

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: P193148

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47963.7 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full 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

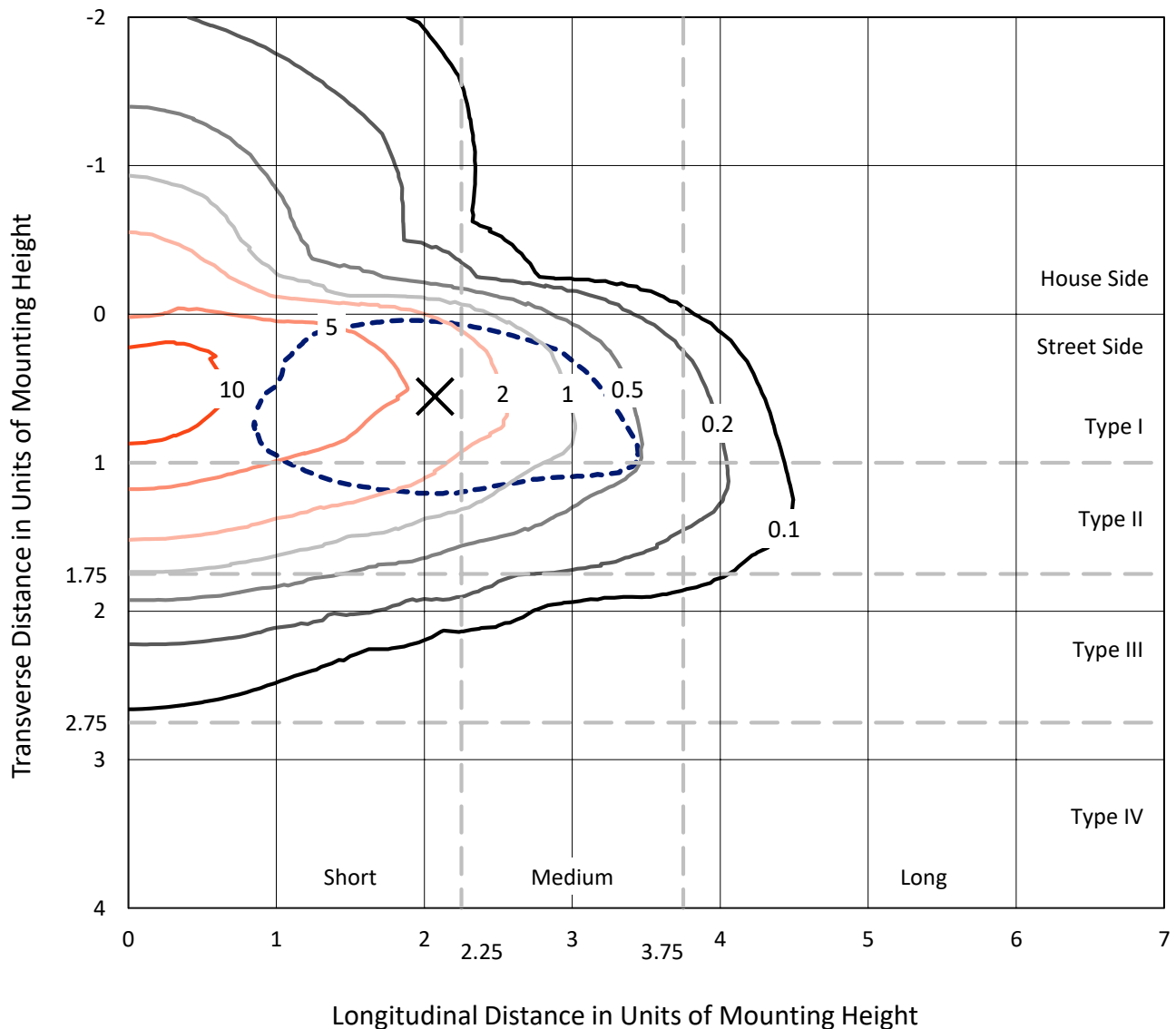


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

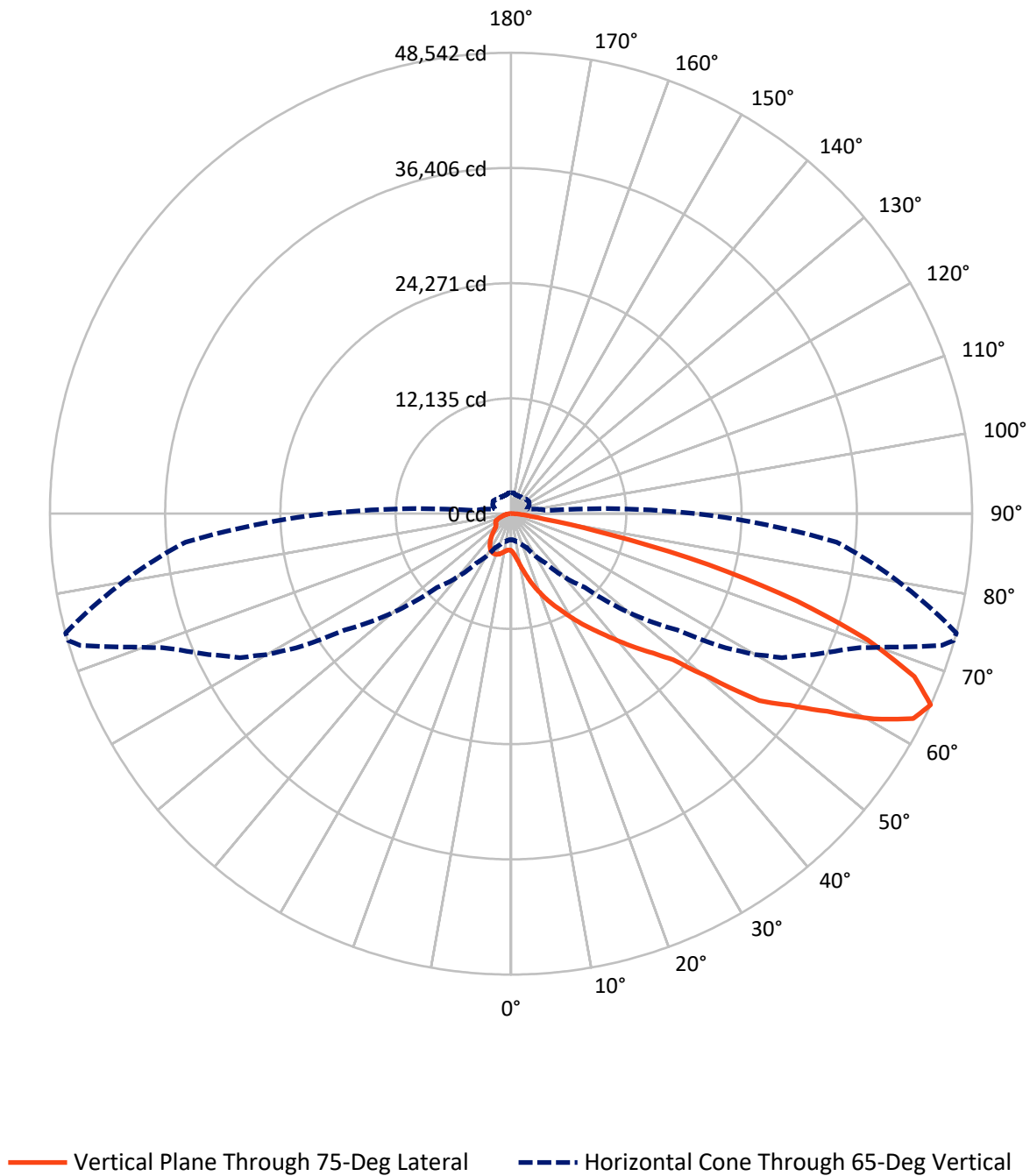


Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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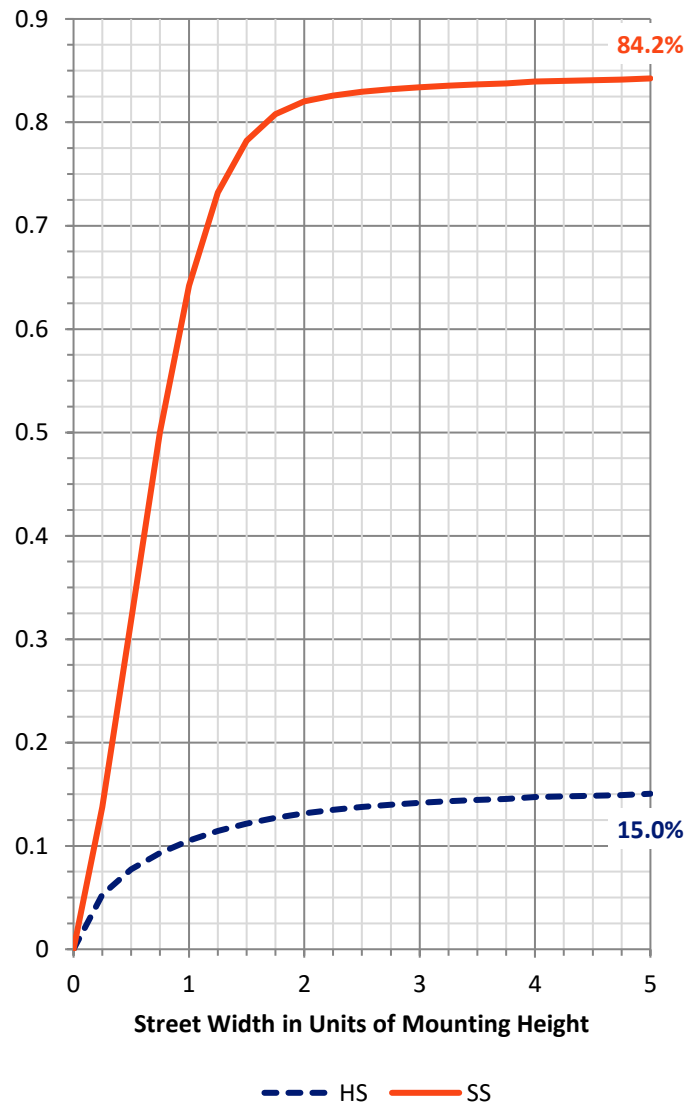
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7394.9	0.0	7394.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	40568.9	0.0	40568.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	47963.7	0.0	47963.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.8	1.0
10°-20°	1882.5	3.9
20°-30°	3862.3	8.1
30°-40°	6498.1	13.5
40°-50°	8978.6	18.7
50°-60°	11207.9	23.4
60°-70°	10085.9	21.0
70°-80°	4227.9	8.8
80°-90°	738.6	1.5
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°	47963.7	100.0
0°-180°	47963.7	100.0

Coefficient of Utilization



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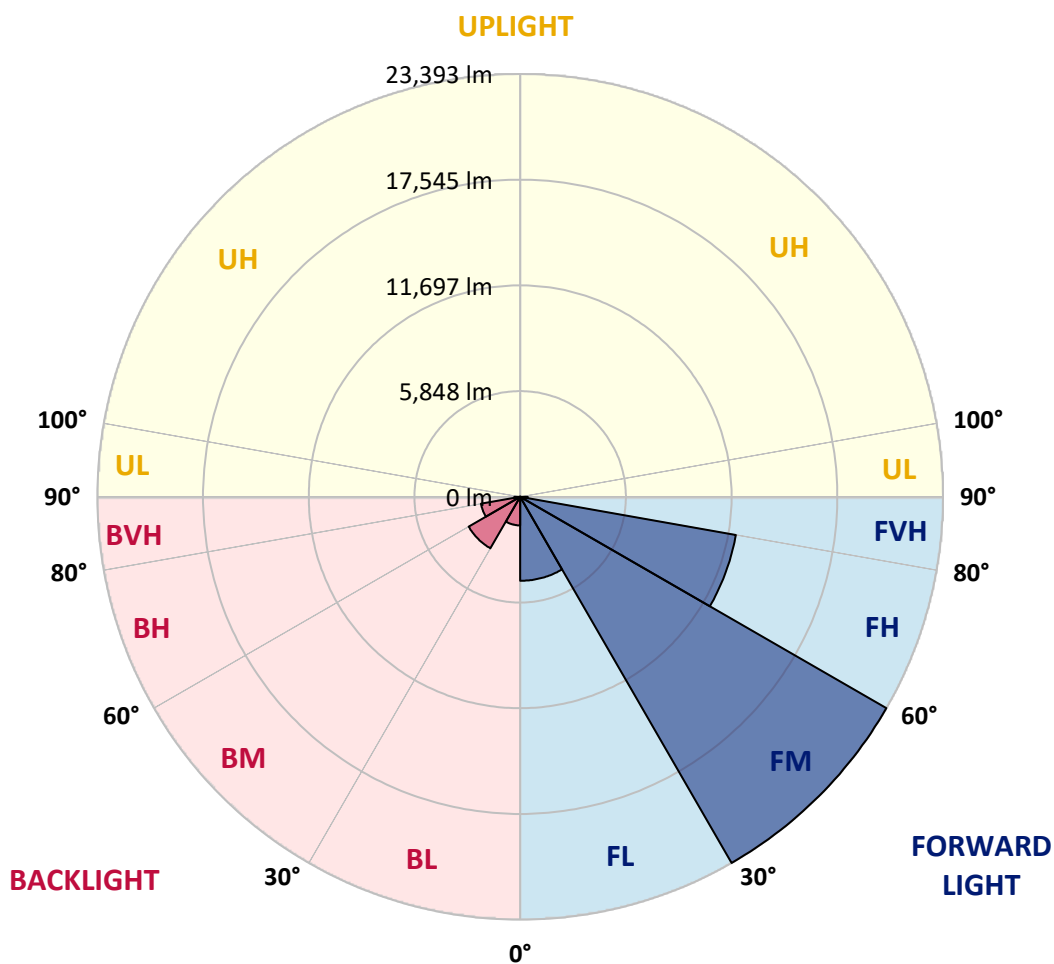
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4645.1	9.7			
FM	(30°-60°)	23393.1	48.8			
FH	(60°-80°)	12115.5	25.3			G5
FVH	(80°-90°)	415.2	0.9			G3/500
BL	(0°-30°)	1581.5	3.3	B3/2500		
BM	(30°-60°)	3291.5	6.9	B3/5000		
BH	(60°-80°)	2198.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	323.5	0.7			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0
2.5°	4949.1	4894.6	4908.3	4817.5	4706.2	4560.9	4399.7	4397.4	4399.7	4383.8	4324.8
5°	6862.9	6797.0	6772.1	6567.8	6268.1	5841.3	5378.2	5328.2	5307.9	5255.6	5135.3
7.5°	8259.0	8222.8	8184.2	8029.8	7757.3	7280.6	6658.6	6551.8	6449.7	6424.8	6288.5
10°	9160.3	9151.2	9069.5	9028.6	8858.4	8445.2	7839.1	7736.8	7625.6	7587.1	7444.1
12.5°	9873.2	9870.9	9832.4	9843.7	9696.1	9396.4	8874.2	8781.1	8699.4	8581.4	8479.3
15°	10365.9	10368.0	10424.9	10488.5	10465.7	10263.7	9773.4	9732.5	9662.1	9580.3	9460.0
17.5°	10769.9	10781.2	10840.2	10956.1	11081.0	11065.0	10676.9	10642.8	10581.5	10470.4	10406.7
20°	11682.5	11725.7	11612.2	11612.2	11625.8	11687.1	11500.9	11473.8	11387.4	11328.4	11278.5
22.5°	13224.0	13274.0	13017.4	12756.3	12499.8	12313.6	12127.6	12161.5	12102.5	12061.6	12032.1
25°	15226.4	15264.9	14849.5	14409.1	13887.0	13205.8	12745.0	12724.6	12692.7	12667.8	12654.2
27.5°	17110.6	17126.5	16733.8	16089.1	15482.9	14504.5	13371.5	13346.7	13308.0	13260.4	13219.5
30°	18722.5	18718.0	18313.9	17698.7	17049.4	15966.5	14322.8	14245.7	14132.1	14002.7	13902.8
32.5°	20118.7	20111.9	19669.2	19031.3	18350.2	17414.9	15625.9	15467.1	15290.0	15037.9	14885.8
35°	21217.5	21212.9	20795.2	20130.0	19349.0	18779.3	17119.8	16924.5	16699.7	16361.5	16127.6
37.5°	21632.9	21632.9	21399.1	20945.1	20254.9	19864.4	18779.3	18543.2	18302.6	17918.8	17655.5
40°	21390.0	21394.6	21444.6	21360.5	21024.5	20724.9	20327.5	20186.8	19980.2	19635.1	19360.4
42.5°	20575.0	20600.0	20931.5	21337.8	21505.8	21458.1	21701.1	21637.4	21492.2	21226.6	21008.6
45°	19542.1	19619.2	19982.5	20749.9	21639.8	22091.5	22852.0	22858.9	22831.6	22688.6	22520.6
47.5°	18123.2	18232.1	18711.2	19748.6	21326.5	22706.8	24021.2	24082.5	24139.3	24046.3	23969.0
50°	16238.8	16368.3	17085.6	18461.4	20688.6	23344.7	26230.1	26507.1	26765.9	26734.1	26786.3
52.5°	14220.6	14372.7	15251.4	16783.8	19592.1	23492.3	27642.3	28094.0	28545.7	28915.8	29308.6
55°	12400.0	12318.2	13196.8	14810.9	17789.5	22827.1	28911.3	29456.1	29960.1	30414.2	30881.8
57.5°	9932.2	10066.2	10947.0	12543.0	15403.5	20949.6	29785.2	30582.1	31306.4	32057.8	32720.8
60°	7260.2	7394.1	8349.9	9970.8	12813.2	18102.7	29117.8	30325.6	31485.7	32636.8	33535.7
62.5°	4383.8	4483.7	5326.0	6869.6	9880.0	14726.9	26143.9	27728.5	29435.6	30811.4	32189.4
65°	2728.9	2785.6	3096.6	3945.7	6345.2	10994.6	21360.5	23088.1	24927.1	26672.8	28105.3
67.5°	2234.0	2254.3	2311.1	2492.8	3484.9	7169.4	15898.4	17428.5	19088.0	20777.1	22370.8
70°	2009.2	1995.5	1995.5	2006.9	2234.0	3854.8	10408.9	11405.6	12788.1	14257.0	15714.4
72.5°	1813.9	1800.3	1775.4	1741.3	1823.0	2352.0	5380.5	6131.8	7128.5	8433.8	9830.0
75°	1630.0	1611.9	1582.3	1539.3	1596.0	1775.4	2583.6	2899.0	3384.9	4079.6	4858.3
77.5°	1439.3	1416.6	1389.3	1357.5	1430.2	1380.3	1514.3	1627.8	1813.9	2036.4	2329.3
80°	1223.7	1203.2	1194.1	1178.3	1264.5	1051.1	1069.3	1139.7	1248.7	1368.9	1505.1
82.5°	957.9	957.9	994.4	1001.2	1096.5	756.0	799.1	860.4	917.1	980.7	1044.3
85°	631.1	635.7	758.3	805.9	865.0	508.5	599.3	619.7	665.2	701.5	728.8
87.5°	197.5	213.4	463.2	513.1	497.1	288.3	367.7	376.8	408.6	433.6	456.2
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0
2.5°	4324.8	4297.5	4272.6	4270.3	4252.2	4227.1	4236.2	4197.6	4199.9	4179.5	4156.8
5°	5085.3	5067.1	4976.3	4951.3	4883.3	4840.0	4833.3	4742.5	4731.2	4678.9	4622.2
7.5°	6179.6	6120.4	5993.4	5932.1	5816.3	5730.0	5689.1	5568.8	5509.8	5373.6	5312.3
10°	7326.1	7251.1	7094.4	7008.2	6896.9	6758.4	6683.5	6508.7	6440.7	6315.7	6165.9
12.5°	8388.5	8313.5	8152.4	8086.5	7939.0	7791.4	7709.7	7512.1	7423.6	7223.9	7105.7
15°	9371.5	9296.6	9155.8	9087.7	8940.1	8819.9	8710.8	8515.5	8411.3	8225.0	8070.7
17.5°	10325.0	10245.5	10122.9	10061.5	9918.5	9795.9	9677.9	9494.1	9387.3	9201.2	9062.7
20°	11210.3	11151.3	11062.8	10981.1	10838.1	10726.7	10586.0	10427.1	10272.8	10136.5	10004.9
22.5°	11982.3	11959.5	11864.1	11827.9	11705.3	11609.9	11487.3	11330.6	11219.4	11046.8	10924.3
25°	12647.5	12640.6	12595.2	12583.8	12497.6	12406.7	12379.5	12250.1	12148.0	11995.9	11868.8
27.5°	13219.5	13226.3	13214.9	13246.7	13224.0	13183.2	13185.4	13142.4	13083.2	12956.2	12844.9
30°	13855.1	13818.8	13839.3	13884.6	13898.4	13902.8	13977.7	14002.7	13998.2	13914.1	13859.6
32.5°	14754.2	14667.9	14588.4	14581.6	14627.1	14645.2	14772.3	14838.2	14894.9	14915.3	14924.5
35°	15900.6	15728.1	15562.4	15473.9	15396.6	15417.0	15507.9	15614.6	15739.5	15825.7	15928.0
37.5°	17344.5	17133.4	16840.4	16631.7	16579.4	16465.9	16524.9	16608.9	16731.5	16865.5	17042.6
40°	19094.8	18774.8	18445.5	18168.6	18018.7	17810.0	17807.6	17791.8	17866.6	17991.5	18241.3
42.5°	20779.4	20495.5	20146.0	19855.3	19660.1	19380.9	19324.1	19176.5	19210.6	19319.5	19562.6
45°	22357.1	22123.3	21909.9	21573.9	21408.1	21106.2	21010.9	20836.1	20738.5	20788.4	21031.4
47.5°	23884.9	23735.2	23512.7	23294.7	23167.7	22897.5	22774.9	22650.0	22525.1	22520.6	22774.9
50°	26863.6	26784.1	26520.7	26293.7	26355.0	26023.6	26044.0	25707.9	25860.1	25878.3	26411.8
52.5°	29662.7	29939.7	30134.9	30373.3	30527.7	30557.2	30659.4	30811.4	30995.3	31358.6	31853.5
55°	31265.5	31612.8	31814.8	31996.5	32296.2	32359.8	32530.0	32732.0	32893.3	33301.9	33721.9
57.5°	33170.2	33814.9	34128.2	34416.5	34820.7	34975.0	35258.8	35479.0	35687.9	36171.5	36680.0
60°	34343.9	35129.4	35767.3	36223.6	36729.9	37093.2	37522.3	37867.3	38357.6	38936.6	39694.9
62.5°	33410.8	34564.1	35410.9	36194.1	36882.0	37576.7	38191.9	38836.6	39581.4	40457.6	41633.6
65°	29694.5	30868.2	32318.9	33131.6	34042.0	35113.5	36048.9	37093.2	38107.9	39383.8	41122.8
67.5°	23905.4	25269.8	26899.8	27719.4	28766.0	29962.3	31011.3	32287.1	33472.1	35018.1	37168.1
70°	17231.0	18994.9	20366.2	21222.1	22443.4	23676.2	24688.7	26173.4	27154.1	28738.7	30961.3
72.5°	10910.6	12302.4	13982.4	15060.7	16145.8	17394.4	18429.7	19710.1	20625.0	22068.8	24082.5
75°	5866.2	6892.4	8368.0	9391.9	10554.2	11621.3	12833.6	13691.8	14368.2	15510.1	17144.8
77.5°	2749.3	3373.6	4120.5	4908.3	5696.0	6517.8	7316.9	8011.7	8302.2	8956.0	9920.8
80°	1668.6	1870.6	2088.6	2331.5	2660.7	2926.3	3278.3	3532.5	3550.6	3757.2	4052.3
82.5°	1114.7	1189.7	1255.4	1316.7	1400.7	1466.6	1541.4	1630.0	1666.3	1714.1	1809.4
85°	760.6	796.8	810.4	849.1	839.9	862.7	892.2	921.7	937.6	935.4	978.4
87.5°	467.6	485.8	495.0	504.0	497.1	488.1	501.7	517.6	522.1	508.5	513.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0
2.5°	4161.3	4140.9	4120.5	4106.8	4102.2	3982.0	3929.7	3895.7	3823.1	3764.0	3716.4
5°	4590.4	4547.3	4513.2	4472.3	4449.6	4145.4	4034.2	3957.1	3829.9	3754.9	3686.9
7.5°	5280.5	5160.2	5089.9	5010.4	4942.3	4392.9	4209.0	4088.7	3911.6	3811.7	3734.5
10°	6063.8	5938.9	5827.7	5705.1	5598.3	4722.0	4454.2	4268.0	4034.2	3904.8	3802.7
12.5°	6937.8	6815.1	6674.4	6517.8	6381.7	5139.8	4767.4	4501.8	4181.8	4009.2	3866.1
15°	7970.8	7755.1	7584.8	7403.2	7244.3	5639.2	5133.0	4765.3	4338.3	4104.6	3913.8
17.5°	8931.1	8704.0	8472.5	8313.5	8129.7	6200.0	5500.7	5033.0	4467.8	4165.8	3923.0
20°	9868.7	9621.2	9421.4	9208.1	9015.1	6781.1	5893.5	5269.1	4551.7	4168.1	3866.1
22.5°	10695.1	10540.7	10318.1	10086.6	9891.4	7362.3	6261.3	5469.0	4583.5	4115.9	3766.2
25°	11634.9	11471.4	11199.0	11003.7	10785.8	7954.8	6622.2	5623.3	4565.4	4018.3	3611.9
27.5°	12638.3	12456.7	12177.5	11973.1	11709.8	8570.1	6953.7	5734.6	4497.3	3859.4	3405.3
30°	13684.9	13519.2	13244.5	13037.9	12772.3	9221.6	7323.7	5809.6	4361.1	3639.2	3164.7
32.5°	14808.7	14670.1	14397.7	14182.1	13898.4	9927.7	7668.8	5832.2	4154.5	3378.1	2910.4
35°	15875.7	15780.4	15551.0	15349.0	15053.8	10595.1	8034.3	5820.9	3909.3	3092.0	2678.8
37.5°	17076.5	17019.9	16906.3	16649.8	16288.8	11500.9	8472.5	5773.2	3609.6	2808.3	2501.8
40°	18356.9	18361.6	18238.9	18064.2	17728.2	12599.8	8994.7	5680.1	3282.7	2558.6	2340.6
42.5°	19712.3	19782.7	19723.7	19598.8	19276.5	13707.5	9618.9	5566.5	2964.9	2315.6	2181.7
45°	21265.1	21351.5	21442.2	21258.3	20945.1	15169.7	10440.7	5419.0	2622.1	2113.6	2072.7
47.5°	23056.3	23192.6	23274.3	23276.6	22963.2	16981.3	11775.6	5330.4	2317.9	1977.4	2020.5
50°	26836.3	26879.4	27072.4	27408.3	27167.8	21174.3	14107.1	5276.0	2111.3	1893.4	1981.9
52.5°	32282.5	32757.0	33090.7	33068.1	32741.1	23837.3	15392.1	4994.5	1988.7	1861.6	1963.7
55°	34500.6	35093.1	35710.7	35874.0	35619.7	26109.8	16606.7	4713.0	1929.7	1884.2	1970.6
57.5°	37456.4	38455.3	39302.0	39658.5	39290.7	29017.9	18204.9	4565.4	1911.5	1945.6	2013.6
60°	40909.4	42144.3	43256.9	43897.0	43897.0	32359.8	19862.1	4504.1	1886.6	2036.4	2086.3
62.5°	43127.4	44941.3	46621.3	47558.9	47531.6	34686.7	20597.7	4295.3	1829.8	2100.0	2186.2
65°	43136.4	45293.2	47434.1	48487.4	48541.9	34400.8	19383.1	3793.6	1725.4	2109.0	2286.1
67.5°	39540.5	41840.2	44335.1	45513.4	45785.8	31667.2	16779.2	3119.3	1555.1	2018.2	2322.5
70°	33395.0	35640.2	38187.4	39345.3	39828.8	26995.2	13514.6	2404.1	1337.2	1818.4	2247.6
72.5°	26309.6	28511.7	30284.7	31131.6	31508.4	20634.0	9841.4	1816.2	1096.5	1532.4	2045.5
75°	18627.2	20279.9	21222.1	21410.5	21469.5	12438.5	5979.8	1350.8	903.6	1191.9	1727.6
77.5°	10513.4	11221.7	11144.6	11228.5	10529.4	4801.5	2603.9	967.2	744.6	905.9	1339.4
80°	4104.6	4231.7	3975.2	3895.7	3573.4	1786.7	1148.8	674.2	594.8	685.6	937.6
82.5°	1809.4	1868.5	1813.9	1827.6	1748.0	921.7	687.9	488.1	454.1	501.7	622.0
85°	996.7	1014.8	1010.2	1039.7	996.7	367.7	326.9	299.7	317.8	340.6	399.6
87.5°	485.8	490.3	474.5	499.5	483.6	186.2	161.1	170.2	186.2	190.6	190.6
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):

	135°	145°	155°	165°	175°	180°
0°	3898.0	3898.0	3898.0	3898.0	3898.0	3898.0
2.5°	3682.2	3664.1	3666.4	3661.9	3652.7	3652.7
5°	3650.6	3632.4	3632.4	3627.9	3616.5	3618.7
7.5°	3682.2	3652.7	3641.4	3625.6	3609.6	3609.6
10°	3718.6	3666.4	3634.6	3607.4	3587.0	3587.0
12.5°	3745.9	3664.1	3611.9	3575.6	3555.2	3555.2
15°	3754.9	3648.2	3575.6	3532.5	3514.4	3512.0
17.5°	3725.4	3587.0	3498.4	3448.4	3425.8	3418.9
20°	3634.6	3475.7	3369.0	3312.3	3280.5	3269.1
22.5°	3498.4	3316.8	3191.9	3132.9	3092.0	3085.3
25°	3307.8	3112.5	2989.9	2933.2	2910.4	2903.6
27.5°	3085.3	2903.6	2799.2	2762.8	2742.4	2740.1
30°	2874.1	2719.7	2642.6	2615.3	2590.3	2585.7
32.5°	2676.7	2578.9	2549.4	2510.9	2451.9	2445.0
35°	2535.8	2526.7	2506.3	2420.1	2347.4	2327.0
37.5°	2449.6	2533.6	2429.2	2258.8	2206.7	2202.1
40°	2399.7	2463.1	2283.8	2224.8	2229.3	2224.8
42.5°	2286.1	2352.0	2288.4	2261.1	2279.2	2283.8
45°	2172.6	2245.3	2322.5	2304.3	2347.4	2347.4
47.5°	2109.0	2218.0	2320.1	2320.1	2383.7	2406.4
50°	2036.4	2195.3	2283.8	2315.6	2365.6	2347.4
52.5°	2031.9	2156.7	2231.6	2288.4	2311.1	2290.6
55°	2038.7	2124.9	2179.4	2243.0	2270.2	2272.5
57.5°	2047.7	2106.7	2143.1	2172.6	2254.3	2254.3
60°	2070.5	2090.9	2111.3	2127.2	2234.0	2236.2
62.5°	2106.7	2075.0	2070.5	2086.3	2222.6	2213.5
65°	2163.6	2052.3	2018.2	2034.1	2211.2	2184.0
67.5°	2240.7	2018.2	1952.4	1963.7	2202.1	2143.1
70°	2311.1	1963.7	1870.6	1859.3	2115.8	2011.5
72.5°	2317.9	1900.1	1757.1	1723.1	1838.9	1739.0
75°	2204.5	1857.1	1632.4	1532.4	1518.8	1505.1
77.5°	1986.5	1832.1	1487.0	1330.3	1303.1	1312.2
80°	1661.9	1739.0	1312.2	1126.0	1273.6	1257.7
82.5°	1241.8	1534.6	1114.7	996.7	994.4	878.6
85°	690.2	1196.4	908.1	746.9	519.8	504.0
87.5°	193.0	665.2	635.7	422.3	288.3	299.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)