

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: P193268

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193268
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-10-LED-E1-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA 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: 46315 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - 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



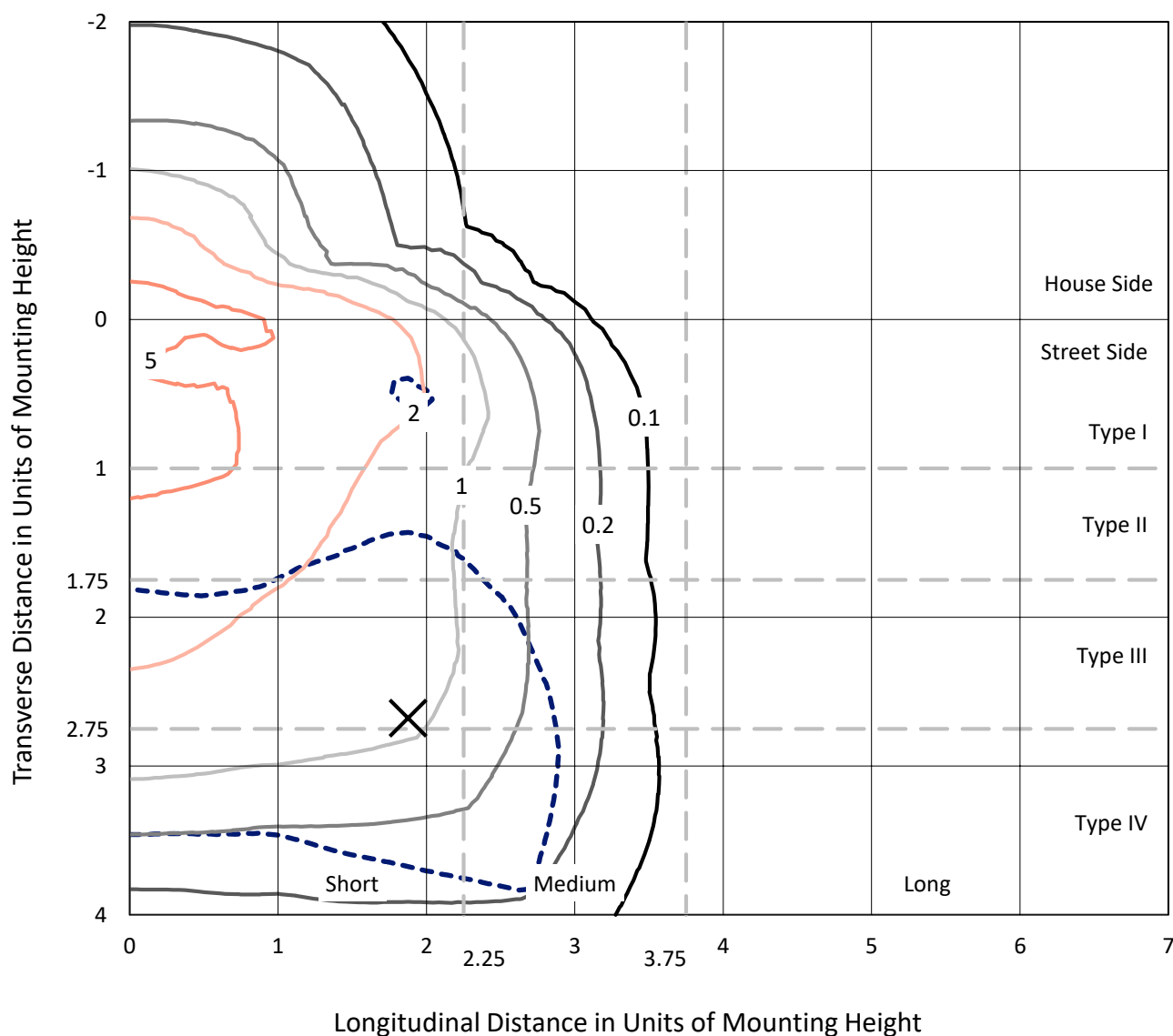
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

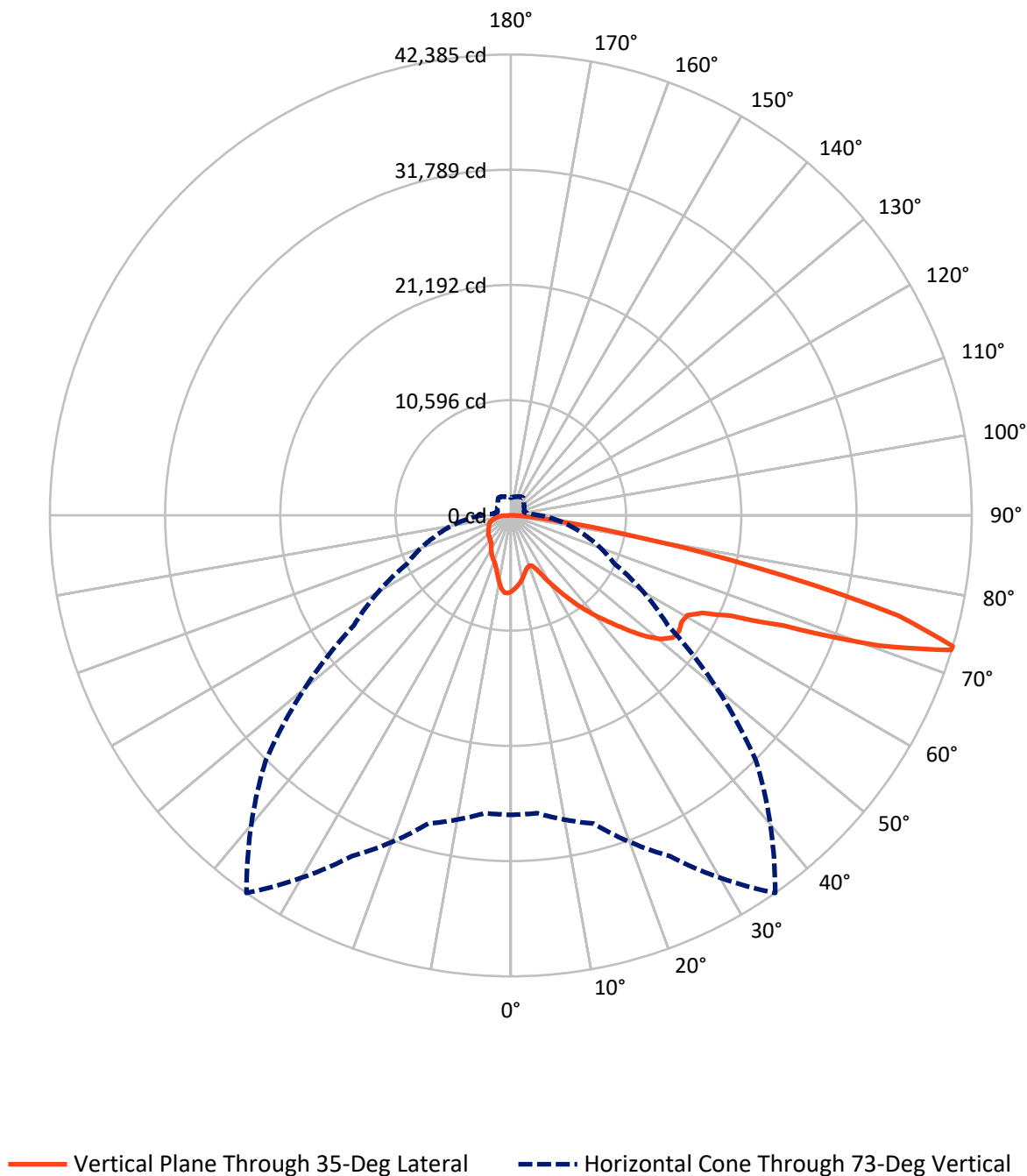


Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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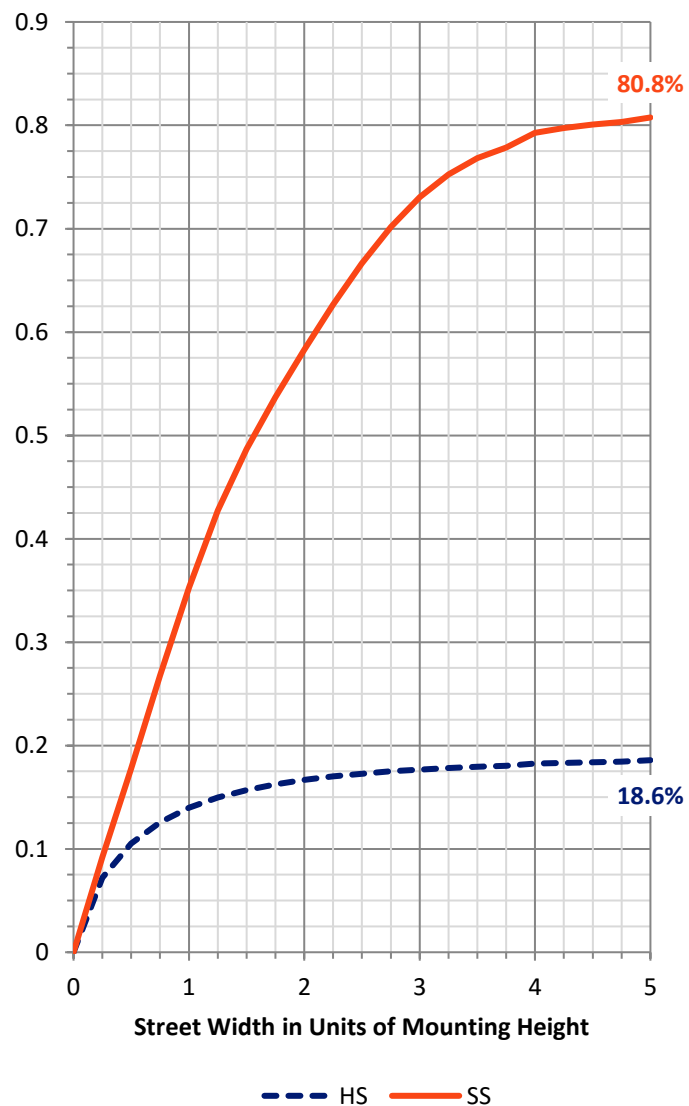
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8833.5	0.0	8833.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	37481.4	0.0	37481.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	46315.0	0.0	46315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	1.4
10°-20°	1579.4	3.4
20°-30°	2553.4	5.5
30°-40°	4281.7	9.2
40°-50°	6600.0	14.3
50°-60°	8854.7	19.1
60°-70°	11796.2	25.5
70°-80°	8996.9	19.4
80°-90°	1019.8	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°	46315.0	100.0
0°-180°	46315.0	100.0

Coefficient of Utilization



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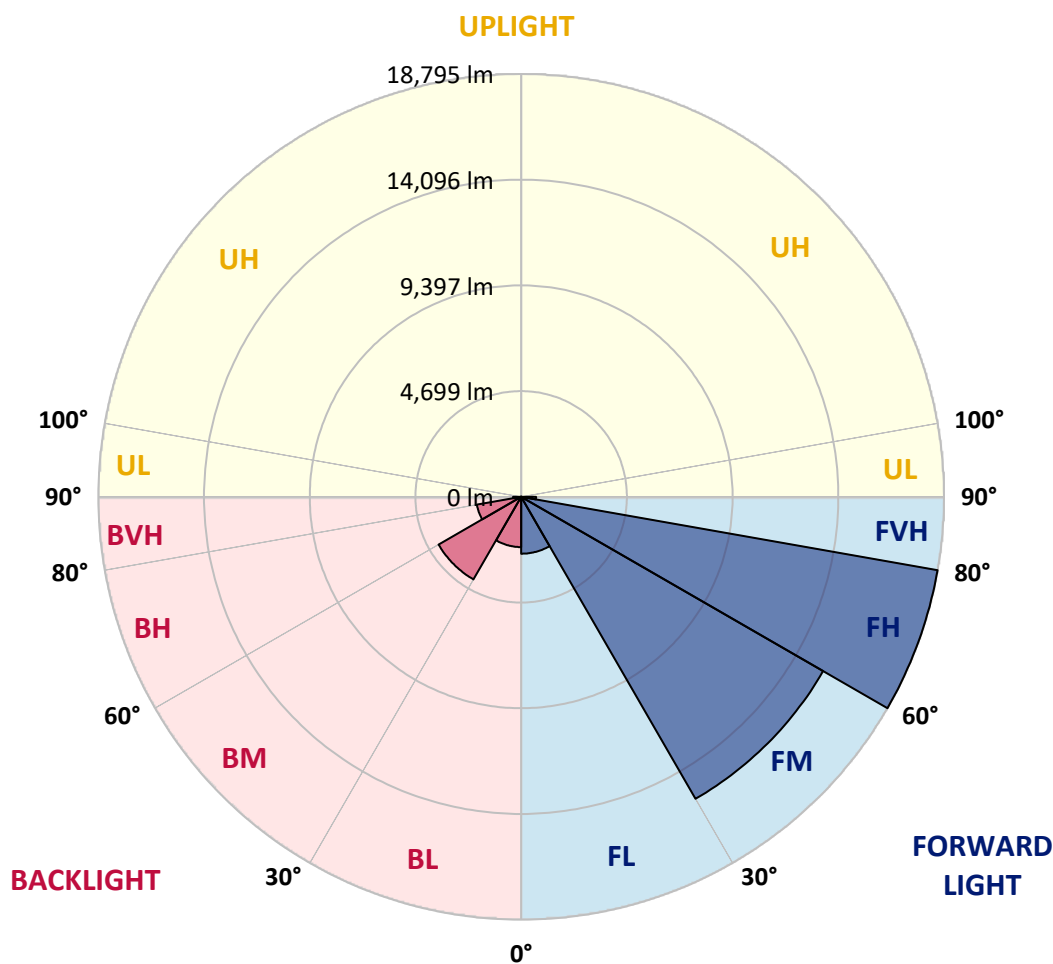
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2530.4	5.5			
FM	(30°-60°)	15497.3	33.5			
FH	(60°-80°)	18794.6	40.6			G5
FVH	(80°-90°)	659.2	1.4			G4/750
BL	(0°-30°)	2235.3	4.8	B3/2500		
BM	(30°-60°)	4239.1	9.2	B3/5000		
BH	(60°-80°)	1998.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	360.6	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°	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4
2.5°	6714.6	6727.9	6712.4	6732.3	6765.8	6801.3	6825.8	6861.4	6901.4	6957.0	6970.3
5°	6398.8	6418.8	6418.8	6454.4	6518.9	6576.7	6630.1	6687.9	6772.4	6868.0	6905.8
7.5°	6051.8	6062.9	6082.9	6136.3	6229.8	6312.0	6387.7	6481.0	6596.7	6723.5	6790.3
10°	5633.6	5649.2	5680.4	5756.0	5882.7	5996.1	6105.2	6234.3	6381.0	6538.8	6623.4
12.5°	5337.9	5333.4	5346.7	5402.4	5513.6	5651.4	5809.5	5974.0	6154.1	6338.6	6441.1
15°	5237.8	5213.3	5162.2	5148.9	5208.8	5346.7	5529.2	5731.5	5947.3	6169.7	6296.5
17.5°	5300.0	5257.8	5117.7	5015.3	5006.5	5111.0	5304.5	5531.4	5780.5	6051.8	6209.7
20°	5691.6	5591.5	5246.6	5008.7	4926.4	4977.6	5146.5	5386.8	5680.4	6040.7	6243.1
22.5°	6627.8	6481.0	5749.3	5306.7	5028.6	4966.4	5093.2	5349.0	5691.6	6178.6	6436.6
25°	7991.2	7782.2	6612.3	6049.5	5475.7	5144.4	5173.3	5435.7	5849.4	6498.8	6810.2
27.5°	9067.7	8932.1	7739.9	7097.2	6289.7	5624.7	5433.5	5653.7	6171.9	7023.7	7341.7
30°	9708.2	9626.0	8945.4	8284.8	7328.4	6389.8	5931.6	6062.9	6676.8	7751.1	8013.5
32.5°	10451.0	10402.1	10068.6	9461.3	8449.3	7395.2	6721.3	6674.5	7352.9	8625.2	8745.2
35°	11220.6	11205.1	11009.3	10573.4	9652.6	8720.7	7768.8	7453.0	8089.1	9532.6	9456.9
37.5°	11936.8	11910.2	11796.7	11543.1	10911.5	10144.1	8836.4	8251.5	8883.1	10400.0	10064.1
40°	13255.7	13046.6	12657.3	12466.2	12183.7	11343.0	9683.7	8996.5	9706.0	11227.3	10589.0
42.5°	14863.7	14523.4	13798.4	13535.9	13495.9	12288.2	10262.0	9719.3	10535.7	12048.0	11105.0
45°	16129.2	15808.9	15184.0	14852.6	14999.4	13144.4	10842.6	10491.1	11389.6	12908.8	11636.5
47.5°	17479.3	16976.6	16149.3	16249.4	16569.6	13954.0	11434.1	11320.7	12326.0	13871.8	12297.1
50°	17528.3	17143.5	16780.9	17379.3	17877.3	14699.0	12174.8	12190.4	13471.4	15083.9	13175.6
52.5°	16511.8	16429.6	17005.5	17946.4	18664.8	15288.5	13017.7	13088.9	14937.2	16476.2	14140.9
55°	16155.9	16062.5	16727.5	17748.4	18771.5	15775.6	13931.8	14060.8	16709.7	17944.0	15081.7
57.5°	17023.3	16816.5	16861.0	17654.9	18511.2	16309.3	14928.2	15188.4	18635.8	19227.5	15686.7
60°	19447.6	19005.0	18164.3	18144.2	18651.3	17110.1	16080.3	16398.4	20637.6	19841.3	15450.9
62.5°	22848.3	22405.7	20831.1	19805.7	19730.0	18431.2	17494.8	17579.4	21794.1	19009.5	14011.9
65°	26529.1	26133.2	24374.0	22926.1	22227.7	20619.7	19138.4	18106.5	21415.9	16720.8	11494.2
67.5°	30997.4	30572.6	29060.2	27723.6	27051.8	24151.5	20292.7	17601.5	19016.1	12953.2	8262.5
70°	34122.3	33688.6	33092.6	34175.6	35819.2	29247.1	20441.8	15548.8	14203.1	8609.5	4973.2
72.5°	30045.5	29843.1	30930.6	35492.4	42338.1	32338.5	18477.9	11320.7	8249.2	4570.6	2878.0
73°	27527.8	27483.3	29338.2	34569.3	42384.8	31862.6	17617.2	10522.2	7074.9	4043.4	2631.1
75°	12430.5	12788.6	16854.4	26404.5	36824.5	26255.5	12399.4	6036.2	3996.7	2793.4	1986.2
77.5°	2986.9	3111.4	5273.4	12539.5	23255.3	15646.6	5618.1	2984.8	2555.5	1972.7	1450.1
80°	1272.3	1314.5	2030.6	4632.8	10949.3	6300.9	2588.9	1999.5	1768.2	1376.7	1016.4
82.5°	707.2	751.7	1152.1	2101.8	4419.3	2148.5	1579.2	1392.3	1163.2	829.6	660.6
85°	400.3	424.8	673.9	1174.3	1872.7	862.9	945.2	925.2	656.1	426.9	324.7
87.5°	189.0	204.7	324.7	544.8	734.0	338.0	480.4	529.4	411.5	260.2	169.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4	6990.4
2.5°	6985.9	7025.9	7072.7	7097.2	7119.4	7146.1	7172.8	7172.8	7177.2	7179.4
5°	6937.0	7019.3	7092.7	7123.8	7130.5	7130.5	7123.8	7088.2	7057.0	7070.5
7.5°	6834.7	6954.8	7017.0	7005.9	6921.5	6823.6	6741.3	6641.3	6590.1	6581.1
10°	6687.9	6825.8	6836.9	6725.7	6516.7	6307.5	6134.2	5965.0	5885.0	5864.9
12.5°	6525.5	6652.4	6581.1	6352.0	6016.3	5711.5	5491.4	5320.1	5244.5	5224.4
15°	6394.3	6481.0	6300.9	5940.7	5518.0	5195.5	5013.2	4886.4	4833.0	4817.5
17.5°	6325.3	6343.1	6013.9	5526.9	5077.6	4808.5	4695.1	4635.0	4615.0	4603.8
20°	6358.8	6234.3	5740.4	5142.2	4717.4	4528.2	4501.6	4486.0	4481.6	4474.9
22.5°	6525.5	6200.8	5489.0	4777.4	4401.5	4319.2	4341.4	4339.2	4334.8	4330.4
25°	6823.6	6229.8	5244.5	4430.5	4136.9	4119.1	4159.1	4159.1	4141.3	4141.3
27.5°	7217.2	6289.7	4970.9	4101.3	3896.6	3898.8	3929.9	3921.1	3901.1	3887.8
30°	7697.7	6327.6	4650.6	3805.5	3671.9	3663.1	3671.9	3634.2	3574.1	3569.7
32.5°	8189.2	6280.9	4279.1	3543.0	3434.0	3414.1	3407.4	3353.9	3285.0	3265.0
35°	8634.0	6109.7	3901.1	3333.9	3207.2	3162.7	3193.8	3176.0	3113.8	3098.1
37.5°	8958.7	5791.7	3560.8	3149.3	3044.8	3033.7	3053.7	3060.4	2986.9	2971.5
40°	9176.6	5360.2	3269.5	2993.7	3013.7	2971.5	2904.6	2858.0	2835.8	2829.0
42.5°	9352.4	4910.8	3024.8	2920.3	3020.4	2898.0	2753.5	2677.8	2717.9	2735.7
45°	9554.7	4472.6	2820.2	2829.0	2986.9	2813.5	2648.9	2575.6	2591.1	2595.6
47.5°	9832.8	3938.9	2600.0	2682.4	2875.8	2755.6	2584.4	2479.8	2406.4	2373.1
50°	10217.6	3307.3	2370.9	2517.7	2766.8	2713.5	2484.3	2373.1	2237.4	2206.3
52.5°	10484.4	2717.9	2181.8	2379.7	2668.8	2628.9	2404.2	2259.7	2117.3	2090.6
55°	10339.9	2257.6	2017.3	2226.3	2540.0	2524.3	2337.5	2144.0	2032.9	2010.6
57.5°	9617.0	1966.1	1890.5	2081.7	2382.1	2435.4	2248.5	2046.2	1966.1	1950.5
60°	8238.1	1783.7	1810.4	1983.9	2253.0	2346.5	2159.6	1992.8	1939.5	1928.3
62.5°	6392.1	1661.4	1750.4	1912.7	2153.0	2284.2	2110.7	1986.2	1966.1	1952.8
65°	4579.5	1563.5	1685.9	1841.6	2061.7	2226.3	2092.9	1977.3	1981.6	1970.6
67.5°	3111.4	1476.8	1608.1	1761.5	1972.7	2175.2	2068.4	1946.1	2001.7	1988.3
70°	2177.4	1392.3	1516.8	1659.2	1861.6	2104.0	2023.9	1899.4	1895.0	1841.6
72.5°	1699.2	1281.1	1392.3	1516.8	1719.2	2004.0	1935.0	1794.8	1721.5	1665.8
73°	1621.4	1254.4	1361.2	1485.7	1688.0	1979.4	1910.5	1765.9	1683.6	1632.5
75°	1341.1	1138.7	1236.6	1347.8	1554.6	1863.9	1790.4	1634.7	1530.1	1499.0
77.5°	1054.3	974.1	1067.6	1167.7	1370.0	1694.7	1612.4	1463.4	1405.6	1379.0
80°	780.6	807.3	889.6	978.6	1187.6	1514.7	1441.2	1292.2	1550.2	1485.7
82.5°	549.3	611.7	687.2	767.3	996.5	1338.9	1249.9	1096.5	1134.3	943.0
85°	324.7	400.3	471.6	540.5	718.4	1109.8	1032.0	874.1	716.2	682.8
87.5°	189.0	222.5	242.4	313.6	493.8	836.3	727.2	647.3	371.4	251.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)