

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: P192692

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192692
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-04-LED-E1-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 15697.3 lumens
Efficiency: N/A
Efficacy: 121.7 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): 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

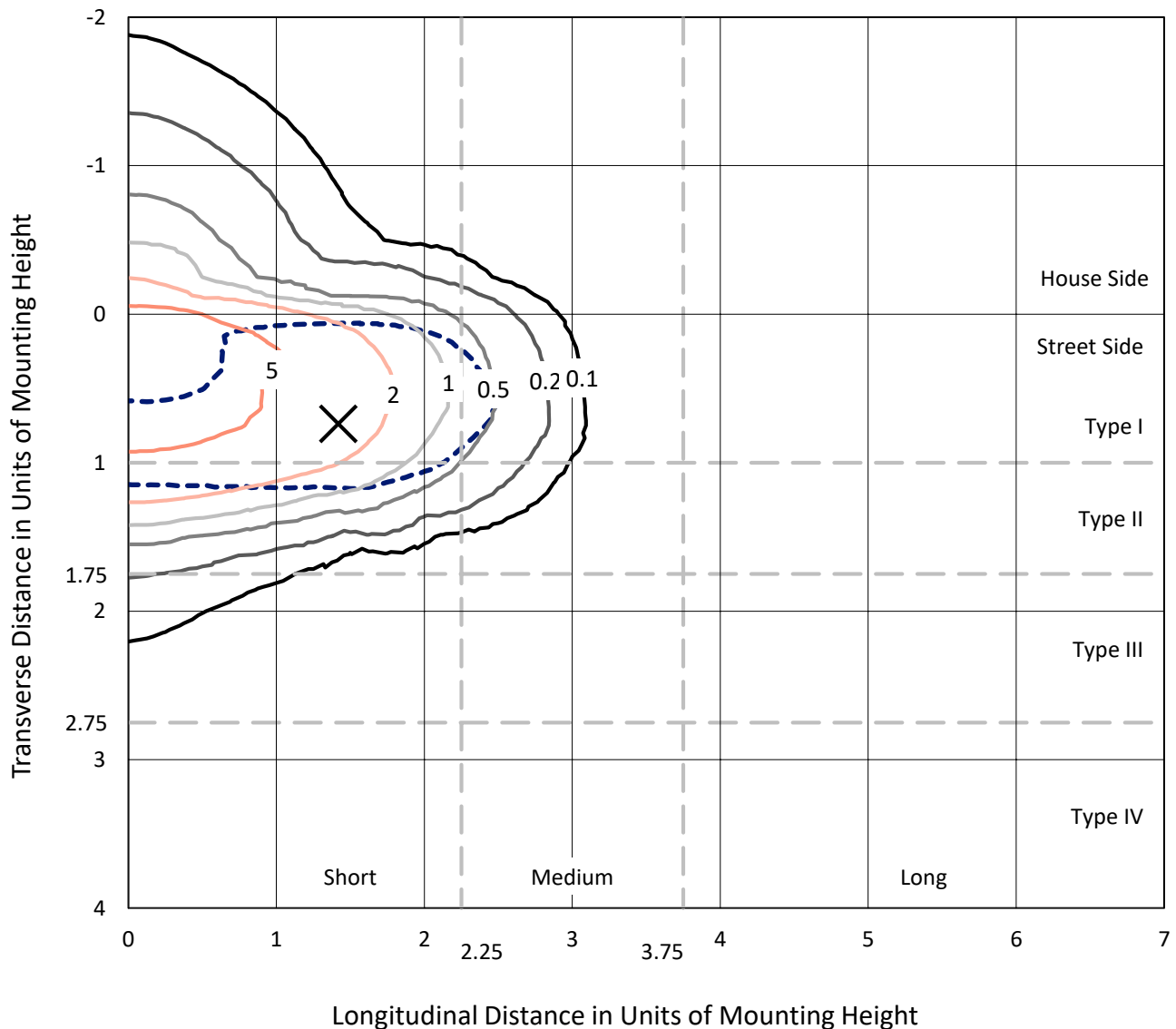


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

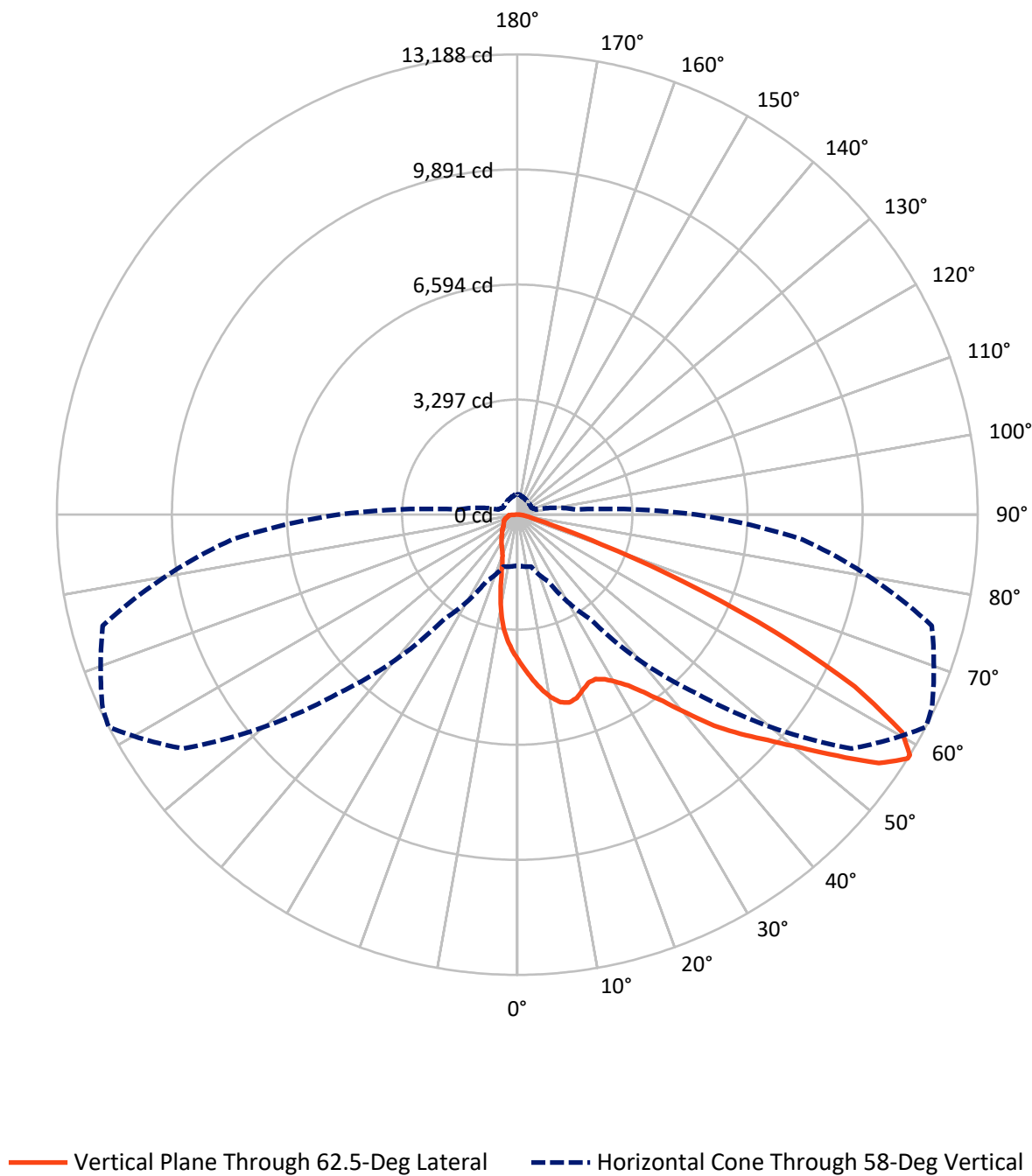


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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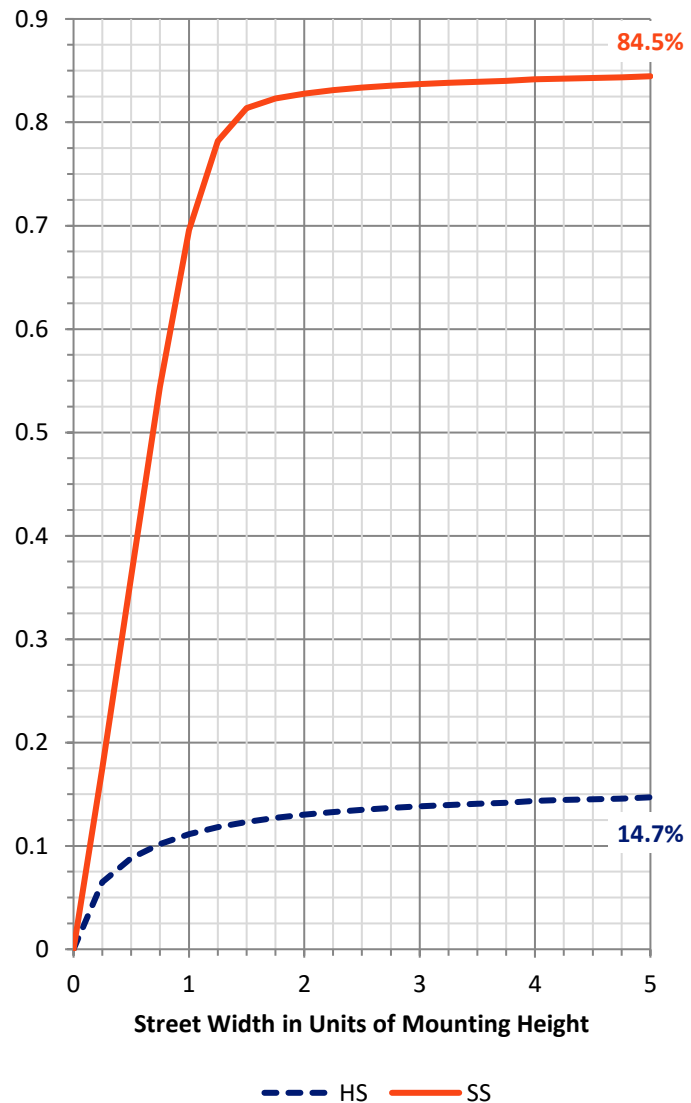
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2393.9	0.0	2393.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13303.4	0.0	13303.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	15697.3	0.0	15697.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	2.4
10°-20°	953.2	6.1
20°-30°	1540.9	9.8
30°-40°	2446.2	15.6
40°-50°	3579.3	22.8
50°-60°	3743.7	23.8
60°-70°	2211.8	14.1
70°-80°	623.1	4.0
80°-90°	226.2	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°	15697.3	100.0
0°-180°	15697.3	100.0

Coefficient of Utilization



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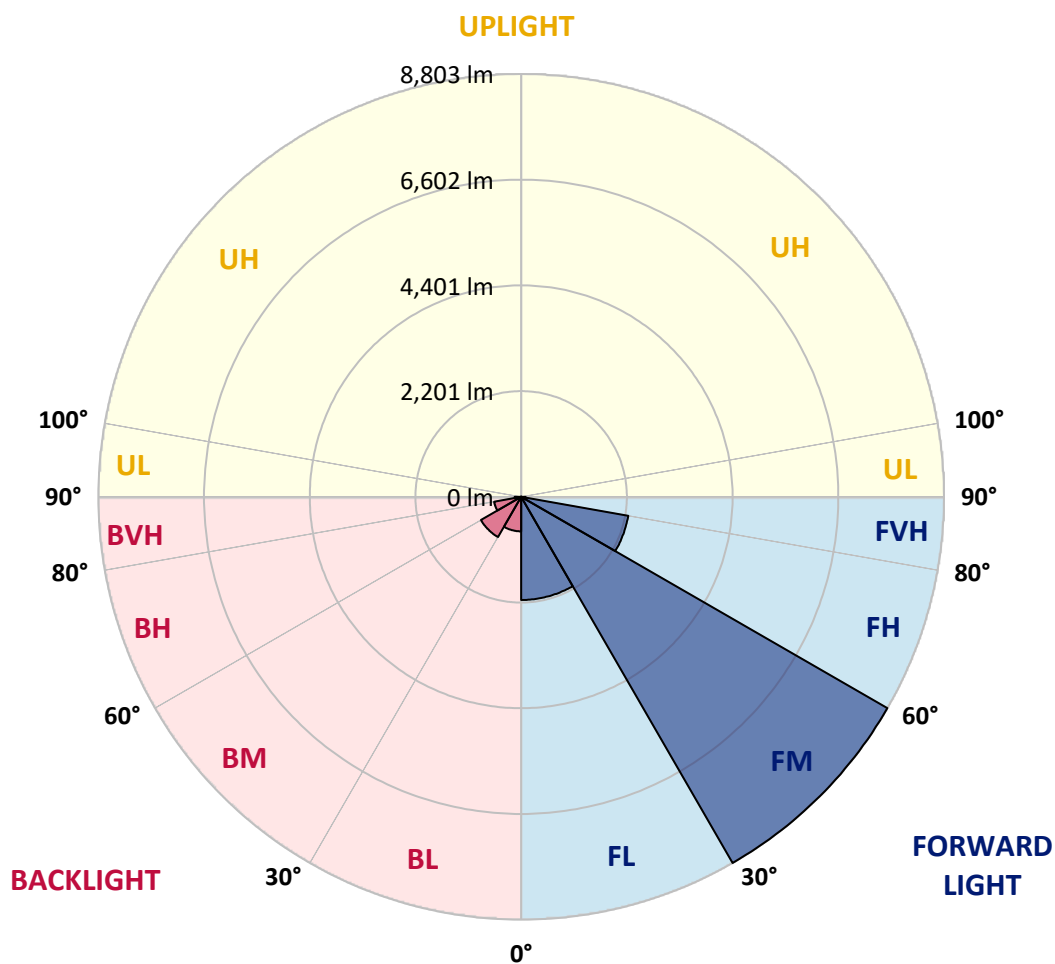
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2147.6	13.7			
FM	(30°-60°)	8802.9	56.1			
FH	(60°-80°)	2263.6	14.4			G2/5000
FVH	(80°-90°)	89.2	0.6			G1/100
BL	(0°-30°)	719.5	4.6	B2/1000		
BM	(30°-60°)	966.2	6.2	B1/1000		
BH	(60°-80°)	571.2	3.6	B2/1000		G2/1000
BVH	(80°-90°)	137.0	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°	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7
2.5°	4764.7	4726.2	4701.9	4680.4	4652.4	4592.5	4511.9	4460.9	4435.1	4347.1	4242.9
5°	5231.9	5197.9	5172.8	5143.9	5093.6	4999.7	4869.6	4766.2	4715.2	4539.2	4330.8
7.5°	5122.4	5136.5	5180.1	5256.3	5321.3	5308.7	5192.6	5061.1	4993.8	4749.2	4432.7
10°	4463.1	4487.5	4562.8	4741.1	5029.3	5325.0	5415.2	5324.2	5256.3	4956.9	4537.7
12.5°	4330.8	4330.1	4336.0	4383.3	4554.8	4971.0	5422.5	5514.2	5473.6	5155.0	4644.9
15°	4384.8	4386.2	4381.9	4401.7	4454.9	4619.8	5196.4	5587.4	5616.3	5354.6	4755.8
17.5°	4526.7	4523.0	4506.0	4506.0	4525.2	4589.6	4930.3	5519.3	5652.4	5531.2	4853.4
20°	4764.7	4747.7	4702.6	4661.2	4640.6	4675.2	4820.8	5362.7	5589.6	5685.8	4933.9
22.5°	5053.0	5039.7	4966.5	4877.8	4806.1	4805.3	4877.0	5226.0	5481.0	5831.2	5002.0
25°	5425.5	5404.1	5295.5	5153.5	5027.9	4979.8	4999.7	5219.4	5421.8	5989.5	5062.5
27.5°	5863.1	5823.9	5695.3	5490.6	5305.7	5208.9	5180.1	5339.7	5475.7	6185.3	5146.8
30°	6393.9	6348.7	6183.8	5917.1	5656.2	5497.2	5435.8	5553.4	5654.6	6424.1	5282.1
32.5°	6997.7	6932.7	6742.0	6447.8	6104.9	5862.5	5762.6	5835.7	5916.3	6711.7	5451.4
35°	7832.2	7754.6	7478.9	7073.1	6685.8	6352.5	6192.9	6246.1	6324.4	7140.4	5696.0
37.5°	8401.4	8366.6	8183.4	7801.9	7380.6	6997.0	6750.1	6781.1	6825.5	7676.3	6009.5
40°	8396.2	8410.2	8413.9	8417.7	8130.8	7763.5	7498.1	7465.5	7456.7	8264.7	6365.8
42.5°	7975.6	8033.3	8219.6	8597.3	8771.8	8603.2	8360.0	8266.1	8219.6	8958.0	6743.5
45°	7331.9	7362.9	7711.7	8449.4	9099.9	9434.7	9250.8	8955.1	8870.8	9595.1	7056.8
47.5°	6999.9	7034.0	7253.5	8057.7	9096.3	10106.7	10213.1	9649.9	9499.1	10149.5	7327.4
50°	6209.7	6280.8	6557.2	7376.2	8764.3	10415.6	11219.2	10477.8	10165.8	10689.2	7598.7
52.5°	4758.8	4868.1	5177.9	6255.6	7922.4	10262.6	12024.1	11481.5	11040.9	11247.9	7831.4
55°	3001.8	3083.1	3343.3	4418.0	6337.7	9466.6	12329.4	12567.3	12175.7	11777.2	8033.3
57.5°	1632.2	1668.3	1765.8	2439.2	4122.4	7706.6	11884.3	13185.3	13022.7	12226.6	8185.6
58°	1460.6	1485.0	1545.6	2114.0	3656.0	7225.5	11687.0	13187.6	13106.2	12292.4	8197.4
60°	1083.7	1071.1	1017.1	1206.3	2035.0	4991.6	10494.1	12659.8	12898.5	12372.9	8139.7
62.5°	952.0	921.7	811.6	799.0	989.8	2299.6	8029.6	10844.4	11408.5	11913.2	7789.4
65°	894.4	861.8	719.9	674.1	714.0	972.7	4730.0	8133.2	8840.5	10519.2	6893.5
67.5°	851.5	809.4	661.6	598.7	601.7	643.1	1895.9	5122.4	5918.6	7986.8	5361.9
70°	810.1	764.3	612.1	539.6	522.6	508.6	754.0	2564.2	3286.3	5044.8	3418.6
72.5°	765.8	720.7	568.4	493.0	459.8	413.2	492.3	1048.9	1465.0	2386.8	1550.8
75°	701.5	660.8	524.8	451.7	404.4	342.2	371.8	547.7	657.0	950.5	747.4
77.5°	622.3	589.1	476.1	417.6	358.5	277.9	286.0	379.9	421.3	544.0	444.2
80°	447.2	459.0	423.6	375.6	319.4	225.4	219.5	277.2	299.4	349.6	289.0
82.5°	314.1	320.7	350.4	306.8	263.9	177.4	161.9	195.1	208.4	229.9	155.9
85°	216.6	209.2	240.3	213.6	190.6	118.2	110.9	132.3	140.4	142.7	80.6
87.5°	130.1	130.1	139.0	114.6	102.7	61.4	59.9	75.4	80.6	76.9	44.4
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°	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7	4169.7
2.5°	4180.7	4128.3	4016.7	3927.3	3814.1	3696.6	3630.8	3560.5	3512.5	3477.8	3533.2
5°	4212.5	4105.3	3874.8	3656.0	3414.3	3162.9	2972.2	2794.9	2671.4	2594.5	2666.9
7.5°	4262.8	4098.0	3730.5	3356.6	2922.6	2504.3	2130.3	1895.9	1759.2	1692.0	1734.1
10°	4320.4	4086.2	3561.3	2950.8	2329.9	1802.9	1523.4	1428.8	1397.8	1385.2	1391.1
12.5°	4368.5	4061.0	3353.6	2460.0	1749.6	1423.6	1343.2	1340.8	1347.5	1349.1	1351.2
15°	4402.5	4024.0	3045.4	1948.4	1399.3	1297.2	1292.7	1306.0	1318.6	1323.9	1326.9
17.5°	4425.4	3947.9	2697.3	1540.4	1253.6	1235.9	1246.2	1263.2	1276.5	1280.2	1283.2
20°	4423.3	3836.3	2282.5	1284.7	1174.5	1174.5	1192.2	1205.5	1206.3	1201.9	1204.1
22.5°	4400.3	3683.2	1880.5	1148.7	1104.3	1116.8	1134.6	1122.1	1070.3	1036.4	1038.5
25°	4361.8	3500.6	1535.9	1062.2	1039.3	1061.5	1056.3	961.7	887.7	854.5	854.5
27.5°	4327.9	3284.9	1271.3	986.8	974.3	1001.6	909.9	824.2	793.1	777.6	772.5
30°	4303.5	3052.0	1094.7	914.4	912.9	892.8	789.4	765.8	760.6	748.0	743.6
32.5°	4309.4	2816.2	981.5	850.8	855.9	764.3	731.8	737.0	732.5	719.3	713.4
35°	4358.2	2592.2	907.7	793.1	777.6	690.4	697.7	707.4	706.0	687.5	681.6
37.5°	4445.3	2380.1	858.9	745.0	678.6	653.5	665.3	680.0	676.4	663.8	659.4
40°	4537.0	2180.6	819.0	707.4	620.1	628.2	638.6	646.9	650.4	654.1	651.1
42.5°	4626.5	1972.1	770.2	669.0	595.8	604.6	609.1	617.2	637.2	651.1	650.4
45°	4679.7	1776.2	719.9	614.2	576.6	581.7	578.7	595.0	619.4	642.3	643.1
47.5°	4738.8	1623.9	680.0	564.0	558.1	561.8	552.9	569.1	591.3	619.4	622.3
50°	4810.5	1533.0	648.2	524.1	532.9	532.9	530.7	545.5	576.6	609.1	615.0
52.5°	4891.9	1515.3	621.6	495.3	507.8	507.1	509.2	531.4	565.4	597.2	602.4
55°	4990.9	1563.4	592.8	473.8	483.5	486.4	493.8	518.9	547.7	584.0	586.1
57.5°	5106.2	1661.0	569.9	456.8	461.3	470.8	482.7	505.6	536.7	576.6	578.7
58°	5125.5	1681.6	566.2	455.3	456.8	467.8	481.2	503.3	534.4	578.0	580.2
60°	5126.1	1750.4	558.1	448.7	439.8	458.3	473.1	495.3	530.7	583.2	588.4
62.5°	4944.3	1749.6	552.2	439.1	422.1	445.0	461.9	487.9	527.0	595.8	606.2
65°	4353.8	1589.9	524.1	424.3	408.0	433.1	452.4	482.7	537.3	650.4	657.0
67.5°	3405.4	1303.1	471.6	403.6	389.5	421.3	446.5	482.0	548.5	662.9	667.5
70°	2251.5	974.9	414.0	379.9	370.3	407.3	449.4	507.1	535.9	636.4	624.6
72.5°	1168.6	684.5	367.3	350.4	348.1	394.8	492.3	504.1	523.4	598.7	584.0
75°	613.5	475.3	326.6	317.8	321.6	391.8	581.0	490.8	507.1	572.8	600.9
77.5°	375.6	383.6	291.9	288.2	295.6	382.9	580.2	473.8	483.5	527.0	558.1
80°	251.3	311.2	265.4	266.1	271.3	350.4	521.1	447.2	454.6	498.2	530.0
82.5°	159.0	184.1	240.9	253.5	246.9	289.0	442.7	407.3	417.6	569.9	602.4
85°	80.6	115.3	209.2	243.9	222.5	202.5	359.3	357.1	362.2	411.1	429.5
87.5°	36.9	63.6	163.4	212.8	167.8	126.4	260.9	264.6	285.2	291.9	291.9
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)