

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: P194320

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194320
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: GLEON-AF-02-LED-E1-AFL-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13706 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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



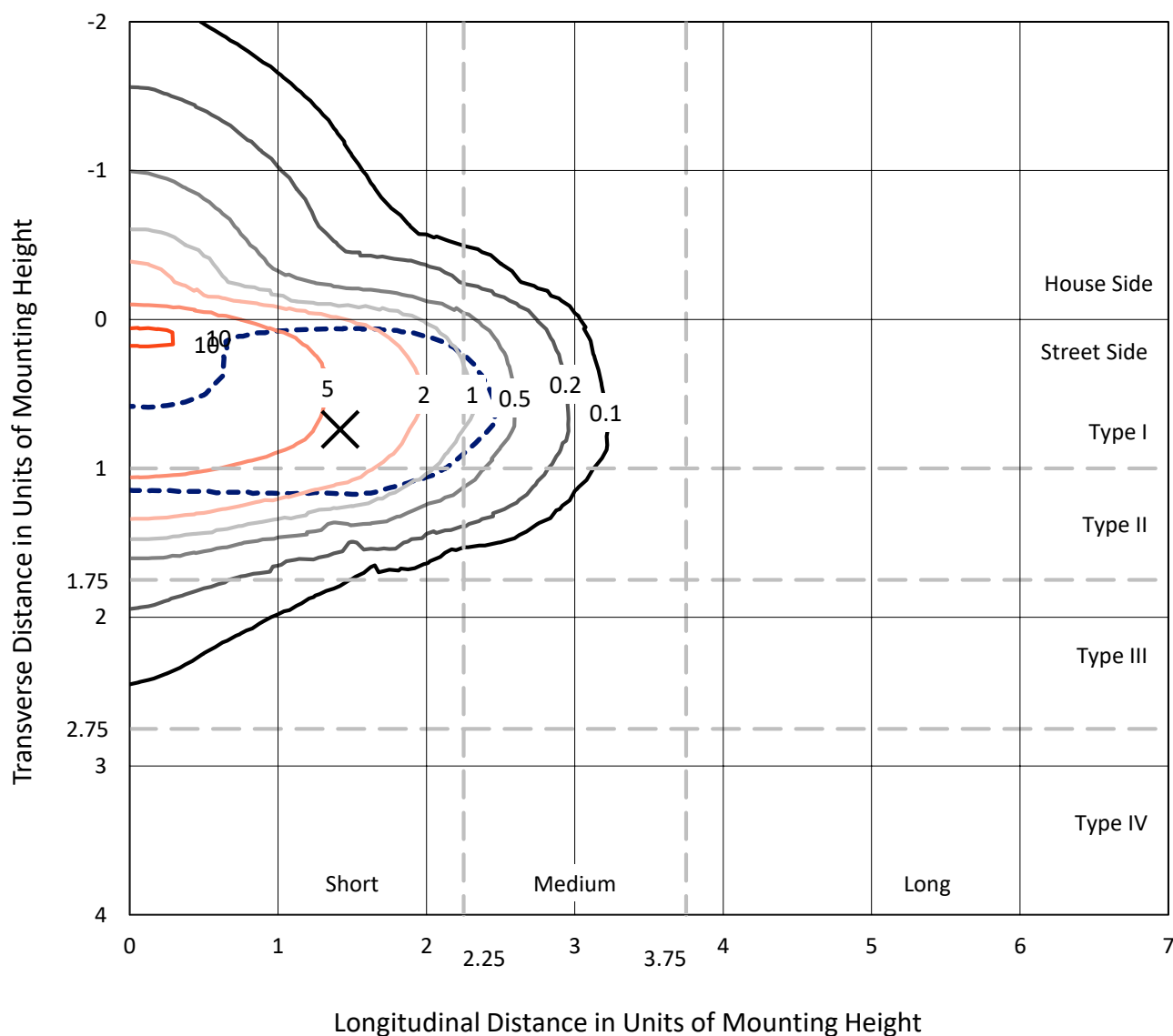
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

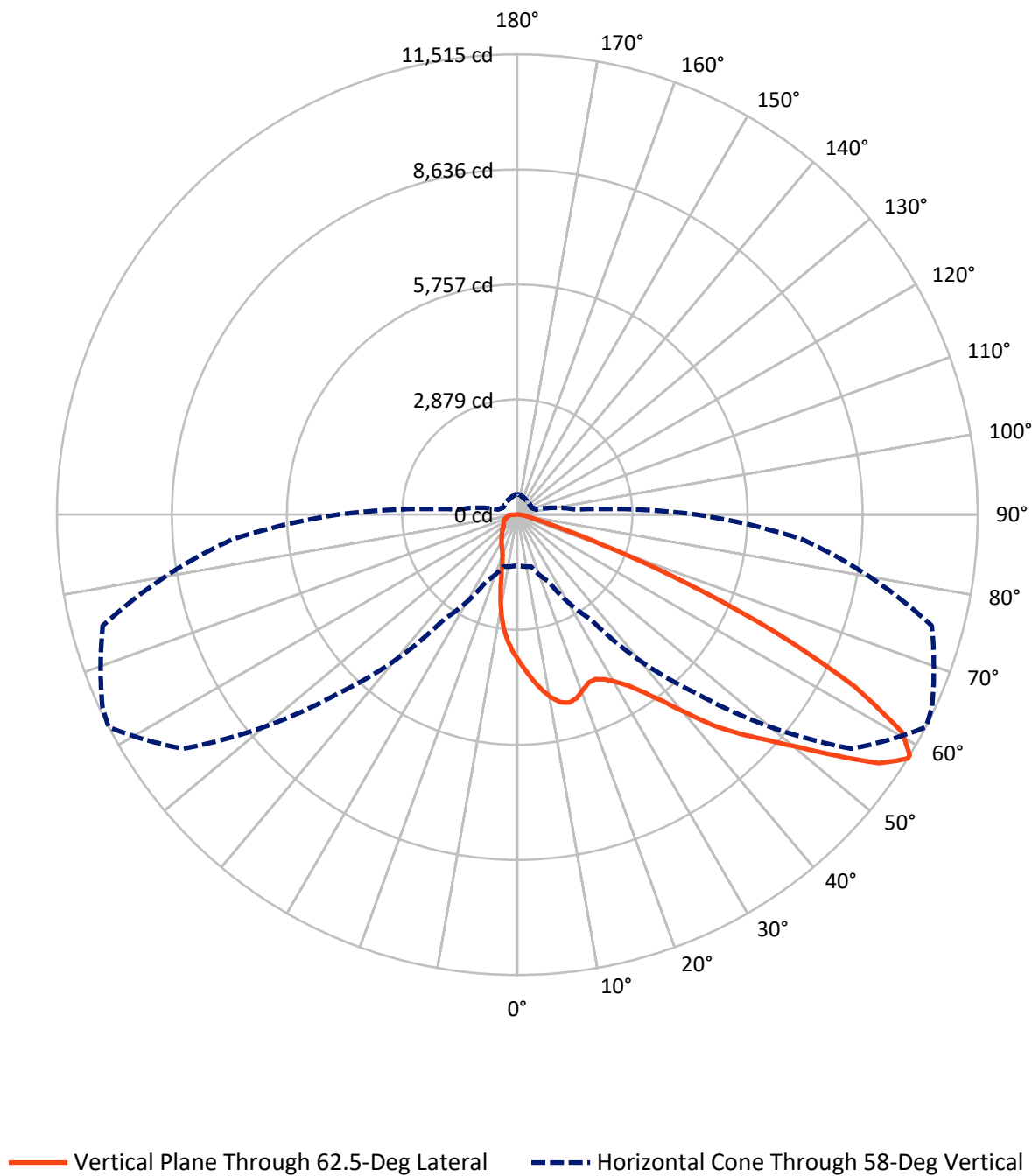


Based on 20 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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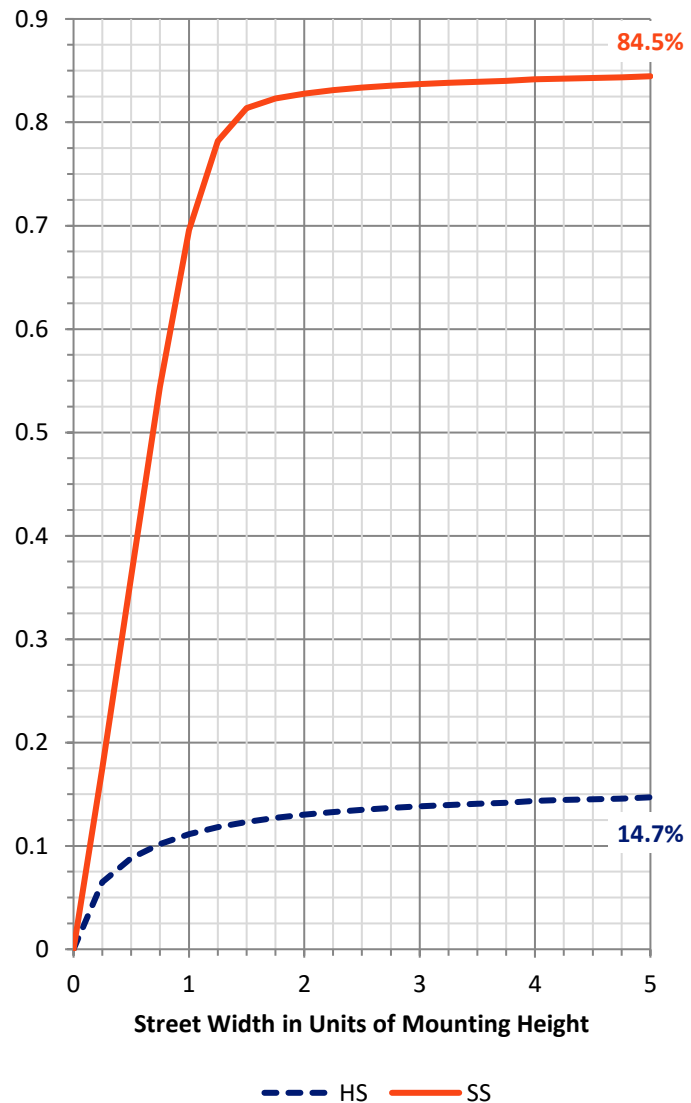
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2090.2	0.0	2090.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11615.8	0.0	11615.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	13706.0	0.0	13706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	2.4
10°-20°	832.3	6.1
20°-30°	1345.4	9.8
30°-40°	2135.9	15.6
40°-50°	3125.3	22.8
50°-60°	3268.8	23.8
60°-70°	1931.2	14.1
70°-80°	544.0	4.0
80°-90°	197.5	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°	13706.0	100.0
0°-180°	13706.0	100.0

Coefficient of Utilization



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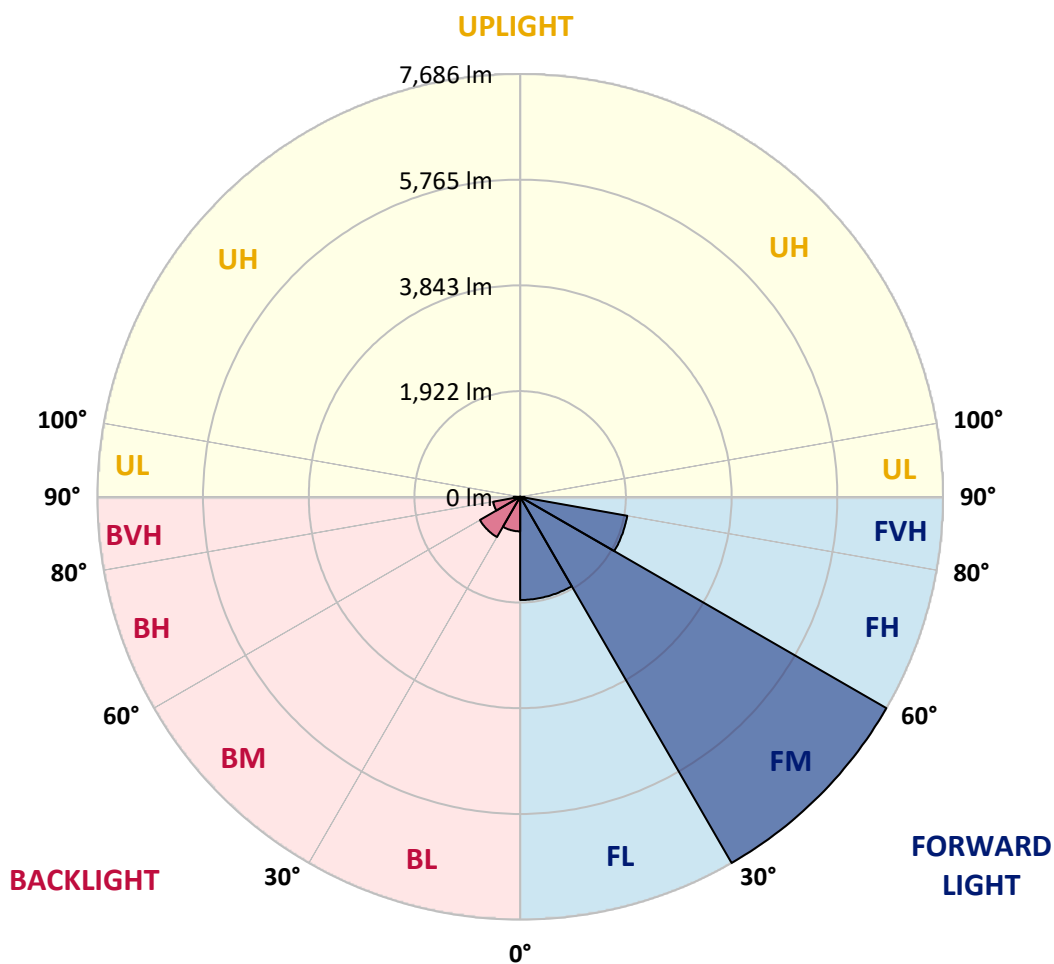
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1875.2	13.7			
FM	(30°-60°)	7686.2	56.1			
FH	(60°-80°)	1976.5	14.4			G2/5000
FVH	(80°-90°)	77.9	0.6			G1/100
BL	(0°-30°)	628.2	4.6	B2/1000		
BM	(30°-60°)	843.7	6.2	B1/1000		
BH	(60°-80°)	498.7	3.6	B1/500		G1/500
BVH	(80°-90°)	119.6	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°	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7
2.5°	4160.3	4126.7	4105.4	4086.7	4062.2	4009.9	3939.5	3895.0	3872.4	3795.6	3704.6
5°	4568.2	4538.5	4516.5	4491.4	4447.5	4365.5	4251.9	4161.6	4117.0	3963.4	3781.4
7.5°	4472.6	4484.9	4523.0	4589.5	4646.3	4635.3	4534.0	4419.1	4360.3	4146.7	3870.5
10°	3896.9	3918.2	3984.1	4139.6	4391.3	4649.5	4728.2	4648.8	4589.5	4328.1	3962.1
12.5°	3781.4	3780.8	3785.9	3827.2	3977.0	4340.3	4734.7	4814.7	4779.2	4501.0	4055.7
15°	3828.5	3829.8	3826.0	3843.4	3889.8	4033.8	4537.2	4878.6	4903.8	4675.3	4152.5
17.5°	3952.4	3949.2	3934.4	3934.4	3951.2	4007.3	4304.8	4819.2	4935.4	4829.6	4237.7
20°	4160.3	4145.4	4106.1	4069.9	4051.8	4082.2	4209.3	4682.4	4880.5	4964.4	4308.1
22.5°	4412.0	4400.4	4336.5	4259.0	4196.4	4195.8	4258.4	4563.0	4785.7	5091.6	4367.4
25°	4737.3	4718.5	4623.7	4499.8	4390.0	4348.1	4365.5	4557.2	4734.0	5229.7	4420.4
27.5°	5119.3	5085.1	4972.8	4794.1	4632.7	4548.2	4523.0	4662.4	4781.1	5400.7	4493.9
30°	5582.7	5543.4	5399.4	5166.5	4938.6	4799.9	4746.3	4848.9	4937.3	5609.2	4612.1
32.5°	6110.0	6053.2	5886.7	5629.9	5330.4	5118.7	5031.6	5095.5	5165.8	5860.3	4759.8
35°	6838.7	6770.9	6530.2	6175.9	5837.7	5546.6	5407.2	5453.7	5522.1	6234.6	4973.5
37.5°	7335.7	7305.3	7145.3	6812.2	6444.4	6109.4	5893.8	5920.9	5959.7	6702.5	5247.1
40°	7331.1	7343.4	7346.6	7349.9	7099.4	6778.7	6547.0	6518.6	6510.8	7216.3	5558.2
42.5°	6963.9	7014.2	7176.9	7506.7	7659.0	7511.8	7299.5	7217.5	7176.9	7821.6	5888.0
45°	6401.8	6428.9	6733.5	7377.6	7945.6	8237.9	8077.2	7819.1	7745.5	8378.0	6161.7
47.5°	6112.0	6141.7	6333.3	7035.5	7942.3	8824.6	8917.5	8425.7	8294.1	8862.0	6397.9
50°	5422.0	5484.0	5725.4	6440.5	7652.5	9094.4	9795.9	9148.6	8876.2	9333.2	6634.7
52.5°	4155.1	4250.6	4521.0	5462.0	6917.4	8960.8	10498.8	10025.0	9640.4	9821.1	6838.0
55°	2621.0	2692.0	2919.2	3857.6	5533.7	8265.7	10765.3	10973.1	10631.1	10283.2	7014.2
57.5°	1425.1	1456.7	1541.9	2129.8	3599.4	6729.0	10376.8	11512.7	11370.7	10675.6	7147.2
58°	1275.3	1296.6	1349.5	1845.9	3192.2	6308.8	10204.5	11514.6	11443.6	10733.1	7157.5
60°	946.2	935.2	888.1	1053.3	1776.8	4358.4	9162.8	11053.8	11262.3	10803.4	7107.2
62.5°	831.3	804.8	708.7	697.7	864.2	2007.8	7011.0	9468.7	9961.2	10402.0	6801.3
65°	780.9	752.5	628.6	588.6	623.5	849.4	4129.9	7101.4	7719.0	9184.7	6019.0
67.5°	743.5	706.7	577.6	522.8	525.4	561.5	1655.5	4472.6	5167.7	6973.6	4681.8
70°	707.4	667.3	534.4	471.1	456.3	444.0	658.3	2238.9	2869.5	4404.9	2985.0
72.5°	668.6	629.3	496.3	430.5	401.4	360.8	429.8	915.8	1279.2	2084.0	1354.1
75°	612.5	577.0	458.2	394.3	353.0	298.8	324.6	478.2	573.8	830.0	652.5
77.5°	543.4	514.4	415.6	364.7	313.0	242.7	249.8	331.7	367.9	475.0	387.9
80°	390.5	400.8	369.8	327.9	278.8	196.8	191.7	242.0	261.4	305.3	252.4
82.5°	274.3	280.1	305.9	267.8	230.4	154.9	141.3	170.4	182.0	200.7	136.2
85°	189.1	182.6	209.8	186.5	166.5	103.3	96.8	115.5	122.6	124.6	70.3
87.5°	113.6	113.6	121.3	100.0	89.7	53.6	52.3	65.8	70.3	67.1	38.7
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°	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7	3640.7
2.5°	3650.4	3604.6	3507.1	3429.0	3330.3	3227.7	3170.2	3108.9	3067.0	3036.6	3085.0
5°	3678.2	3584.6	3383.2	3192.2	2981.1	2761.7	2595.2	2440.3	2332.5	2265.4	2328.6
7.5°	3722.0	3578.1	3257.4	2930.8	2551.9	2186.6	1860.1	1655.5	1536.1	1477.3	1514.1
10°	3772.4	3567.8	3109.6	2576.4	2034.3	1574.1	1330.2	1247.6	1220.5	1209.5	1214.6
12.5°	3814.3	3545.8	2928.2	2147.9	1527.7	1243.0	1172.7	1170.8	1176.6	1177.9	1179.8
15°	3844.0	3513.6	2659.1	1701.3	1221.7	1132.7	1128.8	1140.4	1151.4	1155.9	1158.5
17.5°	3864.0	3447.1	2355.1	1345.0	1094.6	1079.1	1088.1	1103.0	1114.6	1117.8	1120.4
20°	3862.1	3349.6	1993.0	1121.7	1025.5	1025.5	1041.0	1052.7	1053.3	1049.4	1051.4
22.5°	3842.1	3216.0	1641.9	1003.0	964.2	975.2	990.7	979.7	934.5	904.9	906.8
25°	3808.5	3056.6	1341.1	927.4	907.4	926.8	922.3	839.7	775.1	746.1	746.1
27.5°	3778.8	2868.2	1110.1	861.6	850.6	874.5	794.5	719.6	692.5	679.0	674.4
30°	3757.5	2664.9	955.8	798.4	797.1	779.6	689.3	668.6	664.1	653.1	649.3
32.5°	3762.7	2459.0	857.1	742.9	747.4	667.3	638.9	643.5	639.6	628.0	622.8
35°	3805.3	2263.4	792.6	692.5	679.0	602.8	609.3	617.7	616.4	600.2	595.1
37.5°	3881.5	2078.2	750.0	650.6	592.5	570.5	580.9	593.8	590.5	579.6	575.7
40°	3961.5	1903.9	715.1	617.7	541.5	548.6	557.6	564.7	568.0	571.2	568.6
42.5°	4039.6	1721.9	672.5	584.1	520.2	527.9	531.8	538.9	556.3	568.6	568.0
45°	4086.0	1550.9	628.6	536.3	503.4	507.9	505.4	519.5	540.8	560.9	561.5
47.5°	4137.7	1418.0	593.8	492.4	487.3	490.5	482.8	497.0	516.3	540.8	543.4
50°	4200.3	1338.6	566.0	457.6	465.3	465.3	463.4	476.3	503.4	531.8	537.0
52.5°	4271.3	1323.1	542.8	432.4	443.4	442.7	444.7	464.0	493.7	521.5	526.0
55°	4357.8	1365.0	517.6	413.7	422.1	424.7	431.1	453.1	478.2	509.9	511.8
57.5°	4458.4	1450.2	497.6	398.9	402.7	411.1	421.4	441.5	468.6	503.4	505.4
58°	4475.2	1468.3	494.4	397.6	398.9	408.5	420.2	439.5	466.6	504.7	506.6
60°	4475.9	1528.3	487.3	391.8	384.0	400.2	413.1	432.4	463.4	509.2	513.7
62.5°	4317.1	1527.7	482.1	383.4	368.5	388.5	403.4	426.0	460.2	520.2	529.2
65°	3801.4	1388.3	457.6	370.5	356.3	378.2	395.0	421.4	469.2	568.0	573.8
67.5°	2973.4	1137.8	411.8	352.4	340.1	367.9	389.8	420.8	478.9	578.9	582.8
70°	1965.9	851.3	361.4	331.7	323.3	355.6	392.4	442.7	467.9	555.7	545.4
72.5°	1020.4	597.6	320.8	305.9	304.0	344.6	429.8	440.2	456.9	522.8	509.9
75°	535.7	415.0	285.3	277.5	280.8	342.1	507.3	428.5	442.7	500.2	524.7
77.5°	327.9	335.0	254.9	251.7	258.2	334.3	506.6	413.7	422.1	460.2	487.3
80°	219.4	271.7	231.7	232.3	236.9	305.9	455.0	390.5	396.9	435.0	462.8
82.5°	138.8	160.7	210.4	221.4	215.6	252.4	386.6	355.6	364.7	497.6	526.0
85°	70.3	100.7	182.6	213.0	194.3	176.8	313.7	311.7	316.2	358.8	375.0
87.5°	32.3	55.5	142.6	185.9	146.5	110.4	227.8	231.1	249.1	254.9	254.9
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)