

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: P193276

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46416.6 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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



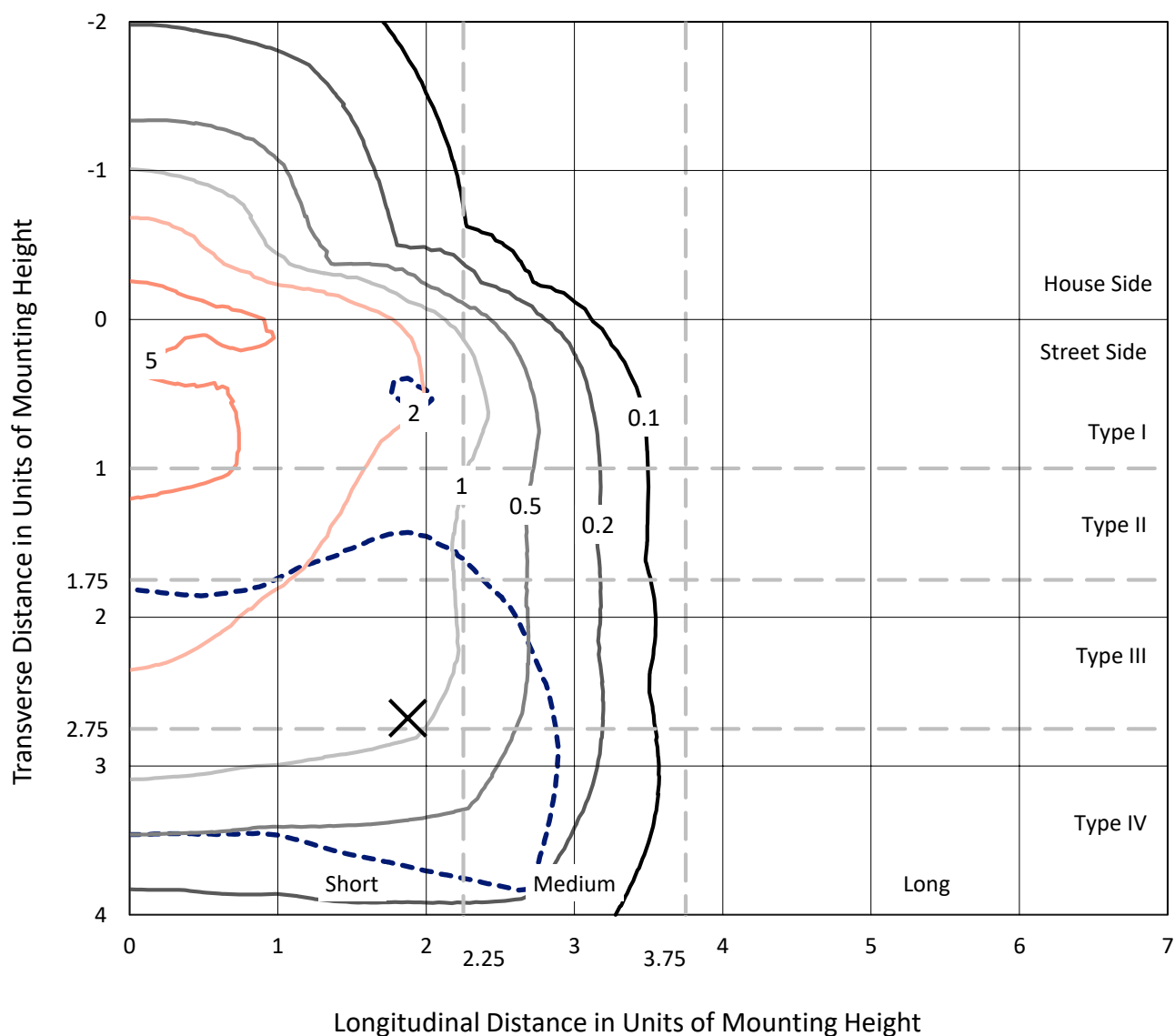
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

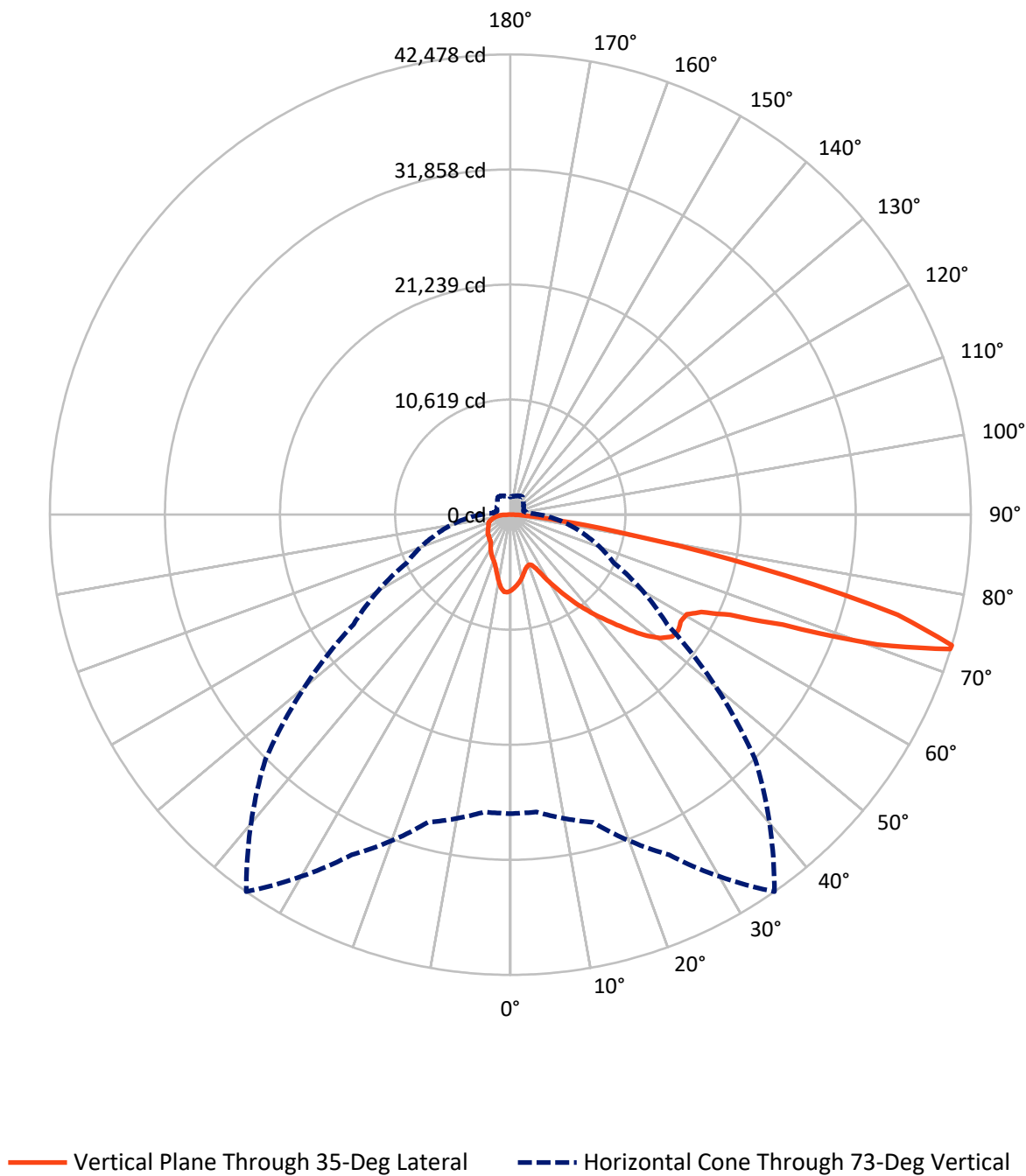


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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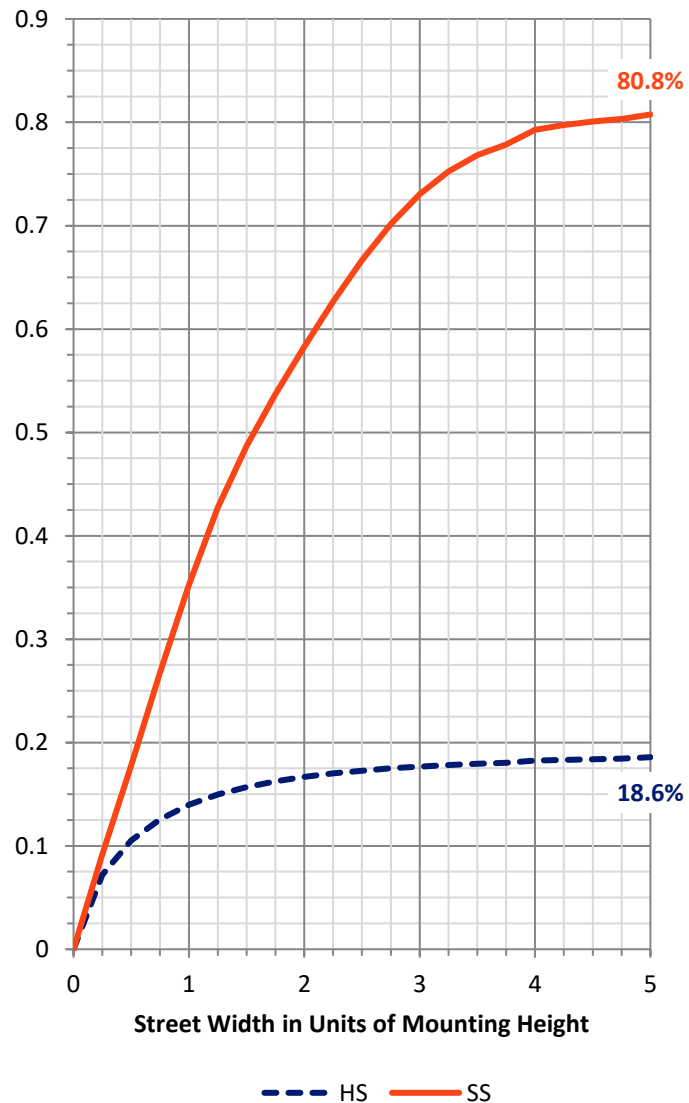
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8852.9	0.0	8852.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	37563.7	0.0	37563.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	46416.6	0.0	46416.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.2	1.4
10°-20°	1582.9	3.4
20°-30°	2559.0	5.5
30°-40°	4291.1	9.2
40°-50°	6614.5	14.3
50°-60°	8874.1	19.1
60°-70°	11822.1	25.5
70°-80°	9016.7	19.4
80°-90°	1022.0	2.2
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°	46416.6	100.0
0°-180°	46416.6	100.0

Coefficient of Utilization



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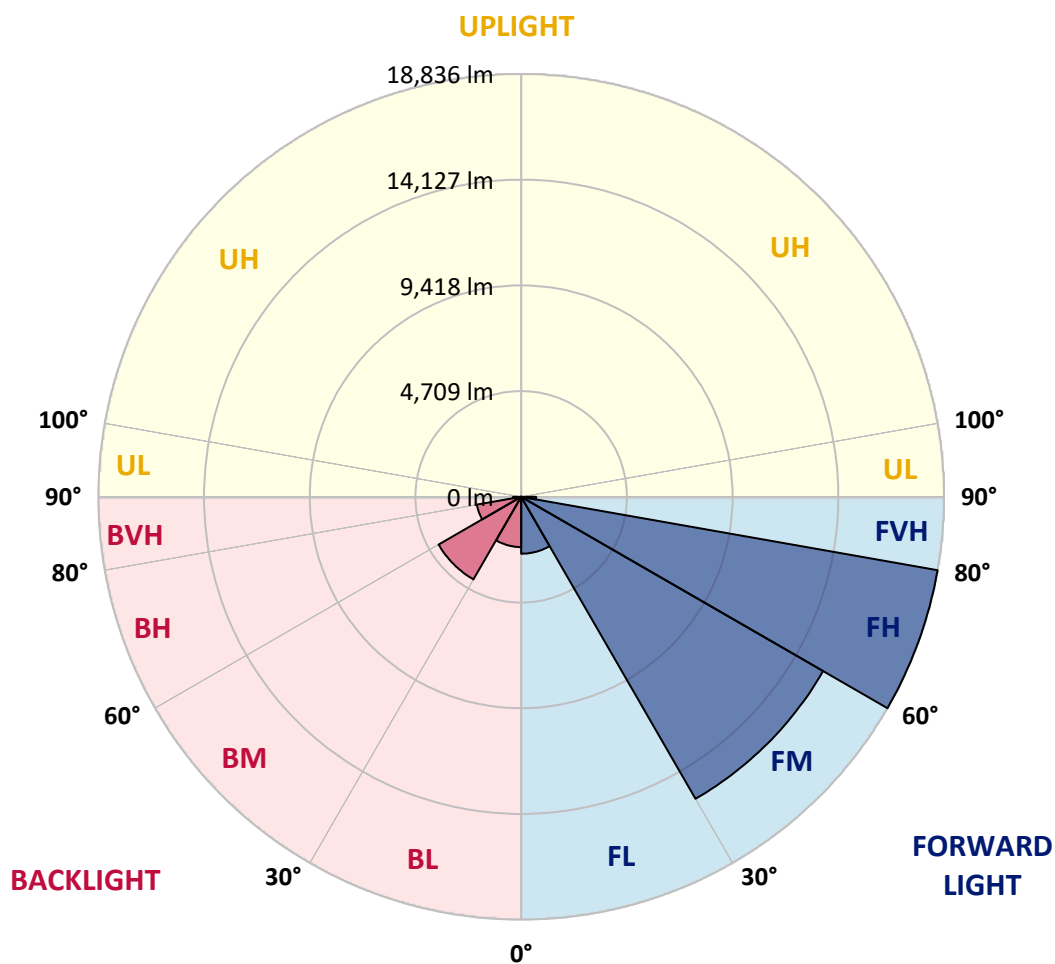
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2535.9	5.5			
FM	(30°-60°)	15531.3	33.5			
FH	(60°-80°)	18835.8	40.6			G5
FVH	(80°-90°)	660.6	1.4			G4/750
BL	(0°-30°)	2240.2	4.8	B3/2500		
BM	(30°-60°)	4248.4	9.2	B3/5000		
BH	(60°-80°)	2002.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	361.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7
2.5°	6729.3	6742.7	6727.1	6747.2	6780.6	6816.2	6840.7	6876.4	6916.5	6972.3	6985.6
5°	6412.8	6432.8	6432.8	6468.4	6533.1	6591.1	6644.6	6702.6	6787.3	6883.2	6921.0
7.5°	6065.1	6076.2	6096.2	6149.7	6243.4	6325.9	6401.6	6495.3	6611.2	6738.2	6805.1
10°	5646.0	5661.6	5692.9	5768.7	5895.6	6009.4	6118.5	6247.9	6395.0	6553.3	6637.9
12.5°	5349.6	5345.1	5358.5	5414.3	5525.7	5663.9	5822.1	5987.1	6167.5	6352.7	6455.1
15°	5249.3	5224.8	5173.5	5160.1	5220.3	5358.5	5541.3	5744.1	5960.3	6183.2	6310.3
17.5°	5311.6	5269.3	5128.8	5026.4	5017.4	5122.2	5316.1	5543.5	5793.2	6065.1	6223.3
20°	5704.0	5603.7	5258.2	5019.7	4937.2	4988.4	5157.9	5398.6	5692.9	6053.9	6256.7
22.5°	6642.4	6495.3	5761.9	5318.4	5039.7	4977.3	5104.4	5360.7	5704.0	6192.2	6450.6
25°	8008.7	7799.3	6626.8	6062.8	5487.8	5155.6	5184.7	5447.6	5862.2	6513.1	6825.2
27.5°	9087.5	8951.6	7756.9	7112.7	6303.6	5637.1	5445.4	5666.0	6185.5	7039.1	7357.8
30°	9729.5	9647.0	8964.9	8302.9	7344.5	6403.9	5944.7	6076.2	6691.5	7768.0	8031.0
32.5°	10474.0	10425.0	10090.6	9482.1	8467.9	7411.4	6736.1	6689.2	7369.0	8644.0	8764.3
35°	11245.3	11229.6	11033.4	10596.6	9673.9	8739.8	7785.9	7469.3	8106.8	9553.4	9477.7
37.5°	11963.1	11936.2	11822.5	11568.5	10935.4	10166.5	8855.8	8269.5	8902.6	10422.8	10086.2
40°	13284.8	13075.3	12685.2	12493.5	12210.4	11367.9	9705.1	9016.3	9727.4	11251.9	10612.3
42.5°	14896.3	14555.3	13828.6	13565.6	13525.5	12315.1	10284.6	9740.7	10558.7	12074.5	11129.3
45°	16164.6	15843.6	15217.3	14885.2	15032.3	13173.3	10866.3	10514.1	11414.7	12937.1	11662.2
47.5°	17517.6	17013.9	16184.7	16285.0	16606.0	13984.6	11459.2	11345.6	12353.1	13902.1	12324.1
50°	17566.7	17181.0	16817.7	17417.3	17916.6	14731.4	12201.5	12217.1	13500.9	15117.0	13204.5
52.5°	16548.0	16465.5	17042.8	17985.7	18705.6	15322.1	13046.2	13117.5	14969.8	16512.4	14171.9
55°	16191.3	16097.7	16764.2	17787.3	18812.7	15810.3	13962.4	14091.7	16746.3	17983.5	15114.8
57.5°	17060.8	16853.4	16897.9	17693.7	18551.9	16345.1	14961.0	15221.8	18676.7	19269.6	15721.1
60°	19490.3	19046.7	18204.1	18184.1	18692.3	17147.5	16115.6	16434.3	20682.8	19884.7	15484.8
62.5°	22898.3	22454.9	20876.7	19849.1	19773.3	18471.6	17533.3	17617.9	21841.8	19051.2	14042.6
65°	26587.3	26190.6	24427.5	22976.4	22276.6	20665.0	19180.5	18146.3	21462.9	16757.5	11519.4
67.5°	31065.3	30639.7	29123.9	27784.3	27111.1	24204.5	20337.3	17640.2	19057.9	12981.6	8280.6
70°	34197.2	33762.5	33165.1	34250.6	35897.9	29311.2	20486.6	15582.9	14234.3	8628.4	4984.0
72.5°	30111.5	29908.5	30998.5	35570.2	42431.1	32409.5	18518.5	11345.6	8267.3	4580.5	2884.3
73°	27588.2	27543.6	29402.5	34645.1	42477.9	31932.4	17655.9	10545.3	7090.4	4052.3	2636.9
75°	12457.8	12816.6	16891.3	26462.6	36905.4	26313.2	12426.6	6049.4	4005.5	2799.7	1990.4
77.5°	2993.4	3118.4	5285.0	12567.0	23306.3	15680.9	5630.4	2991.3	2561.1	1977.1	1453.2
80°	1274.9	1317.3	2035.1	4643.0	10973.4	6314.7	2594.6	2003.9	1772.0	1379.7	1018.7
82.5°	708.8	753.5	1154.7	2106.4	4429.1	2153.2	1582.6	1395.4	1165.8	831.5	662.0
85°	401.2	425.8	675.3	1176.9	1876.8	864.9	947.3	927.3	657.5	428.0	325.5
87.5°	189.4	205.1	325.5	546.1	735.6	338.8	481.5	530.5	412.4	260.8	169.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7	7005.7
2.5°	7001.3	7041.3	7088.2	7112.7	7134.9	7161.7	7188.5	7188.5	7193.0	7195.2
5°	6952.1	7034.6	7108.2	7139.4	7146.1	7146.1	7139.4	7103.8	7072.6	7085.9
7.5°	6849.7	6970.0	7032.5	7021.3	6936.7	6838.5	6756.0	6655.7	6604.5	6595.6
10°	6702.6	6840.7	6851.8	6740.4	6531.0	6321.4	6147.6	5978.1	5898.0	5877.8
12.5°	6539.8	6666.9	6595.6	6366.0	6029.4	5724.1	5503.4	5331.8	5255.9	5235.9
15°	6408.4	6495.3	6314.7	5953.6	5530.1	5207.0	5024.2	4897.1	4843.6	4827.9
17.5°	6339.2	6357.0	6027.2	5539.0	5088.8	4819.1	4705.4	4645.1	4625.2	4614.0
20°	6372.6	6247.9	5753.0	5153.4	4727.6	4538.2	4511.5	4495.9	4491.4	4484.8
22.5°	6539.8	6214.4	5501.1	4787.8	4411.2	4328.8	4351.0	4348.7	4344.2	4339.9
25°	6838.5	6243.4	5255.9	4440.2	4146.0	4128.1	4168.2	4168.2	4150.3	4150.3
27.5°	7233.1	6303.6	4981.7	4110.3	3905.2	3907.4	3938.6	3929.7	3909.7	3896.3
30°	7714.6	6341.5	4660.8	3813.8	3680.1	3671.1	3680.1	3642.1	3581.9	3577.4
32.5°	8207.1	6294.7	4288.5	3550.8	3441.5	3421.5	3414.8	3361.4	3292.2	3272.2
35°	8652.9	6123.0	3909.7	3341.2	3214.2	3169.6	3200.9	3182.9	3120.6	3104.9
37.5°	8978.4	5804.3	3568.6	3156.3	3051.5	3040.3	3060.4	3067.1	2993.4	2978.0
40°	9196.8	5371.8	3276.5	3000.3	3020.3	2978.0	2911.1	2864.2	2842.0	2835.3
42.5°	9373.0	4921.6	3031.4	2926.6	3026.9	2904.3	2759.5	2683.7	2723.9	2741.7
45°	9575.7	4482.5	2826.3	2835.3	2993.4	2819.7	2654.7	2581.1	2596.8	2601.3
47.5°	9854.3	3947.5	2605.8	2688.1	2882.0	2761.7	2590.1	2485.3	2411.8	2378.3
50°	10240.0	3314.5	2376.1	2523.3	2772.9	2719.4	2489.8	2378.3	2242.3	2211.2
52.5°	10507.5	2723.9	2186.6	2385.0	2674.7	2634.7	2409.5	2264.6	2122.1	2095.3
55°	10362.5	2262.4	2021.8	2231.2	2545.5	2529.9	2342.6	2148.7	2037.2	2015.0
57.5°	9638.2	1970.4	1894.7	2086.3	2387.2	2440.8	2253.5	2050.7	1970.4	1954.8
60°	8256.1	1787.7	1814.4	1988.3	2258.0	2351.6	2164.3	1997.2	1943.7	1932.6
62.5°	6406.1	1665.0	1754.2	1917.0	2157.7	2289.2	2115.3	1990.4	1970.4	1957.1
65°	4589.4	1567.0	1689.5	1845.6	2066.3	2231.2	2097.4	1981.5	1986.0	1974.9
67.5°	3118.4	1480.0	1611.6	1765.4	1977.1	2179.9	2072.9	1950.4	2006.1	1992.7
70°	2182.1	1395.4	1520.2	1662.8	1865.7	2108.6	2028.4	1903.6	1899.2	1845.6
72.5°	1703.0	1283.9	1395.4	1520.2	1723.0	2008.3	1939.3	1798.9	1725.2	1669.5
73°	1624.9	1257.1	1364.1	1488.9	1691.8	1983.8	1914.7	1769.8	1687.3	1636.0
75°	1344.1	1141.2	1239.3	1350.8	1558.0	1867.9	1794.4	1638.4	1533.6	1502.4
77.5°	1056.5	976.3	1069.8	1170.1	1373.1	1698.4	1616.1	1466.7	1408.7	1382.0
80°	782.4	809.2	891.5	980.7	1190.3	1517.9	1444.4	1295.0	1553.5	1488.9
82.5°	550.5	613.0	688.8	768.9	998.6	1341.8	1252.6	1098.9	1136.8	945.1
85°	325.5	401.2	472.5	541.6	719.9	1112.3	1034.2	876.0	717.8	684.3
87.5°	189.4	222.9	243.0	314.3	494.8	838.1	728.9	648.7	372.2	251.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)