

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: P455246

Luminaire Tested: **GALN-SA6B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22056 lumens
Efficiency: N/A
Efficacy: 90.8 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): 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

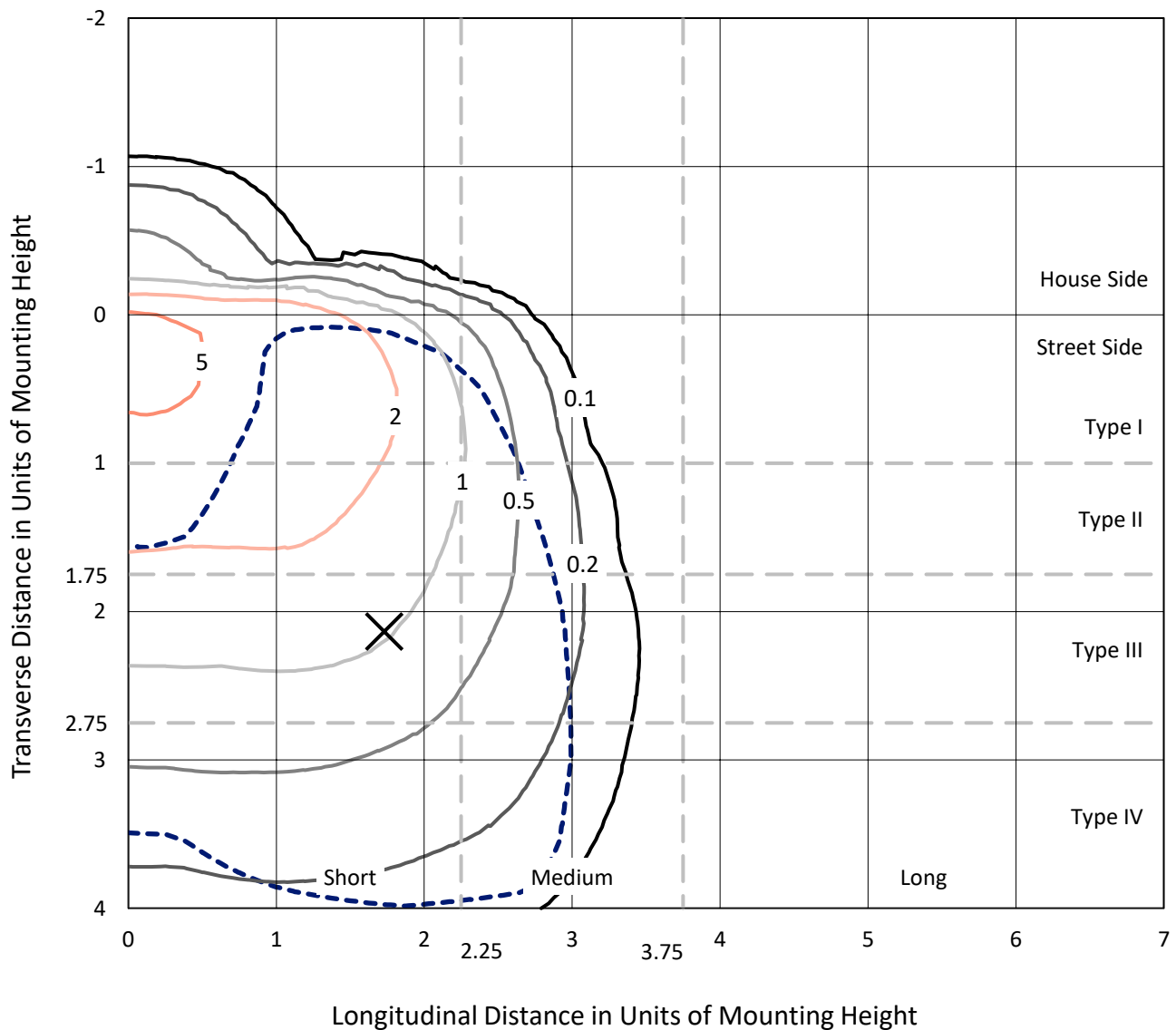


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Iso-Footcandle Lines of Horizontal Illumination

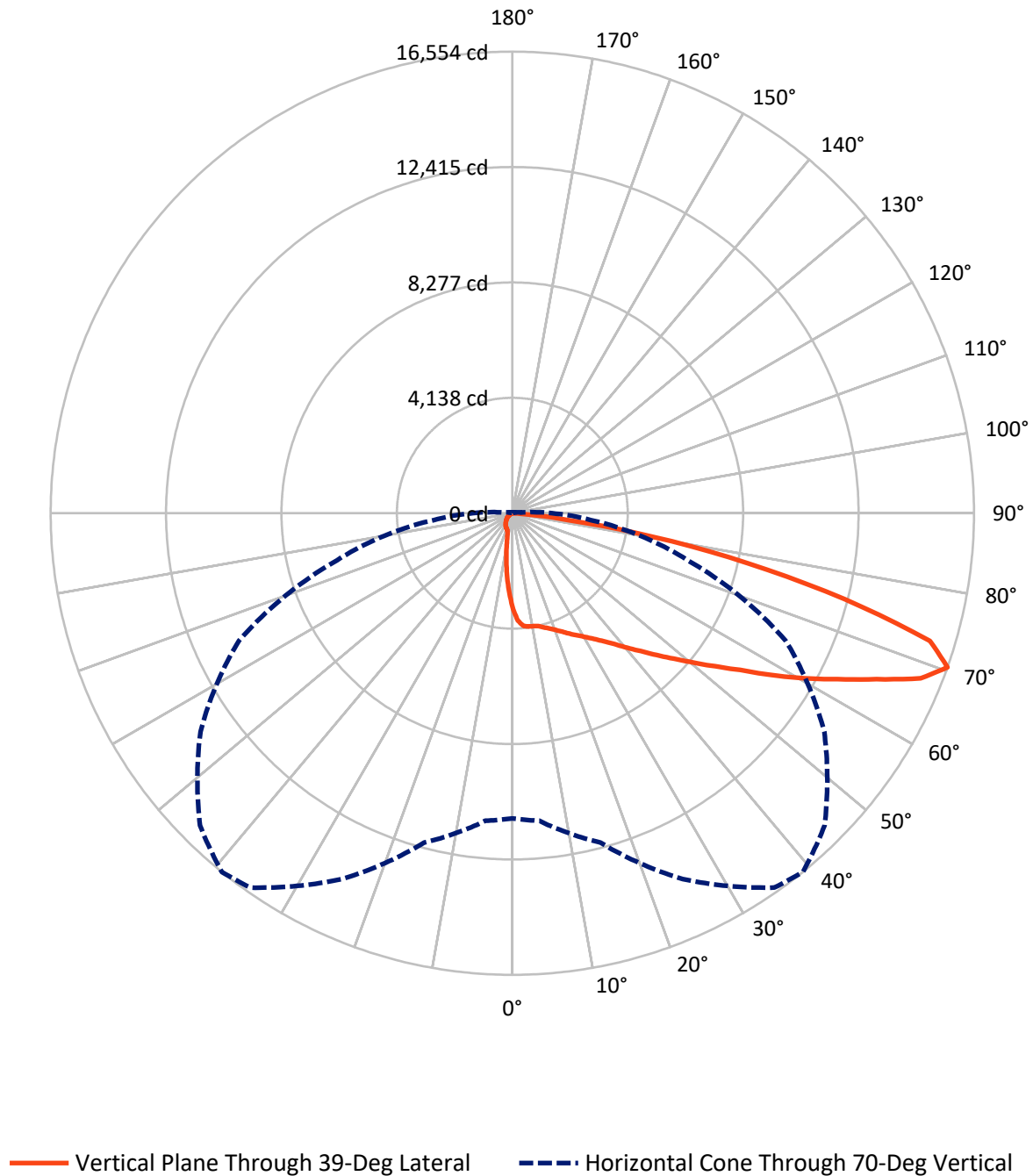
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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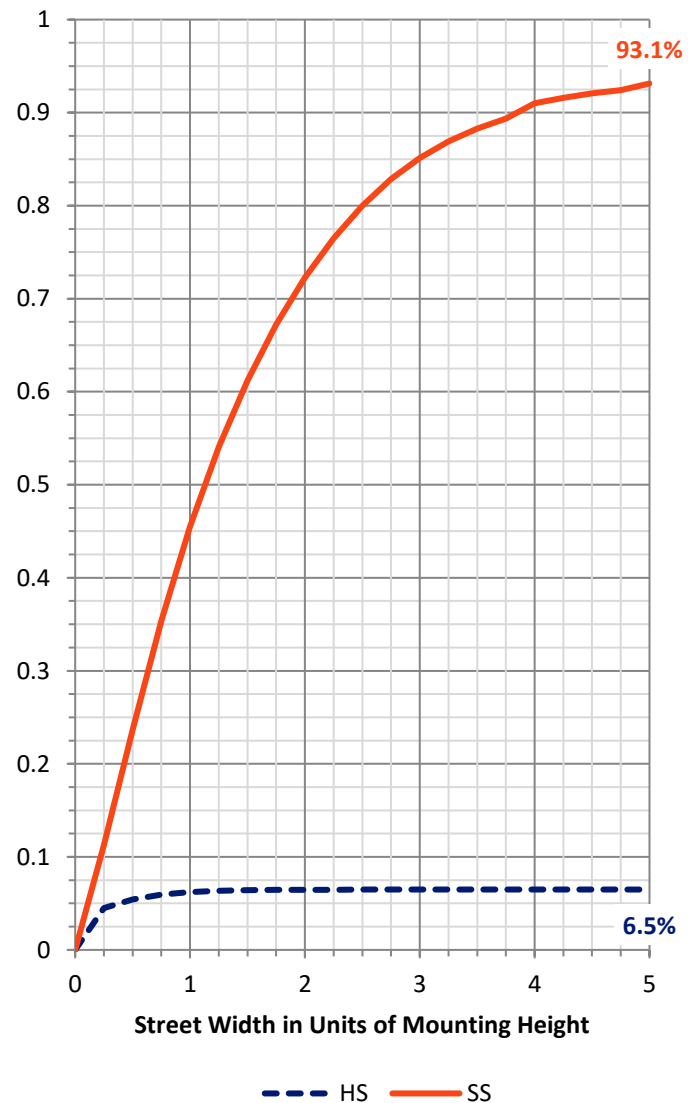
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1438.2	0.0	1438.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	20617.8	0.0	20617.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	22056.0	0.0	22056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.3
10°-20°	762.8	3.5
20°-30°	1277.9	5.8
30°-40°	1981.9	9.0
40°-50°	3140.7	14.2
50°-60°	4603.8	20.9
60°-70°	5901.0	26.8
70°-80°	3708.0	16.8
80°-90°	386.3	1.8
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°	22056.0	100.0
0°-180°	22056.0	100.0

Coefficient of Utilization



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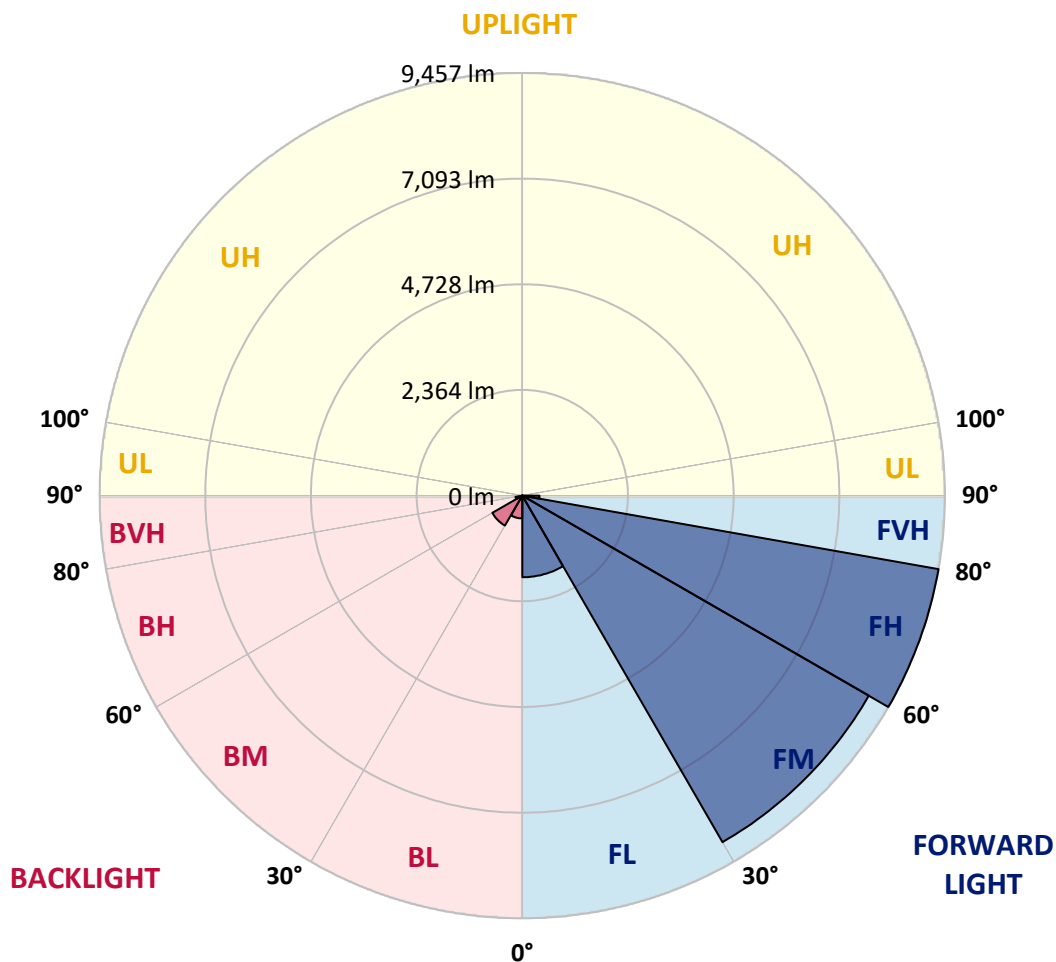
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.0	8.3			
FM	(30°-60°)	8952.5	40.6			
FH	(60°-80°)	9456.9	42.9			G4/12000
FVH	(80°-90°)	383.4	1.7			G3/500
BL	(0°-30°)	509.2	2.3	B2/1000		
BM	(30°-60°)	774.0	3.5	B1/1000		
BH	(60°-80°)	152.1	0.7	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	35°	39°	45°	55°	65°	75°	85°
0°	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5
2.5°	3976.5	3963.2	3945.4	3924.7	3865.4	3855.0	3819.4	3743.8	3653.4	3579.3	3477.1
5°	4164.8	4172.2	4158.8	4121.8	4078.8	4053.6	4009.1	3892.1	3775.0	3625.3	3457.8
7.5°	4207.8	4222.6	4206.3	4170.7	4129.2	4102.5	4066.9	3966.2	3829.8	3659.4	3429.6
10°	4203.3	4221.1	4210.7	4178.1	4144.0	4118.8	4080.3	4000.3	3890.6	3711.2	3438.5
12.5°	4195.9	4219.6	4218.1	4201.8	4173.7	4154.4	4130.7	4059.5	3957.3	3786.8	3487.4
15°	4175.1	4204.8	4231.5	4244.8	4246.3	4246.3	4216.6	4141.1	4043.2	3886.1	3551.2
17.5°	4184.0	4218.1	4284.8	4323.4	4350.0	4347.1	4315.9	4234.4	4126.2	3988.4	3617.9
20°	4238.9	4284.8	4378.2	4455.3	4481.9	4473.1	4431.6	4336.7	4213.7	4075.8	3683.1
22.5°	4373.7	4415.2	4532.3	4622.7	4642.0	4618.3	4559.0	4430.1	4318.9	4170.7	3761.6
25°	4575.3	4624.2	4732.4	4800.6	4800.6	4787.3	4704.3	4553.1	4437.5	4302.6	3863.9
27.5°	4819.9	4861.4	4968.1	5028.8	4993.3	4954.7	4871.7	4689.4	4578.3	4468.6	3986.9
30°	5067.4	5094.1	5206.7	5233.4	5196.3	5147.4	5058.5	4876.2	4778.4	4693.9	4164.8
32.5°	5301.6	5359.4	5452.7	5446.8	5396.4	5372.7	5291.2	5097.0	5042.2	5033.3	4413.8
35°	5535.7	5580.2	5663.2	5683.9	5639.5	5635.0	5575.8	5432.0	5433.5	5491.3	4802.1
37.5°	5737.3	5777.3	5875.1	5921.1	5930.0	5952.2	5928.5	5833.6	5968.5	6127.1	5316.4
40°	5906.3	5962.6	6087.1	6167.1	6259.0	6340.5	6345.0	6365.7	6637.0	6909.7	5987.8
42.5°	6038.2	6116.7	6297.5	6445.8	6656.2	6760.0	6843.0	6957.1	7413.6	7821.2	6779.2
45°	6210.1	6300.5	6525.8	6758.5	7087.5	7258.0	7373.6	7678.9	8326.6	8882.4	7591.4
47.5°	6494.7	6542.1	6771.8	7111.2	7544.0	7787.1	8012.4	8474.8	9306.3	9804.3	8267.3
50°	6860.8	6891.9	7065.3	7536.6	8096.8	8417.0	8827.5	9371.5	10323.0	10569.0	8649.7
52.5°	7265.4	7275.7	7406.2	8005.0	8716.4	9119.5	9579.0	10250.4	11151.5	11114.4	8903.1
55°	7735.2	7720.4	7831.5	8513.3	9450.0	9911.0	10446.0	11150.0	11870.3	11501.3	9048.4
57.5°	8273.2	8233.2	8341.4	9187.7	10389.7	10941.0	11485.0	11926.7	12427.6	11825.9	9118.0
60°	8836.4	8756.4	8885.3	9945.1	11496.8	12020.0	12472.1	12590.6	13014.5	12083.8	8998.0
62.5°	9285.5	9287.0	9527.1	10751.3	12635.1	13093.1	13333.2	13439.9	13519.9	12027.4	8366.6
65°	9986.6	10010.3	10394.1	11870.3	13952.7	14349.9	14514.4	14167.6	13542.2	11327.9	7418.0
67.5°	10709.8	10785.4	11487.9	13411.7	15474.9	15795.0	15583.1	14308.4	12937.5	9731.6	5624.7
70°	10945.5	11070.0	12227.5	14472.9	16387.8	16553.8	15836.5	13651.8	10815.1	6506.5	2830.9
72.5°	10029.5	10231.1	11802.2	14086.1	15805.4	15661.6	14169.1	11449.4	6875.6	2470.7	864.1
75°	7072.7	7161.6	9808.7	11685.1	12712.2	12304.6	10778.0	7381.0	2827.9	693.6	296.4
77.5°	3652.0	3609.0	5833.6	7753.0	9066.2	8643.7	7057.9	3820.9	1071.6	289.0	183.8
80°	1888.2	1919.4	2524.1	4062.5	5534.3	5092.6	3763.1	1771.1	570.6	160.1	140.8
82.5°	1058.2	993.0	1451.0	1774.1	2587.8	2029.0	1443.6	1253.9	249.0	96.3	133.4
85°	192.7	201.6	795.9	958.9	898.2	570.6	465.4	837.4	72.6	53.4	93.4
87.5°	3.0	3.0	154.1	275.7	174.9	80.0	146.7	120.1	14.8	20.7	16.3
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°	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5
2.5°	3425.2	3368.9	3263.6	3159.9	3028.0	2919.8	2847.2	2771.6	2694.5	2700.4	2718.2
5°	3365.9	3268.1	3060.6	2841.2	2630.8	2441.1	2254.3	2086.8	2018.7	1956.4	1959.4
7.5°	3306.6	3168.8	2864.9	2521.1	2202.4	1879.3	1645.2	1452.5	1350.2	1273.1	1250.9
10°	3279.9	3097.6	2685.6	2212.8	1760.8	1408.0	1107.1	950.0	828.5	790.0	800.3
12.5°	3291.8	3062.1	2524.1	1934.2	1396.2	981.2	770.7	690.7	664.0	659.5	656.6
15°	3314.0	3036.9	2365.5	1625.9	1025.6	729.2	647.7	632.9	629.9	626.9	628.4
17.5°	3343.7	3014.6	2196.5	1336.9	787.0	637.3	613.6	606.2	604.7	604.7	604.7
20°	3373.3	2989.4	2008.3	1079.0	656.6	601.7	586.9	582.5	581.0	581.0	579.5
22.5°	3407.4	2967.2	1817.1	847.8	604.7	576.5	563.2	560.2	558.8	557.3	557.3
25°	3456.3	2939.1	1614.0	693.6	572.1	552.8	539.5	536.5	535.0	529.1	530.6
27.5°	3521.5	2918.3	1405.1	598.8	542.5	523.2	514.3	509.9	506.9	502.4	503.9
30°	3610.5	2900.5	1182.7	546.9	508.4	492.1	483.2	480.2	477.2	472.8	472.8
32.5°	3764.6	2907.9	948.6	505.4	477.2	458.0	449.1	446.1	443.2	438.7	438.7
35°	3995.8	2950.9	758.8	469.8	440.2	420.9	412.0	412.0	407.6	401.7	400.2
37.5°	4373.7	3060.6	609.2	435.7	404.6	386.8	376.5	373.5	369.0	360.2	358.7
40°	4819.9	3231.0	512.8	401.7	372.0	354.2	345.3	336.4	324.6	315.7	314.2
42.5°	5380.1	3405.9	444.6	367.6	340.9	324.6	314.2	299.4	281.6	269.7	268.3
45°	5964.1	3566.0	398.7	336.4	311.2	297.9	286.0	262.3	240.1	225.3	223.8
47.5°	6399.8	3595.6	361.6	306.8	286.0	272.7	256.4	226.8	197.1	183.8	179.3
50°	6605.8	3451.9	323.1	277.2	260.9	246.0	225.3	191.2	158.6	142.3	139.3
52.5°	6678.5	3202.9	292.0	250.5	235.7	217.9	192.7	154.1	124.5	108.2	106.7
55°	6648.8	2888.7	263.8	225.3	206.0	185.3	160.1	123.0	91.9	78.6	75.6
57.5°	6493.2	2488.5	235.7	200.1	176.4	155.6	127.5	91.9	62.2	50.4	48.9
60°	6073.7	1943.1	207.5	171.9	149.7	127.5	100.8	65.2	38.5	28.2	28.2
62.5°	5365.3	1442.1	180.8	143.8	126.0	102.3	71.1	41.5	20.7	14.8	13.3
65°	4483.4	1064.2	151.2	121.5	105.2	80.0	50.4	25.2	10.4	4.4	3.0
67.5°	3128.8	656.6	126.0	99.3	86.0	57.8	31.1	10.4	4.4	0.0	0.0
70°	1421.4	312.7	96.3	75.6	65.2	41.5	16.3	5.9	3.0	0.0	0.0
72.5°	441.7	164.5	68.2	54.8	44.5	26.7	8.9	4.4	3.0	0.0	0.0
75°	204.5	105.2	43.0	29.6	25.2	13.3	5.9	3.0	1.5	0.0	0.0
77.5°	152.7	81.5	25.2	16.3	13.3	8.9	4.4	3.0	1.5	0.0	0.0
80°	133.4	41.5	14.8	10.4	7.4	5.9	3.0	1.5	0.0	0.0	0.0
82.5°	120.1	20.7	8.9	5.9	4.4	3.0	1.5	1.5	0.0	0.0	0.0
85°	65.2	11.9	5.9	4.4	3.0	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	11.9	5.9	4.4	3.0	3.0	1.5	1.5	1.5	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)