

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: P194925

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T4W-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45864 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 448
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

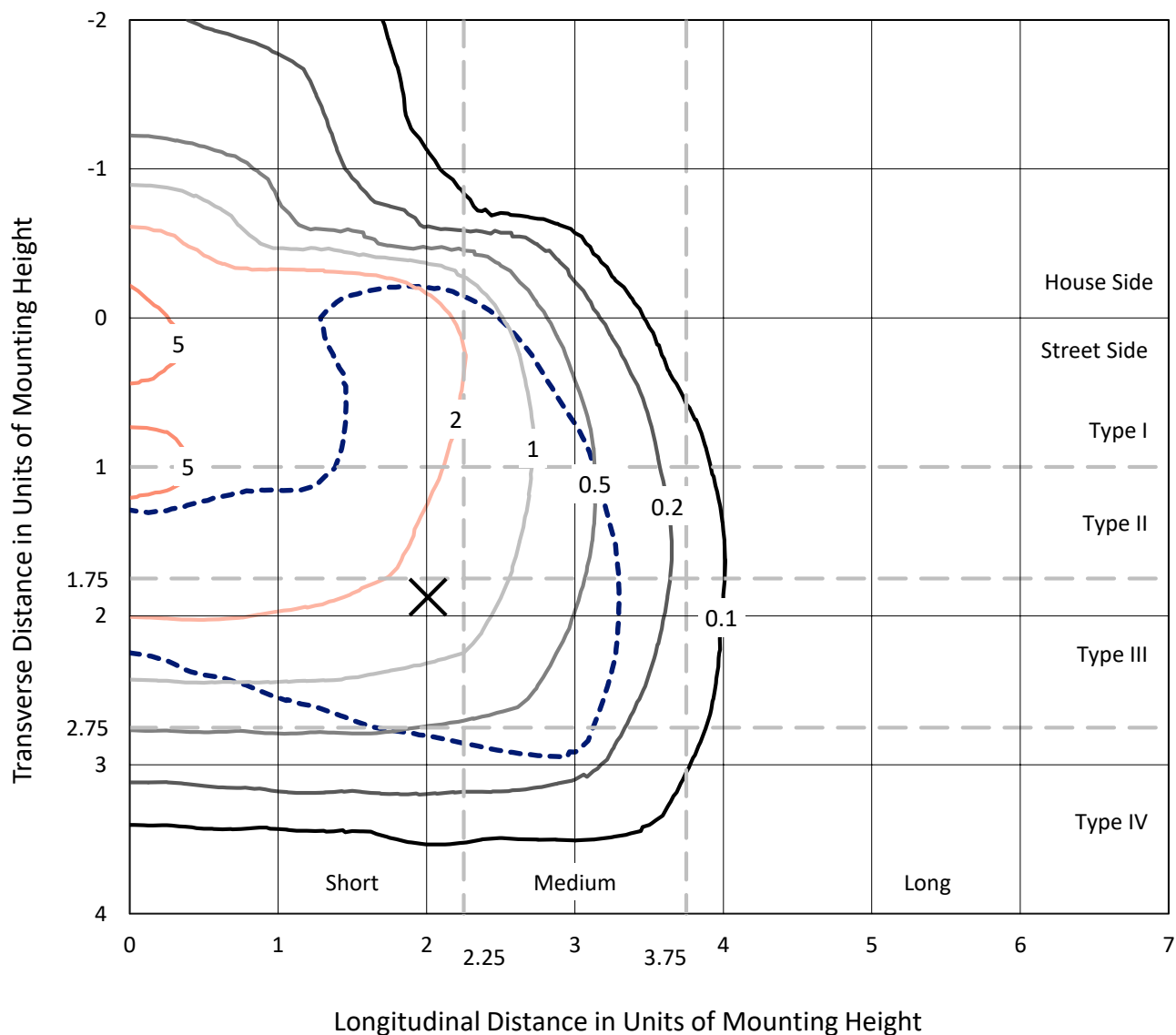


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

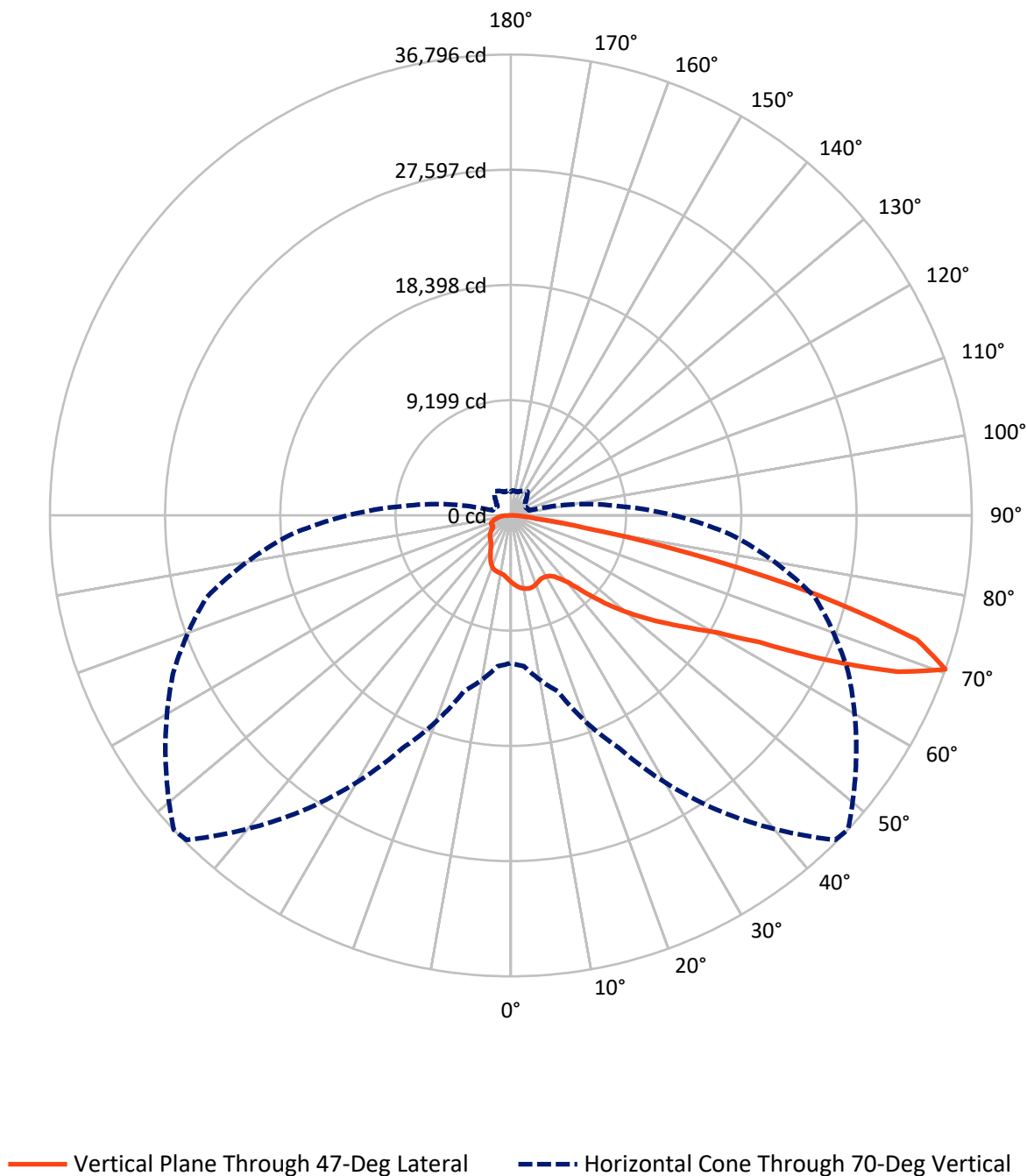


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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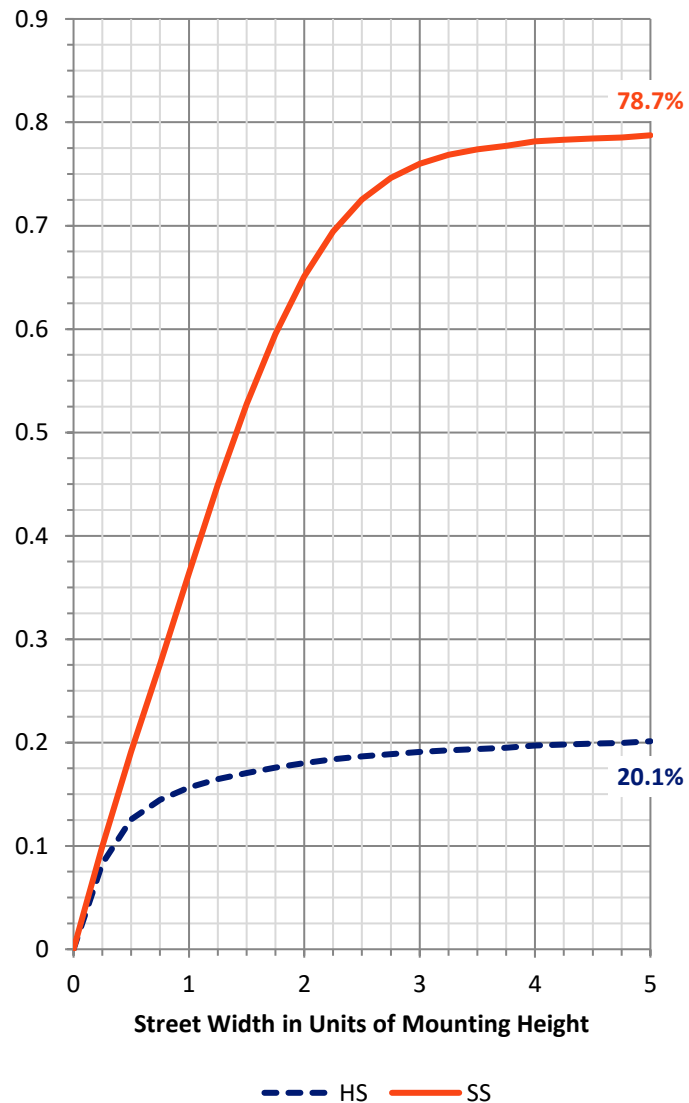
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9568.1	0.0	9568.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	36295.9	0.0	36295.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	45864.0	0.0	45864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.9	1.1
10°-20°	1495.9	3.3
20°-30°	2209.1	4.8
30°-40°	3210.9	7.0
40°-50°	5778.4	12.6
50°-60°	10010.5	21.8
60°-70°	14287.9	31.2
70°-80°	7334.6	16.0
80°-90°	1026.9	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°	45864.0	100.0
0°-180°	45864.0	100.0

Coefficient of Utilization



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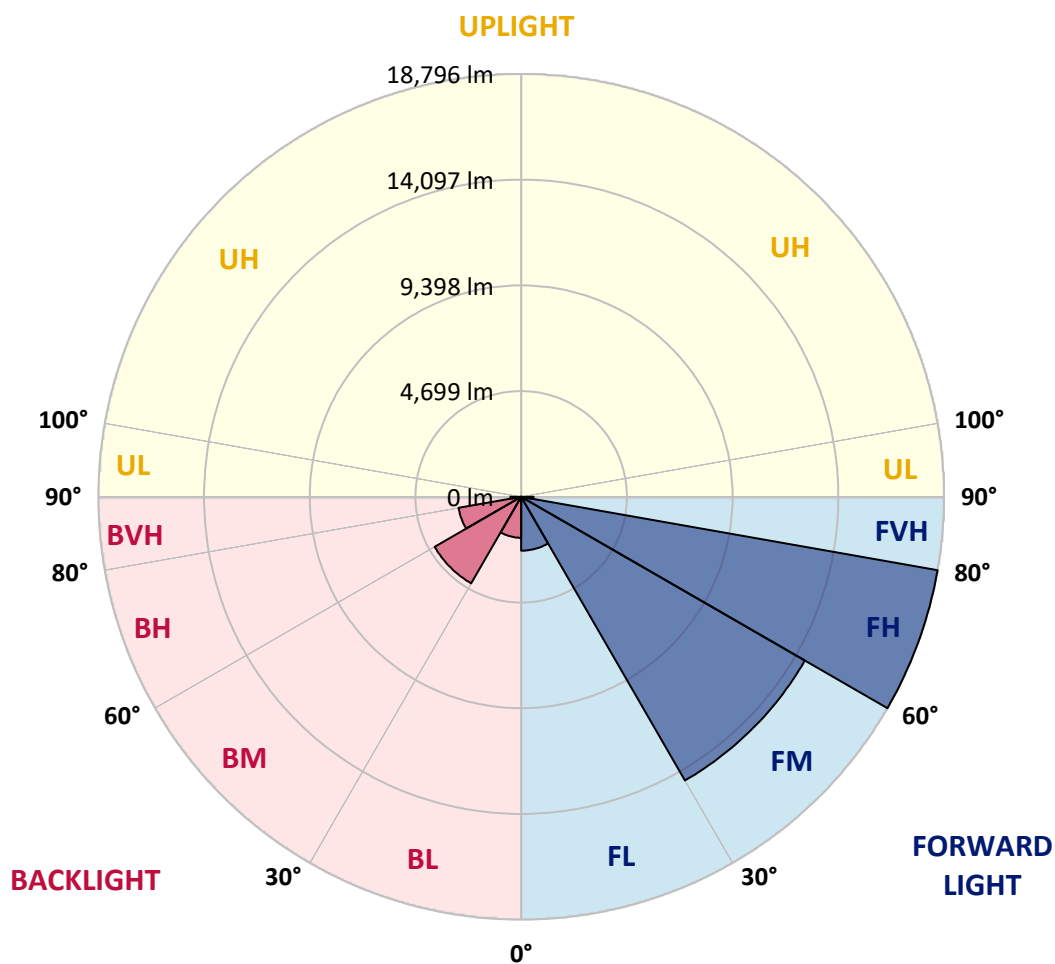
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2393.1	5.2			
FM	(30°-60°)	14558.5	31.7			
FH	(60°-80°)	18796.3	41.0			G5
FVH	(80°-90°)	547.9	1.2			G4/750
BL	(0°-30°)	1821.8	4.0	B3/2500		
BM	(30°-60°)	4441.2	9.7	B3/5000		
BH	(60°-80°)	2826.1	6.2	B4/5000		G4/5000
BVH	(80°-90°)	478.9	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7
2.5°	5634.0	5622.9	5618.4	5609.5	5598.3	5542.6	5531.4	5491.2	5435.4	5377.4	5317.2
5°	6004.4	6002.2	5977.7	5933.0	5861.6	5738.9	5709.9	5611.7	5480.1	5352.9	5225.7
7.5°	6330.2	6310.1	6263.3	6174.0	6049.1	5881.7	5841.5	5705.4	5524.7	5350.7	5178.8
10°	6568.9	6557.8	6455.2	6332.4	6169.5	5984.3	5937.5	5785.8	5587.2	5366.3	5152.1
12.5°	6705.1	6682.7	6564.5	6417.2	6223.1	6042.4	5995.5	5841.5	5618.4	5366.3	5114.1
15°	6696.1	6680.5	6562.3	6401.6	6205.2	6046.8	6004.4	5850.5	5611.7	5344.0	5065.1
17.5°	6517.6	6524.3	6423.9	6265.5	6104.8	5984.3	5946.4	5803.6	5567.1	5299.3	5007.0
20°	6205.2	6236.5	6169.5	6029.0	5939.7	5857.2	5832.6	5712.1	5497.9	5234.6	4944.6
22.5°	5892.9	5921.9	5895.1	5776.8	5763.4	5714.4	5701.0	5614.0	5437.7	5194.5	4906.6
25°	5663.0	5689.8	5685.4	5582.7	5622.9	5620.6	5609.5	5567.1	5424.3	5194.5	4913.3
27.5°	5600.6	5609.5	5600.6	5506.8	5562.6	5607.3	5598.3	5591.6	5464.5	5259.2	4998.1
30°	5814.8	5801.4	5732.2	5542.6	5593.9	5656.3	5647.4	5651.9	5584.9	5428.8	5187.8
32.5°	6669.4	6609.1	6390.4	5857.2	5721.1	5754.5	5759.0	5832.6	5843.8	5689.8	5482.3
35°	7947.9	7881.0	7597.6	6700.6	6116.0	6000.0	6000.0	6111.5	6178.5	6064.7	5939.7
37.5°	9302.3	9228.7	9076.9	7869.8	6946.0	6426.1	6415.0	6493.1	6589.0	6615.8	6647.0
40°	10841.9	10763.8	10806.2	9181.8	8104.1	7164.7	7006.3	6950.5	7209.3	7381.1	7631.0
42.5°	12526.5	12490.8	12506.4	10643.3	9422.8	8269.2	8043.8	7756.0	8068.4	8374.1	8898.4
45°	14086.2	14117.4	14101.8	12207.4	10891.0	9616.9	9378.2	8820.3	9126.0	9650.4	10505.0
47.5°	15451.8	15322.3	15523.2	13916.6	12535.4	11125.3	10830.7	10083.2	10393.4	11040.5	12486.4
50°	17109.6	17091.8	16797.2	16197.0	14523.5	12640.3	12254.3	11388.6	11870.5	12769.7	14983.2
52.5°	18852.3	18528.7	18258.7	17970.9	16632.1	14193.3	13720.3	12689.4	13606.5	14737.7	18026.7
55°	19209.3	19064.2	19398.9	19883.1	18664.8	15806.5	15255.4	14320.5	15561.1	16986.9	21536.5
57.5°	19972.4	19970.1	20661.8	21525.4	20757.8	17517.9	16962.3	16290.7	17758.9	19564.0	25262.8
60°	20487.8	20632.8	21918.1	23593.8	22812.8	19494.9	18983.9	18564.4	20258.0	22444.7	28734.7
62.5°	20757.8	20954.1	22707.9	24432.7	25718.0	22786.0	22275.1	21670.4	23564.8	25604.2	30765.2
65°	19635.4	20021.5	22585.2	25157.9	28261.7	28121.1	27891.3	26829.2	27699.4	28101.0	30031.1
67.5°	16529.5	16924.4	19909.9	24481.8	30077.9	33266.5	33315.5	31501.5	30243.0	28315.2	25249.4
70°	11776.8	12087.0	14557.0	20525.7	28694.5	36629.0	36796.4	33654.7	29736.5	25111.1	17640.7
72.5°	5591.6	5781.3	8119.7	13358.8	22770.4	33561.0	33884.5	30905.7	25285.1	18591.2	9623.6
75°	2055.0	2113.0	2744.5	5683.1	13207.1	24749.6	25131.1	22154.6	16761.5	9255.4	3666.0
77.5°	1231.7	1269.6	1539.6	2398.6	5194.5	14146.4	14711.0	12049.0	7325.4	3445.1	1802.9
80°	861.3	888.1	1104.5	1492.7	2454.4	5390.8	5892.9	4917.8	2918.5	2180.0	1312.0
82.5°	582.4	595.8	776.5	1008.5	1631.1	1925.6	2077.3	2186.7	1968.0	1622.2	832.3
85°	381.6	394.9	526.6	664.9	1037.6	995.2	1017.5	1287.5	1437.0	1102.3	461.9
87.5°	218.7	227.6	316.8	354.8	508.7	421.7	426.2	678.3	919.3	743.0	281.1
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°	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7	5321.7
2.5°	5301.6	5272.6	5207.9	5167.7	5129.8	5120.8	5105.2	5103.0	5100.8	5100.8	5094.1
5°	5183.3	5134.2	5033.8	4978.0	4931.2	4926.7	4924.5	4935.6	4940.1	4944.6	4937.9
7.5°	5107.4	5040.5	4915.6	4835.2	4779.4	4766.1	4788.4	4839.7	4873.2	4886.5	4879.9
10°	5060.6	4978.0	4833.0	4746.0	4699.1	4692.4	4721.4	4781.7	4850.8	4877.6	4875.4
12.5°	5007.0	4913.3	4759.4	4667.9	4641.1	4654.5	4692.4	4748.2	4819.6	4862.0	4864.2
15°	4953.5	4844.2	4685.7	4605.4	4594.2	4612.1	4647.8	4690.2	4746.0	4788.4	4792.8
17.5°	4888.8	4775.0	4616.6	4534.0	4525.1	4534.0	4536.2	4558.5	4594.2	4634.4	4645.6
20°	4819.6	4703.6	4538.5	4455.9	4415.7	4380.0	4339.9	4344.3	4355.5	4395.7	4404.6
22.5°	4770.5	4654.5	4478.2	4364.4	4257.3	4150.2	4069.9	4058.7	4063.2	4096.7	4107.8
25°	4775.0	4652.3	4462.6	4266.2	4032.0	3860.1	3753.0	3735.2	3733.0	3757.5	3773.1
27.5°	4862.0	4739.3	4520.6	4165.8	3786.5	3532.1	3418.4	3405.0	3387.1	3393.8	3411.7
30°	5056.1	4942.3	4661.2	4063.2	3521.0	3210.8	3092.6	3079.2	3054.7	3043.5	3056.9
32.5°	5373.0	5279.3	4866.5	3965.0	3255.5	2936.4	2815.9	2786.9	2771.3	2757.9	2769.0
35°	5899.6	5859.4	5140.9	3857.9	3021.2	2724.4	2615.1	2570.5	2548.1	2572.7	2590.5
37.5°	6725.1	6747.5	5500.2	3690.6	2840.4	2583.8	2492.4	2441.0	2407.6	2427.7	2447.7
40°	7894.3	7910.0	5897.3	3454.1	2684.3	2501.3	2403.1	2356.3	2309.4	2273.7	2271.5
42.5°	9429.5	9271.1	6287.8	3197.5	2503.5	2450.0	2340.6	2282.6	2211.2	2113.0	2093.0
45°	11250.2	10694.6	6584.6	2902.9	2300.5	2387.5	2271.5	2191.1	2079.6	1972.5	1961.3
47.5°	13347.6	12223.1	6729.6	2597.2	2110.8	2296.0	2186.7	2059.5	1918.9	1865.4	1858.7
50°	15909.2	14037.1	6798.8	2300.5	1945.7	2175.5	2064.0	1914.5	1796.2	1785.0	1778.3
52.5°	18825.5	16219.3	6821.1	2057.3	1809.6	2019.3	1963.5	1818.5	1724.8	1733.7	1733.7
55°	21877.9	18472.9	6517.6	1881.0	1684.6	1858.7	1896.6	1780.6	1702.5	1738.2	1751.6
57.5°	24680.4	20470.0	5562.6	1744.9	1566.4	1736.0	1872.1	1816.3	1762.7	1907.8	1916.7
60°	26831.4	21650.3	4154.7	1622.2	1479.4	1693.6	1936.8	1952.4	1965.8	2311.6	2358.5
62.5°	27282.1	21257.6	2856.1	1526.2	1439.2	1729.3	2055.0	2057.3	2041.6	2282.6	2311.6
65°	25213.7	18774.2	2077.3	1472.7	1405.7	1794.0	2155.4	2108.6	2005.9	2188.9	2135.4
67.5°	20023.7	14144.2	1729.3	1432.5	1356.6	1789.5	2262.5	2155.4	1985.9	2144.3	2057.3
70°	12997.3	8552.6	1539.6	1399.0	1298.6	1704.7	2325.0	2151.0	1927.8	1994.8	1892.1
72.5°	6341.4	3824.4	1412.4	1349.9	1238.4	1586.5	2322.8	2110.8	1867.6	1863.1	1807.4
75°	2481.2	1751.6	1296.4	1276.3	1135.7	1452.6	2260.3	2052.8	1796.2	1724.8	1704.7
77.5°	1452.6	1249.5	1149.1	1167.0	1013.0	1318.7	2168.8	1952.4	1698.0	1613.2	1590.9
80°	1057.6	934.9	979.5	1008.5	865.7	1184.8	2046.1	1829.7	1588.7	1631.1	1599.8
82.5°	678.3	602.5	794.3	823.3	720.7	1048.7	1912.2	1700.3	1434.7	1303.1	1271.8
85°	345.9	381.6	591.3	627.0	555.6	861.3	1749.3	1528.4	1260.7	1084.4	1102.3
87.5°	194.1	261.1	377.1	421.7	392.7	662.7	1419.1	1260.7	1028.6	836.7	736.3
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)