

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: P193968

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193968
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54944 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

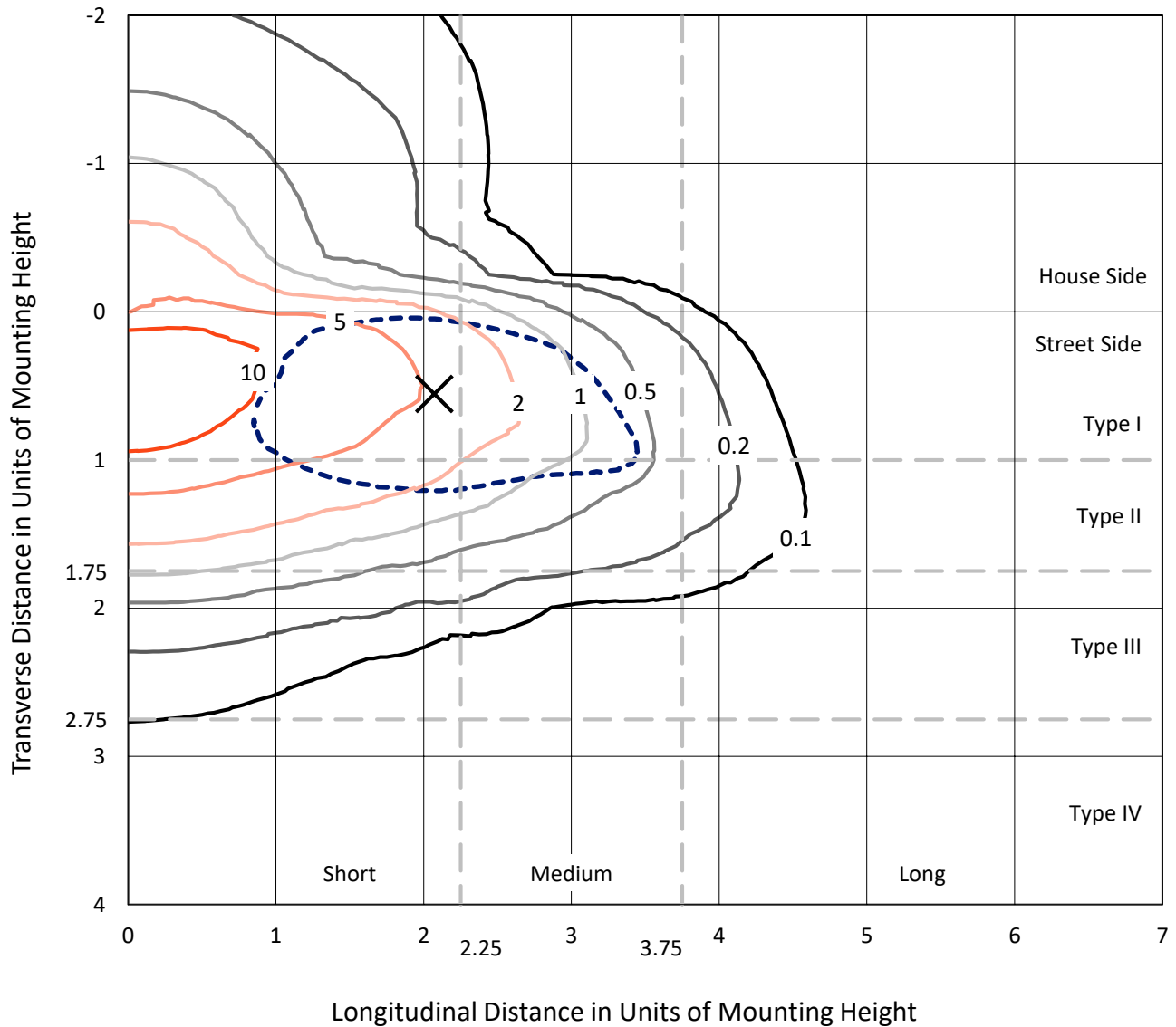


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

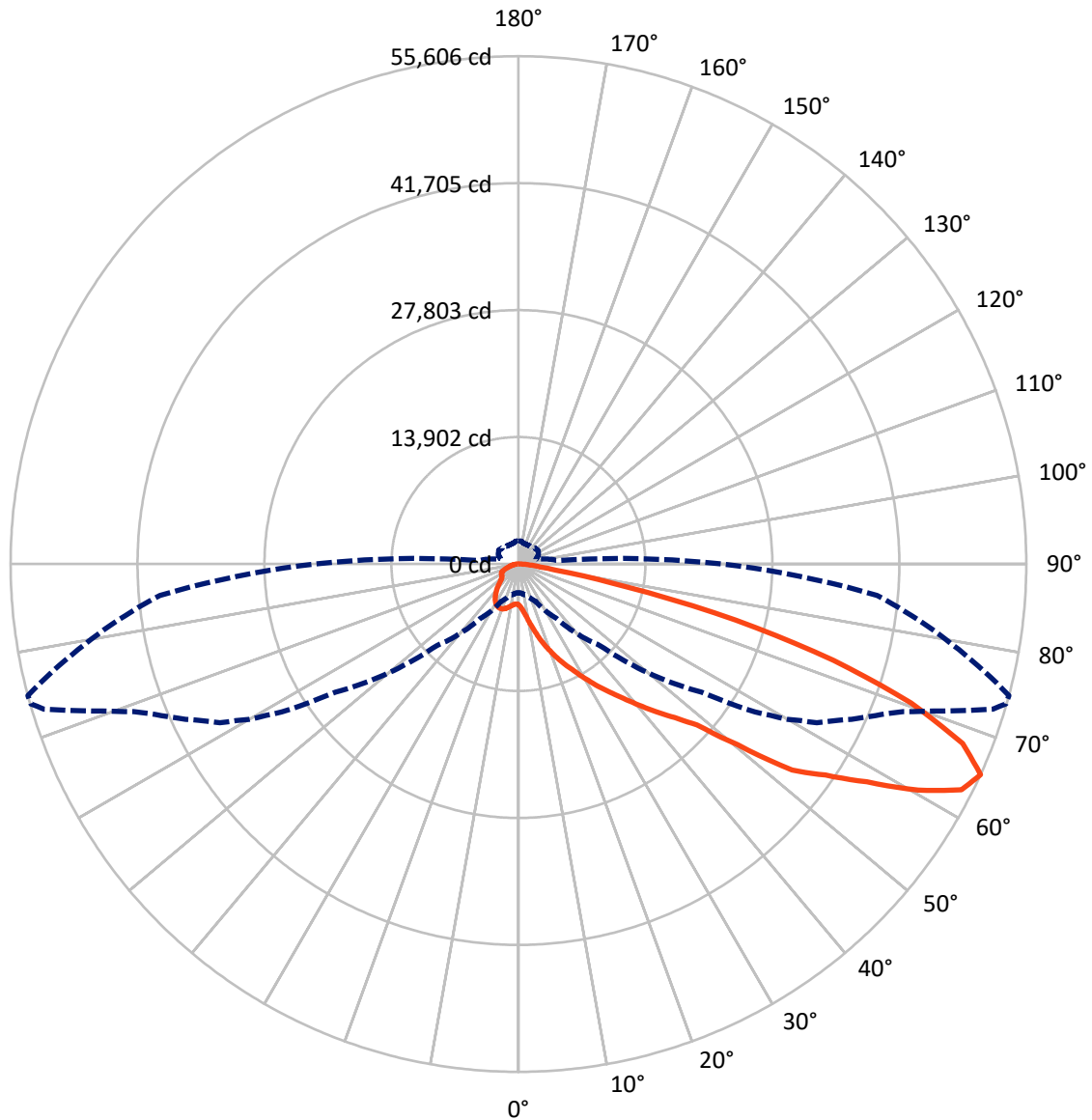


Based on 30 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8471.1	0.0	8471.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	46472.9	0.0	46472.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	54944.0	0.0	54944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.9	1.0
10°-20°	2156.5	3.9
20°-30°	4424.4	8.1
30°-40°	7443.8	13.5
40°-50°	10285.2	18.7
50°-60°	12839.1	23.4
60°-70°	11553.8	21.0
70°-80°	4843.2	8.8
80°-90°	846.1	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°	54944.0	100.0
0°-180°	54944.0	100.0

Coefficient of Utilization



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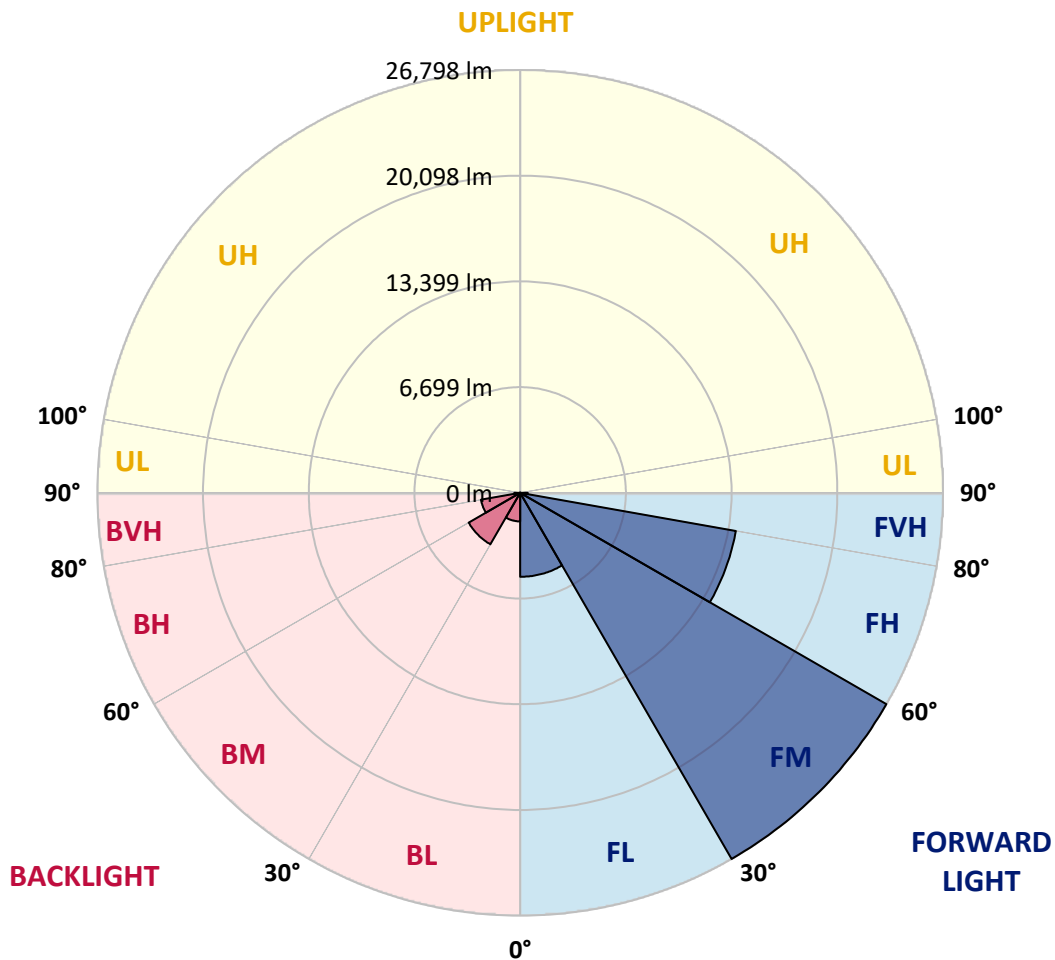
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5321.2	9.7			
FM (30°-60°)	26797.5	48.8			
FH (60°-80°)	13878.7	25.3			G5
FVH (80°-90°)	475.6	0.9			G3/500
BL (0°-30°)	1811.6	3.3	B3/2500		
BM (30°-60°)	3770.6	6.9	B3/5000		
BH (60°-80°)	2518.3	4.6	B4/5000		G4/5000
BVH (80°-90°)	370.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3
2.5°	5669.3	5606.9	5622.5	5518.5	5391.1	5224.6	5040.0	5037.4	5040.0	5021.8	4954.2
5°	7861.7	7786.2	7757.6	7523.6	7180.3	6691.4	6160.9	6103.6	6080.2	6020.4	5882.6
7.5°	9461.0	9419.4	9375.2	9198.4	8886.3	8340.2	7627.6	7505.4	7388.3	7359.7	7203.7
10°	10493.5	10483.1	10389.4	10342.6	10147.6	9674.3	8979.9	8862.9	8735.5	8691.2	8527.4
12.5°	11310.1	11307.5	11263.3	11276.3	11107.2	10763.9	10165.8	10059.2	9965.5	9830.3	9713.3
15°	11874.4	11877.0	11942.0	12014.8	11988.8	11757.4	11195.6	11148.8	11068.2	10974.6	10836.8
17.5°	12337.3	12350.3	12417.9	12550.6	12693.6	12675.4	12230.7	12191.7	12121.5	11994.0	11921.2
20°	13382.7	13432.2	13302.1	13302.1	13317.7	13388.0	13174.7	13143.5	13044.7	12977.1	12919.8
22.5°	15148.6	15205.8	14911.9	14612.8	14319.0	14105.7	13892.5	13931.5	13863.9	13817.1	13783.2
25°	17442.3	17486.5	17010.6	16506.1	15907.9	15127.8	14599.8	14576.4	14540.0	14511.4	14495.8
27.5°	19600.8	19619.0	19169.1	18430.5	17736.2	16615.3	15317.6	15289.0	15244.8	15190.2	15143.4
30°	21447.2	21442.0	20979.1	20274.4	19530.6	18290.1	16407.3	16318.8	16188.8	16040.6	15926.1
32.5°	23046.6	23038.8	22531.7	21800.9	21020.7	19949.3	17900.0	17718.0	17515.1	17226.5	17052.2
35°	24305.3	24300.1	23821.6	23059.6	22165.0	21512.3	19611.2	19387.6	19130.1	18742.6	18474.7
37.5°	24781.2	24781.2	24513.4	23993.2	23202.7	22755.4	21512.3	21241.8	20966.1	20526.6	20225.0
40°	24503.0	24508.2	24565.4	24469.2	24084.3	23741.0	23285.9	23124.6	22888.0	22492.7	22178.0
42.5°	23569.3	23598.0	23977.6	24443.2	24635.6	24581.0	24859.3	24786.4	24620.0	24315.7	24066.1
45°	22386.1	22474.5	22890.6	23769.6	24789.0	25306.6	26177.8	26185.6	26154.4	25990.5	25798.1
47.5°	20760.7	20885.5	21434.2	22622.7	24430.2	26011.3	27517.1	27587.3	27652.3	27545.7	27457.3
50°	18602.2	18750.4	19572.2	21148.2	23699.4	26742.1	30047.5	30364.7	30661.2	30624.8	30684.6
52.5°	16290.2	16464.5	17470.9	19226.3	22443.3	26911.1	31665.1	32182.6	32700.1	33124.0	33573.9
55°	14204.5	14110.9	15117.4	16966.4	20378.4	26149.2	33118.8	33742.9	34320.3	34840.4	35376.1
57.5°	11377.7	11531.1	12540.2	14368.4	17645.2	23998.4	34120.0	35032.8	35862.4	36723.2	37482.6
60°	8316.8	8470.2	9565.1	11421.9	14677.9	20737.3	33355.5	34739.0	36067.9	37386.4	38416.2
62.5°	5021.8	5136.2	6101.0	7869.5	11317.9	16870.2	29948.6	31763.9	33719.5	35295.5	36874.1
65°	3125.9	3191.0	3547.2	4519.9	7268.7	12594.8	24469.2	26448.2	28554.7	30554.6	32195.6
67.5°	2559.0	2582.4	2647.4	2855.5	3991.9	8212.7	18212.1	19964.9	21865.9	23800.8	25626.4
70°	2301.5	2285.9	2285.9	2298.9	2559.0	4415.8	11923.8	13065.5	14649.2	16331.8	18001.4
72.5°	2077.9	2062.3	2033.7	1994.7	2088.3	2694.2	6163.5	7024.3	8165.9	9661.3	11260.7
75°	1867.2	1846.4	1812.6	1763.2	1828.2	2033.7	2959.5	3321.0	3877.5	4673.3	5565.3
77.5°	1648.8	1622.8	1591.6	1555.2	1638.4	1581.2	1734.6	1864.6	2077.9	2332.7	2668.2
80°	1401.7	1378.3	1367.9	1349.7	1448.5	1204.1	1224.9	1305.5	1430.3	1568.2	1724.2
82.5°	1097.5	1097.5	1139.1	1146.9	1256.1	866.0	915.4	985.6	1050.6	1123.5	1196.3
85°	723.0	728.2	868.6	923.2	990.8	582.5	686.6	710.0	762.0	803.6	834.8
87.5°	226.3	244.5	530.5	587.7	569.5	330.3	421.3	431.7	468.1	496.7	522.7
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°	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3
2.5°	4954.2	4923.0	4894.4	4891.8	4870.9	4842.3	4852.7	4808.5	4811.1	4787.7	4761.7
5°	5825.4	5804.6	5700.5	5671.9	5593.9	5544.5	5536.7	5432.7	5419.7	5359.9	5294.8
7.5°	7078.9	7011.3	6865.6	6795.4	6662.8	6563.9	6517.1	6379.3	6311.7	6155.6	6085.4
10°	8392.2	8306.4	8126.9	8028.1	7900.7	7742.0	7656.2	7456.0	7377.9	7234.9	7063.3
12.5°	9609.3	9523.4	9338.8	9263.4	9094.3	8925.3	8831.7	8605.4	8504.0	8275.1	8139.9
15°	10735.3	10649.5	10488.3	10410.3	10241.2	10103.4	9978.5	9754.9	9635.3	9422.0	9245.2
17.5°	11827.6	11736.6	11596.1	11525.9	11362.1	11221.6	11086.4	10875.8	10753.5	10540.3	10381.6
20°	12841.8	12774.2	12672.8	12579.2	12415.3	12287.9	12126.7	11944.6	11767.8	11611.7	11460.9
22.5°	13726.0	13700.0	13590.8	13549.2	13408.8	13299.5	13159.1	12979.7	12852.2	12654.6	12514.1
25°	14488.0	14480.2	14428.2	14415.2	14316.4	14212.3	14181.1	14032.9	13915.9	13741.6	13596.0
27.5°	15143.4	15151.2	15138.2	15174.6	15148.6	15101.8	15104.4	15054.9	14987.3	14841.7	14714.3
30°	15871.5	15829.9	15853.3	15905.3	15920.9	15926.1	16012.0	16040.6	16035.4	15939.2	15876.7
32.5°	16901.4	16802.6	16711.5	16703.7	16755.7	16776.5	16922.2	16997.6	17062.6	17086.0	17096.4
35°	18214.7	18017.0	17827.2	17725.8	17637.4	17660.8	17764.8	17887.0	18030.0	18128.9	18245.9
37.5°	19868.7	19626.8	19291.3	19052.1	18992.3	18862.2	18929.9	19026.1	19166.5	19319.9	19522.8
40°	21873.7	21507.1	21130.0	20812.7	20641.1	20401.8	20399.2	20381.0	20466.8	20609.9	20895.9
42.5°	23803.4	23478.3	23077.8	22745.0	22521.3	22201.4	22136.4	21967.4	22006.4	22131.2	22409.5
45°	25610.8	25343.0	25098.5	24713.6	24523.8	24177.9	24068.7	23868.4	23756.6	23813.8	24092.1
47.5°	27361.0	27189.4	26934.5	26684.9	26539.2	26229.8	26089.3	25946.3	25803.3	25798.1	26089.3
50°	30773.0	30682.0	30380.4	30120.3	30190.5	29810.8	29834.2	29449.3	29623.6	29644.4	30255.5
52.5°	33979.6	34296.9	34520.5	34793.6	34970.4	35004.2	35121.3	35295.5	35506.2	35922.3	36489.2
55°	35815.6	36213.5	36445.0	36653.0	36996.3	37069.1	37264.2	37495.6	37680.3	38148.4	38629.5
57.5°	37997.5	38736.1	39095.0	39425.3	39888.2	40065.0	40390.1	40642.4	40881.6	41435.6	42018.1
60°	39342.1	40241.9	40972.6	41495.4	42075.3	42491.4	42982.9	43378.2	43939.9	44603.1	45471.7
62.5°	38273.2	39594.3	40564.3	41461.6	42249.5	43045.3	43750.1	44488.7	45341.7	46345.5	47692.6
65°	34016.0	35360.5	37022.3	37953.3	38996.2	40223.7	41295.1	42491.4	43653.9	45115.4	47107.5
67.5°	27384.4	28947.4	30814.7	31753.5	32952.4	34322.9	35524.4	36985.9	38343.4	40114.4	42577.2
70°	19738.6	21759.3	23330.1	24310.5	25709.7	27121.8	28281.7	29982.5	31105.9	32921.1	35467.1
72.5°	12498.5	14092.7	16017.2	17252.5	18495.6	19925.9	21111.8	22578.5	23626.6	25280.6	27587.3
75°	6720.0	7895.5	9585.9	10758.7	12090.2	13312.5	14701.3	15684.3	16459.3	17767.4	19639.8
77.5°	3149.3	3864.5	4720.1	5622.5	6524.9	7466.4	8381.8	9177.6	9510.4	10259.4	11364.7
80°	1911.4	2142.9	2392.6	2670.8	3047.9	3352.2	3755.3	4046.6	4067.4	4304.0	4642.1
82.5°	1276.9	1362.7	1438.1	1508.4	1604.6	1680.0	1765.8	1867.2	1908.8	1963.5	2072.7
85°	871.2	912.8	928.4	972.6	962.2	988.2	1022.0	1055.8	1074.1	1071.5	1120.9
87.5°	535.7	556.5	566.9	577.3	569.5	559.1	574.7	592.9	598.1	582.5	587.7
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°	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3
2.5°	4766.9	4743.5	4720.1	4704.5	4699.3	4561.5	4501.7	4462.7	4379.4	4311.8	4257.2
5°	5258.4	5209.0	5170.0	5123.2	5097.2	4748.7	4621.3	4532.9	4387.2	4301.4	4223.4
7.5°	6049.0	5911.2	5830.6	5739.6	5661.5	5032.2	4821.5	4683.7	4480.9	4366.4	4278.0
10°	6946.2	6803.2	6675.8	6535.3	6413.1	5409.3	5102.4	4889.2	4621.3	4473.1	4356.0
12.5°	7947.5	7807.0	7645.8	7466.4	7310.3	5887.8	5461.3	5157.0	4790.3	4592.7	4428.8
15°	9130.7	8883.7	8688.6	8480.6	8298.6	6459.9	5880.0	5458.7	4969.8	4701.9	4483.5
17.5°	10230.8	9970.7	9705.5	9523.4	9312.8	7102.3	6301.3	5765.6	5118.0	4772.1	4493.9
20°	11304.9	11021.4	10792.5	10548.1	10327.0	7768.0	6751.2	6036.0	5214.2	4774.7	4428.8
22.5°	12251.5	12074.6	11819.8	11554.5	11330.9	8433.8	7172.5	6264.9	5250.6	4714.9	4314.4
25°	13328.1	13140.9	12828.8	12605.2	12355.5	9112.5	7586.0	6441.7	5229.8	4603.1	4137.6
27.5°	14477.6	14269.6	13949.7	13715.6	13414.0	9817.3	7965.7	6569.1	5151.8	4421.0	3900.9
30°	15676.5	15486.6	15172.0	14935.3	14631.0	10563.7	8389.6	6655.0	4995.8	4168.8	3625.3
32.5°	16963.8	16805.2	16493.1	16246.0	15920.9	11372.5	8784.9	6681.0	4759.1	3869.7	3334.0
35°	18186.1	18076.9	17814.2	17582.7	17244.7	12137.1	9203.6	6668.0	4478.3	3542.0	3068.7
37.5°	19561.8	19496.8	19366.8	19072.9	18659.4	13174.7	9705.5	6613.4	4135.0	3217.0	2865.9
40°	21028.5	21033.8	20893.3	20693.1	20308.2	14433.4	10303.6	6506.7	3760.5	2930.9	2681.2
42.5°	22581.1	22661.7	22594.1	22451.1	22081.8	15702.5	11018.8	6376.7	3396.4	2652.6	2499.2
45°	24359.9	24458.8	24562.8	24352.1	23993.2	17377.3	11960.2	6207.7	3003.7	2421.2	2374.4
47.5°	26411.8	26567.9	26661.5	26664.1	26305.2	19452.6	13489.4	6106.2	2655.2	2265.1	2314.5
50°	30741.8	30791.2	31012.3	31397.2	31121.5	24255.9	16160.2	6043.8	2418.6	2168.9	2270.3
52.5°	36980.7	37524.2	37906.5	37880.5	37506.0	27306.4	17632.2	5721.3	2278.1	2132.5	2249.5
55°	39521.5	40200.3	40907.6	41094.9	40803.6	29909.6	19023.5	5398.9	2210.5	2158.5	2257.3
57.5°	42907.5	44051.8	45021.8	45430.1	45008.8	33241.0	20854.3	5229.8	2189.7	2228.7	2306.7
60°	46863.0	48277.8	49552.1	50285.4	50285.4	37069.1	22752.8	5159.6	2161.1	2332.7	2390.0
62.5°	49403.8	51481.7	53406.2	54480.2	54449.0	39734.8	23595.4	4920.4	2096.1	2405.6	2504.4
65°	49414.2	51884.8	54337.2	55543.9	55606.3	39407.1	22204.0	4345.6	1976.5	2416.0	2618.8
67.5°	45294.9	47929.3	50787.4	52137.1	52449.1	36275.9	19221.1	3573.2	1781.4	2311.9	2660.4
70°	38255.0	40827.0	43744.9	45071.2	45625.1	30923.9	15481.4	2754.0	1531.8	2083.1	2574.6
72.5°	30138.5	32661.1	34692.2	35662.2	36093.9	23637.0	11273.7	2080.5	1256.1	1755.4	2343.2
75°	21338.0	23231.3	24310.5	24526.4	24594.0	14248.8	6850.0	1547.4	1035.0	1365.3	1979.1
77.5°	12043.4	12854.8	12766.4	12862.6	12061.6	5500.3	2982.9	1107.9	853.0	1037.6	1534.4
80°	4701.9	4847.5	4553.7	4462.7	4093.4	2046.7	1315.9	772.4	681.4	785.4	1074.1
82.5°	2072.7	2140.3	2077.9	2093.5	2002.5	1055.8	788.0	559.1	520.1	574.7	712.6
85°	1141.7	1162.5	1157.3	1191.1	1141.7	421.3	374.5	343.3	364.1	390.1	457.7
87.5°	556.5	561.7	543.5	572.1	553.9	213.3	184.6	195.0	213.3	218.5	218.5
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°	4465.3	4465.3	4465.3	4465.3	4465.3	4465.3
2.5°	4218.2	4197.4	4200.0	4194.8	4184.4	4184.4
5°	4181.8	4161.0	4161.0	4155.8	4142.8	4145.4
7.5°	4218.2	4184.4	4171.4	4153.2	4135.0	4135.0
10°	4259.8	4200.0	4163.6	4132.4	4109.0	4109.0
12.5°	4291.0	4197.4	4137.6	4096.0	4072.6	4072.6
15°	4301.4	4179.2	4096.0	4046.6	4025.7	4023.1
17.5°	4267.6	4109.0	4007.5	3950.3	3924.3	3916.5
20°	4163.6	3981.5	3859.3	3794.3	3757.9	3744.9
22.5°	4007.5	3799.5	3656.5	3588.8	3542.0	3534.2
25°	3789.1	3565.4	3425.0	3360.0	3334.0	3326.2
27.5°	3534.2	3326.2	3206.6	3164.9	3141.5	3138.9
30°	3292.4	3115.5	3027.1	2995.9	2967.3	2962.1
32.5°	3066.1	2954.3	2920.5	2876.3	2808.7	2800.9
35°	2904.9	2894.5	2871.1	2772.3	2689.0	2665.6
37.5°	2806.1	2902.3	2782.7	2587.6	2527.8	2522.6
40°	2748.8	2821.7	2616.2	2548.6	2553.8	2548.6
42.5°	2618.8	2694.2	2621.4	2590.2	2611.0	2616.2
45°	2488.8	2572.0	2660.4	2639.6	2689.0	2689.0
47.5°	2416.0	2540.8	2657.8	2657.8	2730.6	2756.6
50°	2332.7	2514.8	2616.2	2652.6	2709.8	2689.0
52.5°	2327.5	2470.6	2556.4	2621.4	2647.4	2624.0
55°	2335.3	2434.2	2496.6	2569.4	2600.6	2603.2
57.5°	2345.8	2413.4	2455.0	2488.8	2582.4	2582.4
60°	2371.8	2395.2	2418.6	2436.8	2559.0	2561.6
62.5°	2413.4	2377.0	2371.8	2390.0	2546.0	2535.6
65°	2478.4	2351.0	2311.9	2330.1	2533.0	2501.8
67.5°	2566.8	2311.9	2236.5	2249.5	2522.6	2455.0
70°	2647.4	2249.5	2142.9	2129.9	2423.8	2304.1
72.5°	2655.2	2176.7	2012.9	1973.9	2106.5	1992.1
75°	2525.2	2127.3	1869.8	1755.4	1739.8	1724.2
77.5°	2275.5	2098.7	1703.4	1524.0	1492.8	1503.2
80°	1903.6	1992.1	1503.2	1289.9	1458.9	1440.7
82.5°	1422.5	1758.0	1276.9	1141.7	1139.1	1006.4
85°	790.6	1370.5	1040.2	855.6	595.5	577.3
87.5°	221.1	762.0	728.2	483.7	330.3	343.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)