

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: P452455

Luminaire Tested: **GALN-SA3B-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11059 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 121
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

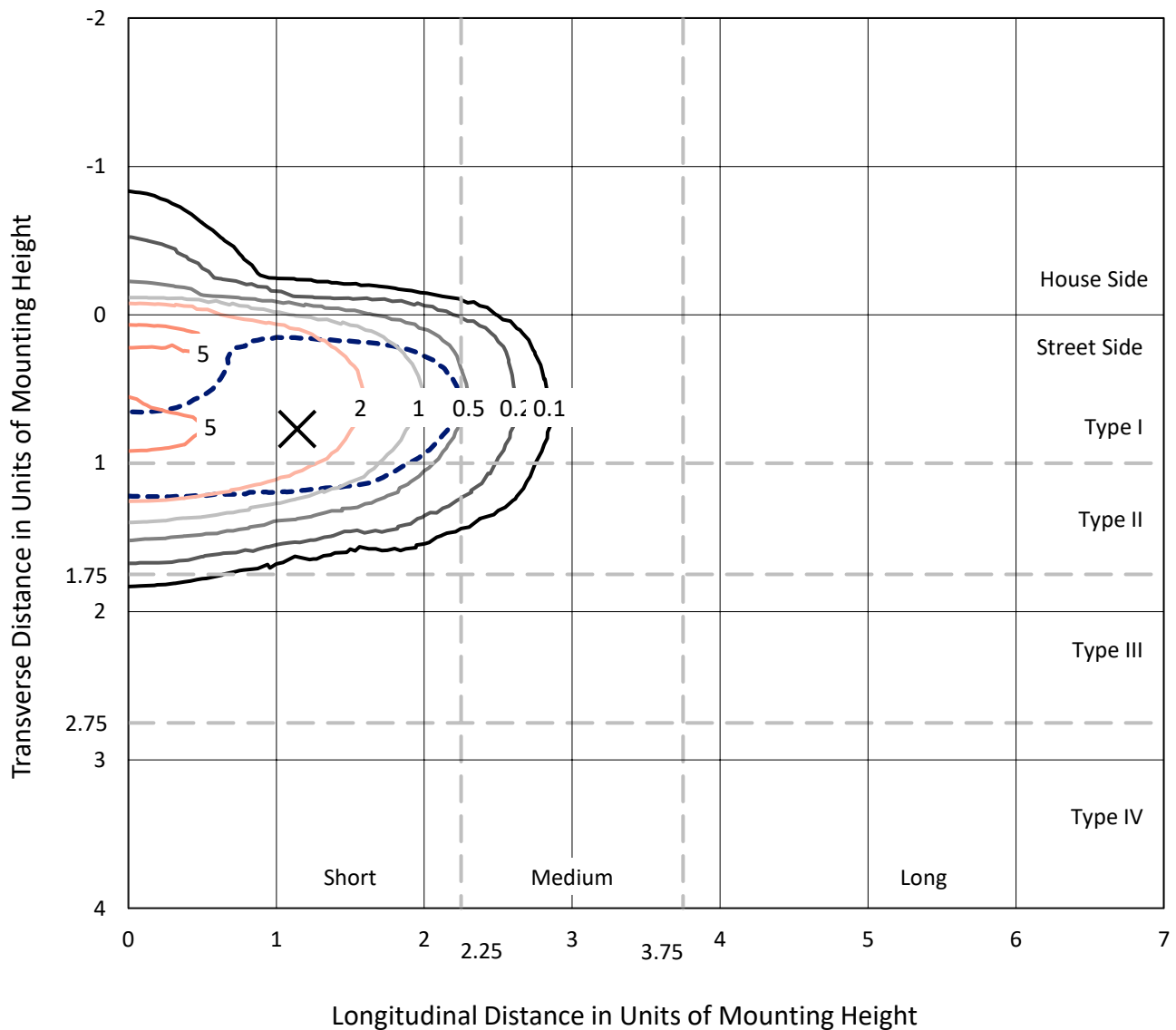


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Iso-Footcandle Lines of Horizontal Illumination

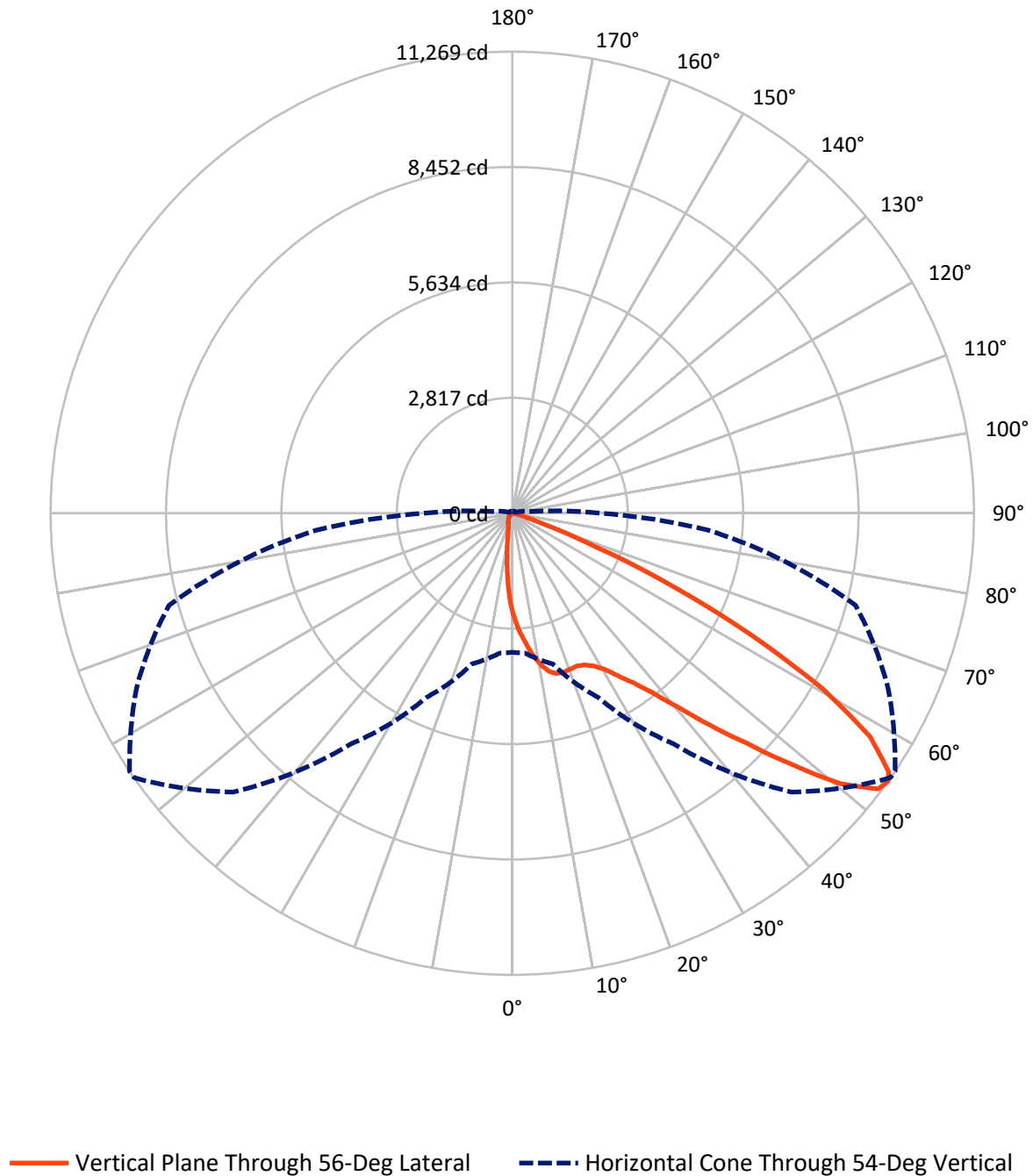
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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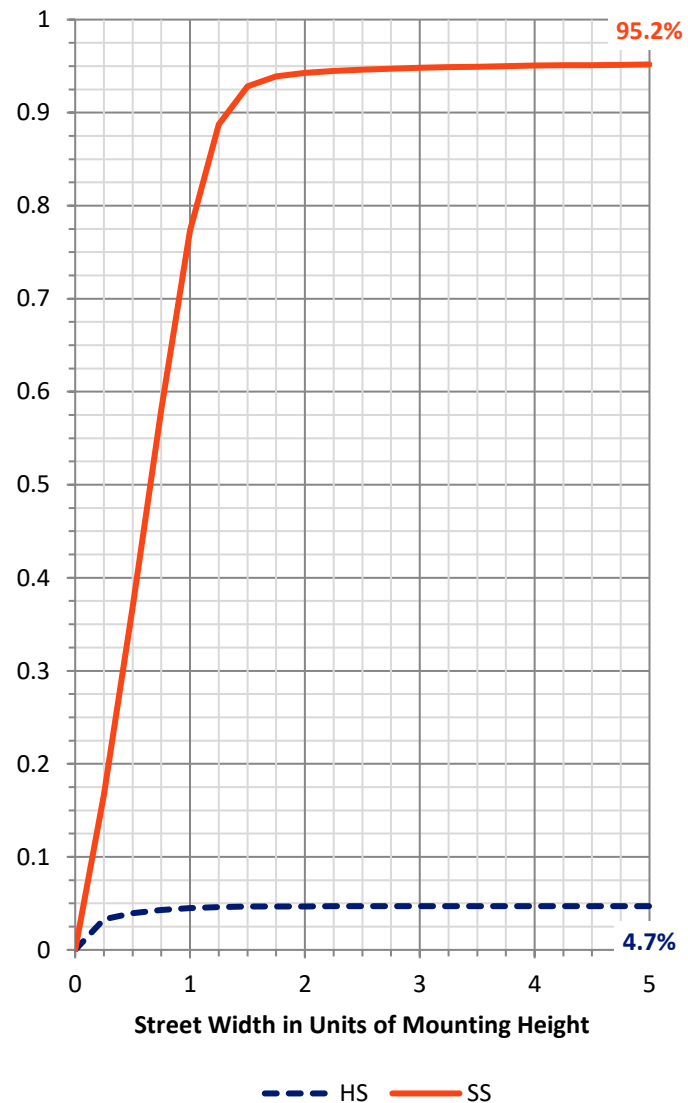
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.9	0.0	522.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10536.0	0.0	10536.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	11059.0	0.0	11059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	2.0
10°-20°	586.9	5.3
20°-30°	1016.5	9.2
30°-40°	1754.7	15.9
40°-50°	2986.5	27.0
50°-60°	2955.5	26.7
60°-70°	1349.0	12.2
70°-80°	173.2	1.6
80°-90°	19.5	0.2
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°	11059.0	100.0
0°-180°	11059.0	100.0

Coefficient of Utilization



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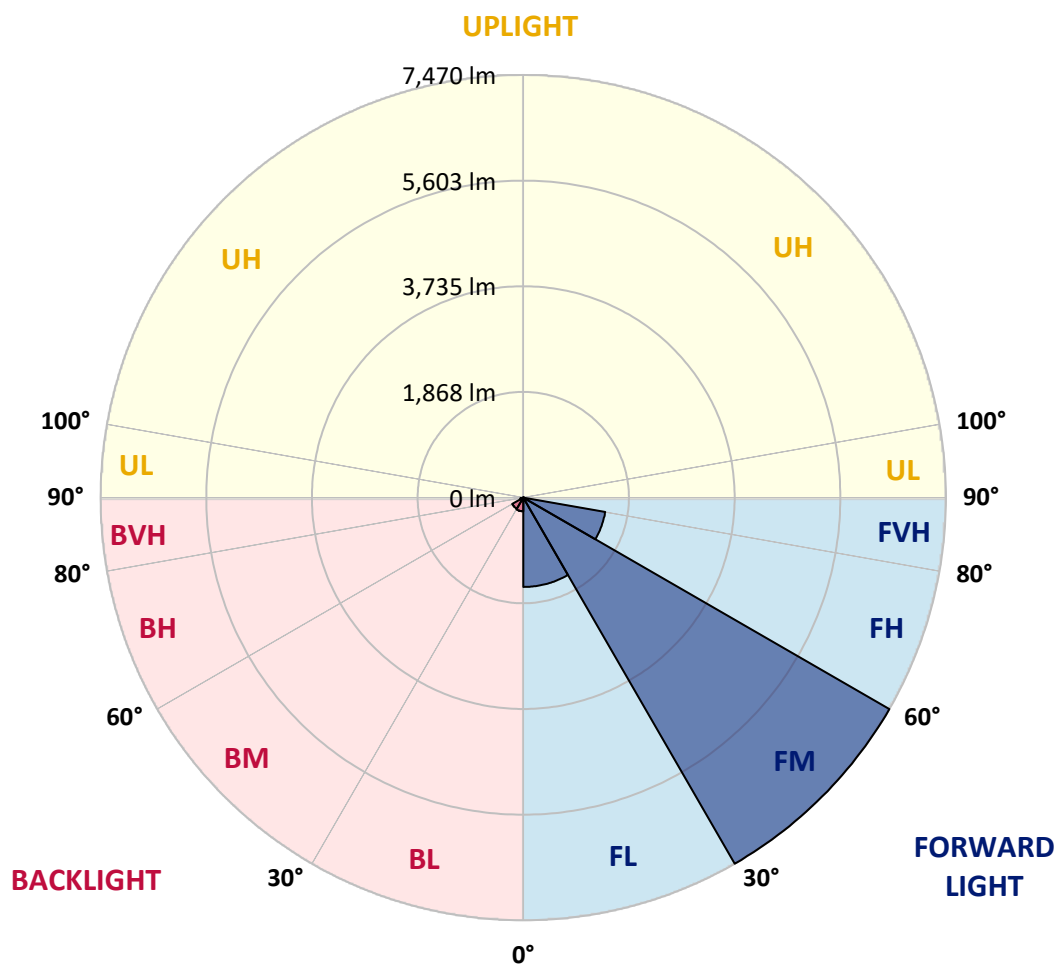
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.7	14.3			
FM	(30°-60°)	7470.1	67.5			
FH	(60°-80°)	1469.8	13.3			G1/1800
FVH	(80°-90°)	17.4	0.2			G1/100
BL	(0°-30°)	241.9	2.2	B1/500		
BM	(30°-60°)	226.6	2.0	B1/1000		
BH	(60°-80°)	52.4	0.5	B0/110		G0/110
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0
2.5°	3122.5	3100.9	3071.1	3047.9	2993.5	2915.1	2832.3	2832.3	2752.5	2641.3	2527.9
5°	3601.5	3587.4	3558.3	3498.6	3437.4	3327.7	3161.3	3132.2	2989.7	2788.3	2576.4
7.5°	3796.3	3803.0	3804.5	3788.8	3759.7	3651.5	3486.6	3466.5	3238.9	2968.8	2639.8
10°	3609.8	3642.6	3674.7	3739.6	3831.4	3857.5	3764.2	3743.3	3519.5	3151.6	2708.4
12.5°	3332.2	3350.1	3368.0	3470.2	3654.5	3865.7	3963.4	3962.7	3773.2	3333.7	2795.7
15°	3203.1	3218.8	3220.3	3265.8	3425.5	3732.9	4048.5	4059.7	4020.9	3558.3	2889.7
17.5°	3230.0	3242.7	3232.2	3243.4	3327.0	3586.6	4038.8	4076.1	4221.6	3773.9	2974.8
20°	3405.3	3429.9	3389.6	3358.3	3383.7	3547.8	4005.9	4058.2	4363.3	3984.3	3052.4
22.5°	3720.2	3733.6	3682.9	3597.1	3552.3	3629.2	3997.0	4048.5	4484.2	4156.7	3097.2
25°	4070.1	4065.6	4009.7	3913.4	3819.4	3793.3	4055.9	4102.2	4584.2	4311.9	3110.6
27.5°	4420.0	4433.5	4339.5	4220.1	4107.4	4039.5	4188.0	4222.3	4696.9	4488.7	3127.0
30°	4826.7	4805.0	4712.5	4576.0	4446.9	4352.2	4400.6	4410.3	4852.1	4723.0	3170.3
32.5°	5355.7	5296.0	5192.3	4953.5	4861.0	4700.6	4712.5	4724.5	5040.8	4955.0	3222.5
35°	6073.5	6070.5	5867.5	5546.0	5320.6	5121.4	5069.2	5078.9	5326.6	5299.7	3338.2
37.5°	6937.5	6949.4	6718.1	6394.3	5979.5	5663.1	5555.7	5557.1	5760.8	5775.8	3514.3
40°	7641.1	7672.4	7534.4	7315.8	6906.1	6411.5	6230.9	6214.5	6371.2	6352.5	3765.7
42.5°	7944.0	7973.1	8024.6	8100.7	7875.4	7467.2	7041.2	7063.6	7111.3	6980.8	4047.7
45°	7795.5	7841.8	8044.0	8514.0	8725.9	8588.7	8080.5	8002.2	7800.0	7663.5	4331.3
47.5°	7177.0	7289.6	7627.6	8410.3	9152.0	9616.1	9253.5	9149.7	8489.4	8161.9	4511.8
50°	6160.0	6166.7	6637.5	7638.1	8931.1	10264.5	10451.0	10373.4	9131.8	8441.7	4602.8
52.5°	4465.6	4612.5	5043.8	6202.5	7974.6	10166.0	11214.3	11182.2	9794.4	8584.9	4734.2
54°	3394.9	3423.2	3806.7	4956.5	6875.5	9625.0	11261.3	11268.7	10123.4	8671.5	4811.8
55°	2783.0	2715.2	3118.1	4222.3	6125.7	9146.8	11107.6	11143.4	10271.2	8716.2	4869.2
57.5°	1319.2	1319.9	1628.0	2227.2	3836.6	7102.4	10168.2	10295.0	10287.6	8793.1	5046.0
60°	667.8	672.3	740.2	1028.2	1895.2	4721.5	8407.3	8709.5	9495.9	8804.3	5104.2
62.5°	467.1	461.9	450.7	494.7	797.6	2399.5	6259.2	6521.9	8067.9	8378.2	4919.2
65°	399.9	388.7	357.4	350.7	402.9	955.8	3898.5	4326.8	6160.0	7254.6	4392.4
67.5°	341.7	337.2	308.9	291.7	285.0	416.3	2011.6	2236.9	4210.4	5214.7	3327.0
70°	290.2	288.0	270.8	249.2	230.6	249.2	746.1	924.4	2346.6	2807.7	1569.8
72.5°	235.8	238.0	241.0	213.4	194.0	176.8	318.6	370.8	981.9	1003.5	549.1
75°	206.7	204.4	204.4	185.8	161.9	131.3	175.3	188.8	300.7	279.1	127.6
77.5°	145.5	140.3	164.1	153.0	135.0	93.3	100.0	105.9	124.6	106.7	59.7
80°	100.7	100.7	105.2	137.3	121.6	67.9	61.2	65.7	73.9	63.4	34.3
82.5°	56.7	58.2	68.6	73.1	70.9	45.5	40.3	41.0	49.2	43.3	21.6
85°	6.7	11.2	39.5	38.8	29.1	20.1	22.4	23.1	30.6	26.9	12.7
87.5°	0.7	1.5	8.2	10.4	7.5	8.2	8.2	8.2	10.4	11.9	9.0
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°	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0	2457.0
2.5°	2466.7	2410.0	2274.9	2118.3	2018.3	1855.6	1718.3	1619.1	1594.5	1546.7	1560.9
5°	2463.7	2345.8	2070.5	1779.5	1469.1	1237.8	1065.5	929.7	870.0	830.4	802.8
7.5°	2465.2	2280.9	1839.2	1375.9	1005.0	778.2	618.5	535.7	480.5	457.4	460.4
10°	2469.7	2207.8	1570.6	1019.2	678.2	502.9	405.1	365.6	346.9	344.0	343.2
12.5°	2480.1	2128.0	1313.9	756.6	474.5	365.6	328.3	314.9	308.9	308.9	306.7
15°	2491.3	2039.9	1100.5	562.6	365.6	314.1	297.0	290.2	286.5	286.5	285.8
17.5°	2491.3	1938.4	901.3	436.5	314.9	288.8	275.3	266.4	263.4	263.4	262.6
20°	2475.6	1820.5	724.5	351.4	285.8	264.9	251.4	241.7	238.0	236.5	235.8
22.5°	2421.2	1663.1	576.8	302.2	261.9	244.0	226.8	215.6	212.6	211.2	211.9
25°	2324.2	1485.5	456.6	265.6	240.3	218.6	203.7	195.5	192.5	192.5	193.2
27.5°	2224.2	1299.8	361.9	238.0	214.1	194.7	182.8	177.6	176.8	179.1	179.8
30°	2131.7	1113.2	293.2	215.6	191.0	174.6	166.4	164.9	164.9	165.6	166.4
32.5°	2028.7	949.8	245.5	196.2	172.4	158.2	153.7	153.7	155.2	155.2	156.7
35°	1963.8	809.5	215.6	177.6	158.2	146.2	143.3	144.0	146.2	149.2	150.7
37.5°	1928.7	697.6	196.2	162.7	144.7	136.5	133.6	135.0	140.3	145.5	146.2
40°	1931.7	613.3	180.6	150.0	134.3	125.3	123.1	127.6	132.8	138.0	138.8
42.5°	1964.5	550.6	165.6	135.0	125.3	112.7	111.9	116.4	118.6	123.9	124.6
45°	2003.3	505.1	150.0	119.4	108.9	97.7	98.5	102.2	105.2	113.4	114.9
47.5°	2015.3	473.8	132.1	101.5	89.5	85.8	86.6	88.8	94.8	102.2	103.0
50°	2028.7	454.4	114.9	85.8	76.1	75.4	76.1	77.6	81.3	84.3	83.6
52.5°	2086.2	453.6	100.7	74.6	64.9	66.4	67.2	66.4	63.4	58.9	57.5
54°	2139.9	455.9	94.0	69.4	59.7	61.9	61.2	57.5	50.0	45.5	43.3
55°	2183.2	458.1	90.3	65.7	56.7	57.5	58.2	50.7	41.0	36.6	35.1
57.5°	2268.2	452.9	81.3	57.5	50.0	47.0	46.3	33.6	22.4	19.4	17.9
60°	2225.7	408.9	73.9	49.2	42.5	38.1	31.3	18.7	11.2	8.2	8.2
62.5°	2058.6	346.9	65.7	40.3	35.1	29.1	16.4	10.4	5.2	3.0	2.2
65°	1841.4	291.7	58.9	32.1	27.6	18.7	9.0	6.7	2.2	0.0	0.0
67.5°	1369.1	216.4	50.0	25.4	20.9	11.9	6.0	3.7	0.7	0.0	0.0
70°	634.2	132.1	42.5	19.4	14.9	9.0	4.5	2.2	0.0	0.0	0.0
72.5°	182.1	82.8	35.1	14.2	10.4	7.5	3.7	1.5	0.7	0.0	0.0
75°	63.4	66.4	26.1	10.4	8.2	5.2	3.0	1.5	0.7	0.0	0.0
77.5°	38.1	53.7	16.4	9.0	6.7	4.5	3.0	1.5	0.7	0.7	0.0
80°	21.6	35.8	10.4	7.5	6.0	3.7	2.2	1.5	0.7	0.7	0.0
82.5°	11.9	17.2	8.2	6.7	5.2	3.7	2.2	1.5	0.7	0.7	0.7
85°	9.7	9.0	6.7	6.0	4.5	3.0	2.2	0.7	0.0	0.0	0.0
87.5°	7.5	6.0	6.0	6.0	4.5	3.0	2.2	0.7	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)