

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: P192702

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192702
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19249.3 lumens
Efficiency: N/A
Efficacy: 112.6 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): 171
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



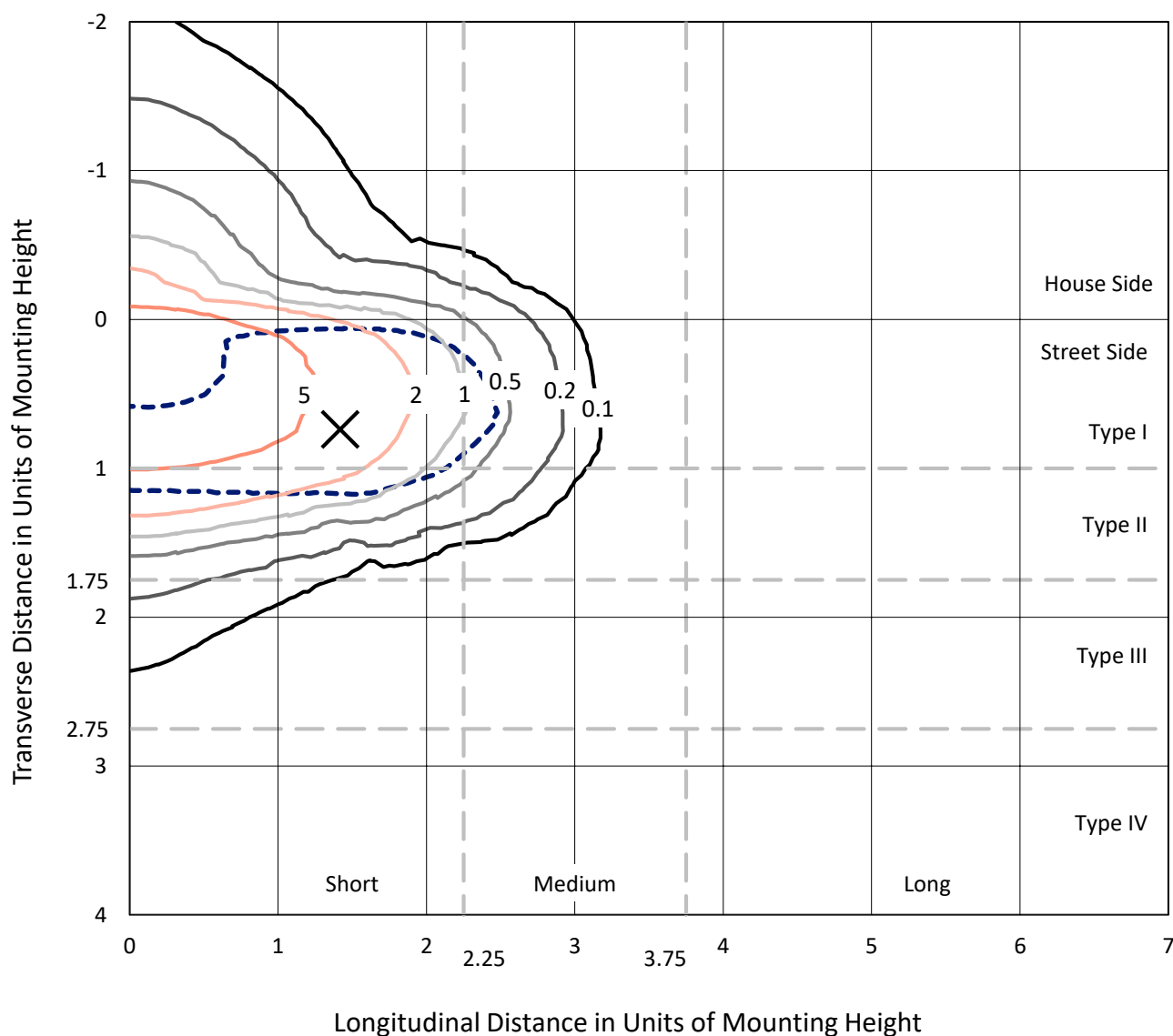
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

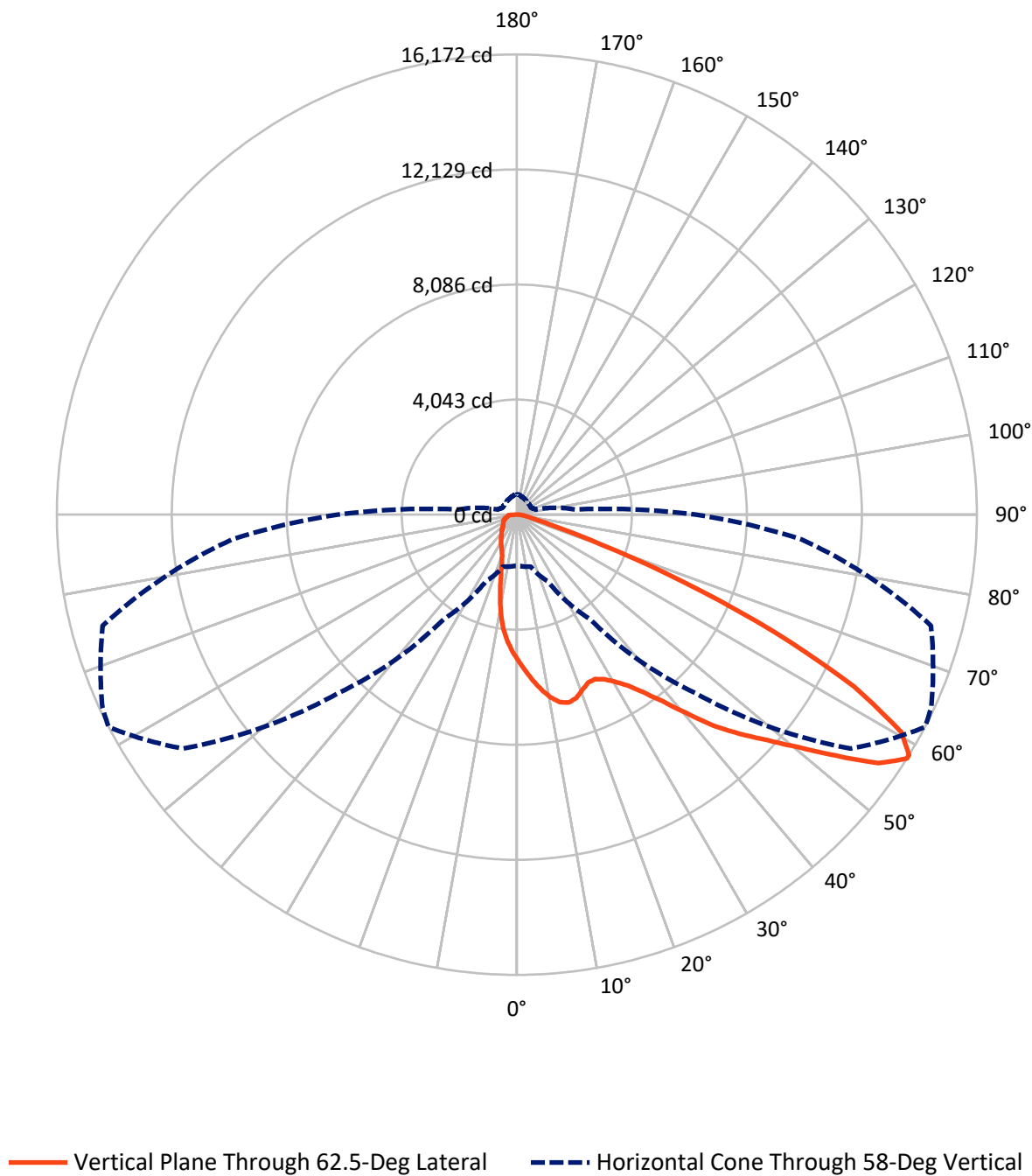


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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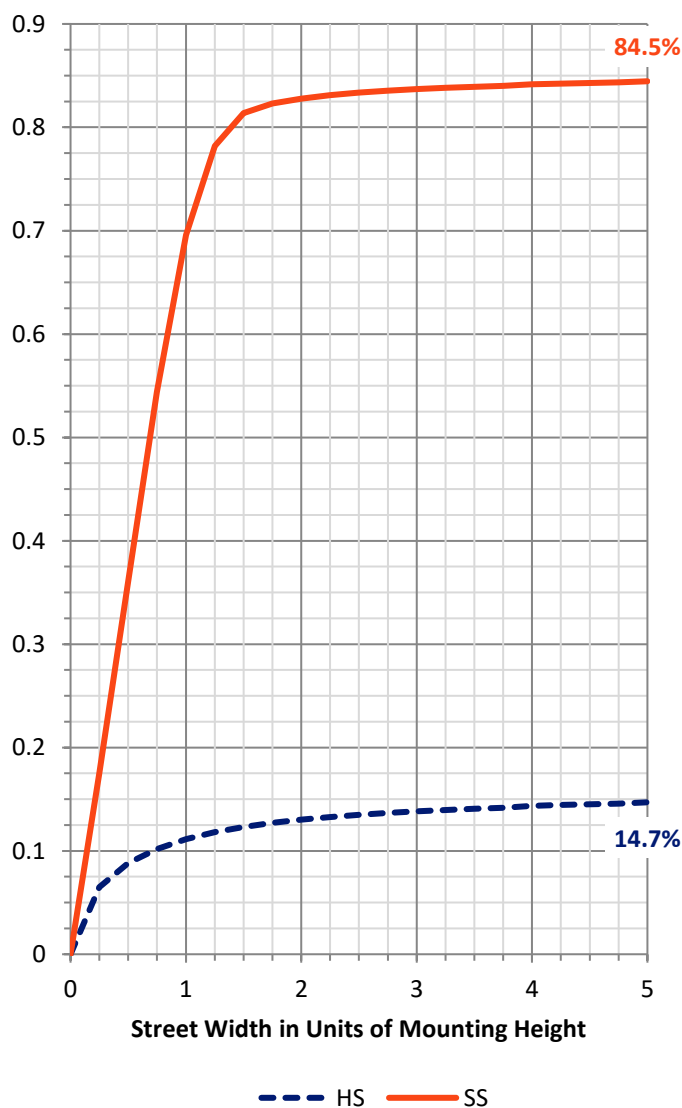
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2935.6	0.0	2935.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16313.7	0.0	16313.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	19249.3	0.0	19249.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	2.4
10°-20°	1168.9	6.1
20°-30°	1889.6	9.8
30°-40°	2999.7	15.6
40°-50°	4389.3	22.8
50°-60°	4590.8	23.8
60°-70°	2712.2	14.1
70°-80°	764.0	4.0
80°-90°	277.4	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°	19249.3	100.0
0°-180°	19249.3	100.0

Coefficient of Utilization



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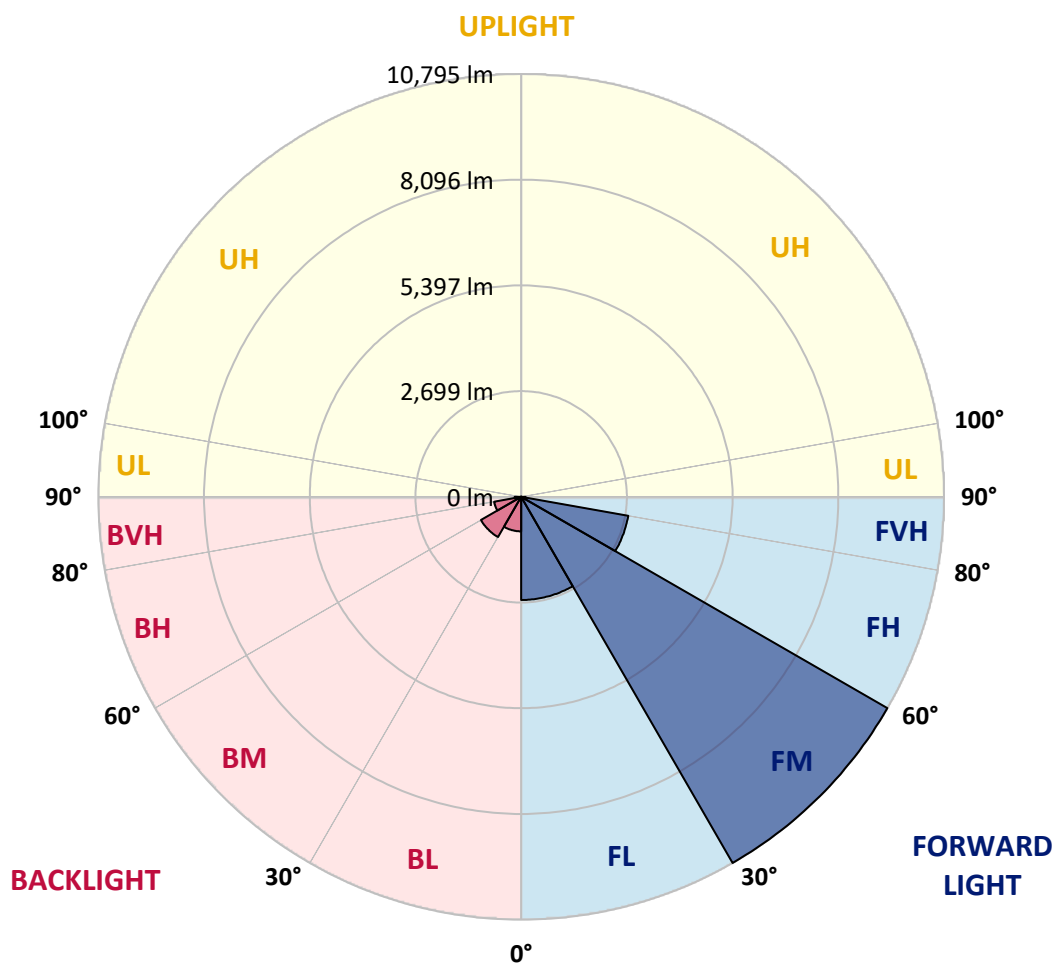
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2633.5	13.7			
FM	(30°-60°)	10794.9	56.1			
FH	(60°-80°)	2775.8	14.4			G2/5000
FVH	(80°-90°)	109.4	0.6			G2/225
BL	(0°-30°)	882.3	4.6	B2/1000		
BM	(30°-60°)	1184.9	6.2	B2/2500		
BH	(60°-80°)	700.5	3.6	B2/1000		G2/1000
BVH	(80°-90°)	168.0	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°	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3
2.5°	5842.8	5795.7	5765.8	5739.5	5705.1	5631.7	5532.9	5470.3	5438.6	5330.8	5202.9
5°	6415.7	6374.0	6343.3	6307.9	6246.3	6131.1	5971.6	5844.8	5782.1	5566.4	5310.8
7.5°	6281.6	6298.8	6352.3	6445.6	6525.4	6510.0	6367.7	6206.4	6123.9	5823.8	5435.8
10°	5473.1	5503.0	5595.3	5813.9	6167.3	6530.0	6640.6	6529.0	6445.6	6078.5	5564.6
12.5°	5310.8	5309.9	5317.1	5375.1	5585.5	6095.8	6649.6	6761.9	6712.2	6321.4	5696.0
15°	5376.9	5378.8	5373.4	5397.9	5463.1	5665.2	6372.2	6851.7	6887.0	6566.2	5831.9
17.5°	5551.0	5546.4	5525.6	5525.6	5549.2	5628.1	6045.9	6768.3	6931.5	6782.9	5951.7
20°	5842.8	5822.0	5766.7	5716.0	5690.6	5733.2	5911.8	6576.2	6854.5	6972.3	6050.4
22.5°	6196.4	6180.0	6090.3	5981.5	5893.7	5892.7	5980.7	6408.5	6721.2	7150.8	6133.9
25°	6653.3	6626.9	6493.8	6319.7	6165.5	6106.6	6131.1	6400.3	6648.7	7344.9	6208.1
27.5°	7189.8	7141.7	6984.1	6733.0	6506.4	6387.7	6352.3	6548.0	6714.8	7585.0	6311.5
30°	7840.7	7785.4	7583.2	7256.0	6936.0	6741.2	6665.9	6810.0	6934.2	7877.8	6477.3
32.5°	8581.2	8501.5	8267.5	7906.8	7486.2	7188.9	7066.6	7156.3	7255.1	8230.4	6684.9
35°	9604.6	9509.4	9171.3	8673.6	8198.7	7789.8	7594.1	7659.4	7755.4	8756.1	6985.0
37.5°	10302.5	10259.9	10035.1	9567.4	9050.7	8580.2	8277.6	8315.6	8370.1	9413.3	7369.3
40°	10296.1	10313.4	10317.9	10322.5	9970.8	9520.3	9194.8	9155.0	9144.1	10134.8	7806.2
42.5°	9780.5	9851.2	10079.5	10542.8	10756.7	10550.0	10251.8	10136.6	10079.5	10985.0	8269.4
45°	8991.0	9028.9	9456.8	10361.4	11159.0	11569.7	11344.0	10981.4	10878.1	11766.3	8653.7
47.5°	8584.0	8625.6	8894.8	9881.0	11154.6	12393.6	12524.2	11833.5	11648.5	12446.3	8985.5
50°	7615.0	7701.9	8040.9	9045.2	10747.7	12772.5	13757.8	12848.7	12466.2	13108.0	9318.1
52.5°	5835.6	5969.7	6349.6	7671.1	9715.2	12584.9	14745.0	14079.5	13539.4	13793.2	9603.7
55°	3681.1	3780.7	4099.9	5417.7	7771.7	11608.7	15119.3	15411.1	14930.8	14442.2	9851.2
57.5°	2001.4	2045.8	2165.5	2991.2	5055.2	9450.5	14573.6	16169.0	15969.6	14993.3	10037.8
58°	1791.1	1821.1	1895.3	2592.4	4483.2	8860.4	14331.6	16171.7	16071.9	15074.0	10052.3
60°	1328.8	1313.4	1247.3	1479.3	2495.4	6121.1	12868.7	15524.4	15817.3	15172.8	9981.6
62.5°	1167.4	1130.3	995.3	979.8	1213.8	2819.9	9846.6	13298.3	13989.9	14608.9	9552.0
65°	1096.8	1056.9	882.9	826.6	875.6	1192.9	5800.2	9973.5	10840.9	12899.4	8453.4
67.5°	1044.2	992.5	811.2	734.2	737.8	788.7	2325.0	6281.6	7257.8	9794.0	6575.2
70°	993.5	937.2	750.5	661.7	640.8	623.7	924.6	3144.4	4030.0	6186.4	4192.3
72.5°	939.1	883.8	697.1	604.6	563.8	506.8	603.6	1286.2	1796.5	2926.8	1901.6
75°	860.2	810.3	643.5	553.8	495.8	419.7	455.9	671.6	805.8	1165.7	916.3
77.5°	763.1	722.4	583.8	512.1	439.7	340.8	350.8	465.9	516.7	667.1	544.7
80°	548.4	562.9	519.4	460.4	391.5	276.4	269.3	339.9	367.1	428.8	354.4
82.5°	385.2	393.5	429.6	376.2	323.6	217.5	198.6	239.3	255.6	281.9	191.2
85°	265.6	256.5	294.6	262.0	233.9	145.0	135.9	162.2	172.2	175.0	98.8
87.5°	159.5	159.5	170.5	140.5	125.9	75.3	73.4	92.5	98.8	94.3	54.4
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°	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3	5113.3
2.5°	5126.8	5062.4	4925.5	4815.8	4677.2	4533.0	4452.5	4366.3	4307.3	4264.7	4332.7
5°	5165.8	5034.3	4751.4	4483.2	4186.9	3878.6	3644.8	3427.3	3275.8	3181.6	3270.4
7.5°	5227.4	5025.3	4574.8	4116.2	3584.0	3071.0	2612.4	2325.0	2157.4	2074.9	2126.5
10°	5298.1	5010.7	4367.2	3618.4	2857.0	2210.8	1868.2	1752.1	1714.1	1698.7	1705.9
12.5°	5357.0	4979.9	4112.5	3016.6	2145.6	1745.8	1647.0	1644.3	1652.4	1654.1	1656.9
15°	5398.7	4934.5	3734.5	2389.4	1715.9	1590.9	1585.4	1601.6	1617.0	1623.4	1627.1
17.5°	5426.8	4841.3	3307.6	1889.0	1537.3	1515.5	1528.2	1549.1	1565.3	1569.9	1573.6
20°	5424.0	4704.3	2799.1	1575.4	1440.4	1440.4	1462.1	1478.4	1479.3	1473.9	1476.5
22.5°	5396.0	4516.8	2305.9	1408.6	1354.2	1369.6	1391.4	1376.0	1312.5	1270.8	1273.5
25°	5348.9	4292.9	1883.5	1302.6	1274.4	1301.6	1295.3	1179.2	1088.7	1047.8	1047.8
27.5°	5307.2	4028.2	1559.0	1210.0	1194.6	1228.2	1115.9	1010.6	972.6	953.7	947.2
30°	5277.2	3742.6	1342.5	1121.2	1119.5	1095.0	968.0	939.1	932.7	917.3	911.9
32.5°	5284.6	3453.4	1203.7	1043.3	1049.7	937.2	897.3	903.7	898.2	881.9	874.7
35°	5344.3	3178.9	1113.2	972.6	953.7	846.6	855.7	867.4	865.7	842.9	835.8
37.5°	5451.3	2918.8	1053.3	913.7	832.1	801.3	815.8	833.8	829.4	814.0	808.5
40°	5563.7	2674.0	1004.3	867.4	760.5	770.5	783.2	793.1	797.7	802.2	798.5
42.5°	5673.4	2418.4	944.5	820.3	730.6	741.5	746.9	756.8	781.3	798.5	797.7
45°	5738.7	2178.2	882.9	753.3	707.0	713.4	709.7	729.7	759.6	787.6	788.7
47.5°	5811.2	1991.5	833.8	691.6	684.4	688.9	678.1	697.9	725.2	759.6	763.1
50°	5899.0	1880.0	795.0	642.7	653.6	653.6	650.8	669.0	707.0	746.9	754.1
52.5°	5998.8	1858.2	762.3	607.3	622.7	621.8	624.5	651.7	693.5	732.4	738.7
55°	6120.2	1917.1	727.0	581.0	592.8	596.4	605.6	636.3	671.6	716.0	718.8
57.5°	6261.6	2036.7	698.8	560.2	565.6	577.4	591.8	620.0	658.1	707.0	709.7
58°	6285.2	2062.2	694.4	558.4	560.2	573.7	590.1	617.4	655.3	708.9	711.5
60°	6286.1	2146.4	684.4	550.2	539.3	562.0	580.1	607.3	650.8	715.2	721.5
62.5°	6063.2	2145.6	677.1	538.4	517.6	545.6	566.5	598.2	646.3	730.6	743.3
65°	5338.9	1949.7	642.7	520.3	500.3	531.2	554.7	591.8	659.0	797.7	805.8
67.5°	4175.9	1598.0	578.3	495.0	477.7	516.7	547.5	591.0	672.6	813.1	818.5
70°	2761.0	1195.7	507.6	465.9	454.1	499.5	551.1	621.8	657.2	780.4	765.9
72.5°	1433.1	839.3	450.4	429.6	426.8	484.0	603.6	618.2	641.8	734.2	716.0
75°	752.4	582.8	400.7	389.7	394.3	480.4	712.5	601.9	621.8	702.5	737.0
77.5°	460.4	470.5	358.1	353.6	362.5	469.5	711.5	581.0	592.8	646.3	684.4
80°	308.2	381.7	325.4	326.3	332.7	429.6	639.0	548.4	557.4	611.0	649.9
82.5°	194.9	225.7	295.5	311.0	302.7	354.4	542.9	499.5	512.1	698.8	738.7
85°	98.8	141.4	256.5	299.2	272.8	248.3	440.6	437.8	444.1	504.0	526.6
87.5°	45.4	77.9	200.3	261.0	205.7	155.0	320.0	324.5	349.8	358.1	358.1
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)