

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: P193284

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193284
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-06-LED-E1-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 37999.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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



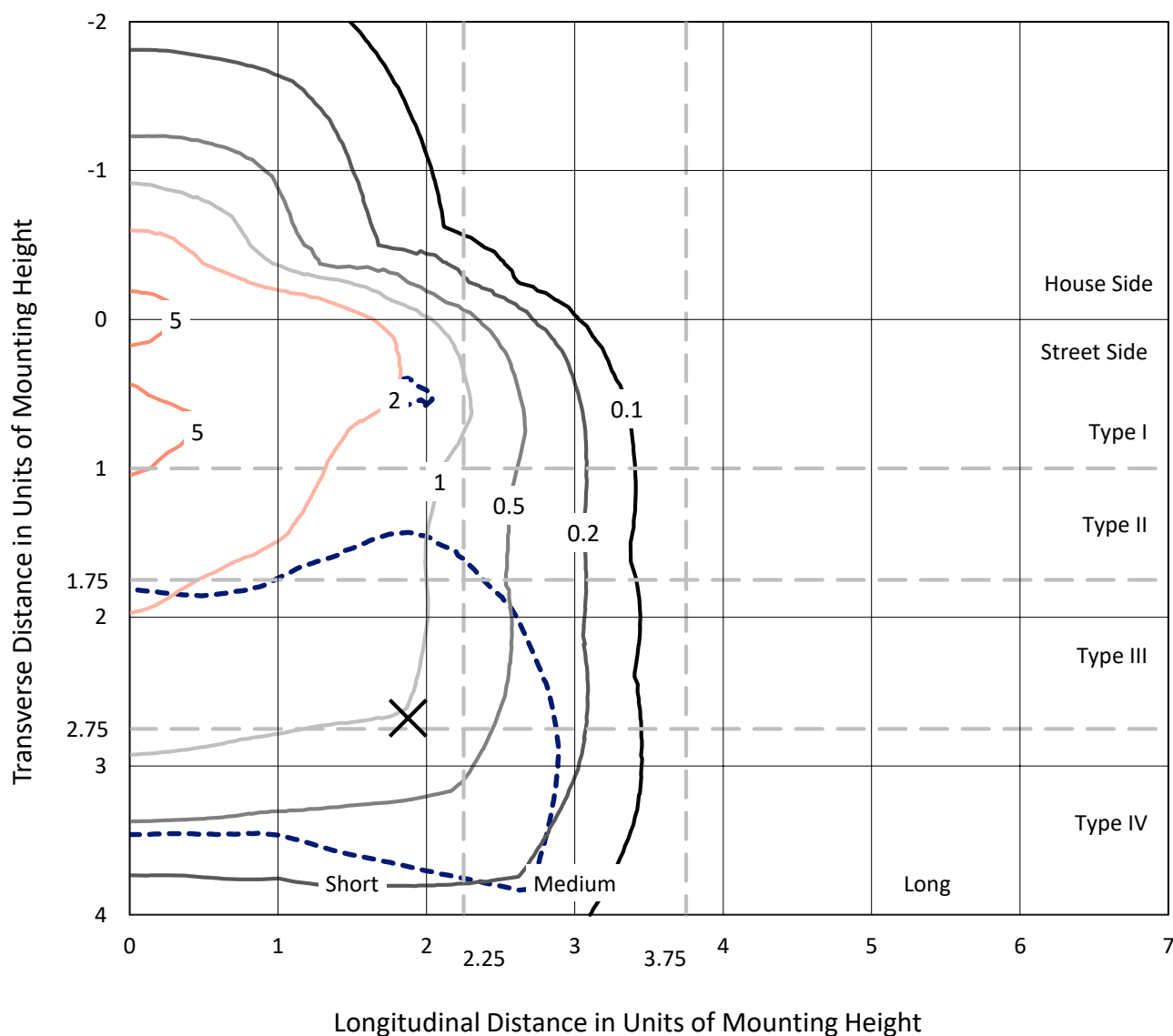
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

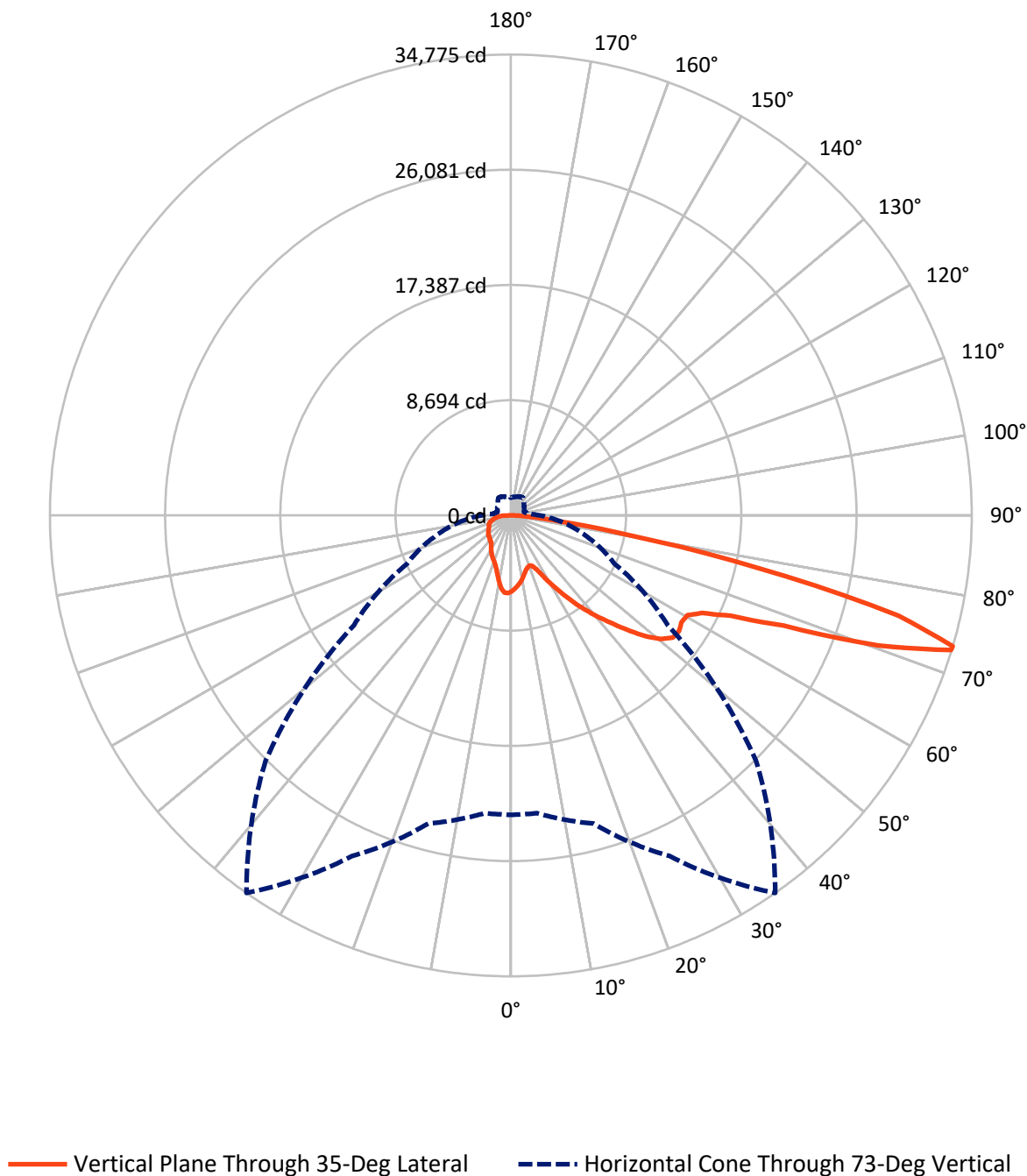


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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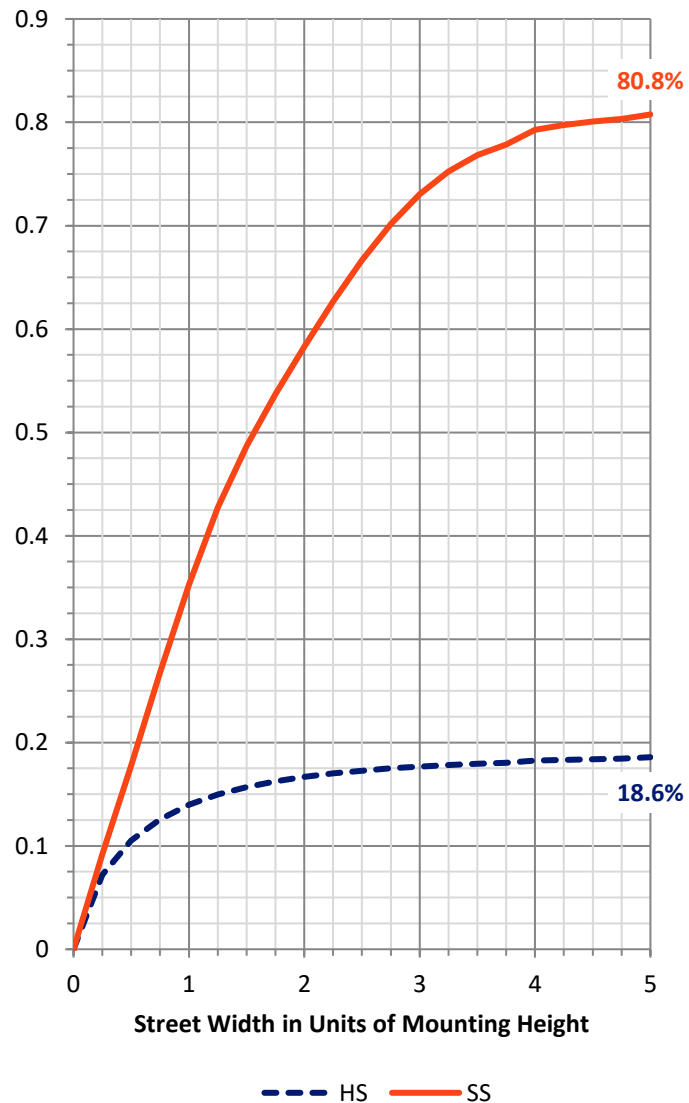
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7247.5	0.0	7247.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30751.8	0.0	30751.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	37999.3	0.0	37999.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	1.4
10°-20°	1295.9	3.4
20°-30°	2094.9	5.5
30°-40°	3512.9	9.2
40°-50°	5415.0	14.3
50°-60°	7264.8	19.1
60°-70°	9678.2	25.5
70°-80°	7381.5	19.4
80°-90°	836.7	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°	37999.3	100.0
0°-180°	37999.3	100.0

Coefficient of Utilization



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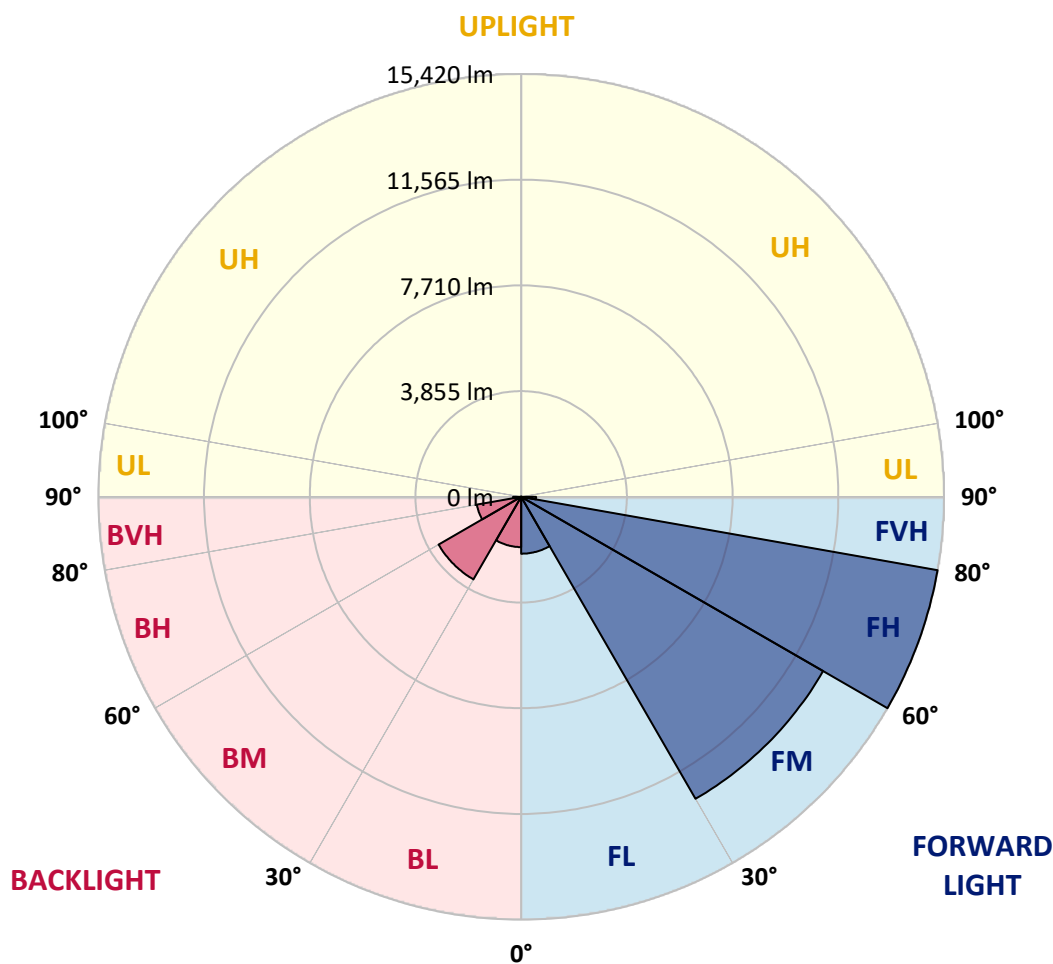
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2076.0	5.5			
FM	(30°-60°)	12714.8	33.5			
FH	(60°-80°)	15420.1	40.6			G5
FVH	(80°-90°)	540.8	1.4			G4/750
BL	(0°-30°)	1834.0	4.8	B3/2500		
BM	(30°-60°)	3478.0	9.2	B3/5000		
BH	(60°-80°)	1639.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	295.9	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°	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2
2.5°	5509.0	5520.0	5507.2	5523.6	5550.9	5580.2	5600.2	5629.5	5662.3	5707.9	5718.8
5°	5249.9	5266.3	5266.3	5295.5	5348.5	5395.9	5439.7	5487.1	5556.5	5634.9	5665.9
7.5°	4965.2	4974.3	4990.8	5034.5	5111.1	5178.7	5240.7	5317.4	5412.2	5516.3	5571.0
10°	4622.1	4634.9	4660.5	4722.5	4826.5	4919.6	5009.0	5114.9	5235.2	5364.8	5434.2
12.5°	4379.4	4375.9	4386.8	4432.4	4523.7	4636.8	4766.3	4901.4	5049.2	5200.6	5284.6
15°	4297.3	4277.3	4235.3	4224.4	4273.6	4386.8	4536.5	4702.4	4879.4	5062.0	5165.9
17.5°	4348.4	4313.8	4198.9	4114.9	4107.6	4193.4	4352.2	4538.2	4742.6	4965.2	5094.8
20°	4669.6	4587.5	4304.6	4109.3	4041.8	4083.9	4222.6	4419.6	4660.5	4956.1	5122.2
22.5°	5437.9	5317.4	4717.0	4353.9	4125.8	4074.8	4178.7	4388.6	4669.6	5069.2	5280.9
25°	6556.4	6384.9	5425.0	4963.4	4492.6	4220.6	4244.4	4459.8	4799.2	5332.0	5587.5
27.5°	7439.6	7328.3	6350.2	5822.9	5160.5	4614.9	4457.9	4638.6	5063.7	5762.7	6023.6
30°	7965.1	7897.6	7339.3	6797.2	6012.6	5242.6	4866.6	4974.3	5477.9	6359.3	6574.6
32.5°	8574.6	8534.5	8260.8	7762.7	6932.3	6067.3	5514.5	5476.2	6032.8	7076.5	7175.0
35°	9205.9	9193.2	9032.7	8674.9	7919.5	7155.0	6373.9	6114.8	6636.7	7821.0	7758.9
37.5°	9793.6	9771.7	9678.6	9470.6	8952.3	8322.9	7249.8	6769.9	7288.1	8532.6	8257.2
40°	10875.6	10704.1	10384.8	10227.9	9996.1	9306.3	7945.2	7381.2	7963.4	9211.4	8687.8
42.5°	12195.0	11915.9	11320.9	11105.5	11072.8	10081.9	8419.5	7974.3	8643.9	9884.8	9111.1
45°	13233.3	12970.5	12457.7	12185.9	12306.3	10784.4	8895.8	8607.5	9344.7	10591.0	9547.2
47.5°	14341.0	13928.5	13249.7	13331.9	13594.6	11448.6	9381.2	9288.1	10112.9	11381.1	10089.2
50°	14381.0	14065.4	13768.0	14258.8	14667.5	12059.9	9988.8	10001.6	11052.6	12375.6	10810.0
52.5°	13547.2	13479.7	13952.2	14724.1	15313.6	12543.5	10680.4	10738.8	12255.2	13518.0	11601.9
55°	13255.3	13178.6	13724.2	14561.7	15401.0	12943.2	11430.3	11536.2	13709.6	14722.2	12373.8
57.5°	13966.8	13797.1	13833.7	14485.0	15187.6	13381.1	12247.9	12461.3	15289.8	15775.2	12870.2
60°	15955.9	15592.7	14903.0	14886.6	15302.6	14037.9	13193.2	13454.0	16932.1	16278.9	12676.7
62.5°	18745.9	18382.8	17090.9	16249.6	16187.7	15121.9	14353.7	14423.0	17881.0	15596.3	11496.0
65°	21766.0	21441.1	19997.7	18809.7	18236.8	16917.4	15702.2	14855.6	17570.7	13718.7	9430.5
67.5°	25432.0	25083.4	23842.5	22745.8	22194.7	19815.3	16649.3	14441.3	15601.7	10627.5	6779.0
70°	27995.7	27639.9	27150.8	28039.5	29388.0	23995.8	16771.6	12757.0	11653.0	7063.7	4080.2
72.5°	24650.8	24484.9	25377.2	29119.8	34736.5	26532.2	15160.3	9288.1	6768.1	3749.9	2361.3
73°	22585.2	22548.7	24070.6	28362.5	34774.7	26141.7	14454.0	8633.0	5804.6	3317.4	2158.8
75°	10198.7	10492.5	13828.2	21663.7	30212.8	21541.4	10173.1	4952.4	3279.1	2291.9	1629.5
77.5°	2450.6	2552.9	4326.5	10288.1	19079.8	12837.3	4609.4	2448.8	2096.6	1618.5	1189.8
80°	1043.8	1078.4	1665.9	3801.0	8983.4	5169.6	2124.0	1640.5	1450.8	1129.5	833.9
82.5°	580.2	616.8	945.2	1724.4	3625.9	1762.7	1295.6	1142.3	954.4	680.6	541.9
85°	328.5	348.5	553.0	963.4	1536.5	708.0	775.5	759.2	538.3	350.4	266.4
87.5°	155.1	167.9	266.4	447.1	602.1	277.4	394.1	434.3	337.6	213.5	138.6
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°	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2	5735.2
2.5°	5731.6	5764.5	5802.8	5822.9	5841.1	5863.0	5884.9	5884.9	5888.5	5890.3
5°	5691.5	5758.9	5819.2	5844.8	5850.2	5850.2	5844.8	5815.6	5789.9	5801.0
7.5°	5607.5	5706.1	5757.2	5748.0	5678.8	5598.5	5530.9	5448.8	5406.8	5399.5
10°	5487.1	5600.2	5609.4	5518.1	5346.6	5175.1	5032.7	4894.0	4828.3	4811.9
12.5°	5353.9	5457.9	5399.5	5211.5	4936.0	4686.0	4505.5	4364.9	4302.8	4286.3
15°	5246.2	5317.4	5169.6	4873.9	4527.2	4262.6	4113.1	4009.0	3965.2	3952.5
17.5°	5189.7	5204.2	4934.1	4534.6	4165.9	3945.2	3852.2	3802.9	3786.4	3777.3
20°	5217.0	5114.9	4709.7	4218.9	3870.4	3715.3	3693.4	3680.6	3676.9	3671.4
22.5°	5353.9	5087.4	4503.5	3919.5	3611.2	3543.8	3562.0	3560.1	3556.5	3552.9
25°	5598.5	5111.1	4302.8	3634.9	3394.0	3379.5	3412.3	3412.3	3397.8	3397.8
27.5°	5921.5	5160.5	4078.3	3364.8	3197.0	3198.8	3224.3	3217.0	3200.6	3189.8
30°	6315.5	5191.5	3815.7	3122.2	3012.8	3005.4	3012.8	2981.6	2932.4	2928.8
32.5°	6718.8	5153.2	3510.8	2906.9	2817.5	2801.1	2795.5	2751.8	2695.2	2678.8
35°	7083.9	5012.7	3200.6	2735.3	2631.3	2594.8	2620.4	2605.9	2554.7	2541.9
37.5°	7350.2	4751.6	2921.5	2583.9	2498.1	2489.0	2505.5	2510.9	2450.6	2437.9
40°	7529.0	4397.6	2682.5	2456.1	2472.5	2437.9	2383.2	2344.8	2326.5	2321.1
42.5°	7673.2	4029.2	2481.8	2395.9	2478.0	2377.7	2259.1	2196.9	2229.9	2244.5
45°	7839.3	3669.6	2313.8	2321.1	2450.6	2308.3	2173.2	2113.1	2125.8	2129.5
47.5°	8067.3	3231.7	2133.2	2200.7	2359.5	2260.9	2120.4	2034.6	1974.5	1947.0
50°	8383.0	2713.5	1945.3	2065.6	2270.0	2226.2	2038.2	1947.0	1835.8	1810.2
52.5°	8602.0	2229.9	1790.1	1952.5	2189.8	2156.9	1972.5	1854.0	1737.2	1715.3
55°	8483.4	1852.2	1655.1	1826.6	2083.9	2071.1	1917.8	1759.1	1667.9	1649.6
57.5°	7890.3	1613.1	1551.1	1707.9	1954.3	1998.2	1844.9	1678.8	1613.1	1600.3
60°	6759.0	1463.4	1485.4	1627.8	1848.4	1925.1	1771.8	1634.9	1591.3	1582.1
62.5°	5244.5	1363.1	1436.1	1569.3	1766.4	1874.1	1731.8	1629.5	1613.1	1602.2
65°	3757.2	1282.8	1383.2	1510.9	1691.6	1826.6	1717.1	1622.2	1625.9	1616.7
67.5°	2552.9	1211.6	1319.3	1445.2	1618.5	1784.6	1697.1	1596.8	1642.2	1631.4
70°	1786.5	1142.3	1244.5	1361.3	1527.3	1726.2	1660.5	1558.4	1554.8	1510.9
72.5°	1394.1	1051.1	1142.3	1244.5	1410.5	1644.2	1587.5	1472.6	1412.4	1366.8
73°	1330.2	1029.2	1116.7	1218.9	1385.0	1624.0	1567.5	1448.9	1381.4	1339.4
75°	1100.4	934.2	1014.6	1105.8	1275.5	1529.2	1469.0	1341.1	1255.5	1229.9
77.5°	864.9	799.2	875.9	957.9	1124.1	1390.5	1322.9	1200.6	1153.2	1131.4
80°	640.5	662.4	730.0	802.9	974.5	1242.8	1182.4	1060.2	1271.9	1218.9
82.5°	450.7	501.8	563.9	629.6	817.5	1098.5	1025.5	899.6	930.7	773.7
85°	266.4	328.5	386.9	443.4	589.5	910.5	846.6	717.2	587.6	560.2
87.5°	155.1	182.5	198.9	257.3	405.2	686.1	596.7	531.0	304.8	206.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)