

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: P194908

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194908
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-10-LED-E1-T4W-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47269 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 419
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

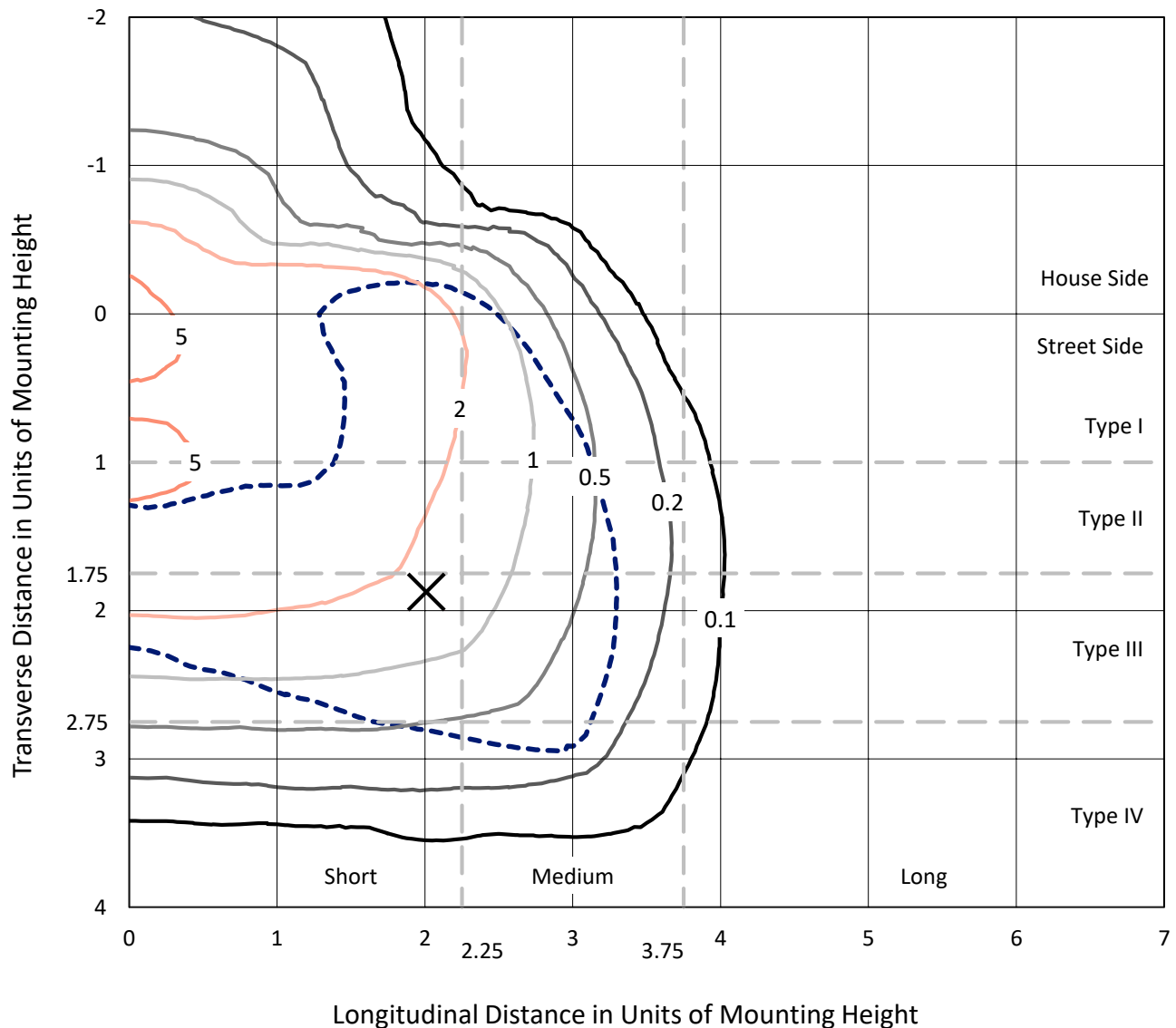


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

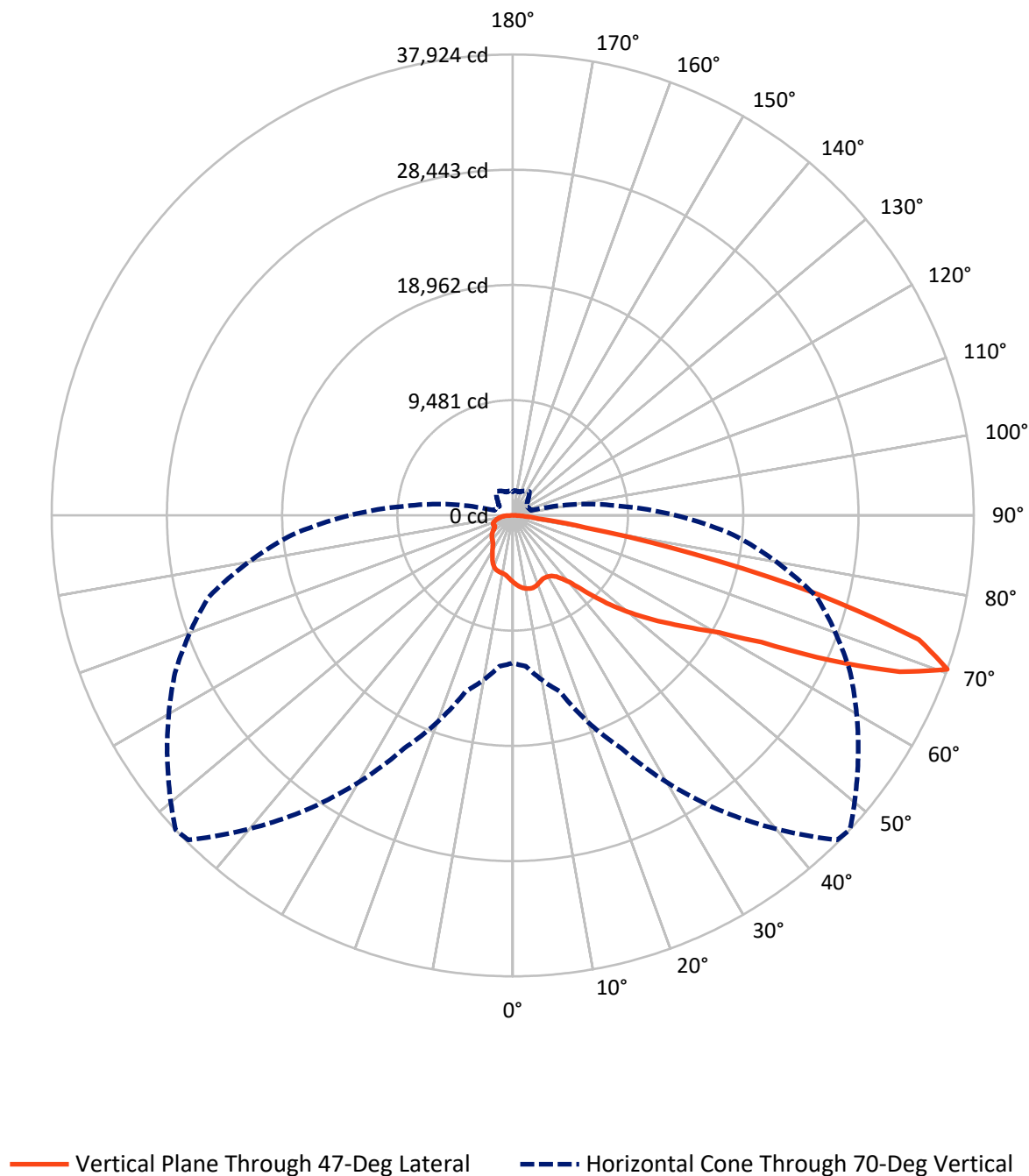


Based on 30 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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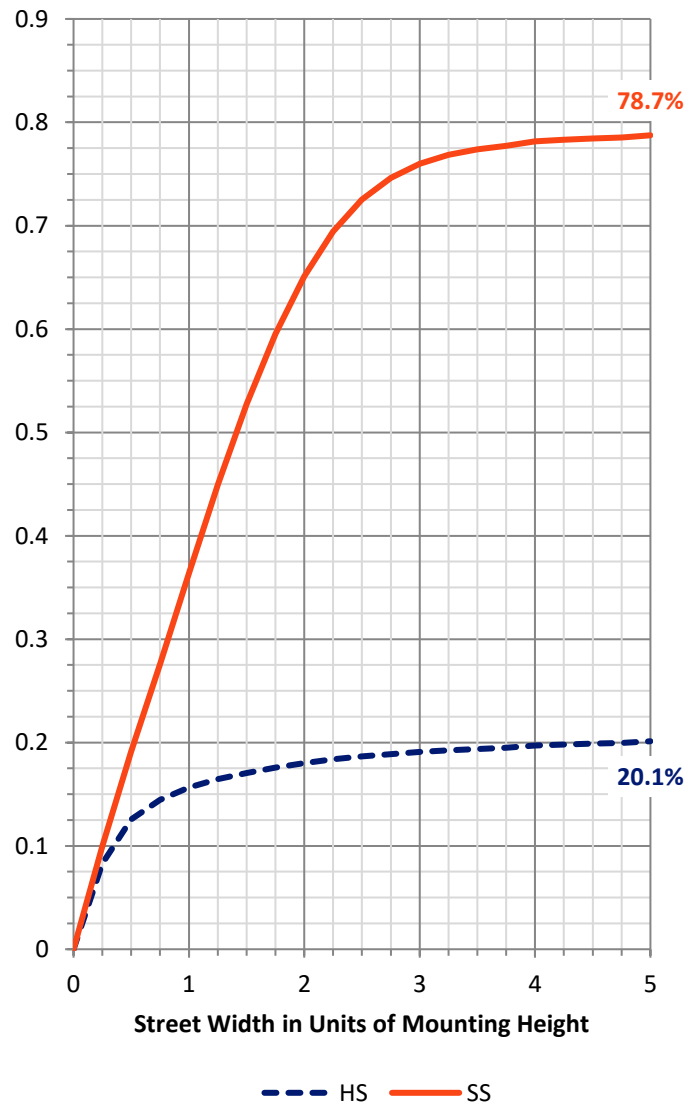
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9861.2	0.0	9861.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	37407.8	0.0	37407.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	47269.0	0.0	47269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.5	1.1
10°-20°	1541.8	3.3
20°-30°	2276.8	4.8
30°-40°	3309.2	7.0
40°-50°	5955.4	12.6
50°-60°	10317.1	21.8
60°-70°	14725.6	31.2
70°-80°	7559.3	16.0
80°-90°	1058.3	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°	47269.0	100.0
0°-180°	47269.0	100.0

Coefficient of Utilization



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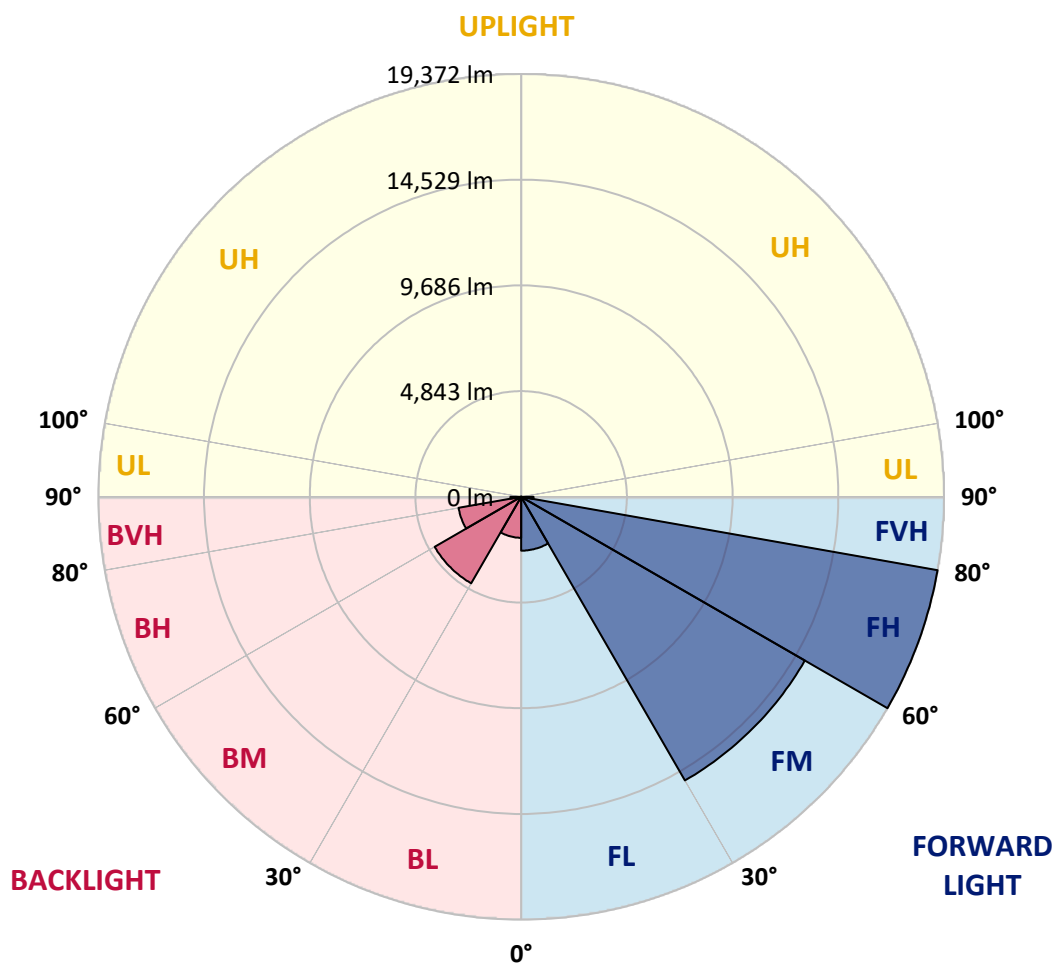
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.4	5.2			
FM	(30°-60°)	15004.5	31.7			
FH	(60°-80°)	19372.1	41.0			G5
FVH	(80°-90°)	564.7	1.2			G4/750
BL	(0°-30°)	1877.6	4.0	B3/2500		
BM	(30°-60°)	4577.3	9.7	B3/5000		
BH	(60°-80°)	2912.7	6.2	B4/5000		G4/5000
BVH	(80°-90°)	493.6	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°	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7
2.5°	5806.6	5795.1	5790.5	5781.3	5769.8	5712.3	5700.8	5659.4	5602.0	5542.2	5480.1
5°	6188.4	6186.1	6160.8	6114.8	6041.2	5914.7	5884.8	5783.6	5648.0	5516.9	5385.8
7.5°	6524.1	6503.4	6455.1	6363.1	6234.4	6061.9	6020.5	5880.2	5693.9	5514.6	5337.5
10°	6770.2	6758.7	6652.9	6526.4	6358.5	6167.7	6119.4	5963.0	5758.3	5530.7	5309.9
12.5°	6910.5	6887.5	6765.6	6613.8	6413.7	6227.5	6179.2	6020.5	5790.5	5530.7	5270.8
15°	6901.3	6885.2	6763.3	6597.7	6395.3	6232.1	6188.4	6029.7	5783.6	5507.7	5220.2
17.5°	6717.3	6724.2	6620.7	6457.4	6291.9	6167.7	6128.6	5981.4	5737.6	5461.7	5160.4
20°	6395.3	6427.5	6358.5	6213.7	6121.7	6036.6	6011.3	5887.1	5666.3	5395.0	5096.0
22.5°	6073.4	6103.3	6075.7	5953.8	5940.0	5889.4	5875.6	5785.9	5604.3	5353.6	5056.9
25°	5836.5	5864.1	5859.5	5753.7	5795.1	5792.8	5781.3	5737.6	5590.5	5353.6	5063.8
27.5°	5772.1	5781.3	5772.1	5675.5	5733.0	5779.0	5769.8	5762.9	5631.9	5420.3	5151.2
30°	5992.9	5979.1	5907.8	5712.3	5765.2	5829.6	5820.4	5825.0	5756.0	5595.1	5346.7
32.5°	6873.7	6811.6	6586.2	6036.6	5896.3	5930.8	5935.4	6011.3	6022.8	5864.1	5650.3
35°	8191.4	8122.4	7830.3	6905.9	6303.4	6183.8	6183.8	6298.8	6367.7	6250.5	6121.7
37.5°	9587.3	9511.4	9355.0	8110.9	7158.8	6623.0	6611.5	6692.0	6790.9	6818.5	6850.7
40°	11174.0	11093.5	11137.2	9463.1	8352.3	7384.2	7220.9	7163.4	7430.2	7607.3	7864.8
42.5°	12910.3	12873.5	12889.6	10969.4	9711.4	8522.5	8290.3	7993.6	8315.5	8630.6	9171.0
45°	14517.7	14549.9	14533.8	12581.4	11224.6	9911.5	9665.4	9090.5	9405.6	9946.0	10826.8
47.5°	15925.1	15791.7	15998.7	14342.9	12919.5	11466.1	11162.5	10392.1	10711.8	11378.7	12868.9
50°	17633.7	17615.4	17311.8	16693.2	14968.4	13027.5	12629.7	11737.4	12234.2	13160.9	15442.2
52.5°	19429.8	19096.3	18818.1	18521.4	17141.6	14628.1	14140.6	13078.1	14023.3	15189.2	18578.9
55°	19797.7	19648.2	19993.2	20492.2	19236.6	16290.8	15722.7	14759.2	16037.8	17507.3	22196.3
57.5°	20584.2	20581.9	21294.8	22184.8	21393.7	18054.6	17482.0	16789.8	18302.9	20163.4	26036.7
60°	21115.4	21264.9	22589.5	24316.5	23511.7	20092.1	19565.5	19133.1	20878.6	23132.2	29614.9
62.5°	21393.7	21596.1	23403.6	25181.2	26505.8	23484.1	22957.4	22334.2	24286.6	26388.5	31707.6
65°	20237.0	20634.8	23277.1	25928.6	29127.4	28982.5	28745.7	27651.0	28547.9	28961.8	30951.0
67.5°	17035.8	17442.9	20519.8	25231.8	30999.3	34285.5	34336.1	32466.5	31169.5	29182.6	26022.9
70°	12137.6	12457.2	15002.9	21154.5	29573.6	37751.1	37923.6	34685.7	30647.5	25880.3	18181.1
72.5°	5762.9	5958.4	8368.4	13768.0	23468.0	34589.1	34922.6	31852.5	26059.7	19160.7	9918.4
75°	2118.0	2177.8	2828.6	5857.2	13611.7	25507.8	25901.0	22833.3	17275.0	9539.0	3778.3
77.5°	1269.4	1308.5	1586.8	2472.1	5353.6	14579.8	15161.6	12418.1	7549.8	3550.7	1858.1
80°	887.7	915.3	1138.3	1538.5	2529.6	5556.0	6073.4	5068.4	3007.9	2246.8	1352.2
82.5°	600.2	614.0	800.3	1039.4	1681.0	1984.6	2141.0	2253.7	2028.3	1671.8	857.8
85°	393.2	407.0	542.7	685.3	1069.3	1025.6	1048.6	1326.9	1481.0	1136.0	476.0
87.5°	225.4	234.6	326.6	365.6	524.3	434.6	439.2	699.1	947.5	765.8	289.8
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°	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7	5484.7
2.5°	5464.0	5434.1	5367.4	5326.0	5286.9	5277.7	5261.6	5259.3	5257.0	5257.0	5250.1
5°	5342.1	5291.5	5188.0	5130.5	5082.2	5077.6	5075.3	5086.8	5091.4	5096.0	5089.1
7.5°	5263.9	5194.9	5066.1	4983.4	4925.9	4912.1	4935.1	4988.0	5022.4	5036.2	5029.3
10°	5215.6	5130.5	4981.1	4891.4	4843.1	4836.2	4866.1	4928.2	4999.4	5027.0	5024.7
12.5°	5160.4	5063.8	4905.2	4810.9	4783.3	4797.1	4836.2	4893.7	4967.3	5010.9	5013.2
15°	5105.2	4992.5	4829.3	4746.5	4735.0	4753.4	4790.2	4833.9	4891.4	4935.1	4939.7
17.5°	5038.5	4921.3	4758.0	4672.9	4663.7	4672.9	4675.2	4698.2	4735.0	4776.4	4787.9
20°	4967.3	4847.7	4677.5	4592.4	4551.0	4514.2	4472.8	4477.4	4488.9	4530.3	4539.5
22.5°	4916.7	4797.1	4615.4	4498.1	4387.7	4277.4	4194.6	4183.1	4187.7	4222.2	4233.7
25°	4921.3	4794.8	4599.3	4396.9	4155.5	3978.4	3868.0	3849.6	3847.3	3872.6	3888.7
27.5°	5010.9	4884.5	4659.1	4293.5	3902.5	3640.4	3523.1	3509.3	3490.9	3497.8	3516.2
30°	5211.0	5093.7	4804.0	4187.7	3628.9	3309.2	3187.3	3173.5	3148.2	3136.7	3150.5
32.5°	5537.6	5441.0	5015.5	4086.5	3355.2	3026.3	2902.2	2872.3	2856.2	2842.4	2853.9
35°	6080.3	6038.9	5298.4	3976.1	3113.7	2807.9	2695.2	2649.2	2626.2	2651.5	2669.9
37.5°	6931.2	6954.2	5668.6	3803.6	2927.5	2663.0	2568.7	2515.8	2481.3	2502.0	2522.7
40°	8136.2	8152.3	6078.0	3559.9	2766.5	2577.9	2476.7	2428.4	2380.1	2343.3	2341.0
42.5°	9718.3	9555.1	6480.4	3295.4	2580.2	2525.0	2412.3	2352.5	2279.0	2177.8	2157.1
45°	11594.9	11022.2	6786.3	2991.9	2370.9	2460.6	2341.0	2258.3	2143.3	2032.9	2021.4
47.5°	13756.5	12597.5	6935.8	2676.8	2175.5	2366.3	2253.7	2122.6	1977.7	1922.5	1915.6
50°	16396.5	14467.1	7007.0	2370.9	2005.3	2242.2	2127.2	1973.1	1851.2	1839.7	1832.8
52.5°	19402.2	16716.2	7030.0	2120.3	1865.0	2081.2	2023.7	1874.2	1777.6	1786.8	1786.8
55°	22548.1	19038.8	6717.3	1938.6	1736.2	1915.6	1954.7	1835.1	1754.6	1791.4	1805.2
57.5°	25436.5	21097.0	5733.0	1798.3	1614.4	1789.1	1929.4	1871.9	1816.7	1966.2	1975.4
60°	27653.3	22313.5	4282.0	1671.8	1524.7	1745.4	1996.1	2012.2	2026.0	2382.4	2430.7
62.5°	28117.9	21908.8	2943.6	1573.0	1483.3	1782.2	2118.0	2120.3	2104.2	2352.5	2382.4
65°	25986.1	19349.3	2141.0	1517.8	1448.8	1848.9	2221.5	2173.2	2067.4	2256.0	2200.8
67.5°	20637.1	14577.5	1782.2	1476.4	1398.2	1844.3	2331.8	2221.5	2046.7	2210.0	2120.3
70°	13395.5	8814.6	1586.8	1441.9	1338.4	1756.9	2396.2	2216.9	1986.9	2055.9	1950.1
72.5°	6535.6	3941.6	1455.7	1391.3	1276.3	1635.1	2393.9	2175.5	1924.8	1920.2	1862.7
75°	2557.2	1805.2	1336.1	1315.4	1170.5	1497.1	2329.5	2115.7	1851.2	1777.6	1756.9
77.5°	1497.1	1287.8	1184.3	1202.7	1044.0	1359.1	2235.3	2012.2	1750.0	1662.7	1639.7
80°	1090.0	963.6	1009.5	1039.4	892.3	1221.1	2108.8	1885.7	1637.4	1681.0	1648.9
82.5°	699.1	620.9	818.7	848.6	742.8	1080.8	1970.8	1752.3	1478.7	1343.0	1310.8
85°	356.4	393.2	609.4	646.2	572.6	887.7	1802.9	1575.3	1299.3	1117.6	1136.0
87.5°	200.1	269.1	388.6	434.6	404.7	683.0	1462.6	1299.3	1060.1	862.4	758.9
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)