

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: P193938

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193938
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33000 lumens
Efficiency: N/A
Efficacy: 102.2 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 - G4

Input Watts (W): 323
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

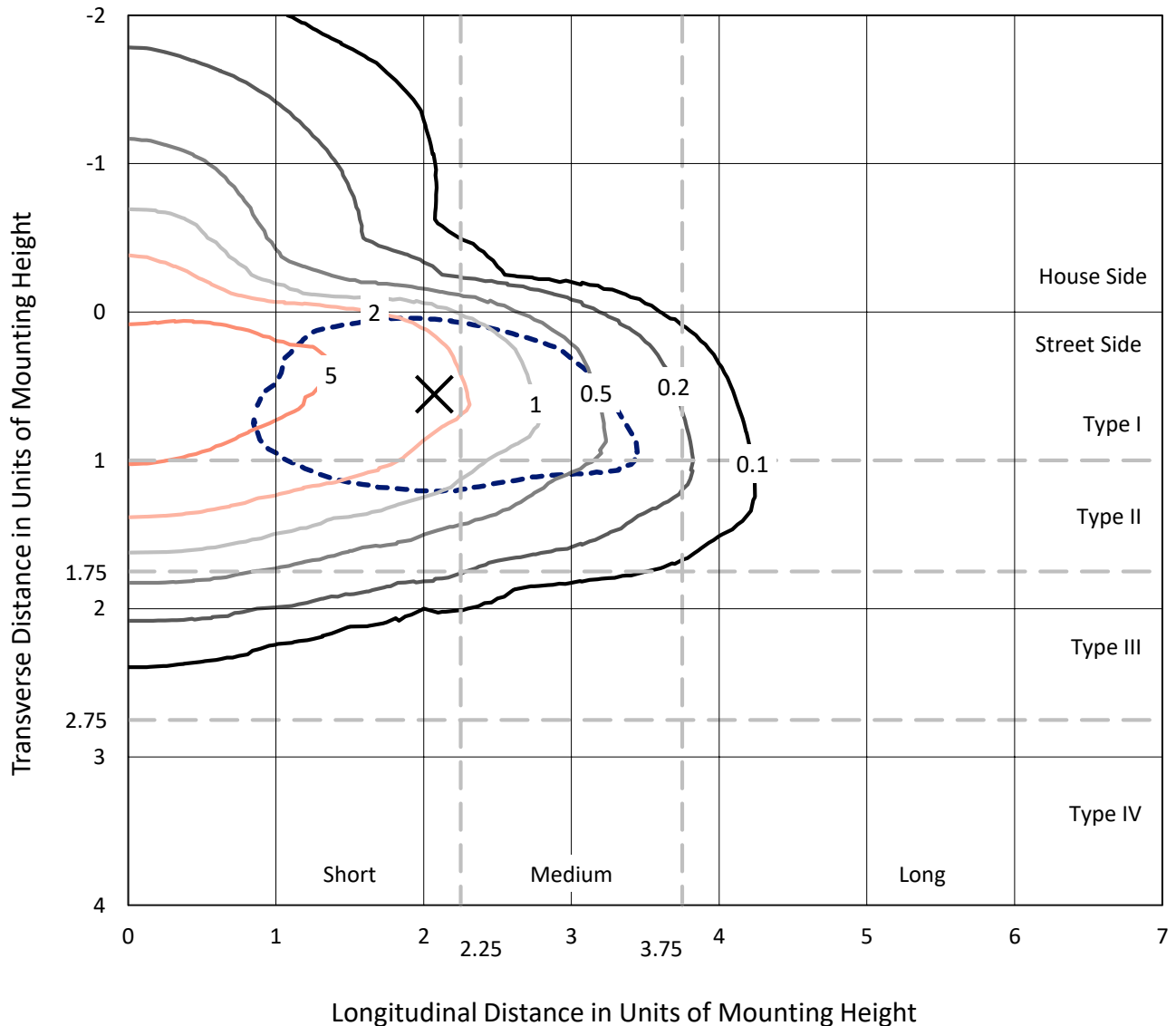


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

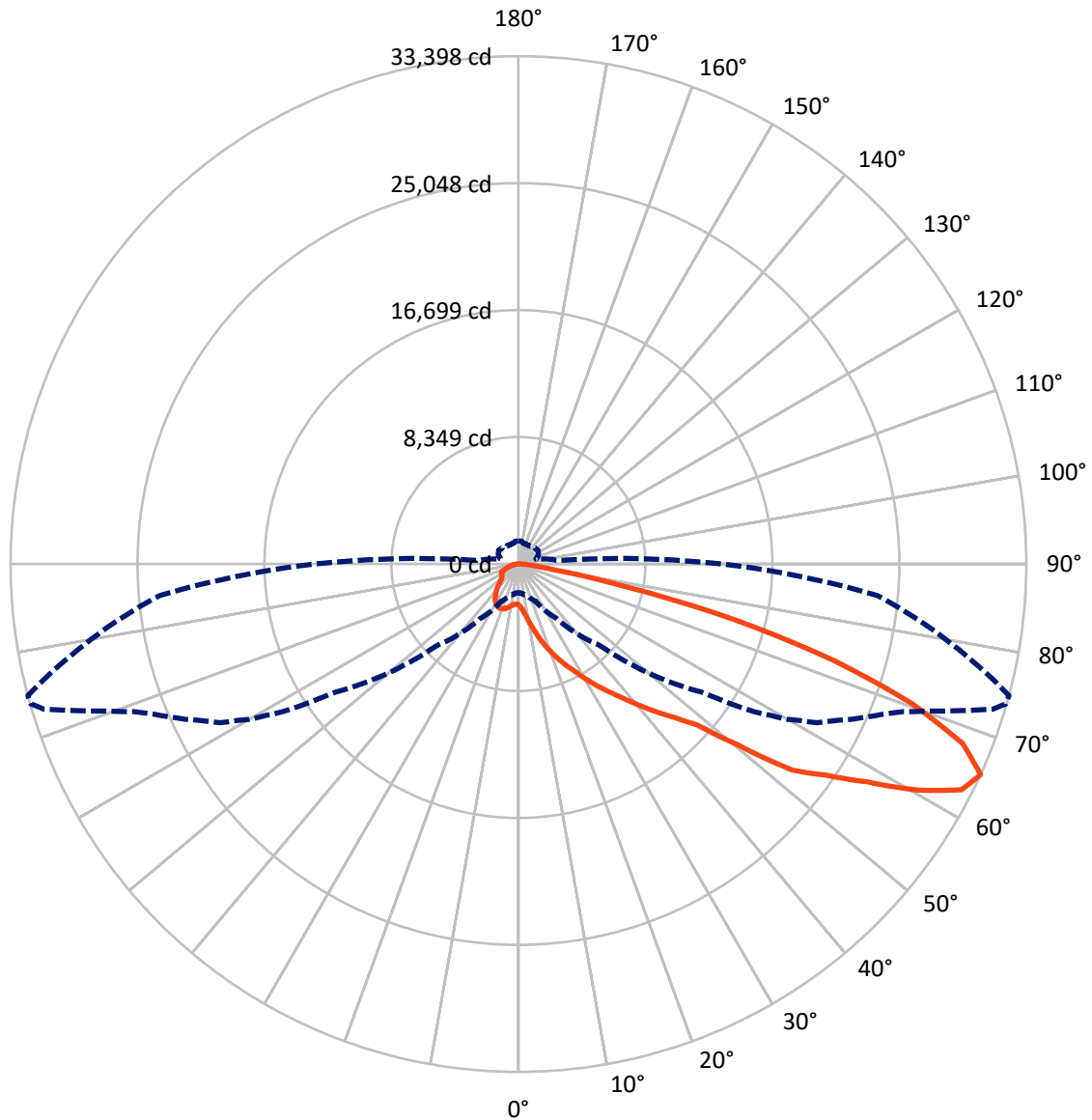


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Full Cutoff

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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	5087.8	0.0	5087.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	27912.2	0.0	27912.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	33000.0	0.0	33000.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.5	1.0
10°-20°	1295.2	3.9
20°-30°	2657.3	8.1
30°-40°	4470.8	13.5
40°-50°	6177.4	18.7
50°-60°	7711.3	23.4
60°-70°	6939.3	21.0
70°-80°	2908.9	8.8
80°-90°	508.2	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°	33000.0	100.0
0°-180°	33000.0	100.0



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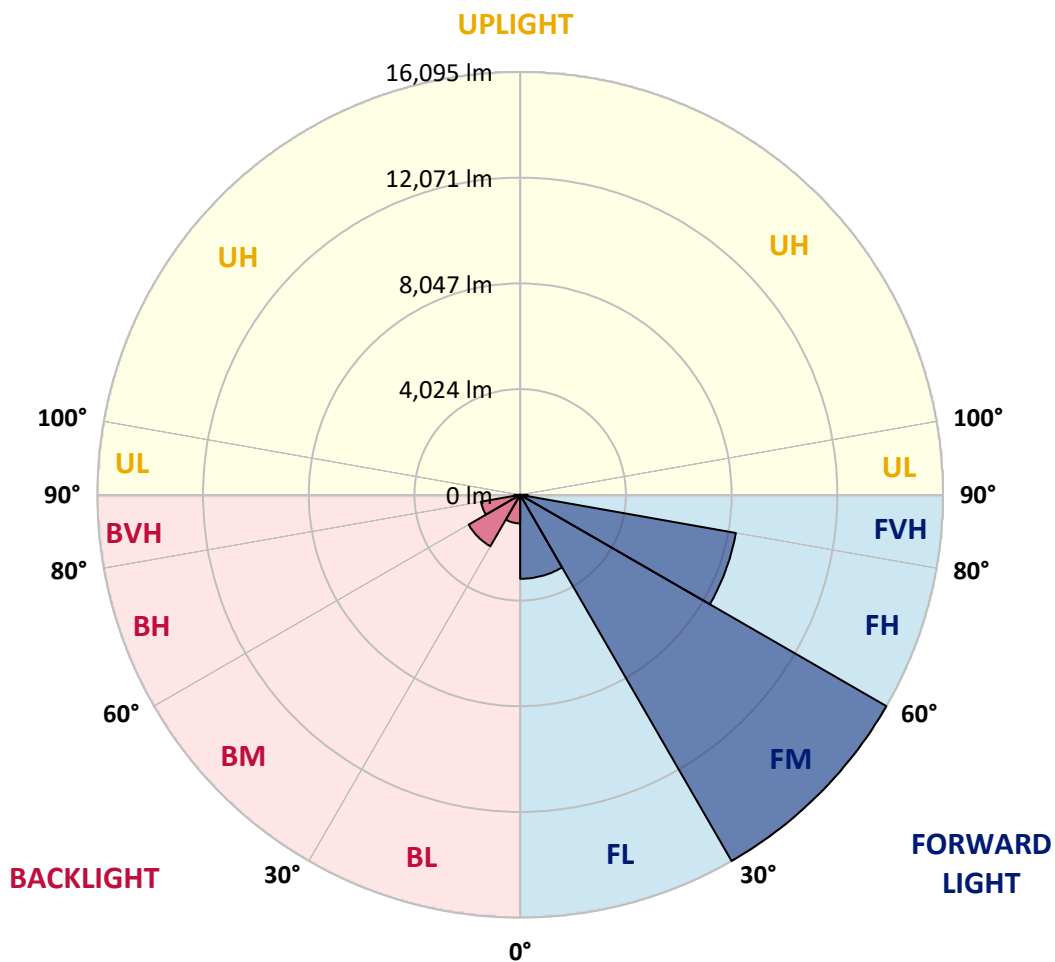
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3196.0	9.7			
FM	(30°-60°)	16094.9	48.8			
FH	(60°-80°)	8335.7	25.3			G4/12000
FVH	(80°-90°)	285.6	0.9			G3/500
BL	(0°-30°)	1088.1	3.3	B3/2500		
BM	(30°-60°)	2264.7	6.9	B2/2500		
BH	(60°-80°)	1512.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	222.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	3405.1	3367.6	3377.0	3314.5	3237.9	3138.0	3027.1	3025.5	3027.1	3016.1	2975.5
5°	4721.8	4676.5	4659.3	4518.7	4312.6	4018.9	3700.3	3665.9	3651.9	3615.9	3533.1
7.5°	5682.4	5657.4	5630.9	5524.6	5337.2	5009.2	4581.2	4507.8	4437.5	4420.3	4326.6
10°	6302.5	6296.3	6240.0	6211.9	6094.8	5810.5	5393.4	5323.2	5246.6	5220.1	5121.7
12.5°	6793.0	6791.4	6764.8	6772.6	6671.1	6464.9	6105.7	6041.7	5985.4	5904.2	5833.9
15°	7131.9	7133.5	7172.5	7216.2	7200.6	7061.6	6724.2	6696.1	6647.7	6591.5	6508.7
17.5°	7409.9	7417.7	7458.3	7538.0	7623.9	7613.0	7345.9	7322.5	7280.3	7203.7	7160.0
20°	8037.8	8067.5	7989.4	7989.4	7998.8	8041.0	7912.9	7894.1	7834.8	7794.2	7759.8
22.5°	9098.4	9132.8	8956.3	8776.6	8600.1	8472.1	8344.0	8367.4	8326.8	8298.7	8278.4
25°	10476.0	10502.6	10216.8	9913.7	9554.5	9085.9	8768.8	8754.8	8732.9	8715.7	8706.4
27.5°	11772.5	11783.4	11513.2	11069.6	10652.6	9979.3	9199.9	9182.7	9156.2	9123.4	9095.3
30°	12881.5	12878.3	12600.3	12177.0	11730.3	10985.2	9854.4	9801.3	9723.2	9634.2	9565.4
32.5°	13842.1	13837.4	13532.8	13093.9	12625.3	11981.8	10751.0	10641.6	10519.8	10346.4	10241.8
35°	14598.1	14594.9	14307.5	13849.9	13312.6	12920.5	11778.7	11644.4	11489.8	11257.0	11096.1
37.5°	14883.9	14883.9	14723.0	14410.6	13935.8	13667.1	12920.5	12758.1	12592.5	12328.5	12147.3
40°	14716.8	14719.9	14754.3	14696.5	14465.3	14259.1	13985.8	13888.9	13746.8	13509.4	13320.4
42.5°	14156.0	14173.2	14401.2	14680.8	14796.4	14763.6	14930.8	14887.0	14787.1	14604.3	14454.4
45°	13445.3	13498.4	13748.4	14276.3	14888.6	15199.4	15722.7	15727.4	15708.6	15610.2	15494.6
47.5°	12469.1	12544.1	12873.7	13587.5	14673.0	15622.7	16527.1	16569.2	16608.3	16544.3	16491.1
50°	11172.7	11261.7	11755.3	12701.8	14234.1	16061.6	18046.9	18237.4	18415.5	18393.6	18429.5
52.5°	9784.1	9888.8	10493.2	11547.6	13479.7	16163.1	19018.4	19329.2	19640.1	19894.7	20164.9
55°	8531.4	8475.2	9079.7	10190.2	12239.5	15705.5	19891.5	20266.4	20613.2	20925.5	21247.3
57.5°	6833.6	6925.7	7531.8	8629.8	10597.9	14413.7	20492.9	21041.1	21539.4	22056.4	22512.5
60°	4995.1	5087.3	5744.9	6860.1	8815.7	12455.1	20033.7	20864.6	21662.8	22454.7	23073.2
62.5°	3016.1	3084.9	3664.4	4726.5	6797.6	10132.4	17987.5	19077.8	20252.3	21198.9	22147.0
65°	1877.5	1916.5	2130.5	2714.7	4365.7	7564.6	14696.5	15885.1	17150.3	18351.4	19337.0
67.5°	1537.0	1551.0	1590.1	1715.0	2397.6	4932.7	10938.4	11991.1	13132.9	14295.0	15391.5
70°	1382.3	1373.0	1373.0	1380.8	1537.0	2652.2	7161.6	7847.3	8798.5	9809.1	10811.9
72.5°	1248.0	1238.6	1221.5	1198.0	1254.3	1618.2	3701.8	4218.8	4904.5	5802.7	6763.3
75°	1121.5	1109.0	1088.7	1059.0	1098.1	1221.5	1777.5	1994.6	2328.9	2806.8	3342.6
77.5°	990.3	974.7	955.9	934.1	984.0	949.7	1041.8	1119.9	1248.0	1401.1	1602.6
80°	841.9	827.8	821.6	810.7	870.0	723.2	735.7	784.1	859.1	941.9	1035.6
82.5°	659.1	659.1	684.1	688.8	754.4	520.1	549.8	592.0	631.0	674.8	718.5
85°	434.2	437.3	521.7	554.5	595.1	349.9	412.4	426.4	457.7	482.6	501.4
87.5°	135.9	146.8	318.6	353.0	342.1	198.4	253.0	259.3	281.2	298.3	314.0
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°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2975.5	2956.8	2939.6	2938.0	2925.5	2908.4	2914.6	2888.1	2889.6	2875.6	2859.9
5°	3498.8	3486.3	3423.8	3406.6	3359.8	3330.1	3325.4	3262.9	3255.1	3219.2	3180.1
7.5°	4251.6	4211.0	4123.6	4081.4	4001.7	3942.4	3914.3	3831.5	3790.9	3697.2	3655.0
10°	5040.4	4988.9	4881.1	4821.8	4745.2	4649.9	4598.4	4478.1	4431.3	4345.4	4242.3
12.5°	5771.4	5719.9	5609.0	5563.7	5462.2	5360.6	5304.4	5168.5	5107.6	4970.1	4888.9
15°	6447.8	6396.2	6299.4	6252.5	6151.0	6068.2	5993.2	5858.9	5787.1	5659.0	5552.8
17.5°	7103.8	7049.1	6964.8	6922.6	6824.2	6739.8	6658.6	6532.1	6458.7	6330.6	6235.3
20°	7712.9	7672.3	7611.4	7555.2	7456.8	7380.2	7283.4	7174.1	7067.9	6974.1	6883.5
22.5°	8244.0	8228.4	8162.8	8137.8	8053.5	7987.9	7903.5	7795.7	7719.2	7600.5	7516.1
25°	8701.7	8697.0	8665.7	8657.9	8598.6	8536.1	8517.4	8428.3	8358.0	8253.4	8165.9
27.5°	9095.3	9100.0	9092.2	9114.0	9098.4	9070.3	9071.8	9042.2	9001.6	8914.1	8837.6
30°	9532.6	9507.6	9521.7	9552.9	9562.3	9565.4	9617.0	9634.2	9631.0	9573.2	9535.8
32.5°	10151.2	10091.8	10037.1	10032.5	10063.7	10076.2	10163.7	10209.0	10248.0	10262.1	10268.3
35°	10940.0	10821.2	10707.2	10646.3	10593.2	10607.3	10669.7	10743.1	10829.1	10888.4	10958.7
37.5°	11933.4	11788.1	11586.6	11442.9	11407.0	11328.9	11369.5	11427.3	11511.6	11603.8	11725.6
40°	13137.6	12917.4	12690.9	12500.3	12397.3	12253.6	12252.0	12241.1	12292.6	12378.5	12550.3
42.5°	14296.6	14101.4	13860.8	13660.9	13526.6	13334.4	13295.4	13193.9	13217.3	13292.3	13459.4
45°	15382.2	15221.3	15074.5	14843.3	14729.3	14521.5	14455.9	14335.6	14268.5	14302.8	14470.0
47.5°	16433.4	16330.3	16177.2	16027.2	15939.8	15753.9	15669.6	15583.7	15497.7	15494.6	15669.6
50°	18482.6	18428.0	18246.8	18090.6	18132.8	17904.7	17918.8	17687.6	17792.3	17804.8	18171.8
52.5°	20408.5	20599.1	20733.4	20897.4	21003.6	21023.9	21094.2	21198.9	21325.4	21575.3	21915.8
55°	21511.3	21750.3	21889.3	22014.2	22220.4	22264.1	22381.3	22520.3	22631.2	22912.4	23201.3
57.5°	22821.8	23265.4	23480.9	23679.3	23957.3	24063.5	24258.8	24410.3	24554.0	24886.7	25236.5
60°	23629.3	24169.7	24608.6	24922.6	25270.9	25520.8	25816.0	26053.5	26390.8	26789.1	27310.8
62.5°	22987.3	23780.8	24363.4	24902.3	25375.6	25853.5	26276.8	26720.4	27232.7	27835.6	28644.7
65°	20430.4	21237.9	22236.0	22795.2	23421.6	24158.8	24802.3	25520.8	26219.0	27096.8	28293.3
67.5°	16447.4	17386.2	18507.6	19071.5	19791.6	20614.7	21336.3	22214.2	23029.5	24093.2	25572.4
70°	11855.3	13068.9	14012.3	14601.2	15441.5	16289.7	16986.3	18007.8	18682.6	19772.8	21302.0
72.5°	7506.8	8464.2	9620.1	10362.0	11108.6	11967.7	12680.0	13560.9	14190.4	15183.8	16569.2
75°	4036.1	4742.1	5757.4	6461.8	7261.5	7995.7	8829.7	9420.2	9885.6	10671.3	11795.9
77.5°	1891.5	2321.1	2835.0	3377.0	3919.0	4484.4	5034.2	5512.1	5712.1	6161.9	6825.8
80°	1148.0	1287.1	1437.0	1604.1	1830.6	2013.4	2255.5	2430.4	2442.9	2585.0	2788.1
82.5°	766.9	818.5	863.8	905.9	963.7	1009.0	1060.6	1121.5	1146.5	1179.3	1244.9
85°	523.3	548.2	557.6	584.2	577.9	593.5	613.8	634.2	645.1	643.5	673.2
87.5°	321.8	334.3	340.5	346.8	342.1	335.8	345.2	356.1	359.3	349.9	353.0
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°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2863.1	2849.0	2835.0	2825.6	2822.5	2739.7	2703.7	2680.3	2630.3	2589.7	2556.9
5°	3158.3	3128.6	3105.2	3077.1	3061.4	2852.1	2775.6	2722.5	2635.0	2583.5	2536.6
7.5°	3633.1	3550.3	3501.9	3447.2	3400.4	3022.4	2895.9	2813.1	2691.3	2622.5	2569.4
10°	4172.0	4086.1	4009.5	3925.2	3851.8	3248.9	3064.6	2936.5	2775.6	2686.6	2616.3
12.5°	4773.3	4689.0	4592.2	4484.4	4390.7	3536.3	3280.1	3097.4	2877.1	2758.4	2660.0
15°	5484.0	5335.6	5218.5	5093.5	4984.2	3879.9	3531.6	3278.5	2984.9	2824.0	2692.8
17.5°	6144.7	5988.5	5829.2	5719.9	5593.4	4265.7	3784.6	3462.9	3073.9	2866.2	2699.1
20°	6789.8	6619.6	6482.1	6335.3	6202.5	4665.6	4054.8	3625.3	3131.7	2867.8	2660.0
22.5°	7358.4	7252.2	7099.1	6939.8	6805.4	5065.4	4307.9	3762.8	3153.6	2831.8	2591.3
25°	8005.0	7892.6	7705.1	7570.8	7420.9	5473.1	4556.2	3869.0	3141.1	2764.7	2485.1
27.5°	8695.4	8570.5	8378.3	8237.8	8056.6	5896.4	4784.3	3945.5	3094.2	2655.3	2342.9
30°	9415.5	9301.5	9112.5	8970.3	8787.6	6344.7	5038.9	3997.0	3000.5	2503.8	2177.4
32.5°	10188.6	10093.4	9905.9	9757.5	9562.3	6830.4	5276.3	4012.7	2858.4	2324.2	2002.4
35°	10922.8	10857.2	10699.4	10560.4	10357.3	7289.7	5527.8	4004.9	2689.7	2127.4	1843.1
37.5°	11749.0	11710.0	11631.9	11455.4	11207.0	7912.9	5829.2	3972.1	2483.5	1932.1	1721.3
40°	12630.0	12633.1	12548.8	12428.5	12197.3	8668.9	6188.5	3908.0	2258.6	1760.3	1610.4
42.5°	13562.5	13610.9	13570.3	13484.4	13262.6	9431.1	6618.0	3829.9	2039.9	1593.2	1501.0
45°	14630.9	14690.2	14752.7	14626.2	14410.6	10437.0	7183.4	3728.4	1804.1	1454.2	1426.1
47.5°	15863.2	15957.0	16013.2	16014.8	15799.2	11683.4	8101.9	3667.5	1594.8	1360.5	1390.1
50°	18463.9	18493.6	18626.3	18857.5	18691.9	14568.4	9706.0	3630.0	1452.6	1302.7	1363.6
52.5°	22211.0	22537.5	22767.1	22751.5	22526.6	16400.6	10590.1	3436.3	1368.3	1280.8	1351.1
55°	23737.1	24144.7	24569.6	24682.1	24507.1	17964.1	11425.7	3242.6	1327.7	1296.4	1355.8
57.5°	25770.7	26458.0	27040.6	27285.8	27032.8	19964.9	12525.3	3141.1	1315.2	1338.6	1385.5
60°	28146.5	28996.2	29761.5	30202.0	30202.0	22264.1	13665.6	3098.9	1298.0	1401.1	1435.4
62.5°	29672.5	30920.5	32076.4	32721.5	32702.7	23865.2	14171.6	2955.2	1258.9	1444.8	1504.2
65°	29678.8	31162.6	32635.5	33360.3	33397.8	23668.3	13336.0	2610.0	1187.1	1451.1	1572.9
67.5°	27204.6	28786.9	30503.5	31314.1	31501.6	21787.7	11544.4	2146.1	1069.9	1388.6	1597.9
70°	22976.4	24521.2	26273.7	27070.3	27403.0	18573.2	9298.3	1654.1	920.0	1251.1	1546.3
72.5°	18101.5	19616.6	20836.5	21419.1	21678.4	14196.6	6771.1	1249.6	754.4	1054.3	1407.3
75°	12815.9	13953.0	14601.2	14730.8	14771.4	8558.0	4114.2	929.4	621.7	820.0	1188.6
77.5°	7233.4	7720.8	7667.6	7725.4	7244.4	3303.5	1791.6	665.4	512.3	623.2	921.6
80°	2824.0	2911.5	2735.0	2680.3	2458.5	1229.3	790.4	463.9	409.2	471.7	645.1
82.5°	1244.9	1285.5	1248.0	1257.4	1202.7	634.2	473.3	335.8	312.4	345.2	428.0
85°	685.7	698.2	695.1	715.4	685.7	253.0	224.9	206.2	218.7	234.3	274.9
87.5°	334.3	337.4	326.4	343.6	332.7	128.1	110.9	117.1	128.1	131.2	131.2
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):

	135°	145°	155°	165°	175°	180°
0°	2681.9	2681.9	2681.9	2681.9	2681.9	2681.9
2.5°	2533.5	2521.0	2522.6	2519.4	2513.2	2513.2
5°	2511.6	2499.1	2499.1	2496.0	2488.2	2489.8
7.5°	2533.5	2513.2	2505.4	2494.4	2483.5	2483.5
10°	2558.5	2522.6	2500.7	2482.0	2467.9	2467.9
12.5°	2577.2	2521.0	2485.1	2460.1	2446.0	2446.0
15°	2583.5	2510.1	2460.1	2430.4	2417.9	2416.3
17.5°	2563.2	2467.9	2407.0	2372.6	2357.0	2352.3
20°	2500.7	2391.4	2317.9	2278.9	2257.0	2249.2
22.5°	2407.0	2282.0	2196.1	2155.5	2127.4	2122.7
25°	2275.8	2141.4	2057.1	2018.0	2002.4	1997.7
27.5°	2122.7	1997.7	1925.9	1900.9	1886.8	1885.3
30°	1977.4	1871.2	1818.1	1799.4	1782.2	1779.1
32.5°	1841.5	1774.4	1754.1	1727.5	1686.9	1682.2
35°	1744.7	1738.5	1724.4	1665.0	1615.1	1601.0
37.5°	1685.4	1743.1	1671.3	1554.1	1518.2	1515.1
40°	1651.0	1694.7	1571.3	1530.7	1533.8	1530.7
42.5°	1572.9	1618.2	1574.5	1555.7	1568.2	1571.3
45°	1494.8	1544.8	1597.9	1585.4	1615.1	1615.1
47.5°	1451.1	1526.0	1596.3	1596.3	1640.1	1655.7
50°	1401.1	1510.4	1571.3	1593.2	1627.6	1615.1
52.5°	1398.0	1483.9	1535.4	1574.5	1590.1	1576.0
55°	1402.6	1462.0	1499.5	1543.2	1562.0	1563.5
57.5°	1408.9	1449.5	1474.5	1494.8	1551.0	1551.0
60°	1424.5	1438.6	1452.6	1463.6	1537.0	1538.5
62.5°	1449.5	1427.6	1424.5	1435.4	1529.2	1522.9
65°	1488.5	1412.0	1388.6	1399.5	1521.3	1502.6
67.5°	1541.7	1388.6	1343.3	1351.1	1515.1	1474.5
70°	1590.1	1351.1	1287.1	1279.2	1455.7	1383.9
72.5°	1594.8	1307.4	1209.0	1185.5	1265.2	1196.5
75°	1516.7	1277.7	1123.0	1054.3	1044.9	1035.6
77.5°	1366.7	1260.5	1023.1	915.3	896.6	902.8
80°	1143.4	1196.5	902.8	774.7	876.3	865.3
82.5°	854.4	1055.9	766.9	685.7	684.1	604.5
85°	474.8	823.2	624.8	513.9	357.7	346.8
87.5°	132.8	457.7	437.3	290.5	198.4	206.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)