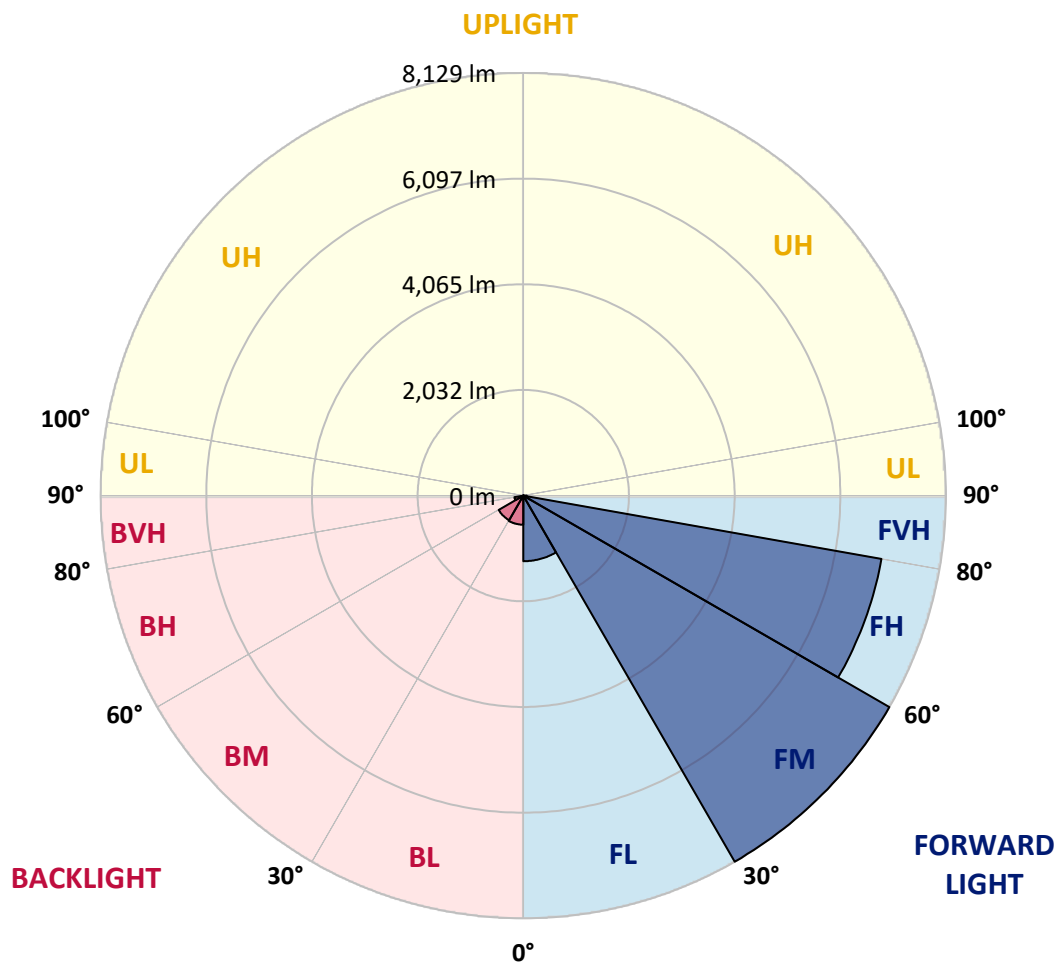
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1261.2	7.1			
FM	(30°-60°)	8129.0	45.9			
FH	(60°-80°)	6993.5	39.4			G3/7500
FVH	(80°-90°)	64.9	0.4			G1/100
BL	(0°-30°)	559.4	3.2	B2/1000		
BM	(30°-60°)	546.4	3.1	B1/1000		
BH	(60°-80°)	173.7	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2
2.5°	3099.3	3100.5	3108.0	3126.8	3155.6	3179.4	3199.4	3231.9	3254.5	3257.0	3264.5
5°	2885.2	2870.2	2885.2	2934.0	2977.8	3044.2	3125.5	3206.9	3279.5	3284.5	3319.6
7.5°	2644.9	2657.4	2681.2	2731.2	2813.9	2915.2	3032.9	3178.1	3315.8	3328.3	3397.2
10°	2400.8	2428.3	2467.1	2543.5	2658.6	2790.1	2950.3	3158.1	3373.4	3390.9	3509.8
12.5°	2175.5	2188.0	2235.6	2338.2	2480.9	2666.2	2887.7	3146.8	3437.2	3458.5	3630.0
15°	2002.7	2019.0	2060.3	2153.0	2311.9	2549.7	2836.4	3143.1	3499.8	3529.8	3750.1
17.5°	1970.2	1980.2	1997.7	2060.3	2199.3	2457.1	2790.1	3141.8	3559.9	3596.2	3861.5
20°	2104.1	2095.4	2077.9	2071.6	2147.9	2385.8	2756.3	3151.8	3617.5	3658.8	3979.2
22.5°	2439.6	2450.9	2348.2	2226.8	2201.8	2374.5	2751.3	3199.4	3708.8	3757.7	4110.6
25°	3151.8	3065.5	2905.2	2614.8	2395.8	2443.4	2807.6	3312.0	3815.2	3869.1	4229.6
27.5°	3939.2	3912.9	3663.8	3185.6	2777.6	2588.6	2907.7	3398.4	3850.3	3905.4	4297.1
30°	4712.7	4744.0	4458.6	3930.4	3332.1	2857.7	3001.6	3431.0	3881.6	3939.2	4383.5
32.5°	5430.0	5467.5	5217.2	4693.9	3985.5	3323.3	3163.1	3557.4	4013.0	4071.8	4527.5
35°	5994.5	5999.5	5810.5	5393.7	4698.9	3889.1	3512.3	3778.9	4190.8	4259.6	4680.2
37.5°	6512.7	6505.2	6283.6	5924.4	5293.5	4451.1	3951.7	4034.3	4393.5	4464.9	4900.5
40°	6897.0	6902.0	6830.6	6492.7	5848.0	4970.6	4299.6	4273.4	4734.0	4845.4	5220.9
42.5°	7153.6	7199.9	7234.9	7063.4	6545.2	5610.2	4834.1	4785.3	5324.8	5417.4	5674.0
45°	7361.4	7444.0	7619.2	7610.4	7214.9	6395.0	5567.6	5467.5	6162.2	6261.1	6251.1
47.5°	7512.8	7596.7	7887.1	8062.3	7844.5	7156.1	6490.2	6403.8	7162.3	7270.0	6888.2
50°	7590.4	7690.6	8061.1	8400.3	8336.4	7889.6	7541.6	7546.6	8370.2	8474.1	7626.7
52.5°	7408.9	7539.1	8153.7	8764.5	8888.4	8591.8	8526.7	8691.9	9445.5	9534.3	8293.9
55°	6829.4	6993.3	8027.3	9075.0	9528.1	9420.4	9645.7	9897.3	10620.8	10678.4	8978.6
57.5°	6462.6	6636.6	7654.3	9339.1	10296.6	10461.9	10818.6	11002.6	11833.7	11980.2	9764.6
60°	6153.4	6289.9	7347.6	9395.4	11077.7	11736.1	12082.8	12273.1	13330.8	13425.9	10629.6
62.5°	5639.0	5795.5	6829.4	9002.4	11470.7	12756.3	13474.7	13389.6	14488.6	14555.0	11160.3
65°	4811.6	4825.4	5777.9	8014.7	11065.2	13418.4	14452.3	14095.6	15041.9	15087.0	11119.0
67.5°	3591.2	3723.9	4444.8	6299.9	9346.6	12852.6	14769.0	14114.4	14692.7	14567.5	10236.5
70°	2313.2	2414.6	3012.9	4368.5	6739.2	10726.0	13718.8	13146.8	12895.2	12617.3	8379.0
72.5°	1067.7	1197.9	1790.0	2495.9	3996.7	7640.5	11136.5	10680.9	9281.5	8595.5	5326.1
75°	465.6	498.2	883.7	1316.8	1873.8	4040.5	7342.6	6630.3	4192.0	3829.0	2131.7
77.5°	284.1	305.4	463.1	706.0	736.0	1539.6	3955.4	2892.7	1295.5	1142.8	578.3
80°	192.8	216.5	336.7	369.3	251.6	429.3	1484.5	772.3	261.6	250.3	123.9
82.5°	93.9	118.9	249.1	206.5	108.9	137.7	431.8	165.2	76.4	71.3	43.8
85°	13.8	23.8	140.2	135.2	48.8	32.5	76.4	41.3	26.3	25.0	20.0
87.5°	0.0	0.0	47.6	21.3	5.0	5.0	8.8	8.8	10.0	8.8	10.0
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°	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2	3243.2
2.5°	3268.2	3274.5	3250.7	3216.9	3180.6	3144.3	3093.0	3046.7	3019.1	3035.4	2995.4
5°	3327.1	3322.1	3259.5	3156.8	3020.4	2856.4	2693.7	2554.8	2509.7	2442.1	2434.6
7.5°	3408.4	3394.7	3262.0	3026.7	2718.7	2410.8	2110.4	1911.4	1797.5	1701.1	1703.6
10°	3522.3	3482.3	3233.2	2797.6	2290.6	1826.3	1443.2	1180.4	1066.5	1030.2	1001.4
12.5°	3640.0	3562.4	3153.1	2488.4	1783.7	1248.0	877.5	717.2	647.1	624.6	622.1
15°	3745.1	3622.5	3012.9	2116.7	1296.8	797.3	598.3	545.7	537.0	538.2	537.0
17.5°	3849.0	3670.0	2818.9	1722.4	881.2	572.0	514.5	501.9	505.7	510.7	509.4
20°	3935.4	3680.0	2571.0	1314.3	623.4	501.9	483.2	480.7	484.4	488.2	488.2
22.5°	4029.3	3687.6	2276.9	910.0	509.4	466.9	456.9	456.9	461.9	466.9	468.1
25°	4099.4	3646.3	1925.1	653.4	449.4	433.1	428.1	429.3	434.3	436.8	435.6
27.5°	4110.6	3529.8	1552.1	500.7	408.1	391.8	386.8	391.8	385.5	389.3	386.8
30°	4120.7	3382.1	1174.1	421.8	370.5	345.5	338.0	330.5	325.4	319.2	317.9
32.5°	4151.9	3208.2	857.4	379.3	335.5	307.9	290.4	269.1	252.8	247.8	246.6
35°	4165.7	2999.1	629.6	345.5	304.2	274.1	242.8	212.8	189.0	180.2	186.5
37.5°	4218.3	2796.3	488.2	320.4	276.6	239.1	199.0	161.5	138.9	133.9	136.4
40°	4325.9	2576.0	409.3	299.2	252.8	206.5	157.7	121.4	106.4	101.4	100.1
42.5°	4498.7	2357.0	364.2	279.1	229.1	174.0	123.9	95.1	82.6	78.9	78.9
45°	4709.0	2146.7	333.0	257.9	204.0	140.2	97.6	76.4	68.8	66.3	66.3
47.5°	4985.6	1962.7	306.7	236.6	176.5	111.4	78.9	66.3	61.3	62.6	63.8
50°	5266.0	1826.3	277.9	212.8	145.2	91.4	67.6	58.8	57.6	58.8	58.8
52.5°	5477.5	1746.1	239.1	180.2	113.9	76.4	60.1	55.1	53.8	51.3	51.3
55°	5762.9	1728.6	190.3	146.5	90.1	63.8	53.8	50.1	46.3	43.8	42.6
57.5°	6129.7	1748.6	146.5	113.9	70.1	52.6	47.6	41.3	36.3	31.3	31.3
60°	6357.5	1703.6	113.9	87.6	51.3	42.6	36.3	30.0	23.8	20.0	18.8
62.5°	6284.9	1513.3	90.1	65.1	36.3	31.3	23.8	20.0	13.8	10.0	8.8
65°	5910.6	1221.7	72.6	45.1	26.3	18.8	12.5	12.5	6.3	1.3	0.0
67.5°	5173.3	905.0	57.6	30.0	15.0	8.8	6.3	3.8	0.0	0.0	0.0
70°	4210.8	653.4	45.1	18.8	8.8	6.3	2.5	1.3	0.0	0.0	0.0
72.5°	2673.7	374.3	35.0	11.3	6.3	2.5	0.0	0.0	0.0	0.0	0.0
75°	1033.9	146.5	23.8	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	292.9	68.8	13.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.4	30.0	7.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	1.3	0.0	0.0	0.0	0.0	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)