

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: P269743

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269743
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 43086.1 lumens
Efficiency: N/A
Efficacy: 102.8 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): 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

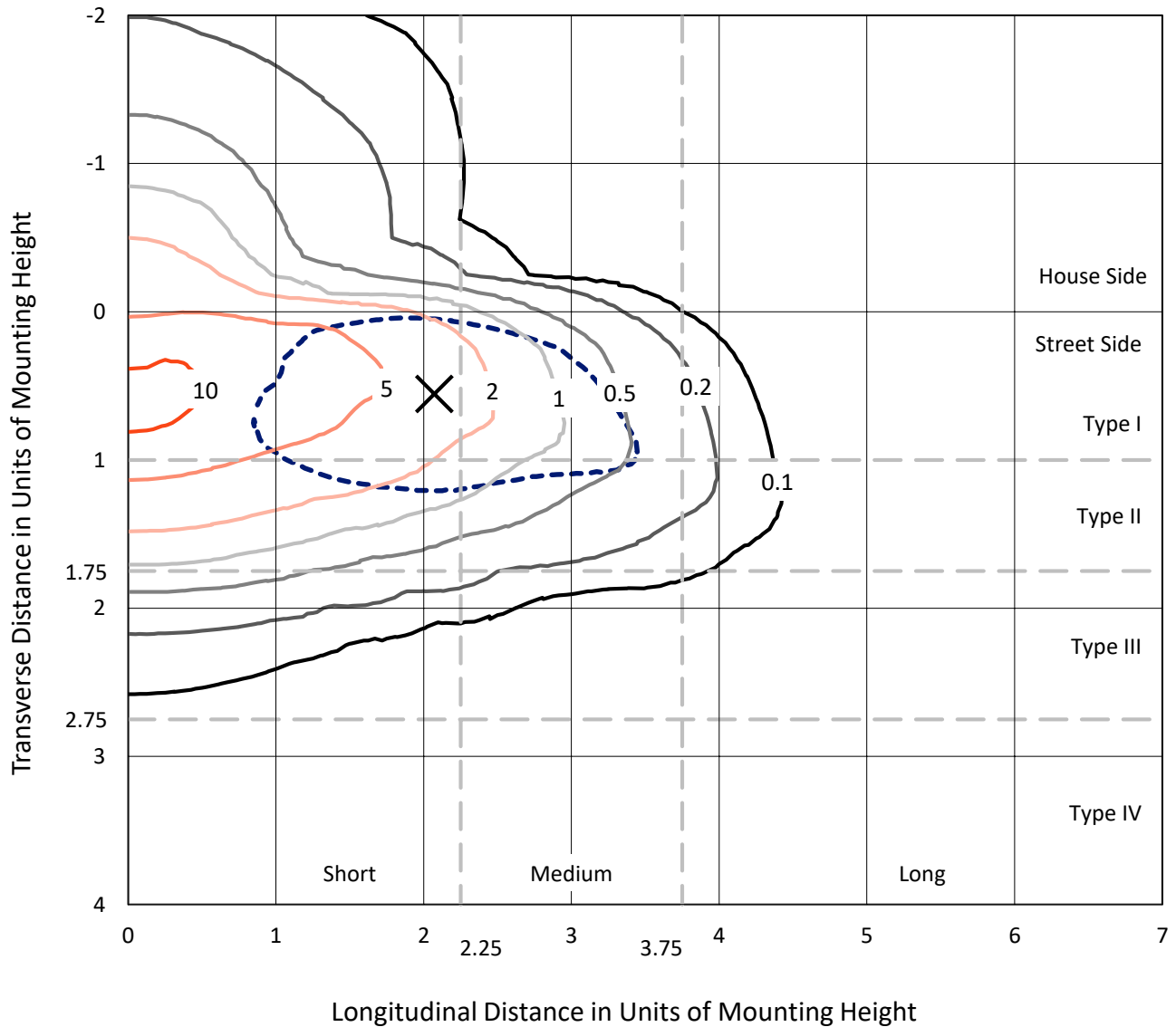


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

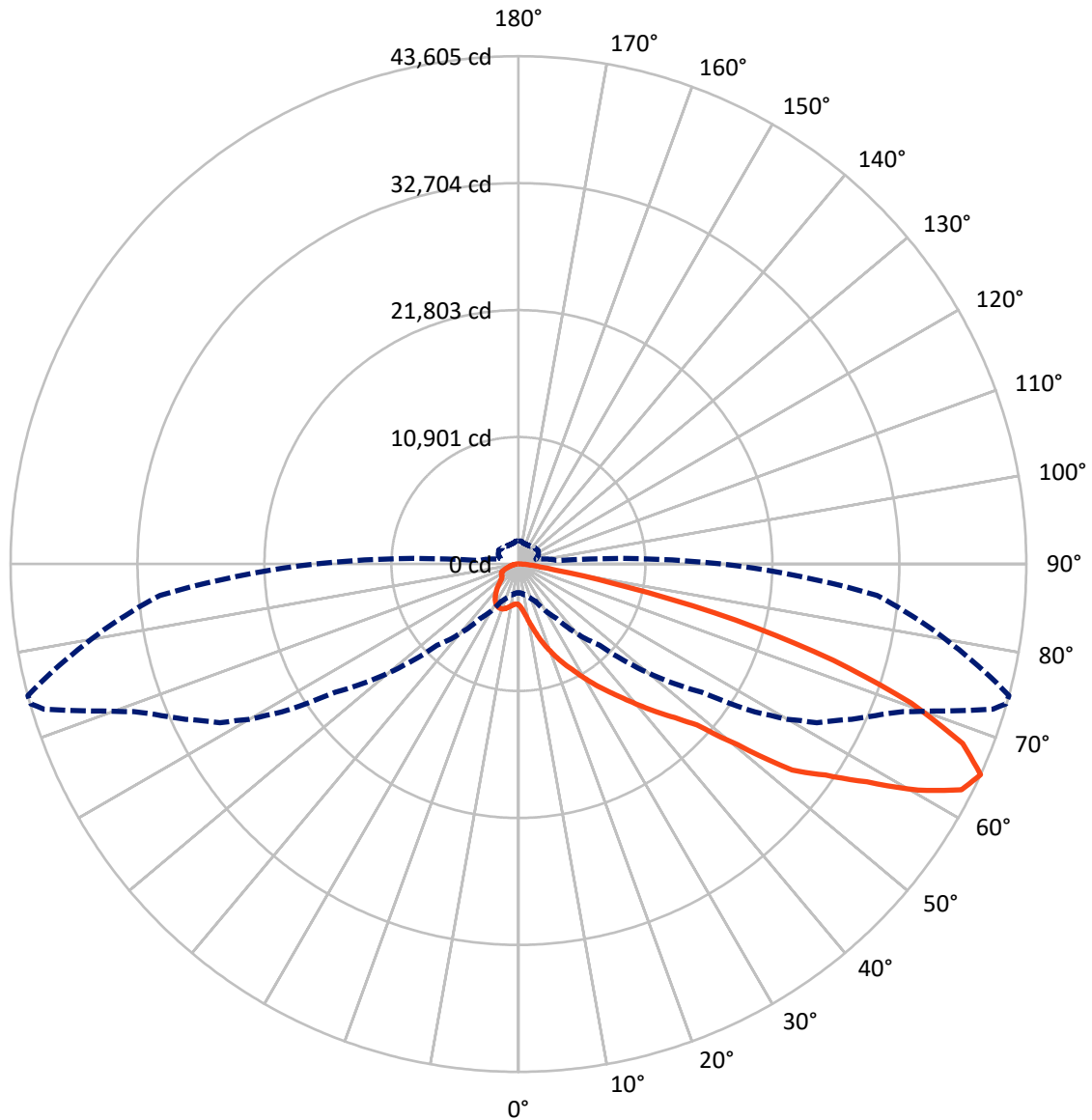


Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Full Cutoff

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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	6642.9	0.0	6642.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	36443.2	0.0	36443.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	43086.1	0.0	43086.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	1.0
10°-20°	1691.1	3.9
20°-30°	3469.5	8.1
30°-40°	5837.3	13.5
40°-50°	8065.5	18.7
50°-60°	10068.2	23.4
60°-70°	9060.3	21.0
70°-80°	3798.0	8.8
80°-90°	663.5	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°	43086.1	100.0
0°-180°	43086.1	100.0



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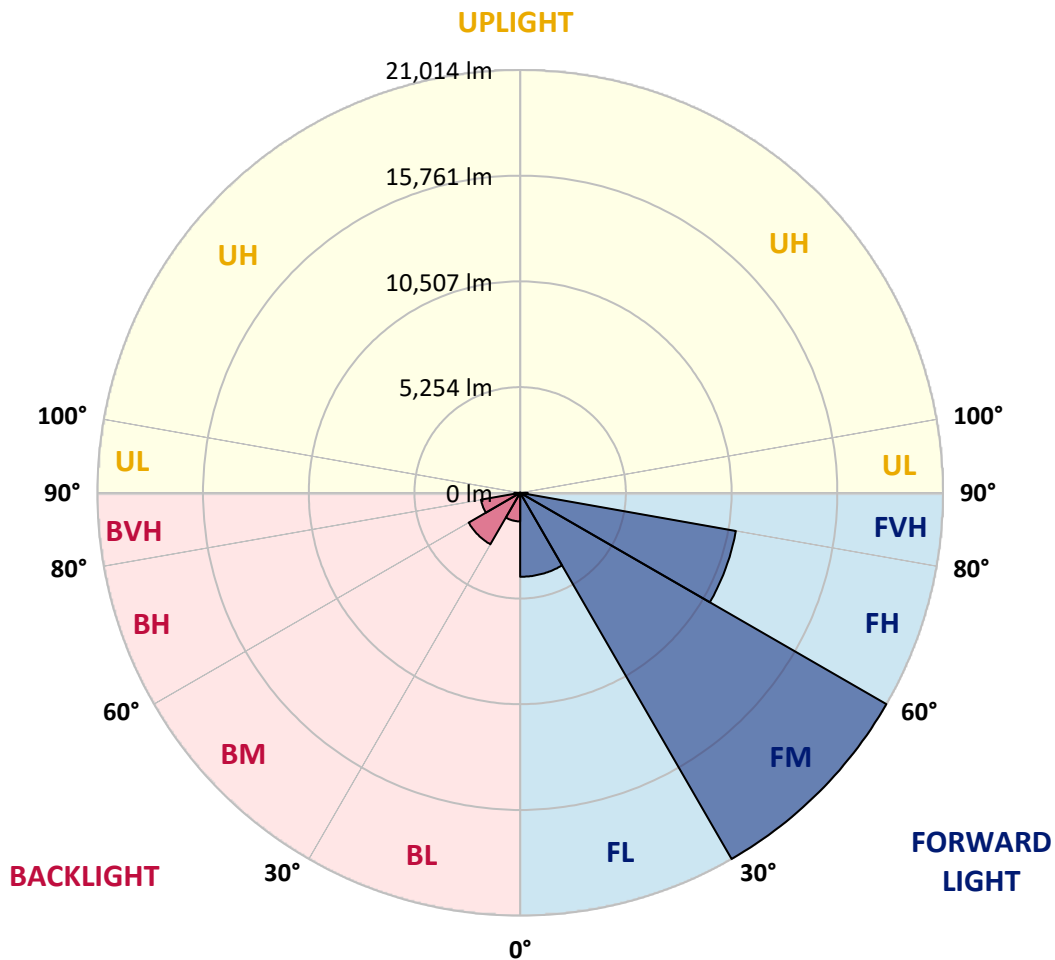
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4172.8	9.7			
FM	(30°-60°)	21014.1	48.8			
FH	(60°-80°)	10883.4	25.3			G4/12000
FVH	(80°-90°)	372.9	0.9			G3/500
BL	(0°-30°)	1420.6	3.3	B3/2500		
BM	(30°-60°)	2956.8	6.9	B3/5000		
BH	(60°-80°)	1974.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	290.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6
2.5°	4445.8	4396.8	4409.2	4327.6	4227.6	4097.1	3952.3	3950.2	3952.3	3938.0	3885.0
5°	6165.0	6105.8	6083.4	5899.9	5630.7	5247.3	4831.3	4786.3	4768.1	4721.1	4613.1
7.5°	7419.1	7386.6	7351.9	7213.2	6968.4	6540.2	5981.5	5885.5	5793.8	5771.4	5649.0
10°	8228.7	8220.6	8147.2	8110.4	7957.5	7586.4	7041.9	6950.0	6850.1	6815.5	6687.1
12.5°	8869.1	8867.1	8832.5	8842.6	8710.1	8440.8	7971.7	7888.1	7814.7	7708.7	7617.0
15°	9311.7	9313.6	9364.7	9421.9	9401.4	9219.9	8779.5	8742.8	8679.5	8606.0	8498.0
17.5°	9674.7	9684.8	9737.8	9841.9	9954.1	9939.7	9591.1	9560.5	9505.4	9405.6	9348.4
20°	10494.4	10533.3	10431.3	10431.3	10443.5	10498.6	10331.3	10307.0	10229.4	10176.4	10131.5
22.5°	11879.2	11924.1	11693.6	11459.0	11228.6	11061.4	10894.3	10924.7	10871.7	10835.0	10808.5
25°	13678.0	13712.5	13339.4	12943.8	12474.8	11862.8	11448.9	11430.6	11401.9	11379.5	11367.3
27.5°	15370.5	15384.8	15032.1	14452.9	13908.4	13029.5	12011.7	11989.4	11954.6	11911.9	11875.1
30°	16818.5	16814.5	16451.5	15898.8	15315.6	14342.8	12866.2	12797.0	12694.9	12578.7	12489.0
32.5°	18072.7	18066.6	17668.9	17095.9	16484.1	15643.9	14036.8	13894.2	13735.1	13508.6	13372.0
35°	19059.8	19055.7	18680.4	18082.9	17381.3	16869.5	15378.8	15203.4	15001.4	14697.6	14487.5
37.5°	19432.9	19432.9	19222.9	18815.1	18195.1	17844.3	16869.5	16657.5	16441.3	16096.5	15860.0
40°	19214.7	19218.9	19263.8	19188.2	18886.4	18617.3	18260.3	18133.9	17948.3	17638.3	17391.5
42.5°	18482.6	18505.1	18802.9	19167.9	19318.8	19275.9	19494.2	19437.0	19306.6	19068.0	18872.1
45°	17554.8	17624.0	17950.4	18639.7	19439.1	19844.9	20528.1	20534.3	20509.7	20381.3	20230.4
47.5°	16280.2	16378.0	16808.4	17740.3	19157.7	20397.6	21578.4	21633.4	21684.5	21600.9	21531.5
50°	14587.4	14703.7	15348.1	16584.0	18584.7	20970.7	23562.6	23811.5	24043.9	24015.4	24062.3
52.5°	12774.4	12911.1	13700.4	15077.0	17599.7	21103.3	24831.2	25237.0	25642.7	25975.2	26328.1
55°	11139.0	11065.5	11854.8	13304.7	15980.4	20505.7	25971.2	26460.6	26913.3	27321.2	27741.3
57.5°	8922.1	9042.5	9833.7	11267.4	13837.0	18819.1	26756.2	27472.1	28122.7	28797.7	29393.3
60°	6521.9	6642.2	7500.8	8956.8	11510.2	16261.7	26156.7	27241.6	28283.8	29317.8	30125.3
62.5°	3938.0	4027.7	4784.4	6171.0	8875.3	13229.2	23485.2	24908.7	26442.1	27678.0	28915.9
65°	2451.4	2502.3	2781.7	3544.4	5699.9	9876.5	19188.2	20740.2	22392.1	23960.3	25247.1
67.5°	2006.8	2025.0	2076.1	2239.3	3130.5	6440.3	14281.6	15656.1	17146.8	18664.2	20095.8
70°	1804.9	1792.6	1792.6	1802.8	2006.8	3462.8	9350.4	10245.7	11487.6	12807.1	14116.3
72.5°	1629.4	1617.2	1594.9	1564.2	1637.6	2112.8	4833.3	5508.2	6403.6	7576.1	8830.3
75°	1464.2	1448.0	1421.4	1382.8	1433.7	1594.9	2320.9	2604.2	3040.7	3664.7	4364.2
77.5°	1292.9	1272.5	1248.0	1219.4	1284.8	1239.9	1360.3	1462.3	1629.4	1829.3	2092.4
80°	1099.3	1080.8	1072.7	1058.5	1135.9	944.2	960.6	1023.8	1121.7	1229.7	1352.0
82.5°	860.5	860.5	893.3	899.4	985.0	679.1	717.8	772.9	823.8	881.0	938.1
85°	566.9	571.1	681.2	723.9	777.0	456.8	538.4	556.7	597.6	630.2	654.7
87.5°	177.4	191.7	416.1	460.9	446.5	259.0	330.3	338.5	367.0	389.5	409.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6
2.5°	3885.0	3860.5	3838.1	3836.0	3819.8	3797.2	3805.4	3770.7	3772.8	3754.5	3734.1
5°	4568.2	4551.8	4470.2	4447.8	4386.7	4347.8	4341.8	4260.2	4250.1	4203.1	4152.1
7.5°	5551.2	5498.0	5383.9	5328.8	5224.8	5147.3	5110.5	5002.5	4949.5	4827.1	4772.1
10°	6581.1	6513.7	6372.9	6295.5	6195.5	6071.1	6003.8	5846.8	5785.7	5673.4	5538.9
12.5°	7535.4	7468.1	7323.3	7264.1	7131.6	6999.1	6925.7	6748.2	6668.7	6489.3	6383.1
15°	8418.5	8351.2	8224.7	8163.5	8030.9	7923.0	7825.0	7649.5	7555.9	7388.6	7250.0
17.5°	9275.0	9203.6	9093.5	9038.3	8909.8	8799.7	8693.7	8528.6	8432.7	8265.5	8141.1
20°	10070.3	10017.3	9937.8	9864.4	9735.9	9635.8	9509.5	9366.7	9228.1	9105.7	8987.5
22.5°	10763.8	10743.3	10657.6	10625.1	10514.9	10429.2	10319.1	10178.3	10078.4	9923.4	9813.4
25°	11361.3	11355.1	11314.3	11304.1	11226.7	11145.0	11120.6	11004.3	10912.6	10776.0	10661.8
27.5°	11875.1	11881.3	11871.0	11899.6	11879.2	11842.5	11844.5	11805.9	11752.7	11638.6	11538.6
30°	12446.1	12413.5	12431.9	12472.6	12485.0	12489.0	12556.2	12578.7	12574.7	12499.1	12450.1
32.5°	13253.8	13176.2	13104.8	13098.7	13139.6	13155.9	13270.0	13329.2	13380.2	13398.5	13406.8
35°	14283.6	14128.6	13979.8	13900.3	13830.8	13849.2	13930.8	14026.7	14138.9	14216.3	14308.2
37.5°	15580.7	15391.0	15127.8	14940.3	14893.4	14791.4	14844.4	14919.9	15030.0	15150.4	15309.5
40°	17153.0	16865.5	16569.7	16320.9	16186.3	15998.8	15996.7	15982.5	16049.7	16161.9	16386.3
42.5°	18666.2	18411.2	18097.3	17836.1	17660.8	17410.0	17358.9	17226.3	17257.0	17354.8	17573.2
45°	20083.5	19873.5	19681.8	19379.9	19231.0	18959.8	18874.2	18717.2	18629.5	18674.3	18892.6
47.5°	21455.9	21321.5	21121.6	20925.7	20811.7	20568.9	20458.8	20346.6	20234.4	20230.4	20458.8
50°	24131.7	24060.3	23823.7	23619.8	23674.8	23377.1	23395.5	23093.5	23230.3	23246.6	23725.9
52.5°	26646.2	26895.0	27070.3	27284.5	27423.2	27449.7	27541.5	27678.0	27843.2	28169.6	28614.2
55°	28086.0	28397.9	28579.4	28742.6	29011.8	29069.0	29221.9	29403.3	29548.2	29915.3	30292.6
57.5°	29797.0	30376.1	30657.5	30916.5	31279.6	31418.2	31673.2	31871.0	32058.6	32493.0	32949.8
60°	30851.3	31556.9	32129.9	32539.8	32994.7	33321.0	33706.5	34016.4	34456.8	34976.9	35658.1
62.5°	30013.1	31049.1	31809.8	32513.3	33131.3	33755.3	34308.0	34887.1	35556.2	36343.3	37399.7
65°	26674.7	27729.1	29032.2	29762.3	30580.1	31542.6	32382.9	33321.0	34232.5	35378.7	36940.8
67.5°	21474.3	22700.0	24164.2	24900.5	25840.6	26915.3	27857.6	29003.7	30068.2	31456.9	33388.3
70°	15478.7	17063.2	18295.1	19063.9	20161.0	21268.5	22178.0	23511.7	24392.7	25816.1	27812.7
72.5°	9801.0	11051.3	12560.5	13529.1	14503.9	15625.5	16555.5	17705.7	18527.5	19824.5	21633.4
75°	5269.6	6191.5	7517.0	8436.8	9480.9	10439.5	11528.5	12299.4	12907.0	13932.8	15401.3
77.5°	2469.7	3030.5	3701.5	4409.2	5116.7	5855.0	6572.8	7197.0	7457.9	8045.2	8911.9
80°	1498.9	1680.4	1876.2	2094.4	2390.1	2628.7	2944.9	3173.3	3189.5	3375.1	3640.2
82.5°	1001.3	1068.7	1127.7	1182.8	1258.3	1317.5	1384.6	1464.2	1496.8	1539.8	1625.4
85°	683.3	715.8	728.0	762.8	754.5	775.0	801.5	828.0	842.3	840.3	878.9
87.5°	420.0	436.4	444.7	452.7	446.5	438.5	450.7	465.0	469.0	456.8	460.9
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°	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6
2.5°	3738.1	3719.8	3701.5	3689.2	3685.0	3577.1	3530.1	3499.5	3434.3	3381.2	3338.5
5°	4123.6	4084.9	4054.2	4017.5	3997.1	3723.8	3623.9	3554.7	3440.4	3373.0	3312.0
7.5°	4743.5	4635.4	4572.3	4500.9	4439.7	3946.2	3781.0	3672.9	3513.8	3424.1	3354.7
10°	5447.1	5334.9	5235.1	5124.9	5029.0	4241.8	4001.2	3834.0	3623.9	3507.7	3416.0
12.5°	6232.3	6122.0	5995.6	5855.0	5732.7	4617.1	4282.6	4044.0	3756.5	3601.5	3472.9
15°	7160.2	6966.4	6813.5	6650.3	6507.6	5065.7	4611.0	4280.7	3897.1	3687.2	3515.8
17.5°	8022.9	7818.8	7610.9	7468.1	7303.0	5569.5	4941.3	4521.2	4013.4	3742.2	3524.1
20°	8865.1	8642.8	8463.3	8271.7	8098.3	6091.5	5294.2	4733.3	4088.8	3744.2	3472.9
22.5°	9607.5	9468.8	9268.8	9060.8	8885.5	6613.6	5624.6	4912.8	4117.4	3697.3	3383.2
25°	10451.7	10304.8	10060.1	9884.7	9688.9	7145.8	5948.8	5051.4	4101.1	3609.7	3244.6
27.5°	11353.0	11189.9	10939.1	10755.5	10519.0	7698.6	6246.5	5151.4	4039.9	3466.9	3059.0
30°	12293.2	12144.4	11897.6	11712.0	11473.4	8283.8	6578.9	5218.8	3917.6	3269.1	2842.9
32.5°	13302.7	13178.2	12933.5	12739.9	12485.0	8918.1	6888.9	5239.1	3732.0	3034.6	2614.4
35°	14261.2	14175.6	13969.5	13788.1	13522.9	9517.6	7217.3	5228.9	3511.7	2777.6	2406.4
37.5°	15339.9	15289.1	15187.0	14956.6	14632.3	10331.3	7610.9	5186.1	3242.5	2522.7	2247.4
40°	16490.1	16494.3	16384.1	16227.2	15925.3	11318.5	8080.0	5102.5	2948.9	2298.4	2102.6
42.5°	17707.7	17770.9	17717.9	17605.7	17316.2	12313.5	8640.7	5000.4	2663.4	2080.1	1959.8
45°	19102.5	19180.2	19261.6	19096.4	18815.1	13627.0	9378.9	4867.9	2355.4	1898.7	1861.9
47.5°	20711.6	20834.0	20907.4	20909.5	20628.0	15254.4	10578.1	4788.3	2082.2	1776.3	1815.0
50°	24107.2	24145.9	24319.3	24621.0	24405.0	19021.0	12672.5	4739.5	1896.6	1700.9	1780.4
52.5°	28999.5	29425.8	29725.5	29705.2	29411.5	21413.2	13826.8	4486.6	1786.5	1672.3	1764.0
55°	30992.1	31524.3	32079.1	32225.8	31997.4	23454.6	14917.9	4233.7	1733.5	1692.6	1770.2
57.5°	33647.3	34544.6	35305.2	35625.4	35295.0	26066.9	16353.6	4101.1	1717.1	1747.7	1808.8
60°	36749.1	37858.4	38857.9	39432.9	39432.9	29069.0	17842.2	4046.1	1694.7	1829.3	1874.1
62.5°	38741.6	40371.0	41880.2	42722.4	42697.9	31159.2	18503.0	3858.5	1643.7	1886.4	1963.9
65°	38749.6	40687.1	42610.3	43556.5	43605.4	30902.4	17411.9	3407.8	1549.9	1894.5	2053.6
67.5°	35519.4	37585.3	39826.4	40884.9	41129.6	28446.8	15072.8	2802.1	1397.0	1813.0	2086.3
70°	29998.9	32015.8	34303.9	35344.1	35778.4	24249.9	12140.2	2159.6	1201.2	1633.5	2019.0
72.5°	23634.0	25612.2	27204.9	27965.7	28304.2	18535.6	8840.6	1631.5	985.0	1376.6	1837.5
75°	16732.9	18217.5	19063.9	19233.2	19286.2	11173.6	5371.7	1213.4	811.7	1070.7	1551.9
77.5°	9444.2	10080.5	10011.3	10086.6	9458.6	4313.2	2339.1	868.8	668.9	813.8	1203.2
80°	3687.2	3801.4	3570.9	3499.5	3210.0	1605.0	1032.0	605.6	534.3	615.9	842.3
82.5°	1625.4	1678.5	1629.4	1641.7	1570.2	828.0	617.9	438.5	407.9	450.7	558.7
85°	895.3	911.6	907.5	934.0	895.3	330.3	293.7	269.2	285.5	306.0	359.0
87.5°	436.4	440.4	426.2	448.7	434.4	167.3	144.7	152.9	167.3	171.2	171.2
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°	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6
2.5°	3307.7	3291.5	3293.5	3289.5	3281.2	3281.2
5°	3279.4	3263.0	3263.0	3259.0	3248.7	3250.7
7.5°	3307.7	3281.2	3271.1	3256.9	3242.5	3242.5
10°	3340.4	3293.5	3265.0	3240.5	3222.2	3222.2
12.5°	3365.0	3291.5	3244.6	3212.0	3193.7	3193.7
15°	3373.0	3277.2	3212.0	3173.3	3157.0	3154.8
17.5°	3346.5	3222.2	3142.6	3097.7	3077.4	3071.2
20°	3265.0	3122.2	3026.4	2975.5	2946.9	2936.6
22.5°	3142.6	2979.5	2867.3	2814.3	2777.6	2771.5
25°	2971.4	2796.0	2685.8	2634.9	2614.4	2608.3
27.5°	2771.5	2608.3	2514.5	2481.8	2463.5	2461.4
30°	2581.8	2443.1	2373.9	2349.3	2326.9	2322.7
32.5°	2404.5	2316.6	2290.1	2255.6	2202.6	2196.4
35°	2277.9	2269.7	2251.4	2174.0	2108.7	2090.4
37.5°	2200.5	2275.9	2182.2	2029.1	1982.3	1978.2
40°	2155.7	2212.6	2051.5	1998.5	2002.6	1998.5
42.5°	2053.6	2112.8	2055.7	2031.2	2047.4	2051.5
45°	1951.7	2017.0	2086.3	2070.0	2108.7	2108.7
47.5°	1894.5	1992.4	2084.2	2084.2	2141.3	2161.7
50°	1829.3	1972.0	2051.5	2080.1	2125.0	2108.7
52.5°	1825.3	1937.4	2004.7	2055.7	2076.1	2057.7
55°	1831.4	1908.8	1957.8	2014.9	2039.3	2041.4
57.5°	1839.5	1892.5	1925.2	1951.7	2025.0	2025.0
60°	1859.9	1878.3	1896.6	1910.9	2006.8	2008.8
62.5°	1892.5	1864.0	1859.9	1874.1	1996.6	1988.4
65°	1943.6	1843.6	1813.0	1827.2	1986.3	1961.9
67.5°	2012.8	1813.0	1753.9	1764.0	1978.2	1925.2
70°	2076.1	1764.0	1680.4	1670.2	1900.6	1806.9
72.5°	2082.2	1706.9	1578.4	1547.9	1651.9	1562.2
75°	1980.3	1668.2	1466.4	1376.6	1364.3	1352.0
77.5°	1784.5	1645.8	1335.8	1195.0	1170.6	1178.8
80°	1492.9	1562.2	1178.8	1011.5	1144.1	1129.8
82.5°	1115.5	1378.5	1001.3	895.3	893.3	789.3
85°	620.0	1074.7	815.8	670.9	466.9	452.7
87.5°	173.4	597.6	571.1	379.4	259.0	269.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)