

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: P300369

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-AFL-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12249.3 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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: 25 FT



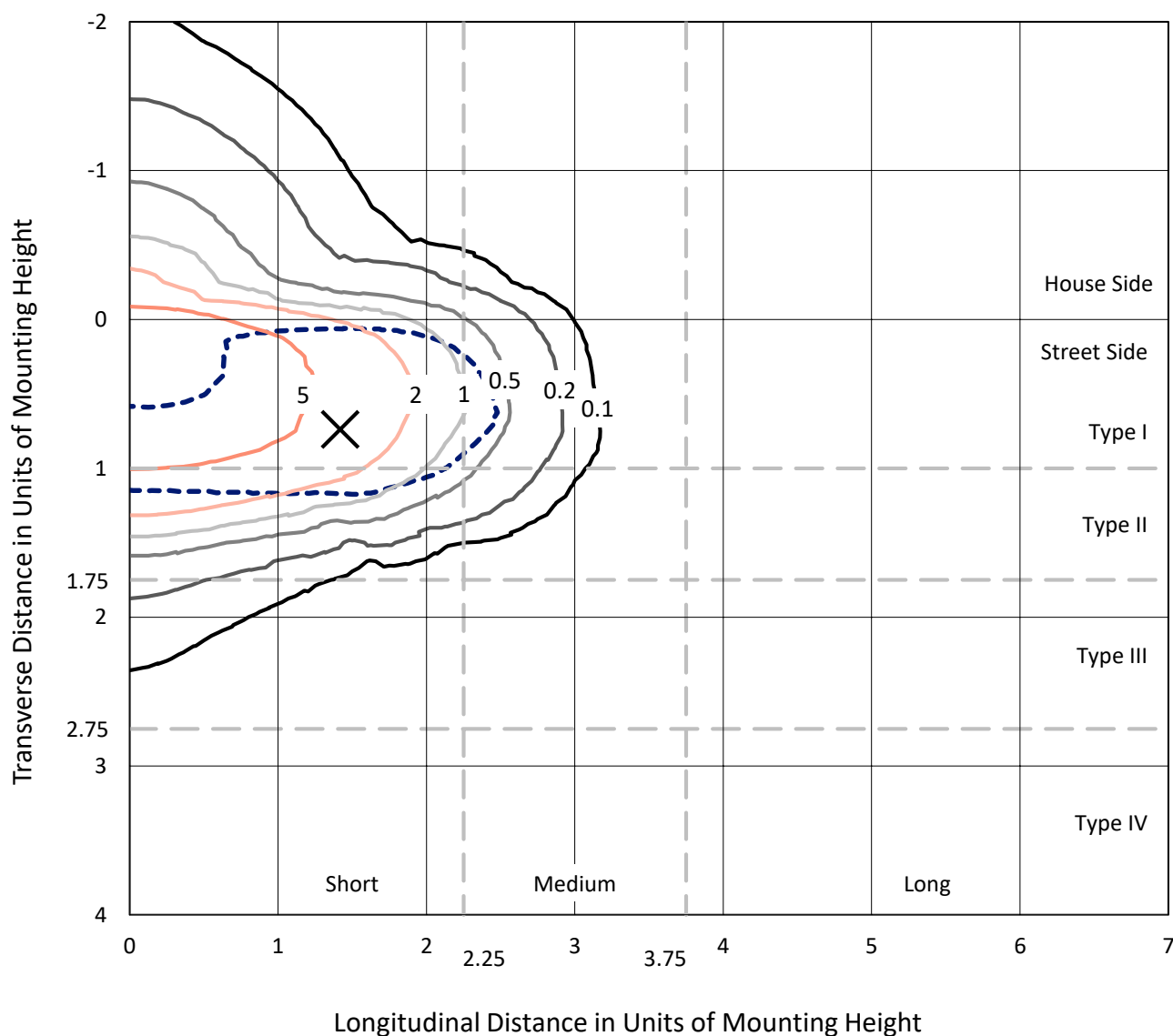
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

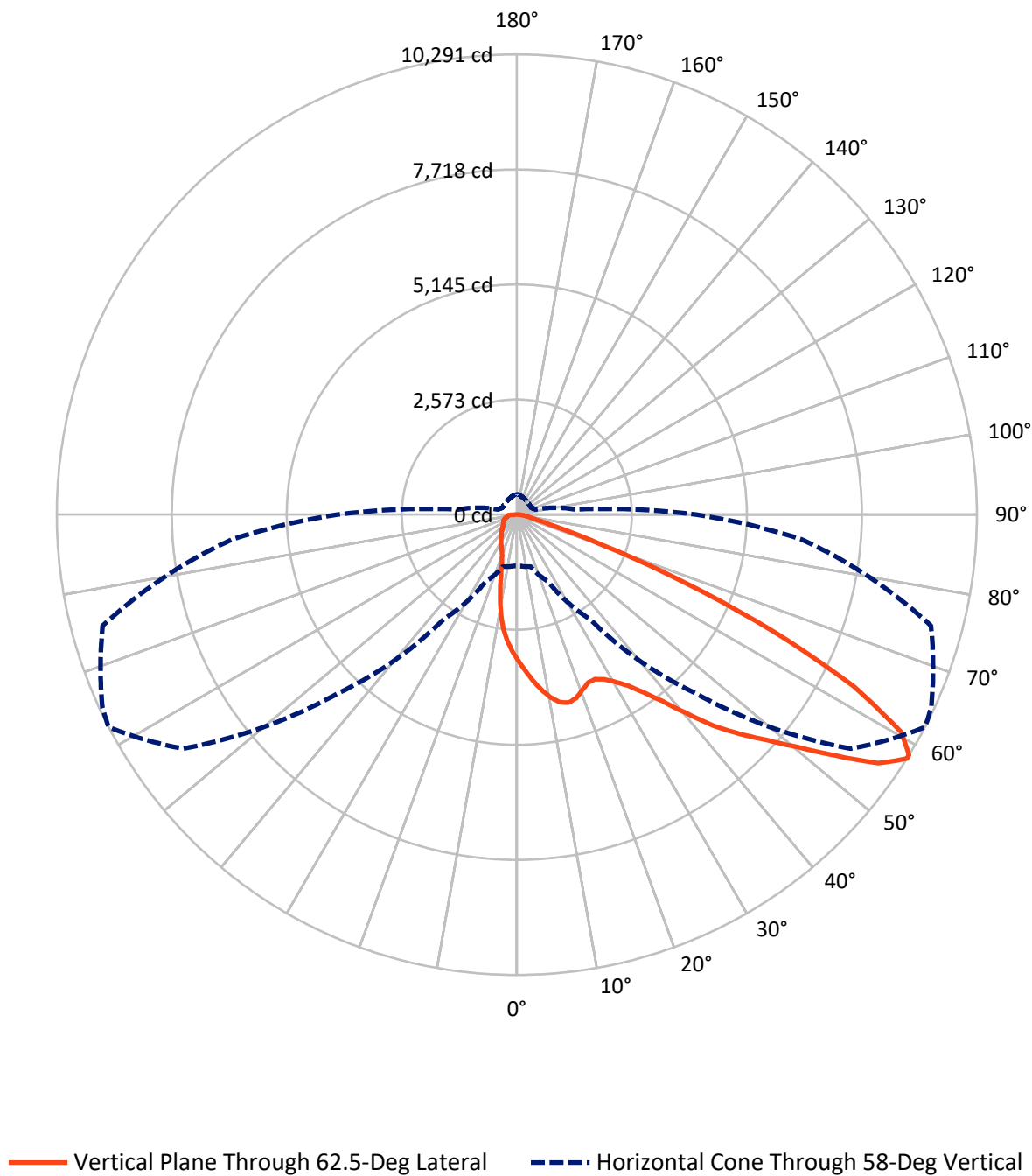


Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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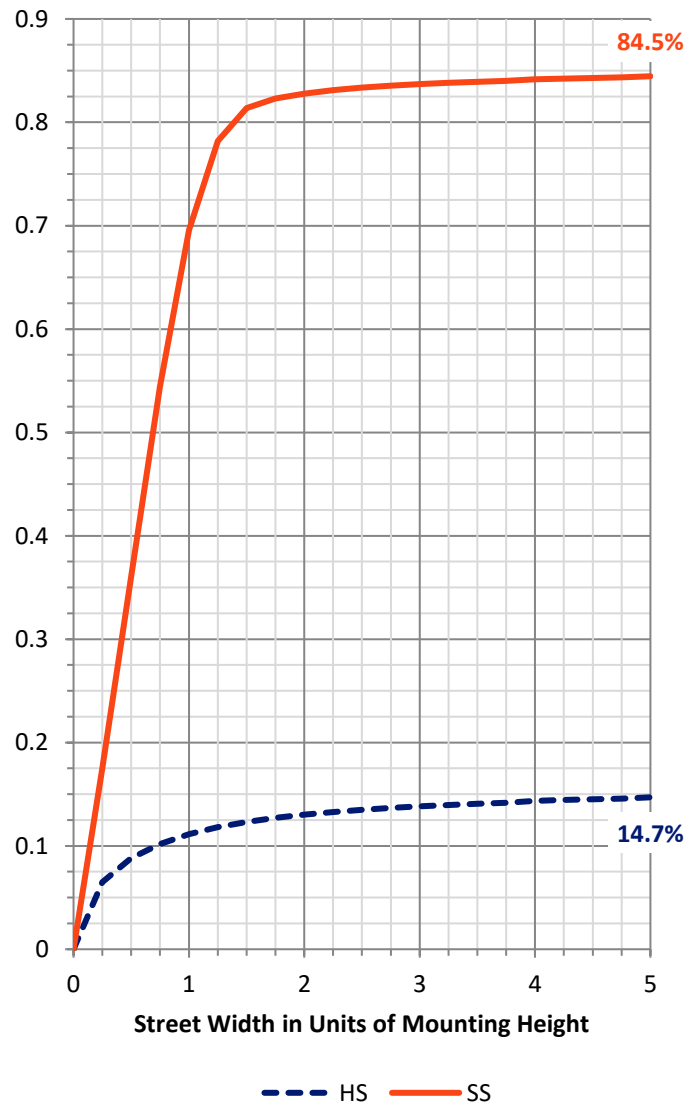
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1868.1	0.0	1868.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10381.2	0.0	10381.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	12249.3	0.0	12249.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	2.4
10°-20°	743.8	6.1
20°-30°	1202.5	9.8
30°-40°	1908.9	15.6
40°-50°	2793.1	22.8
50°-60°	2921.3	23.8
60°-70°	1725.9	14.1
70°-80°	486.2	4.0
80°-90°	176.5	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°	12249.3	100.0
0°-180°	12249.3	100.0

Coefficient of Utilization



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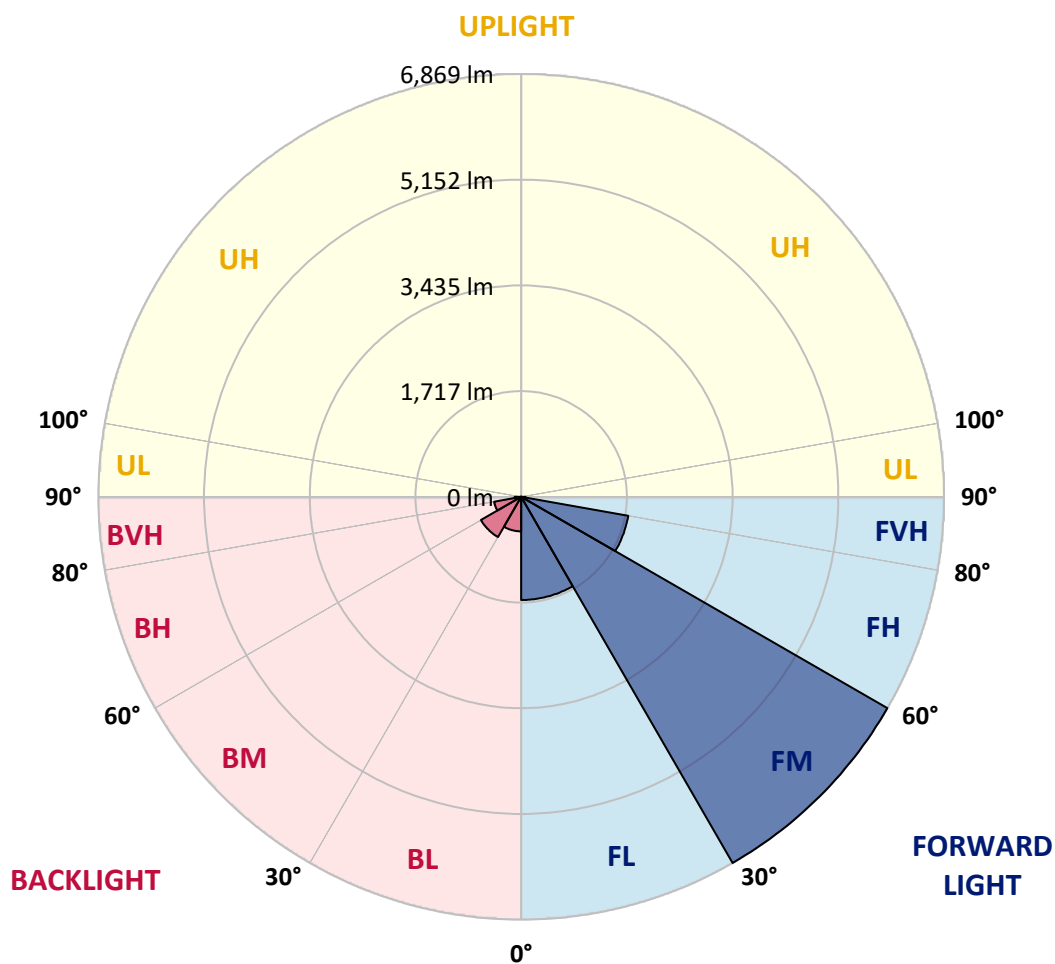
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1675.9	13.7			
FM	(30°-60°)	6869.3	56.1			
FH	(60°-80°)	1766.4	14.4			G1/1800
FVH	(80°-90°)	69.6	0.6			G1/100
BL	(0°-30°)	561.4	4.6	B2/1000		
BM	(30°-60°)	754.0	6.2	B1/1000		
BH	(60°-80°)	445.7	3.6	B1/500		G1/500
BVH	(80°-90°)	106.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8
2.5°	3718.1	3688.1	3669.1	3652.3	3630.4	3583.7	3520.8	3481.0	3460.8	3392.2	3310.9
5°	4082.6	4056.1	4036.5	4014.0	3974.8	3901.5	3800.0	3719.3	3679.5	3542.2	3379.5
7.5°	3997.3	4008.2	4042.3	4101.7	4152.4	4142.6	4052.1	3949.4	3896.9	3706.0	3459.1
10°	3482.8	3501.8	3560.6	3699.6	3924.6	4155.3	4225.7	4154.7	4101.7	3868.1	3541.0
12.5°	3379.5	3378.9	3383.6	3420.5	3554.3	3879.0	4231.5	4303.0	4271.3	4022.7	3624.7
15°	3421.6	3422.8	3419.3	3434.9	3476.4	3605.0	4055.0	4360.1	4382.6	4178.4	3711.2
17.5°	3532.4	3529.5	3516.2	3516.2	3531.2	3581.4	3847.3	4307.0	4410.8	4316.2	3787.3
20°	3718.1	3704.8	3669.6	3637.3	3621.2	3648.3	3761.9	4184.7	4361.8	4436.8	3850.2
22.5°	3943.1	3932.7	3875.6	3806.4	3750.4	3749.8	3805.8	4078.0	4277.0	4550.4	3903.3
25°	4233.8	4217.0	4132.2	4021.5	3923.4	3886.0	3901.5	4072.8	4230.9	4673.9	3950.6
27.5°	4575.2	4544.7	4444.3	4284.5	4140.3	4064.8	4042.3	4166.9	4273.0	4826.7	4016.3
30°	4989.4	4954.2	4825.6	4617.3	4413.7	4289.7	4241.8	4333.6	4412.6	5013.0	4121.9
32.5°	5460.6	5409.9	5261.1	5031.5	4763.9	4574.7	4496.8	4553.9	4616.8	5237.4	4254.0
35°	6111.9	6051.3	5836.1	5519.5	5217.2	4957.1	4832.5	4874.0	4935.2	5572.0	4444.9
37.5°	6556.0	6528.9	6385.8	6088.2	5759.4	5460.1	5267.4	5291.6	5326.2	5990.1	4689.4
40°	6552.0	6562.9	6565.8	6568.7	6344.9	6058.2	5851.1	5825.8	5818.8	6449.3	4967.5
42.5°	6223.8	6268.7	6414.1	6708.8	6845.0	6713.5	6523.7	6450.4	6414.1	6990.3	5262.2
45°	5721.4	5745.6	6017.8	6593.5	7101.1	7362.4	7218.7	6988.0	6922.3	7487.5	5506.8
47.5°	5462.4	5488.9	5660.2	6287.8	7098.2	7886.7	7969.7	7530.2	7412.6	7920.1	5717.9
50°	4845.8	4901.1	5116.9	5756.0	6839.2	8127.8	8754.8	8176.2	7932.8	8341.2	5929.6
52.5°	3713.5	3798.9	4040.5	4881.5	6182.2	8008.4	9382.9	8959.5	8615.8	8777.3	6111.3
55°	2342.4	2405.9	2608.9	3447.6	4945.5	7387.2	9621.1	9806.9	9501.2	9190.3	6268.7
57.5°	1273.6	1301.9	1378.0	1903.5	3216.9	6013.8	9273.9	10289.1	10162.2	9541.0	6387.6
58°	1139.8	1158.8	1206.1	1649.7	2852.9	5638.3	9119.9	10290.8	10227.4	9592.3	6396.8
60°	845.6	835.8	793.7	941.3	1588.0	3895.2	8188.9	9879.0	10065.3	9655.2	6351.8
62.5°	742.9	719.3	633.3	623.5	772.3	1794.4	6265.9	8462.3	8902.4	9296.4	6078.4
65°	697.9	672.6	561.8	526.0	557.2	759.1	3691.0	6346.6	6898.6	8208.5	5379.3
67.5°	664.5	631.6	516.2	467.2	469.5	501.8	1479.5	3997.3	4618.5	6232.4	4184.2
70°	632.2	596.4	477.6	421.1	407.8	396.8	588.3	2000.9	2564.5	3936.7	2667.7
72.5°	597.6	562.4	443.6	384.7	358.8	322.4	384.2	818.5	1143.2	1862.5	1210.1
75°	547.4	515.7	409.5	352.4	315.5	267.1	290.1	427.4	512.8	741.8	583.2
77.5°	485.7	459.7	371.5	325.9	279.8	216.9	223.2	296.5	328.8	424.5	346.7
80°	349.0	358.2	330.5	293.0	249.2	175.9	171.3	216.3	233.6	272.8	225.5
82.5°	245.1	250.3	273.4	239.4	205.9	138.4	126.3	152.3	162.7	179.4	121.7
85°	169.0	163.2	187.5	166.7	148.8	92.3	86.5	103.2	109.6	111.3	62.9
87.5°	101.5	101.5	108.4	89.4	80.2	47.9	46.7	58.8	62.9	60.0	34.6
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°	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8	3253.8
2.5°	3262.4	3221.5	3134.4	3064.6	2976.3	2884.6	2833.3	2778.5	2741.0	2713.9	2757.1
5°	3287.2	3203.6	3023.6	2852.9	2664.3	2468.2	2319.3	2180.9	2084.6	2024.6	2081.1
7.5°	3326.4	3197.8	2911.1	2619.3	2280.7	1954.2	1662.4	1479.5	1372.8	1320.3	1353.2
10°	3371.4	3188.6	2779.1	2302.6	1818.1	1406.8	1188.8	1115.0	1090.7	1080.9	1085.6
12.5°	3408.9	3169.0	2617.0	1919.6	1365.3	1110.9	1048.1	1046.3	1051.5	1052.7	1054.4
15°	3435.5	3140.1	2376.4	1520.5	1091.9	1012.3	1008.8	1019.2	1029.0	1033.1	1035.4
17.5°	3453.3	3080.7	2104.8	1202.1	978.3	964.4	972.5	985.8	996.1	999.0	1001.3
20°	3451.6	2993.6	1781.2	1002.5	916.5	916.5	930.4	940.8	941.3	937.9	939.6
22.5°	3433.7	2874.2	1467.4	896.4	861.8	871.6	885.4	875.6	835.2	808.7	810.4
25°	3403.7	2731.8	1198.6	828.9	811.0	828.3	824.3	750.4	692.7	666.8	666.8
27.5°	3377.2	2563.3	992.1	770.0	760.2	781.6	710.0	643.1	618.9	606.8	602.8
30°	3358.2	2381.6	854.3	713.5	712.4	696.8	616.0	597.6	593.5	583.7	580.3
32.5°	3362.8	2197.6	766.0	663.9	667.9	596.4	571.0	575.1	571.6	561.2	556.6
35°	3400.9	2022.9	708.3	618.9	606.8	538.7	544.5	552.0	550.9	536.4	531.8
37.5°	3468.9	1857.3	670.3	581.4	529.5	509.9	519.1	530.7	527.8	518.0	514.5
40°	3540.4	1701.6	639.1	552.0	483.9	490.3	498.4	504.7	507.6	510.5	508.2
42.5°	3610.2	1538.9	601.0	522.0	464.9	471.8	475.3	481.6	497.2	508.2	507.6
45°	3651.8	1386.1	561.8	479.3	449.9	453.9	451.6	464.3	483.4	501.2	501.8
47.5°	3697.9	1267.2	530.7	440.1	435.5	438.4	431.5	444.1	461.4	483.4	485.7
50°	3753.9	1196.3	505.9	409.0	415.9	415.9	414.1	425.7	449.9	475.3	479.9
52.5°	3817.3	1182.5	485.1	386.5	396.3	395.7	397.4	414.7	441.3	466.1	470.1
55°	3894.6	1219.9	462.6	369.7	377.2	379.5	385.3	404.9	427.4	455.7	457.4
57.5°	3984.6	1296.1	444.7	356.5	359.9	367.4	376.7	394.5	418.8	449.9	451.6
58°	3999.6	1312.2	441.8	355.3	356.5	365.1	375.5	392.8	417.0	451.1	452.8
60°	4000.2	1365.9	435.5	350.1	343.2	357.6	369.2	386.5	414.1	455.1	459.1
62.5°	3858.3	1365.3	430.9	342.6	329.4	347.2	360.5	380.7	411.3	464.9	473.0
65°	3397.4	1240.7	409.0	331.1	318.4	338.0	353.0	376.7	419.3	507.6	512.8
67.5°	2657.4	1016.9	368.0	314.9	304.0	328.8	348.4	376.1	428.0	517.4	520.9
70°	1757.0	760.8	323.0	296.5	289.0	317.8	350.7	395.7	418.2	496.6	487.4
72.5°	911.9	534.1	286.7	273.4	271.7	308.0	384.2	393.4	408.4	467.2	455.7
75°	478.8	370.9	254.9	248.0	250.9	305.7	453.4	383.0	395.7	447.0	468.9
77.5°	293.0	299.4	227.8	225.0	230.7	298.8	452.8	369.7	377.2	411.3	435.5
80°	196.1	242.8	207.1	207.7	211.7	273.4	406.6	349.0	354.7	388.8	413.6
82.5°	124.0	143.6	188.0	197.8	192.7	225.5	345.5	317.8	325.9	444.7	470.1
85°	62.9	90.0	163.2	190.3	173.6	158.0	280.3	278.6	282.6	320.7	335.1
87.5°	28.8	49.6	127.5	166.1	130.9	98.6	203.6	206.5	222.6	227.8	227.8
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)