

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: P452224

Luminaire Tested: **GALN-SA3A-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10954 lumens
Efficiency: N/A
Efficacy: 117.8 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): 93
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

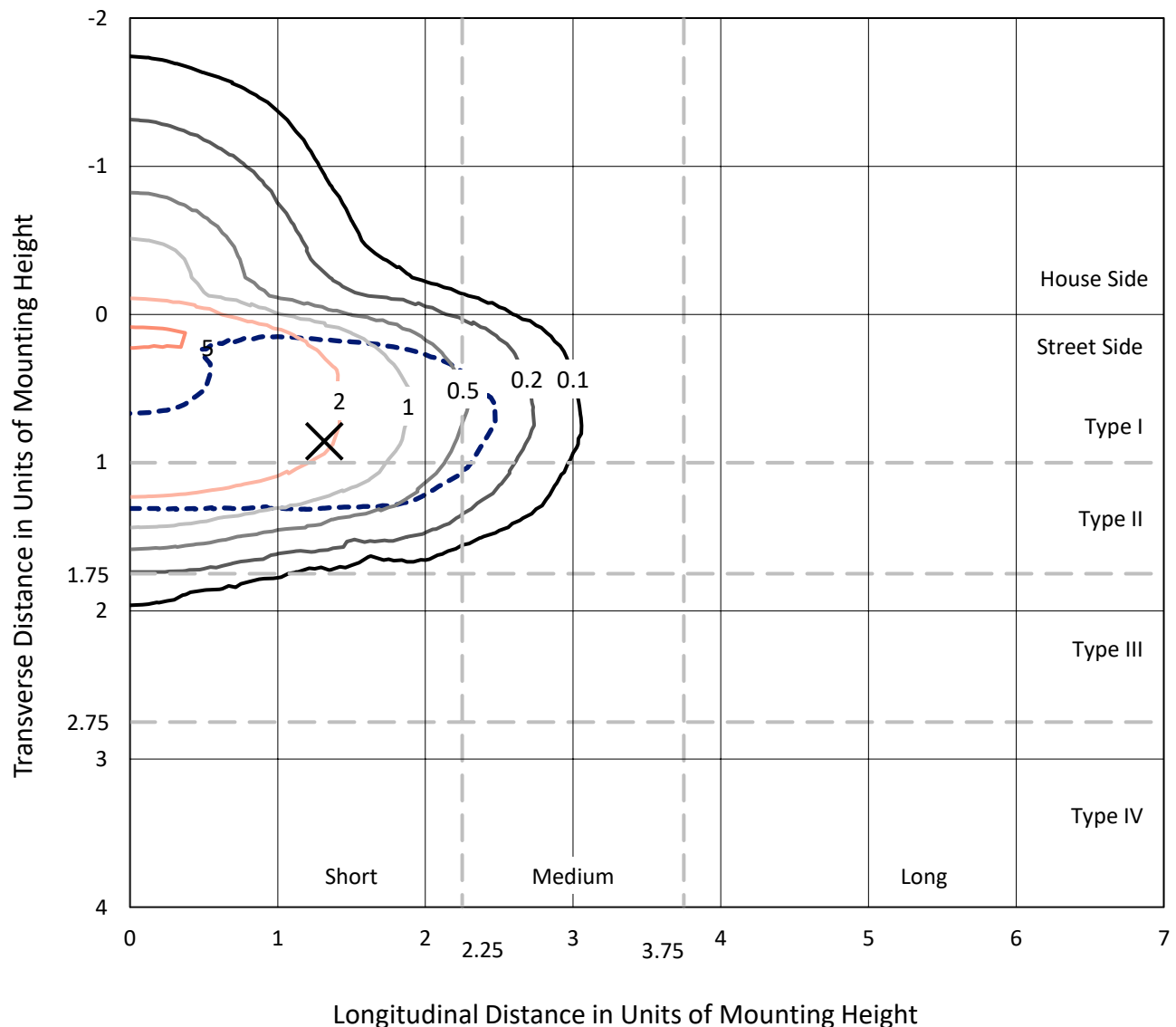


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

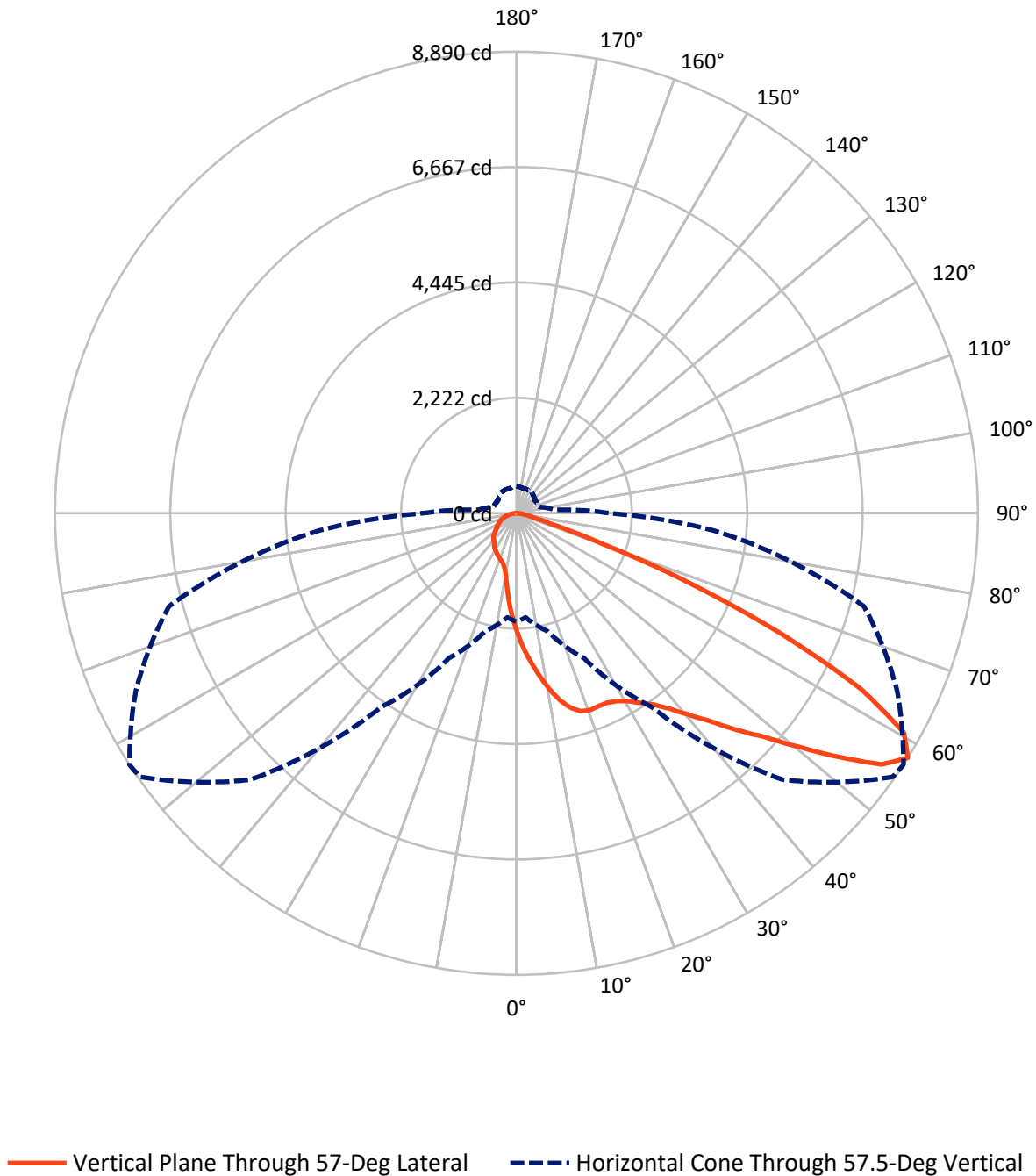


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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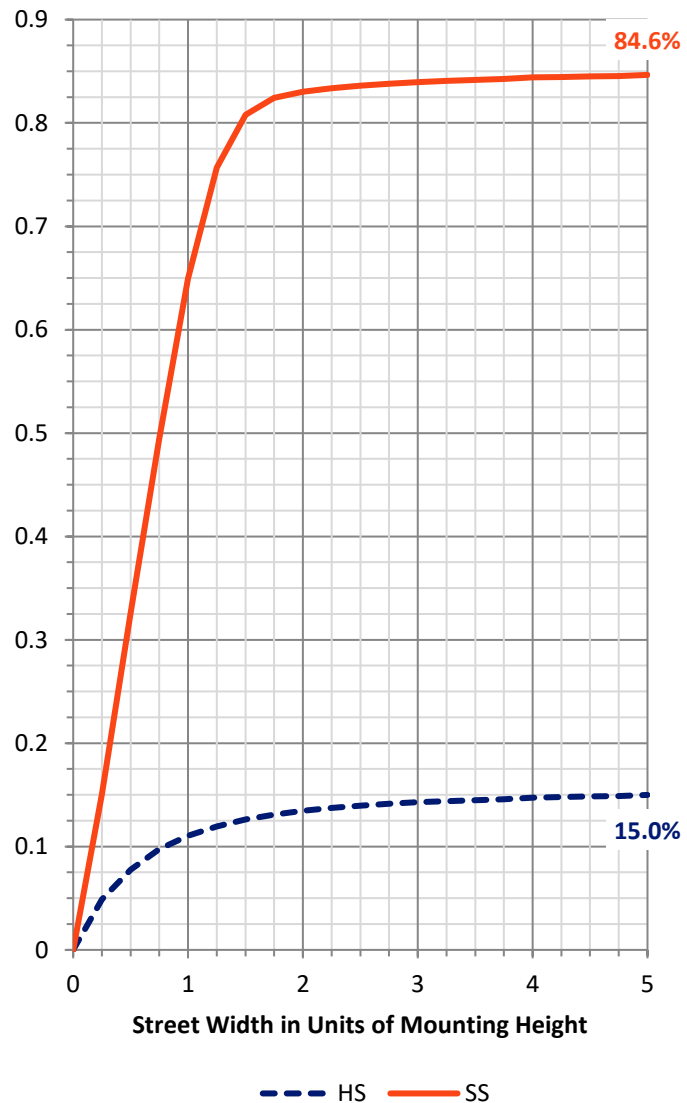
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.8	0.0	1665.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9288.2	0.0	9288.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	10954.0	0.0	10954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	2.0
10°-20°	651.8	6.0
20°-30°	1082.4	9.9
30°-40°	1630.4	14.9
40°-50°	2447.8	22.3
50°-60°	2743.7	25.0
60°-70°	1605.8	14.7
70°-80°	475.0	4.3
80°-90°	96.0	0.9
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°	10954.0	100.0
0°-180°	10954.0	100.0

Coefficient of Utilization



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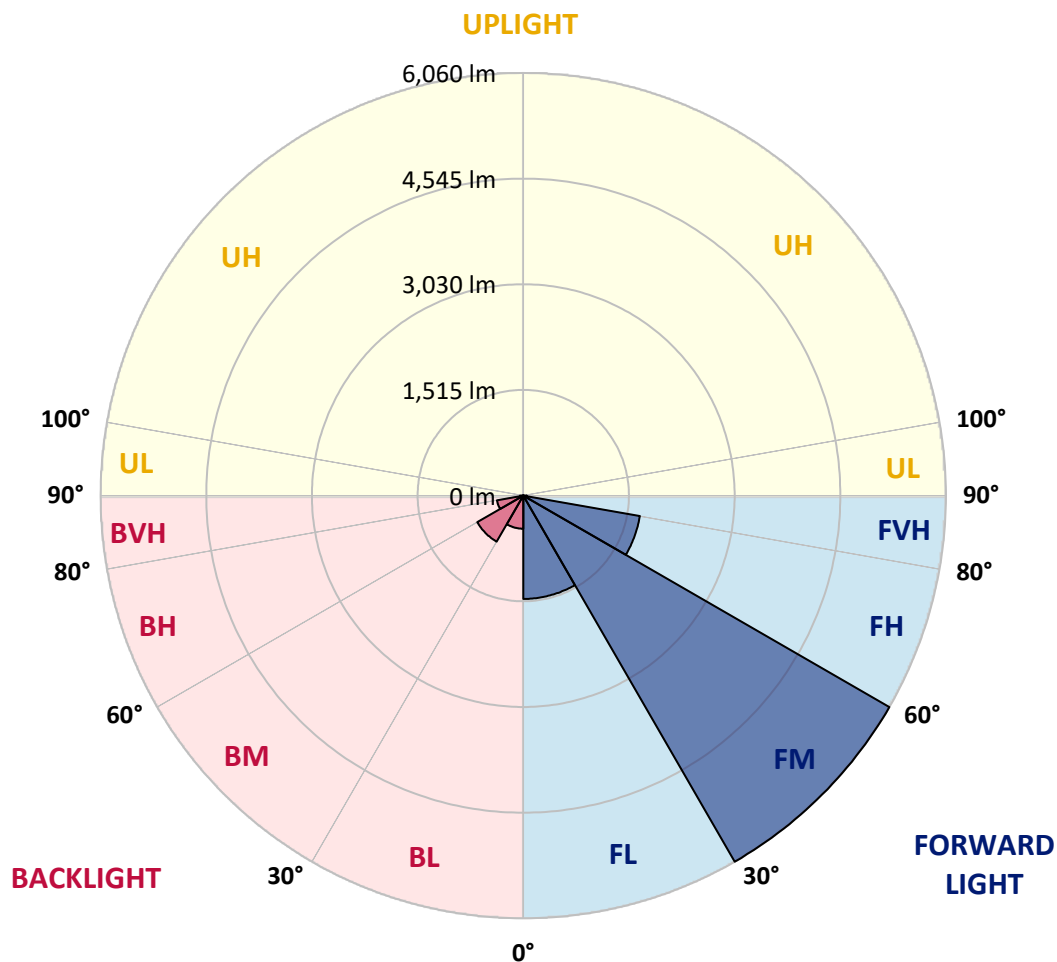
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.7	13.5			
FM	(30°-60°)	6060.2	55.3			
FH	(60°-80°)	1697.4	15.5			G1/1800
FVH	(80°-90°)	49.8	0.5			G1/100
BL	(0°-30°)	474.6	4.3	B1/500		
BM	(30°-60°)	761.7	7.0	B1/1000		
BH	(60°-80°)	383.3	3.5	B1/500		G1/500
BVH	(80°-90°)	46.2	0.4			G1/100
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°	57°	65°	75°	85°
0°	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3
2.5°	2859.5	2828.4	2803.8	2782.2	2754.0	2677.9	2601.7	2600.5	2540.0	2446.4	2350.5
5°	3325.4	3283.5	3288.9	3221.7	3154.6	3044.2	2882.9	2874.5	2745.6	2570.5	2392.5
7.5°	3628.9	3629.5	3612.7	3574.3	3501.7	3376.4	3193.5	3152.2	2972.9	2707.2	2440.4
10°	3613.3	3629.5	3657.6	3690.6	3712.8	3651.0	3484.3	3434.0	3200.7	2872.7	2493.8
12.5°	3405.8	3431.0	3471.2	3553.9	3687.6	3789.5	3732.6	3691.8	3464.6	3037.6	2552.5
15°	3276.3	3291.3	3313.5	3369.2	3513.1	3757.2	3904.7	3883.1	3713.4	3224.1	2618.5
17.5°	3236.7	3251.7	3258.9	3293.1	3395.6	3645.6	3972.4	4010.8	3934.1	3395.6	2685.1
20°	3276.3	3283.5	3283.5	3303.9	3384.2	3580.3	3969.4	4046.8	4115.1	3601.3	2747.4
22.5°	3380.0	3383.0	3378.8	3386.0	3446.0	3598.3	3941.2	4037.2	4261.4	3775.8	2796.0
25°	3548.5	3553.3	3525.7	3508.9	3552.7	3677.4	3956.8	4045.0	4376.0	3942.4	2828.4
27.5°	3739.8	3745.8	3712.2	3673.2	3693.6	3775.2	4018.0	4097.1	4461.7	4106.7	2848.8
30°	3974.2	3976.6	3920.3	3873.5	3860.3	3920.9	4122.3	4196.1	4568.4	4300.4	2879.3
32.5°	4214.1	4232.1	4159.5	4093.5	4071.4	4090.0	4276.4	4347.8	4695.6	4508.5	2928.5
35°	4540.3	4543.3	4456.3	4376.0	4302.8	4326.8	4473.7	4525.3	4871.2	4748.9	2998.1
37.5°	4947.4	4975.0	4855.1	4705.2	4615.2	4580.4	4712.3	4768.7	5117.7	5043.9	3103.0
40°	5399.5	5409.7	5307.2	5213.6	5049.3	4948.6	5039.7	5100.9	5421.7	5395.9	3224.7
42.5°	5683.7	5705.9	5713.7	5704.1	5580.6	5411.5	5446.3	5475.1	5781.5	5726.3	3349.4
45°	5779.7	5812.6	5924.2	6160.4	6173.6	6006.9	5926.0	5953.5	6173.6	6059.7	3468.8
47.5°	5620.8	5677.1	5882.8	6367.3	6730.0	6742.6	6498.6	6438.0	6531.0	6336.1	3555.1
50°	5210.0	5222.0	5536.8	6238.4	6990.9	7446.0	7193.5	7080.8	6870.4	6540.6	3614.5
52.5°	4574.4	4588.2	4852.1	5639.3	6830.2	7937.7	8006.6	7805.1	7215.1	6699.5	3653.4
55°	3395.6	3475.3	3765.6	4526.5	6068.7	7891.5	8653.0	8538.5	7631.9	6825.4	3714.6
57.5°	2087.8	2014.7	2358.9	3079.6	4564.2	7257.1	8852.7	8889.8	8090.6	6930.9	3817.1
60°	960.6	975.0	1117.1	1588.4	2782.2	5677.1	8338.2	8573.2	8344.2	6927.3	3842.9
62.5°	662.0	648.8	612.8	697.3	1268.8	3590.5	7043.0	7441.2	7835.7	6712.1	3740.4
65°	591.8	578.6	509.1	485.7	582.8	1565.0	5120.1	5622.6	6597.5	6168.8	3484.9
67.5°	552.8	534.9	462.9	417.3	416.1	623.0	3019.0	3624.1	4893.4	5215.4	3019.6
70°	512.1	497.7	426.3	376.0	354.4	391.5	1326.9	1737.1	3177.3	3758.4	2352.3
72.5°	471.3	454.5	390.3	336.4	308.2	293.2	508.5	661.4	1795.2	2253.3	1442.1
75°	411.9	403.5	349.0	304.6	274.0	236.8	322.6	368.2	858.6	1034.9	723.7
77.5°	360.4	351.4	310.0	266.2	244.0	192.5	229.1	250.0	362.2	419.7	326.8
80°	263.8	272.8	261.4	235.0	217.7	151.1	154.1	171.5	215.3	238.0	199.7
82.5°	167.3	184.1	201.5	181.1	164.9	119.3	106.7	113.3	146.9	155.9	88.7
85°	70.2	71.4	116.9	110.3	94.1	70.8	64.2	67.8	78.5	82.1	41.4
87.5°	27.0	26.4	41.4	38.4	29.4	20.4	20.4	22.8	31.2	28.8	13.2
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°	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3	2301.3
2.5°	2309.1	2266.5	2182.0	2077.1	2000.3	1914.0	1837.8	1783.2	1762.9	1753.3	1735.3
5°	2307.3	2223.4	2048.3	1864.8	1717.3	1566.2	1438.5	1355.7	1348.5	1293.4	1288.0
7.5°	2307.9	2179.6	1900.8	1630.9	1406.1	1251.4	1145.9	1118.3	1085.3	1076.9	1081.1
10°	2309.7	2123.8	1742.5	1399.5	1181.8	1080.5	1040.9	1030.1	1031.3	1034.9	1035.5
12.5°	2312.1	2069.9	1578.2	1223.8	1055.9	1013.9	1009.7	1019.3	1029.5	1037.3	1039.1
15°	2315.1	2008.1	1418.1	1082.3	993.0	989.4	1003.2	1019.3	1033.7	1045.1	1046.9
17.5°	2311.5	1936.1	1283.8	995.4	958.2	975.6	998.4	1018.7	1031.9	1042.7	1043.9
20°	2303.1	1855.8	1154.3	934.2	936.6	964.8	989.4	1008.5	1022.9	1028.3	1032.5
22.5°	2270.7	1759.9	1041.5	886.8	910.8	949.8	979.2	990.6	974.4	963.0	966.0
25°	2215.6	1635.1	936.6	848.5	887.4	928.8	958.8	931.2	918.0	913.2	915.6
27.5°	2146.6	1498.4	857.4	808.3	857.4	905.4	897.0	892.2	886.2	878.4	880.2
30°	2072.3	1364.7	790.3	777.1	825.1	852.6	856.2	864.0	857.4	845.5	850.2
32.5°	2003.3	1238.8	739.3	750.7	802.3	798.1	825.1	834.1	803.5	763.3	765.1
35°	1944.5	1121.9	700.9	724.9	763.3	765.1	792.1	760.9	727.9	708.7	709.9
37.5°	1900.2	1030.7	675.8	702.7	713.5	736.3	721.9	705.7	701.5	688.4	689.0
40°	1873.8	951.0	659.6	685.4	683.6	699.1	653.0	669.2	675.2	671.0	671.6
42.5°	1847.4	894.6	642.8	661.4	660.8	630.2	620.0	633.8	649.4	651.2	650.0
45°	1826.4	850.8	625.4	624.8	636.8	588.8	585.8	594.2	616.4	627.2	626.6
47.5°	1803.0	814.3	599.0	582.2	585.8	563.0	558.2	561.8	588.8	606.2	611.0
50°	1773.7	777.7	566.0	543.2	528.3	539.1	540.3	540.8	567.8	587.6	591.8
52.5°	1750.3	750.1	528.3	511.5	493.5	517.5	526.5	527.7	543.8	560.0	563.0
55°	1764.1	734.5	491.1	479.1	462.9	495.3	512.7	515.1	518.7	530.7	532.5
57.5°	1805.4	738.1	461.1	445.5	433.5	468.9	498.3	500.1	497.7	512.1	514.5
60°	1818.0	736.3	438.9	408.3	401.1	440.7	477.3	480.9	480.3	501.3	505.5
62.5°	1765.3	713.5	416.7	377.2	372.4	411.9	447.9	462.3	465.3	495.3	500.7
65°	1641.1	666.8	387.3	344.2	344.2	381.4	419.7	439.5	447.9	488.1	494.1
67.5°	1477.4	611.6	357.4	316.0	314.8	352.0	389.7	410.1	423.3	477.9	481.5
70°	1226.2	537.3	320.2	285.4	285.4	319.0	353.2	377.8	396.9	458.7	458.7
72.5°	840.1	446.7	275.2	250.6	251.2	282.4	317.2	344.8	367.6	420.3	421.5
75°	531.3	349.0	226.1	213.5	215.9	245.2	281.2	310.0	355.6	415.5	417.3
77.5°	282.4	245.2	179.9	176.9	179.9	206.9	247.0	286.6	356.8	360.4	354.4
80°	182.9	173.9	142.1	136.1	137.3	166.7	220.1	272.2	286.6	290.2	277.0
82.5°	99.5	110.3	100.7	94.7	94.7	130.1	187.7	216.5	205.7	170.9	163.1
85°	42.6	51.6	52.2	45.6	43.8	80.3	125.9	118.1	109.7	104.9	103.7
87.5°	12.0	16.8	16.8	12.6	9.6	22.2	25.2	7.2	0.0	0.6	1.2
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)