

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: P193243

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T3R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32271.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

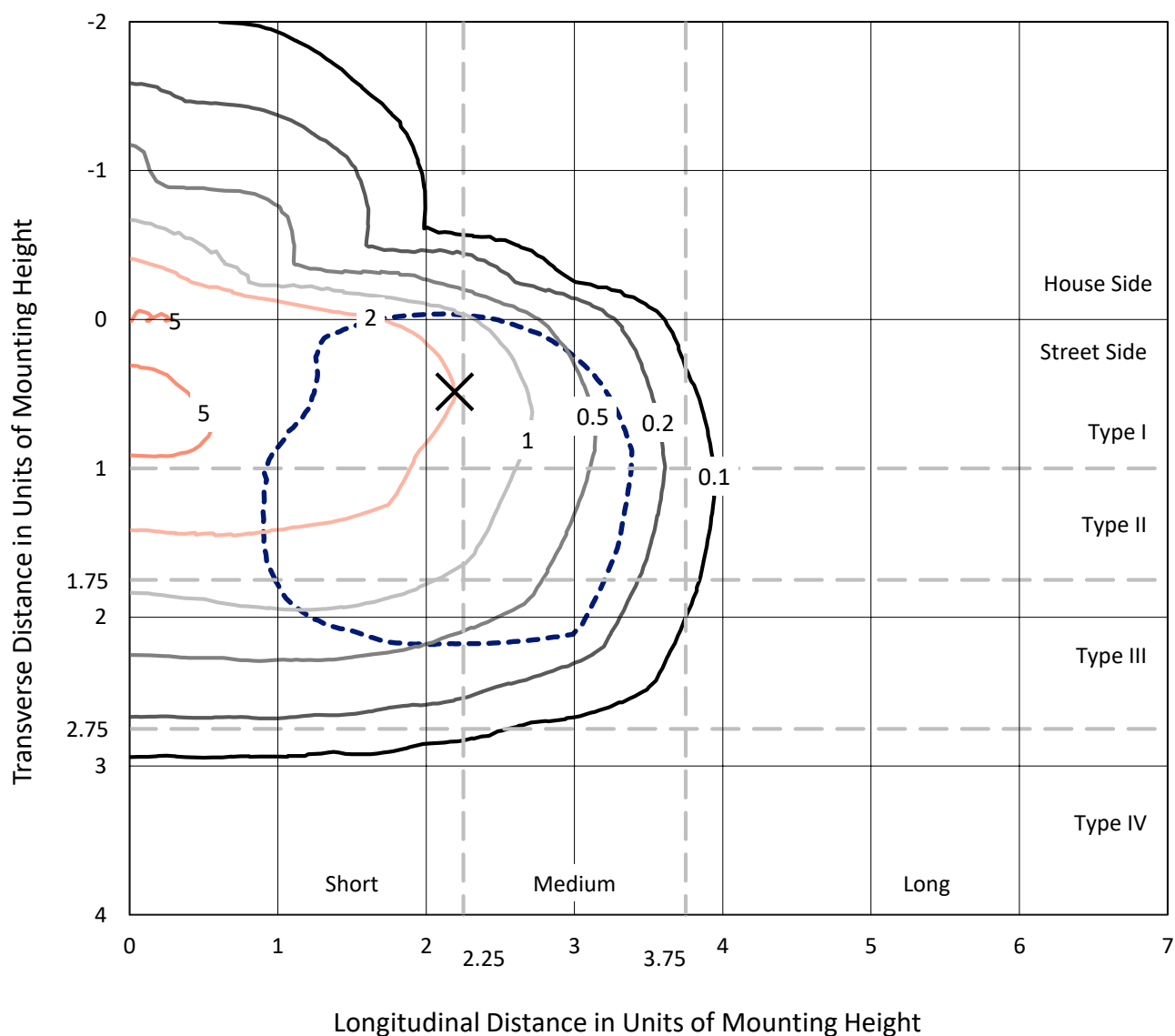


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

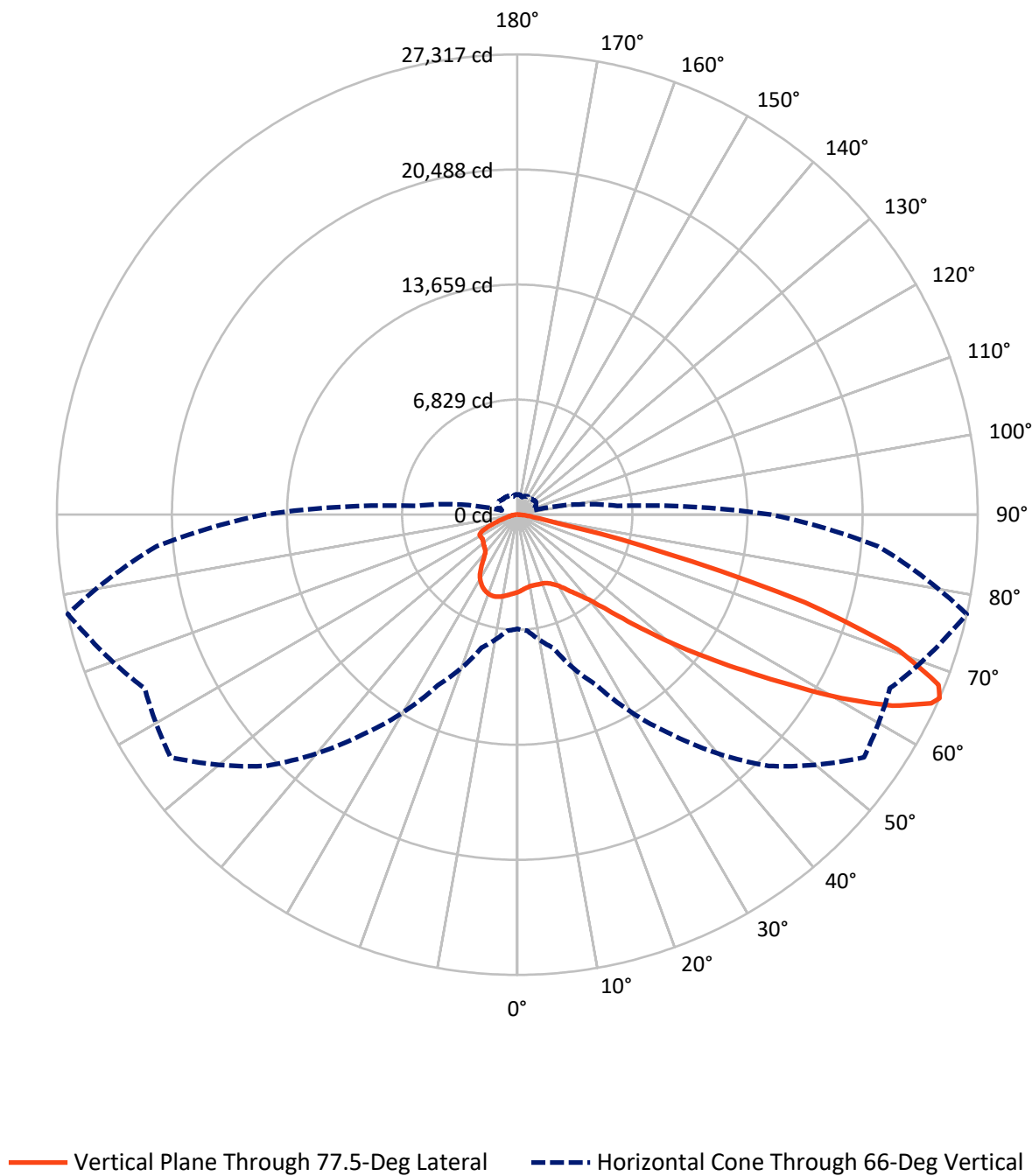


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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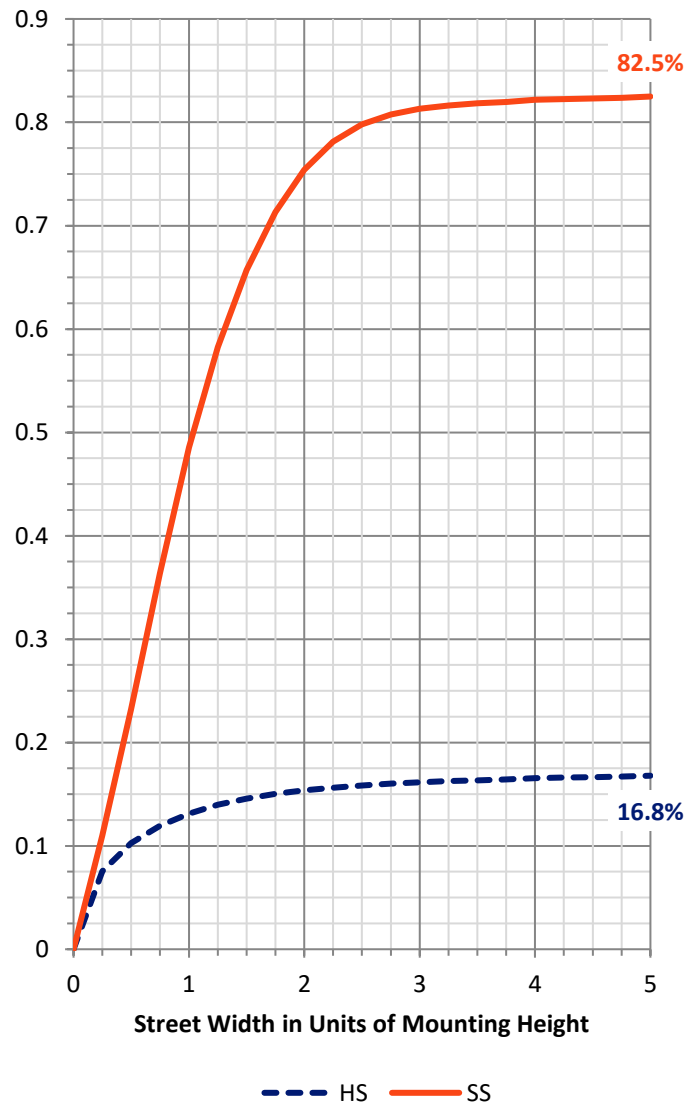
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5513.4	0.0	5513.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	26758.5	0.0	26758.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	32271.9	0.0	32271.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	1.3
10°-20°	1159.1	3.6
20°-30°	1978.3	6.1
30°-40°	3166.8	9.8
40°-50°	4892.5	15.2
50°-60°	6939.2	21.5
60°-70°	9282.8	28.8
70°-80°	4031.3	12.5
80°-90°	411.1	1.3
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°	32271.9	100.0
0°-180°	32271.9	100.0

Coefficient of Utilization



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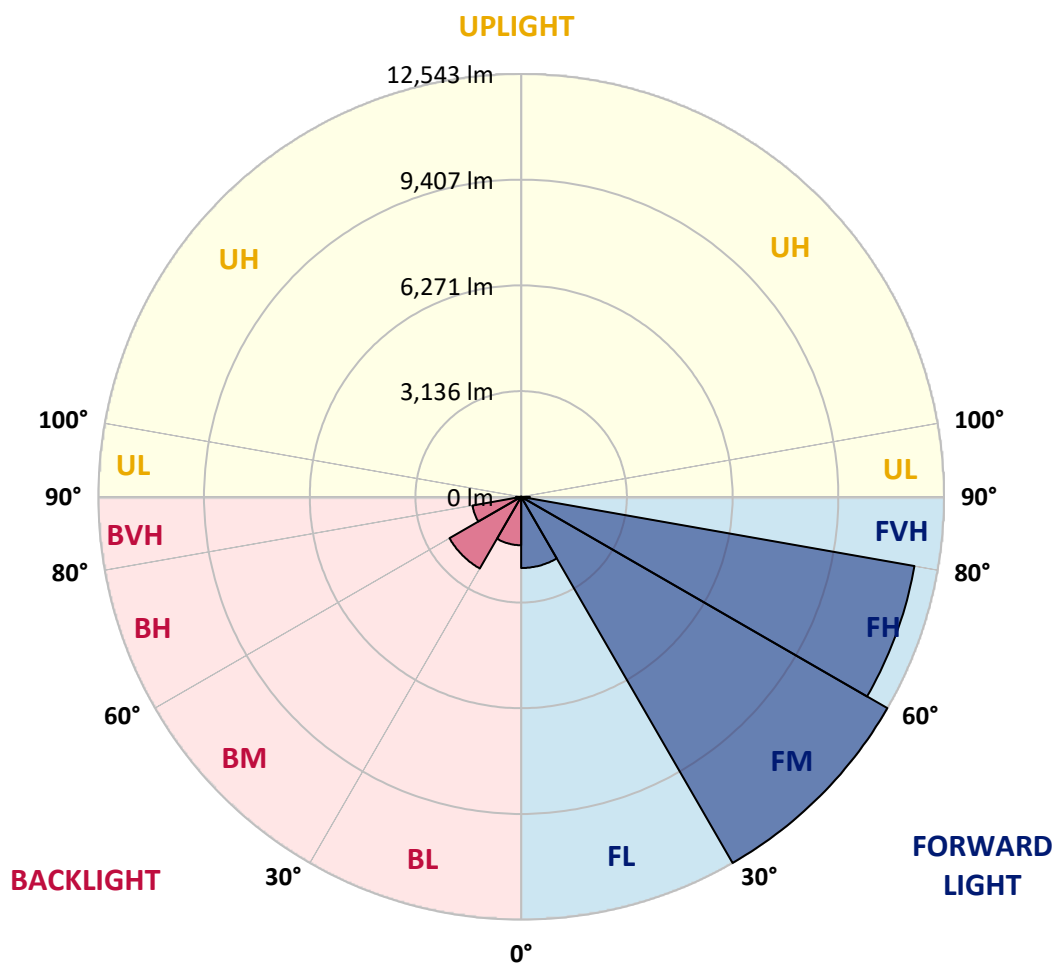
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2112.3	6.5			
FM	(30°-60°)	12542.6	38.9			
FH	(60°-80°)	11845.7	36.7			G4/12000
FVH	(80°-90°)	257.8	0.8			G3/500
BL	(0°-30°)	1435.9	4.4	B3/2500		
BM	(30°-60°)	2455.9	7.6	B2/2500		
BH	(60°-80°)	1468.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	153.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9
2.5°	4068.3	4095.7	4118.5	4140.0	4182.7	4252.8	4333.6	4399.1	4493.8	4512.0	4562.3
5°	3694.7	3694.7	3712.9	3745.0	3803.0	3908.2	4017.9	4164.3	4370.2	4419.0	4553.2
7.5°	3513.2	3514.8	3525.5	3552.9	3603.2	3699.3	3819.7	3992.0	4271.1	4351.9	4580.5
10°	3580.3	3565.0	3542.1	3528.4	3536.0	3592.6	3706.8	3899.0	4210.1	4313.8	4641.6
12.5°	3955.4	3926.4	3847.1	3741.9	3641.3	3600.1	3667.2	3854.7	4184.2	4304.6	4722.4
15°	4568.4	4556.2	4408.3	4190.2	3946.2	3741.9	3696.2	3838.1	4187.2	4315.3	4818.5
17.5°	5336.9	5320.2	5125.0	4807.9	4409.8	4011.9	3798.4	3851.7	4197.8	4333.6	4911.5
20°	6113.0	6061.2	5850.9	5472.6	4961.8	4379.3	3967.6	3886.8	4211.6	4353.4	5009.1
22.5°	6692.4	6649.8	6460.7	6093.3	5504.7	4804.7	4194.8	3947.7	4255.8	4411.4	5129.5
25°	7201.9	7204.9	7017.2	6662.0	6053.6	5256.1	4487.6	4111.0	4368.6	4530.3	5294.2
27.5°	7831.6	7795.0	7619.6	7267.4	6596.4	5712.1	4841.4	4335.1	4536.3	4699.6	5510.7
30°	8584.8	8559.0	8356.0	7956.6	7198.8	6201.5	5245.4	4595.9	4752.9	4922.1	5794.3
32.5°	9470.7	9458.6	9248.1	8734.3	7894.1	6777.9	5719.6	4940.4	5076.1	5251.5	6201.5
35°	10510.6	10512.2	10263.7	9646.1	8655.0	7448.9	6258.0	5384.2	5469.6	5652.5	6686.4
37.5°	11151.1	11228.9	11135.8	10506.2	9516.5	8199.1	6956.3	5972.7	5917.9	6102.3	7206.4
40°	11288.3	11382.8	11677.2	11357.0	10480.1	9025.5	7575.4	6538.5	6469.9	6695.5	7875.7
42.5°	11096.3	11227.4	11849.5	12075.2	11503.4	10044.1	8407.9	7378.8	7291.8	7595.1	8708.3
45°	10981.8	11079.4	11799.1	12448.8	12390.8	11195.4	9467.7	8433.8	8401.8	8799.8	9669.0
47.5°	10783.7	10872.1	11564.3	12535.7	12912.3	12250.4	10740.9	9723.8	9786.4	10307.8	10753.1
50°	10890.4	10926.9	11302.1	12314.6	13063.2	13023.6	12163.7	11218.2	11431.7	12082.8	11980.6
52.5°	10875.1	10969.6	11271.6	11951.7	13083.0	13500.8	13565.0	12884.8	13334.6	14081.9	13342.3
55°	8792.2	8966.1	10913.3	11860.2	13153.1	13969.1	14812.3	14641.5	15480.1	16350.7	14879.4
57.5°	8395.7	8505.5	9585.1	12052.3	13525.3	14862.5	16199.9	16574.9	17977.8	18988.7	16751.8
60°	8318.0	8453.7	9571.4	12287.1	14280.0	16318.8	18256.9	18915.6	21016.8	22123.8	18923.1
62.5°	8075.6	8221.9	9481.4	12256.6	15352.0	18333.0	20890.3	21404.1	23898.8	24975.2	20739.3
65°	7307.0	7444.3	8748.0	11764.1	16074.8	20483.1	24007.0	23685.2	26173.8	26983.4	21645.1
66°	6780.9	6915.1	8170.1	11184.7	15907.0	21093.0	25110.9	24391.2	26683.1	27317.4	21468.2
67.5°	5818.8	5923.9	7047.8	9887.0	15015.1	21263.8	26039.5	24921.9	26736.4	26960.6	20457.1
70°	3676.3	3706.8	4580.5	6825.2	11366.1	18441.4	24626.1	23604.5	24531.6	23924.6	17149.8
72.5°	1594.9	1584.3	2198.9	3472.0	6434.9	12374.0	19920.4	19476.7	19243.4	17858.9	12005.0
75°	887.4	899.6	1142.1	1611.8	2615.1	6078.0	13031.3	12470.1	10529.0	8984.3	5443.7
77.5°	712.2	728.9	947.0	1143.6	1174.1	2119.5	6097.8	4961.8	2987.1	2397.0	1512.5
80°	562.6	593.2	826.4	890.5	791.4	873.7	1970.1	1575.2	1181.7	1084.2	783.7
82.5°	445.2	466.6	709.1	674.0	553.5	588.6	943.9	919.5	768.5	700.0	452.9
85°	320.2	359.9	582.5	507.7	363.0	396.5	626.7	600.8	440.7	359.9	199.7
87.5°	131.1	170.8	411.7	336.9	202.7	184.5	312.6	294.4	208.9	152.5	99.1
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°	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9	4598.9
2.5°	4594.4	4631.0	4678.2	4707.2	4722.4	4733.1	4749.8	4748.3	4752.9	4754.4	4760.5
5°	4624.8	4685.8	4754.4	4772.8	4772.8	4755.9	4739.2	4711.7	4701.1	4698.0	4701.1
7.5°	4704.1	4771.3	4830.7	4809.4	4763.6	4696.5	4609.5	4533.3	4492.2	4478.4	4475.4
10°	4804.7	4885.5	4910.0	4829.2	4695.0	4533.3	4361.0	4236.0	4164.3	4144.5	4138.4
12.5°	4926.7	5003.0	4969.4	4798.6	4550.1	4289.4	4051.5	3851.7	3702.2	3655.0	3652.0
15°	5060.9	5120.4	5003.0	4704.1	4333.6	3949.2	3525.5	3180.7	2994.8	2935.4	2930.8
17.5°	5186.0	5216.5	4983.2	4539.4	4014.8	3392.7	2830.2	2564.8	2500.7	2516.0	2519.0
20°	5292.7	5292.7	4916.0	4303.0	3513.2	2659.3	2304.1	2299.5	2345.1	2390.9	2400.1
22.5°	5410.1	5339.9	4798.6	3969.2	2802.6	2175.9	2124.1	2166.8	2218.6	2269.0	2276.5
25°	5555.0	5378.1	4635.6	3462.9	2203.4	1976.2	1996.0	2031.1	2057.1	2089.0	2093.6
27.5°	5716.6	5426.9	4420.5	2766.0	1912.1	1851.2	1866.3	1878.6	1875.6	1887.8	1890.8
30°	5910.3	5483.2	4126.1	2162.2	1791.7	1744.5	1717.0	1706.3	1706.3	1726.1	1733.7
32.5°	6169.5	5567.2	3703.8	1852.7	1733.7	1668.2	1579.8	1540.1	1555.3	1622.4	1637.7
35°	6454.6	5657.1	3132.0	1747.5	1721.5	1633.1	1495.9	1422.7	1424.2	1486.7	1506.5
37.5°	6765.7	5771.5	2505.4	1727.6	1749.0	1634.6	1451.6	1351.0	1309.8	1309.8	1317.4
40°	7163.7	5888.8	2028.1	1741.4	1806.9	1652.9	1428.8	1294.6	1178.7	1181.7	1187.8
42.5°	7682.1	5989.6	1771.8	1770.3	1877.1	1677.3	1427.3	1219.9	1119.3	1187.8	1250.4
45°	8258.5	6039.9	1659.0	1796.2	1933.5	1692.5	1402.9	1207.7	1126.9	1331.3	1450.1
47.5°	8921.8	6010.9	1596.5	1805.4	1947.2	1692.5	1375.3	1236.6	1180.2	1541.6	1680.4
50°	9649.1	5927.0	1535.5	1787.2	1942.6	1689.4	1401.4	1265.7	1200.0	1578.2	1674.3
52.5°	10504.6	5856.9	1471.5	1747.5	1910.6	1672.8	1431.9	1253.4	1137.5	1434.9	1502.0
55°	11480.5	5876.7	1399.8	1691.0	1860.2	1640.7	1421.1	1204.6	1072.0	1264.1	1305.2
57.5°	12727.8	6113.0	1314.4	1619.3	1791.7	1587.3	1383.0	1181.7	1052.1	1146.6	1171.0
60°	14120.0	6524.8	1207.7	1547.6	1706.3	1502.0	1354.0	1192.4	1061.2	1137.5	1149.7
62.5°	15141.5	6764.1	1116.2	1442.4	1590.4	1407.4	1317.4	1206.1	1085.7	1169.5	1166.5
65°	15419.1	6370.8	1001.8	1288.5	1433.4	1308.3	1271.7	1221.4	1096.3	1195.6	1181.7
66°	15030.2	5946.9	951.5	1216.8	1354.0	1259.5	1248.9	1219.9	1091.8	1198.6	1175.6
67.5°	14086.5	5077.8	864.6	1111.6	1227.5	1186.3	1212.2	1206.1	1079.6	1195.6	1163.5
70°	11488.1	3464.4	739.5	925.5	1021.7	1044.5	1142.1	1157.4	1039.9	1142.1	1072.0
72.5°	8026.7	2110.4	654.1	718.2	826.4	890.5	1046.0	1090.3	986.6	997.2	930.2
75°	3879.1	1120.8	593.2	556.5	642.0	744.2	930.2	998.7	902.7	834.0	809.7
77.5°	1209.2	684.6	503.2	448.3	503.2	600.8	777.7	875.2	803.6	698.3	689.2
80°	649.5	503.2	387.4	359.9	398.0	471.1	611.5	730.4	690.7	626.7	559.6
82.5°	428.6	326.3	286.7	279.0	303.4	359.9	454.4	605.4	605.4	536.8	390.4
85°	221.1	199.7	196.6	196.6	212.0	239.4	309.5	466.6	497.1	283.6	234.8
87.5°	109.8	114.4	106.7	111.3	119.0	117.5	147.9	234.8	280.6	172.3	143.3
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)