

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: P194448

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL2-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63315 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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



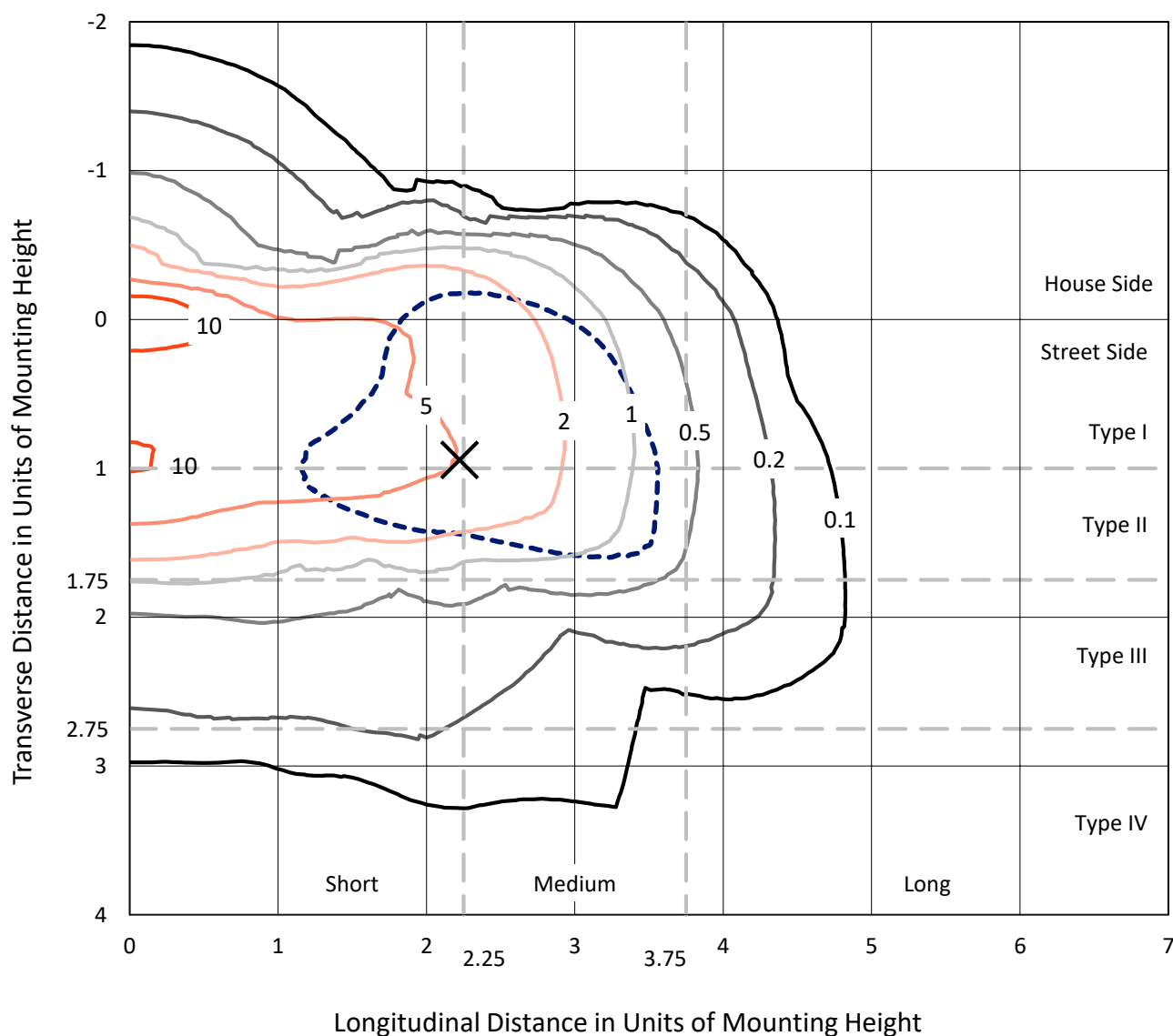
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

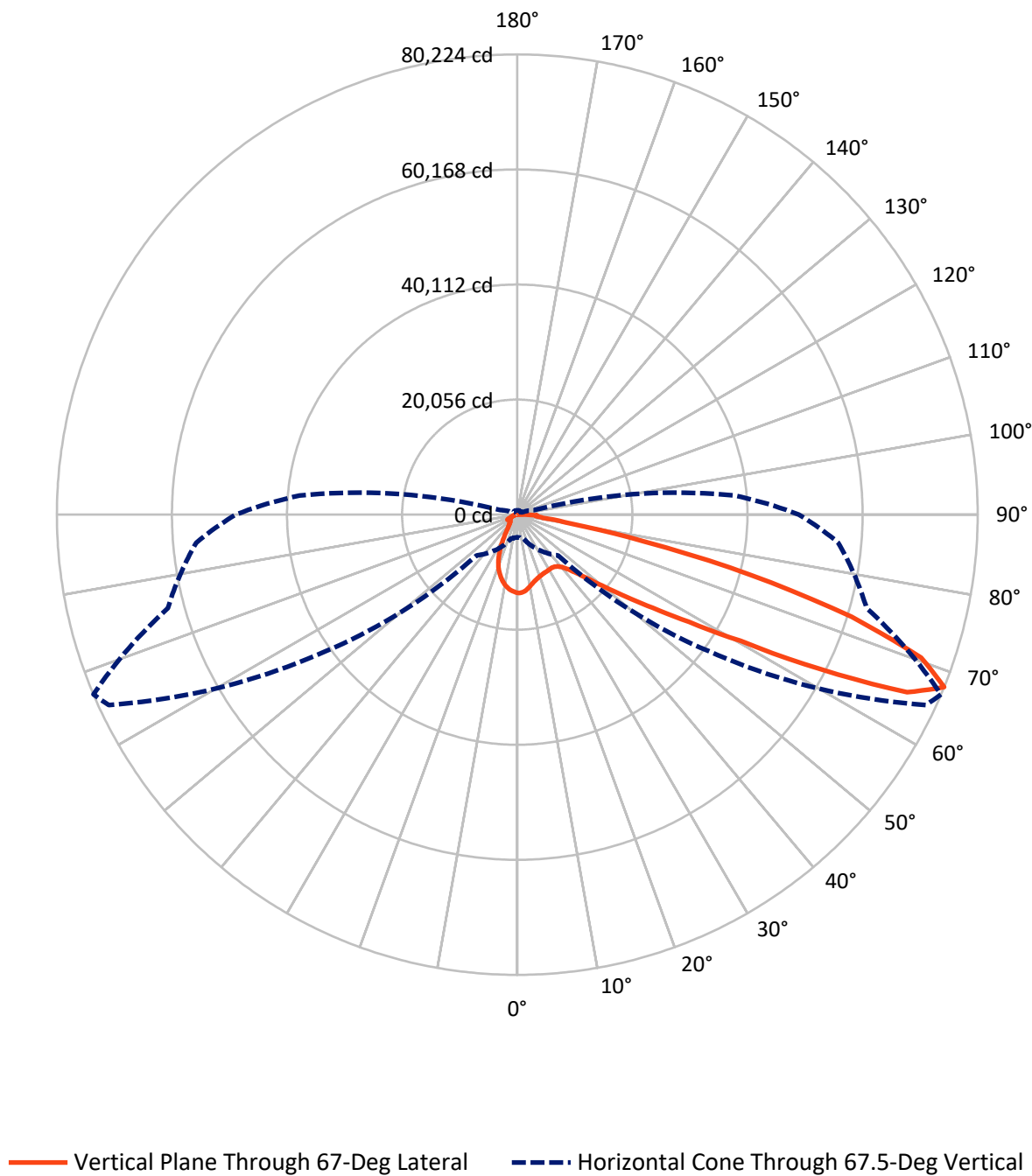


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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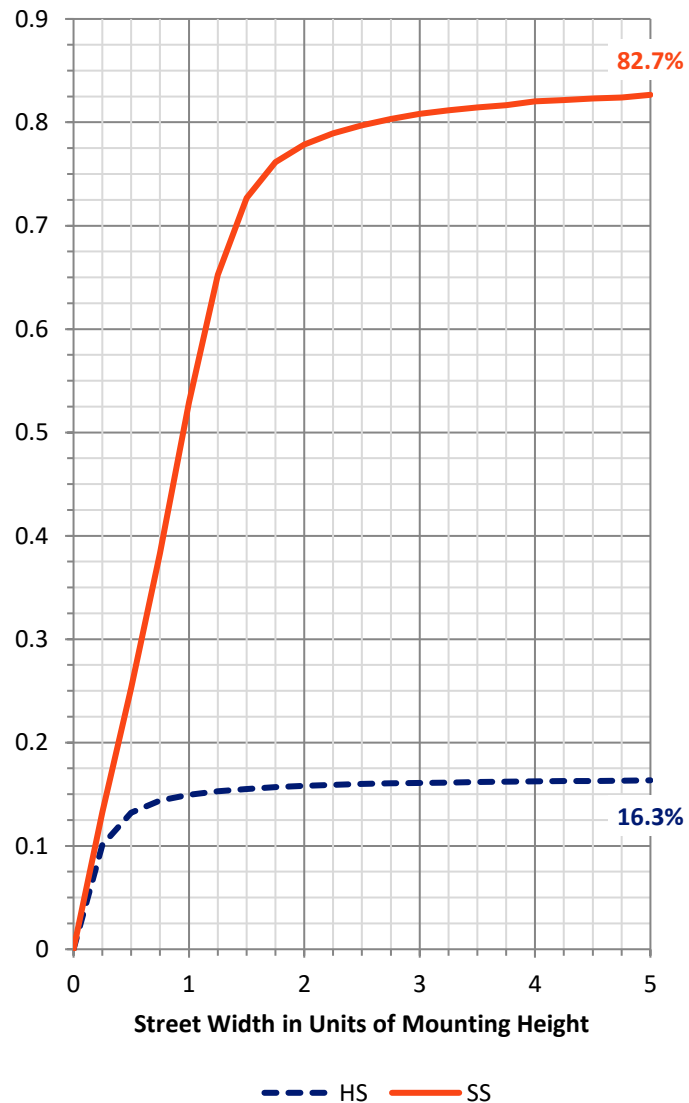
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10490.6	0.0	10490.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	52824.4	0.0	52824.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	63315.0	0.0	63315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.1	1.8
10°-20°	2695.9	4.3
20°-30°	3654.4	5.8
30°-40°	5195.1	8.2
40°-50°	8691.6	13.7
50°-60°	13750.1	21.7
60°-70°	17516.2	27.7
70°-80°	9175.0	14.5
80°-90°	1471.5	2.3
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°	63315.0	100.0
0°-180°	63315.0	100.0

Coefficient of Utilization



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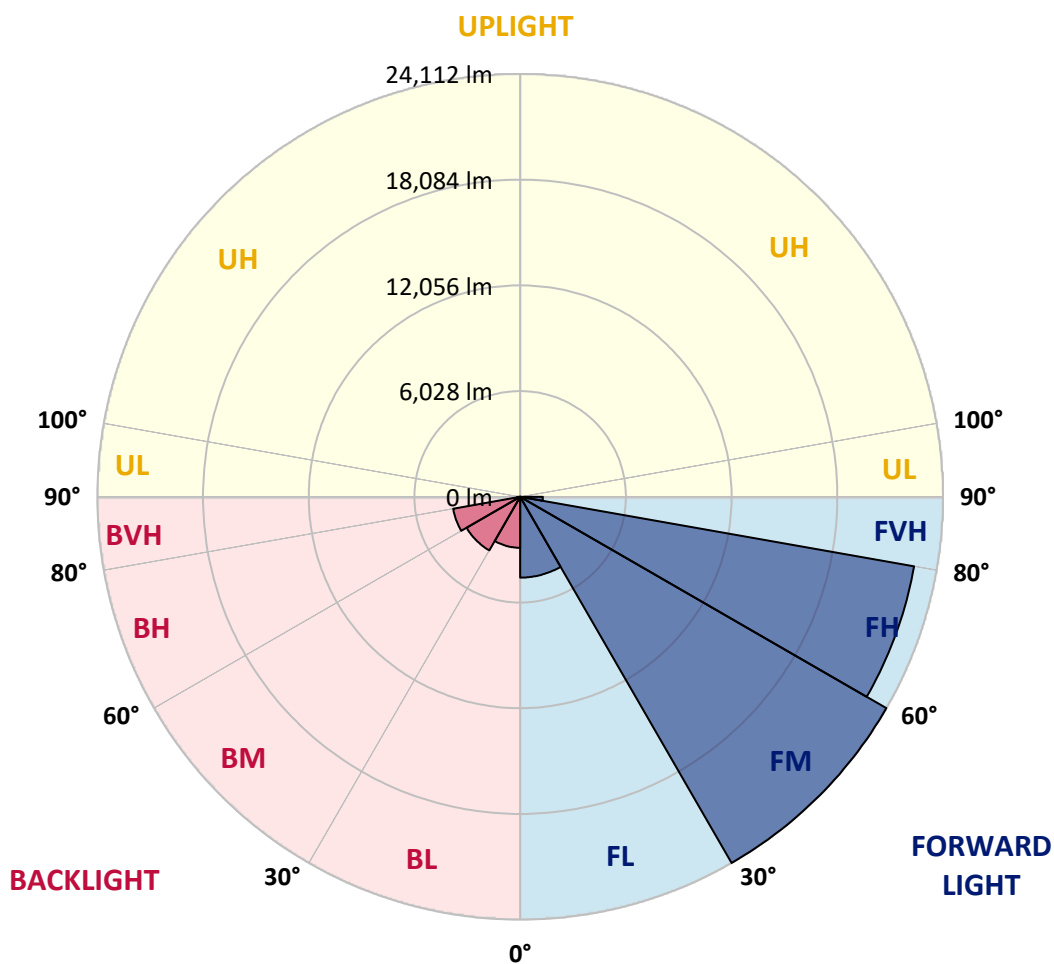
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4607.8	7.3			
FM	(30°-60°)	24111.7	38.1			
FH	(60°-80°)	22811.1	36.0			G5
FVH	(80°-90°)	1293.9	2.0			G5
BL	(0°-30°)	2907.7	4.6	B4/5000		
BM	(30°-60°)	3525.2	5.6	B3/5000		
BH	(60°-80°)	3880.1	6.1	B4/5000		G4/5000
BVH	(80°-90°)	177.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9
2.5°	13094.9	13116.7	13185.4	13229.1	13425.8	13510.1	13569.5	13628.8	13638.2	13666.3	13638.2
5°	11721.1	11767.9	11895.9	12039.5	12420.5	12720.2	13035.6	13363.4	13422.7	13635.0	13694.4
7.5°	10656.4	10643.9	10750.0	10921.8	11312.1	11727.3	12280.0	12932.5	13060.5	13538.2	13769.3
10°	9878.9	9869.6	9982.0	10159.9	10531.5	10924.9	11549.3	12442.3	12623.4	13385.3	13841.1
12.5°	9304.4	9307.5	9419.9	9616.6	9994.4	10391.0	11024.8	11967.7	12198.8	13207.3	13916.0
15°	8923.5	8948.5	9039.0	9248.2	9616.6	10013.2	10634.5	11611.8	11870.9	13066.8	14000.3
17.5°	8795.5	8836.1	8867.3	9020.3	9335.6	9732.2	10341.0	11349.5	11624.3	12970.0	14075.3
20°	8914.1	8961.0	8901.6	8954.7	9154.6	9504.2	10110.0	11143.4	11424.5	12860.7	14084.6
22.5°	9423.1	9466.8	9291.9	9138.9	9126.4	9338.8	9919.5	10981.1	11271.5	12779.5	14087.8
25°	10319.2	10347.3	10053.8	9697.8	9351.3	9279.4	9785.3	10868.7	11177.8	12707.7	14028.4
27.5°	11418.2	11440.1	11102.9	10578.3	9882.0	9419.9	9738.4	10803.1	11124.7	12645.3	13928.5
30°	12754.5	12857.6	12404.9	11742.9	10728.2	9835.2	9832.1	10768.8	11065.4	12539.1	13731.8
32.5°	14122.1	14165.8	13853.6	13182.3	11867.8	10565.8	10094.4	10793.8	11049.8	12411.1	13482.0
35°	15508.4	15564.6	15361.7	14821.5	13425.8	11636.8	10606.4	10940.5	11146.6	12367.4	13307.2
37.5°	17303.7	17378.7	17097.7	16473.2	15321.1	13088.6	11458.8	11308.9	11443.2	12492.3	13254.1
40°	20141.9	20107.5	19286.4	18355.9	17394.3	14946.4	12676.5	11933.4	12011.4	12895.1	13416.5
42.5°	23445.3	23361.0	21946.6	20485.3	19673.5	17194.4	14287.6	13016.8	13001.2	13688.1	13987.9
45°	26080.5	26011.8	24737.9	22936.3	22286.9	19754.7	16370.2	14631.0	14515.5	14946.4	15043.2
47.5°	27507.4	27510.5	26776.7	25306.1	25290.5	23008.1	19046.0	16966.5	16766.7	16969.6	16866.6
50°	27007.8	27073.4	26995.3	26527.0	28031.9	27273.2	22539.8	20223.1	19820.3	20020.1	19623.6
52.5°	24591.1	24675.4	25137.5	25855.7	29184.0	32428.1	27672.8	24269.5	23801.2	23729.4	23289.2
55°	20307.4	20410.4	21353.3	23304.8	28225.5	35890.7	35772.1	29427.6	28681.3	28003.8	27816.5
57.5°	13997.2	14168.9	15686.4	18583.9	25125.1	36936.7	45416.8	36780.6	35263.1	32896.4	32940.1
60°	7890.0	8089.8	9878.9	12511.0	18868.0	35800.2	52754.2	47917.8	44714.3	38625.8	38950.6
62.5°	5017.5	5233.0	6591.2	8692.5	11321.4	29680.5	55761.0	63401.2	59332.9	45688.4	46006.9
65°	4062.1	4155.8	4795.8	7175.0	8221.0	17881.3	53478.6	76155.7	74638.3	54652.5	53166.3
67.5°	3965.3	3996.5	4327.5	6022.9	7883.8	10050.6	42656.7	78541.2	80224.1	63023.4	56148.1
70°	3918.5	4027.8	4877.0	5748.1	7549.7	8477.0	25634.0	72003.1	74660.2	65212.1	52179.7
72.5°	1901.5	1895.2	2454.1	5198.6	8505.1	8792.4	13169.8	58258.8	60925.2	56497.8	42878.4
75°	1533.0	1401.9	1339.5	1904.6	8177.3	9079.6	8392.7	40087.1	42016.6	37879.6	26358.4
77.5°	1455.0	1298.9	1189.6	1192.7	3456.4	9629.1	7109.5	22187.0	22749.0	17110.1	7221.9
80°	1205.2	1061.6	983.5	1108.4	1673.5	9170.2	7687.1	10041.3	9213.9	4202.6	2404.2
82.5°	836.8	761.8	740.0	930.4	1339.5	6535.0	8939.1	5395.3	4524.2	2104.4	1483.1
85°	533.9	455.9	505.8	677.5	1042.8	3016.1	9207.6	4205.7	3344.0	1336.3	836.8
87.5°	246.7	199.8	249.8	374.7	680.7	1039.7	8761.1	4724.0	3443.9	705.6	527.7
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°	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9	13656.9
2.5°	13663.1	13603.8	13557.0	13469.6	13372.8	13279.1	13194.8	13088.6	13057.4	13029.3	13073.0
5°	13706.8	13647.5	13475.8	13207.3	12910.7	12632.8	12354.9	12117.6	11970.9	11889.7	11936.5
7.5°	13772.4	13688.1	13332.2	12838.9	12304.9	11817.9	11315.2	10912.4	10615.8	10475.3	10515.9
10°	13831.7	13669.4	13088.6	12348.7	11568.1	10843.7	10050.6	9395.0	8907.9	8651.9	8714.3
12.5°	13856.7	13597.6	12748.3	11736.7	10665.7	9604.2	8436.4	7456.0	6756.6	6500.6	6447.5
15°	13881.7	13516.4	12373.6	11040.4	9576.1	8074.2	6438.2	5264.2	4683.4	4555.4	4527.3
17.5°	13887.9	13375.9	11949.0	10284.8	8299.0	6253.9	4402.4	3656.2	3659.3	3865.4	3890.4
20°	13822.4	13166.7	11433.8	9345.0	6769.1	4324.4	3022.4	2894.4	3365.8	3881.0	3943.5
22.5°	13672.5	12888.8	10850.0	8249.1	5017.5	2847.5	2338.6	2479.1	3087.9	3718.6	3790.5
25°	13482.0	12551.6	10159.9	6978.3	3322.1	2035.7	1960.8	2132.5	2544.7	2966.2	3006.8
27.5°	13222.9	12151.9	9385.6	5523.3	2157.5	1676.7	1726.6	1842.2	2010.8	2198.1	2216.8
30°	12888.8	11674.2	8558.2	4027.8	1629.8	1508.1	1579.9	1642.3	1714.1	1820.3	1829.7
32.5°	12504.8	11215.3	7708.9	2782.0	1445.6	1420.6	1476.8	1508.1	1564.3	1629.8	1636.1
35°	12183.2	10778.1	6828.4	1967.0	1367.6	1355.1	1392.5	1405.0	1458.1	1529.9	1536.2
37.5°	11999.0	10422.2	5919.9	1586.1	1314.5	1295.7	1317.6	1317.6	1392.5	1498.7	1514.3
40°	12011.4	10225.5	5011.3	1433.1	1270.8	1245.8	1248.9	1248.9	1345.7	1461.2	1470.6
42.5°	12351.8	10275.5	4205.7	1373.8	1236.4	1208.3	1192.7	1202.1	1283.3	1358.2	1364.4
45°	13151.1	10628.3	3450.1	1336.3	1202.1	1192.7	1158.4	1155.2	1186.5	1220.8	1220.8
47.5°	14462.4	11324.5	2938.1	1311.4	1174.0	1170.9	1130.3	1089.7	1086.6	1099.0	1099.0
50°	16595.0	12523.5	2594.6	1283.3	1155.2	1130.3	1083.4	1021.0	999.1	1008.5	1008.5
52.5°	19792.2	14662.3	2463.5	1245.8	1114.7	1074.1	1021.0	958.5	939.8	942.9	942.9
55°	23985.4	17946.9	2444.8	1202.1	1070.9	1005.4	961.7	914.8	893.0	899.2	899.2
57.5°	29109.1	22489.8	2778.8	1133.4	1011.6	936.7	911.7	880.5	864.9	874.2	871.1
60°	35338.1	28434.7	4121.4	1061.6	952.3	874.2	874.2	849.3	836.8	846.1	843.0
62.5°	42513.1	35263.1	5795.0	1008.5	889.9	824.3	836.8	824.3	811.8	818.0	814.9
65°	48876.3	39712.4	5426.5	967.9	827.4	777.4	799.3	793.1	783.7	789.9	786.8
67.5°	49060.5	38063.8	3047.4	924.2	768.1	730.6	761.8	758.7	752.5	758.7	755.6
70°	43783.9	32140.8	1717.3	843.0	705.6	674.4	718.1	715.0	708.8	721.2	718.1
72.5°	35078.9	23323.5	1255.2	743.1	643.2	615.1	665.0	661.9	661.9	680.7	671.3
75°	20185.6	12002.1	1002.3	636.9	577.6	555.8	599.5	602.6	608.8	633.8	615.1
77.5°	5754.4	3740.5	818.0	540.2	496.4	487.1	530.8	537.0	540.2	568.3	543.3
80°	2138.8	1723.5	674.4	452.7	405.9	409.0	449.6	459.0	462.1	490.2	459.0
82.5°	1364.4	1136.5	546.4	349.7	318.5	315.4	365.3	377.8	377.8	380.9	362.2
85°	796.2	680.7	412.1	252.9	224.8	215.4	271.6	293.5	284.1	277.9	265.4
87.5°	533.9	468.3	252.9	140.5	121.8	115.5	159.2	174.8	168.6	159.2	149.9
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)