

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: P269344

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269344
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-05-LED-E1-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 29539.6 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 320
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

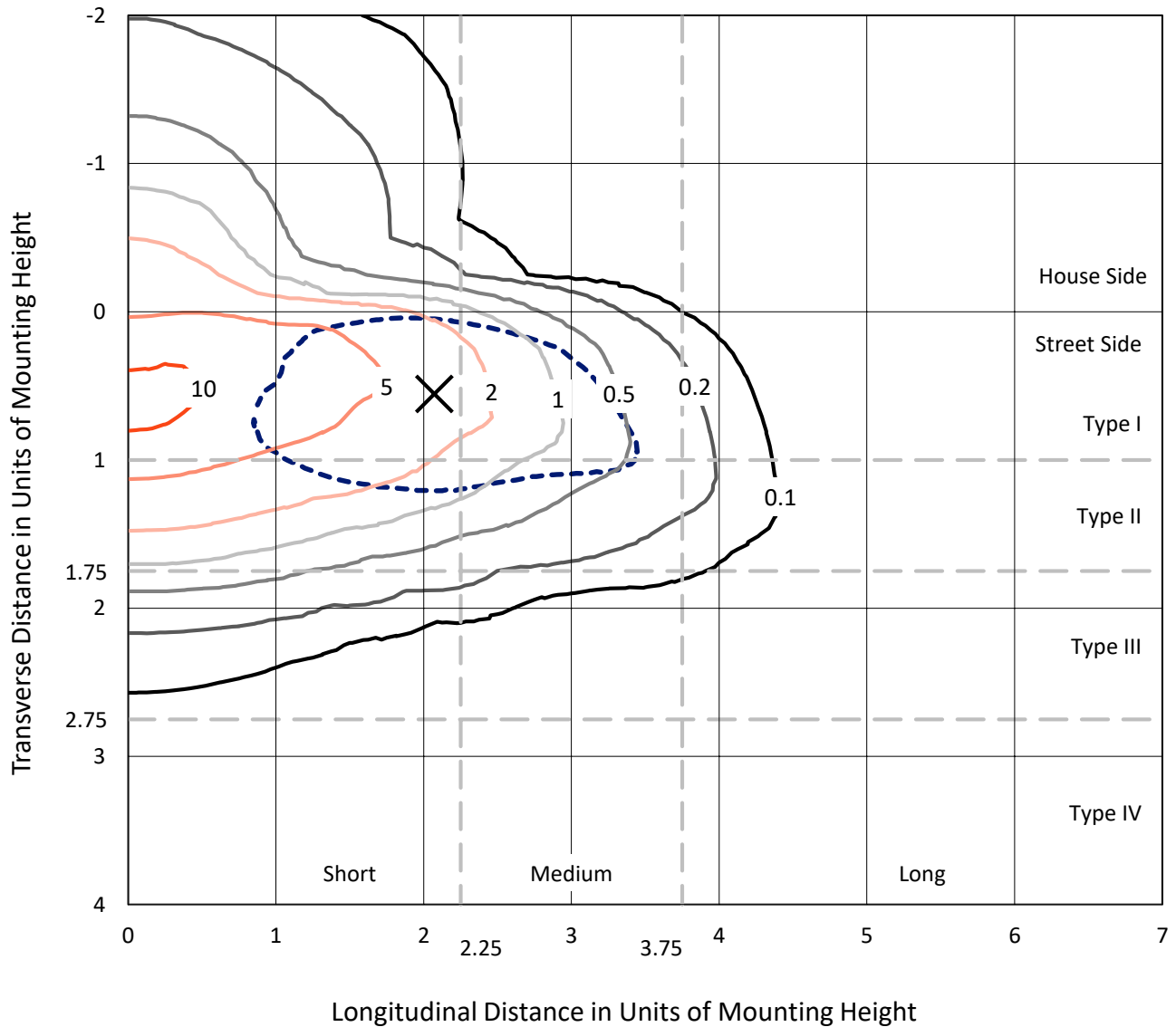


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Iso-Footcandle Lines of Horizontal Illumination

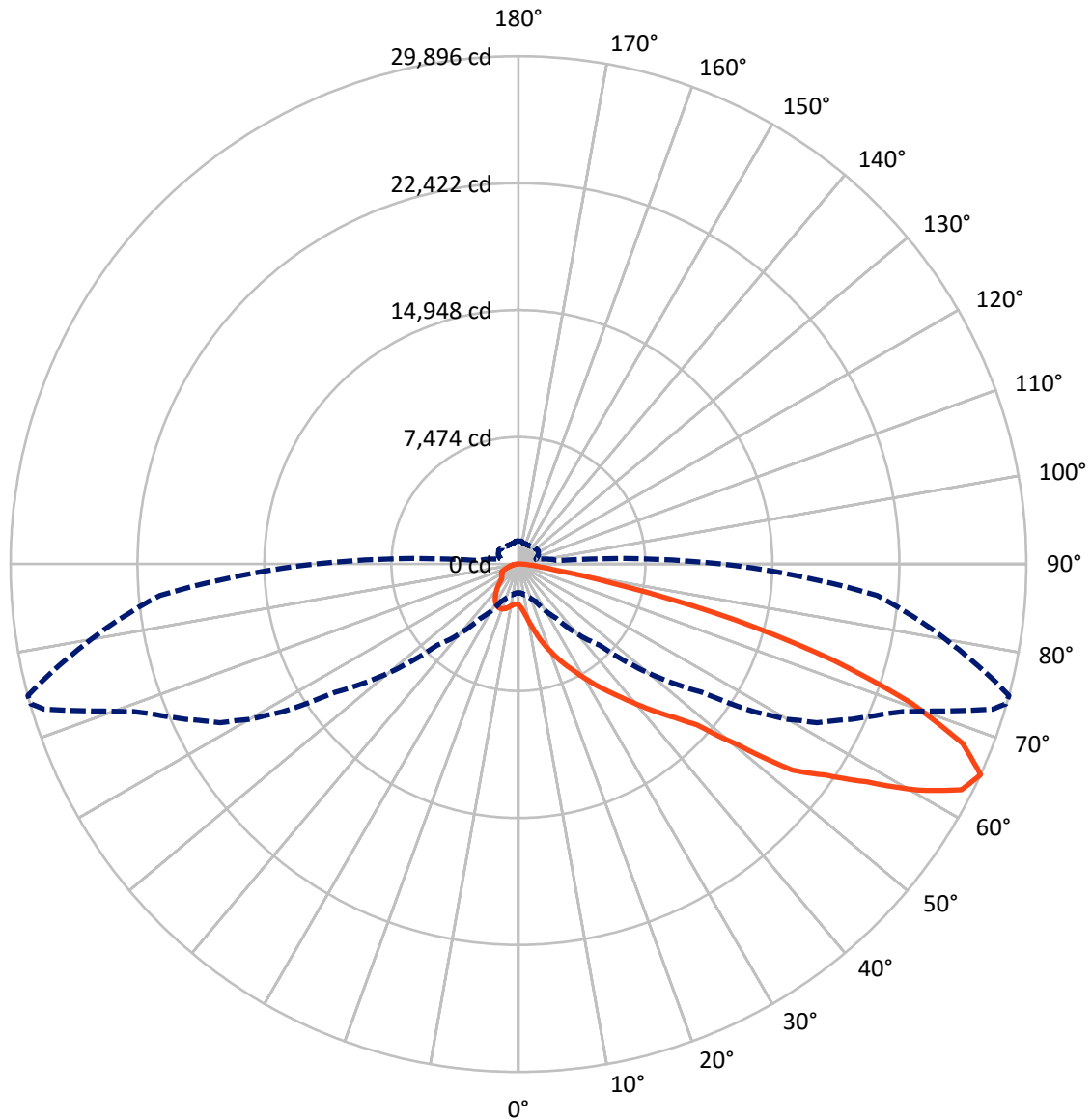
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	4554.3	0.0	4554.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24985.3	0.0	24985.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	29539.6	0.0	29539.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	1.0
10°-20°	1159.4	3.9
20°-30°	2378.7	8.1
30°-40°	4002.0	13.5
40°-50°	5529.7	18.7
50°-60°	6902.7	23.4
60°-70°	6211.7	21.0
70°-80°	2603.9	8.8
80°-90°	454.9	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°	29539.6	100.0
0°-180°	29539.6	100.0



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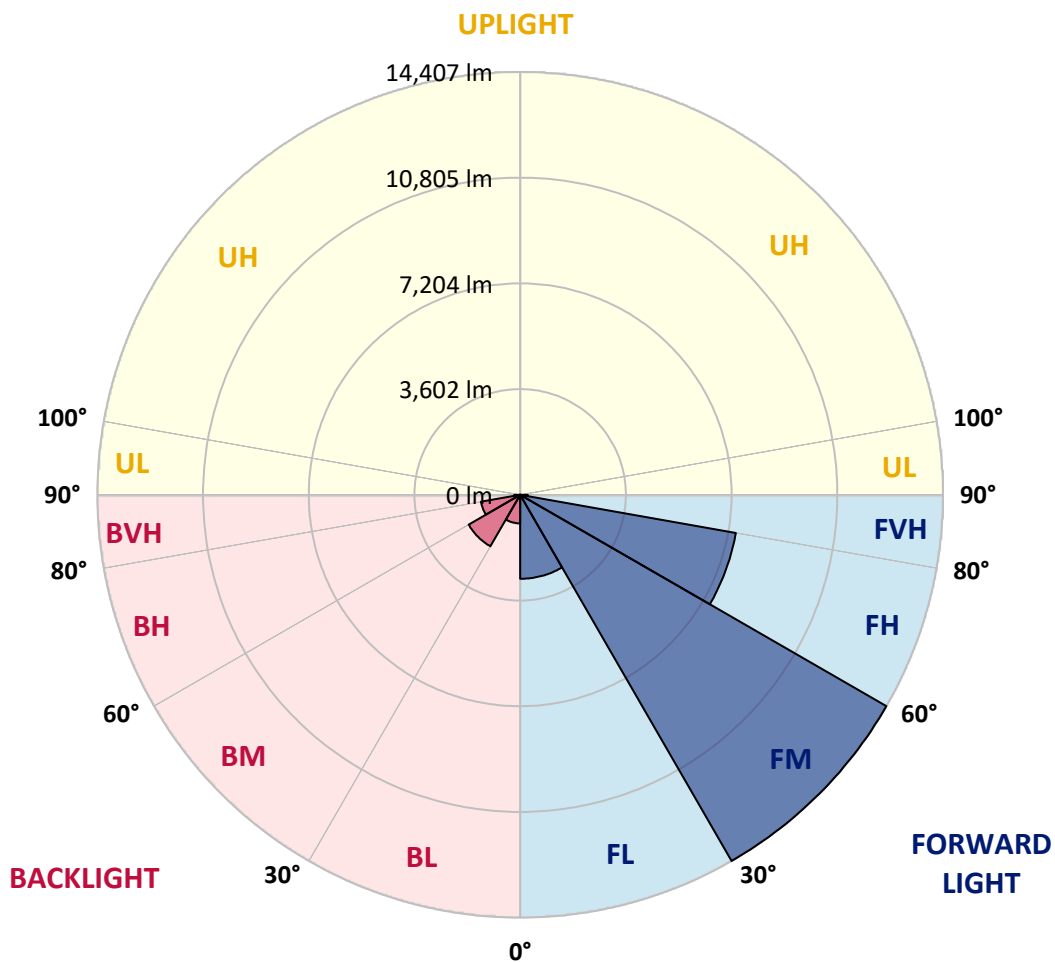
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2860.8	9.7			
FM (30°-60°)	14407.2	48.8			
FH (60°-80°)	7461.6	25.3			G3/7500
FVH (80°-90°)	255.7	0.9			G3/500
BL (0°-30°)	974.0	3.3	B2/1000		
BM (30°-60°)	2027.2	6.9	B2/2500		
BH (60°-80°)	1353.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	199.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7
2.5°	3047.9	3014.4	3022.8	2966.9	2898.4	2808.9	2709.6	2708.3	2709.6	2699.9	2663.6
5°	4226.6	4186.1	4170.7	4044.9	3860.3	3597.5	3312.3	3281.5	3268.9	3236.8	3162.7
7.5°	5086.6	5064.1	5040.4	4945.3	4777.5	4483.9	4100.9	4035.1	3972.2	3956.9	3873.0
10°	5641.6	5636.1	5585.8	5560.5	5455.6	5201.1	4827.9	4765.0	4696.5	4672.8	4584.6
12.5°	6080.6	6079.3	6055.5	6062.5	5971.7	5787.1	5465.5	5408.2	5357.9	5285.1	5222.1
15°	6384.1	6385.4	6420.4	6459.5	6445.6	6321.2	6019.2	5994.0	5950.6	5900.2	5826.1
17.5°	6632.9	6639.9	6676.3	6747.6	6824.5	6814.7	6575.7	6554.7	6516.8	6448.4	6409.1
20°	7195.0	7221.6	7151.6	7151.6	7160.0	7197.8	7083.1	7066.3	7013.2	6976.9	6946.1
22.5°	8144.4	8175.1	8017.2	7856.3	7698.4	7583.8	7469.0	7490.0	7453.6	7428.4	7410.3
25°	9377.5	9401.3	9145.5	8874.1	8552.7	8133.2	7849.3	7836.8	7817.2	7801.8	7793.4
27.5°	10538.0	10547.8	10306.0	9908.8	9535.5	8932.9	8235.2	8219.9	8196.0	8166.8	8141.6
30°	11530.7	11527.9	11279.1	10900.2	10500.3	9833.3	8821.0	8773.6	8703.6	8623.9	8562.5
32.5°	12390.6	12386.4	12113.7	11720.8	11301.4	10725.4	9623.6	9525.7	9416.8	9261.4	9167.8
35°	13067.4	13064.5	12807.2	12397.6	11916.6	11565.7	10543.6	10423.4	10285.0	10076.6	9932.6
37.5°	13323.2	13323.2	13179.2	12899.5	12474.6	12233.9	11565.7	11420.2	11272.0	11035.8	10873.5
40°	13173.6	13176.3	13207.2	13155.4	12948.4	12763.8	12519.1	12432.5	12305.3	12092.9	11923.7
42.5°	12671.6	12687.0	12891.1	13141.5	13244.9	13215.5	13365.2	13325.9	13236.4	13072.9	12938.6
45°	12035.4	12083.0	12306.7	12779.3	13327.3	13605.5	14073.9	14078.1	14061.3	13973.3	13869.9
47.5°	11161.6	11228.8	11523.7	12162.7	13134.4	13984.5	14794.0	14831.8	14866.8	14809.5	14761.8
50°	10001.1	10080.8	10522.7	11369.9	12741.5	14377.5	16154.5	16325.1	16484.4	16464.9	16497.1
52.5°	8758.1	8851.8	9392.9	10336.6	12066.3	14468.3	17024.1	17302.3	17580.5	17808.4	18050.5
55°	7636.9	7586.5	8127.5	9121.7	10956.1	14058.7	17805.8	18141.4	18451.6	18731.3	19019.4
57.5°	6117.0	6199.6	6742.0	7725.0	9486.6	12902.4	18344.0	18834.8	19280.9	19743.6	20151.9
60°	4471.4	4553.9	5142.4	6140.8	7891.3	11149.0	17933.0	18676.8	19391.3	20100.1	20653.8
62.5°	2699.9	2761.4	3280.2	4230.8	6084.8	9069.9	16101.3	17077.3	18128.8	18975.9	19824.7
65°	1680.5	1715.6	1907.1	2430.1	3907.8	6771.3	13155.4	14219.5	15351.9	16427.1	17309.4
67.5°	1375.8	1388.4	1423.4	1535.3	2146.2	4415.3	9791.3	10733.8	11755.8	12796.0	13777.6
70°	1237.3	1229.1	1229.1	1236.0	1375.8	2374.1	6410.7	7024.4	7875.9	8780.6	9678.2
72.5°	1117.1	1108.8	1093.3	1072.3	1122.7	1448.4	3313.7	3776.5	4390.2	5194.2	6054.0
75°	1003.9	992.6	974.5	947.9	982.9	1093.3	1591.1	1785.6	2084.6	2512.5	2992.1
77.5°	886.4	872.4	855.6	836.1	880.9	850.1	932.6	1002.5	1117.1	1254.2	1434.6
80°	753.6	741.0	735.4	725.7	778.8	647.4	658.5	701.8	768.9	843.1	927.1
82.5°	590.0	590.0	612.5	616.5	675.3	465.6	492.1	529.9	564.9	604.0	643.1
85°	388.6	391.5	466.9	496.4	532.8	313.1	369.2	381.7	409.6	432.1	448.9
87.5°	121.6	131.4	285.2	315.9	306.2	177.5	226.6	232.1	251.6	267.1	281.0
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°	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7
2.5°	2663.6	2646.8	2631.3	2630.0	2618.7	2603.4	2608.9	2585.2	2586.6	2574.1	2560.1
5°	3131.9	3120.7	3064.7	3049.3	3007.4	2980.8	2976.8	2920.7	2913.8	2881.7	2846.6
7.5°	3805.8	3769.5	3691.1	3653.4	3582.1	3529.0	3503.7	3429.6	3393.3	3309.4	3271.7
10°	4511.8	4465.7	4369.3	4316.1	4247.6	4162.3	4116.3	4008.5	3966.6	3889.8	3797.4
12.5°	5166.2	5120.1	5020.8	4980.4	4889.5	4798.6	4748.3	4626.5	4572.1	4448.9	4376.3
15°	5771.7	5725.4	5638.8	5596.9	5506.0	5432.0	5364.8	5244.6	5180.3	5065.6	4970.5
17.5°	6358.9	6310.0	6234.4	6196.7	6108.7	6033.0	5960.4	5847.2	5781.4	5666.8	5581.4
20°	6904.2	6867.8	6813.3	6763.0	6674.9	6606.3	6519.7	6421.9	6326.8	6242.9	6161.7
22.5°	7379.5	7365.6	7306.9	7284.4	7209.0	7150.2	7074.7	6978.3	6909.8	6803.6	6727.9
25°	7789.3	7785.0	7757.0	7750.0	7696.9	7641.1	7624.3	7544.5	7481.7	7387.9	7309.7
27.5°	8141.6	8145.7	8138.7	8158.3	8144.4	8119.2	8120.6	8094.0	8057.6	7979.4	7910.8
30°	8533.0	8510.7	8523.3	8551.2	8559.6	8562.5	8608.5	8623.9	8621.2	8569.4	8535.9
32.5°	9086.7	9033.5	8984.7	8980.4	9008.5	9019.6	9097.9	9138.5	9173.4	9186.0	9191.5
35°	9792.9	9686.6	9584.5	9529.9	9482.4	9494.9	9550.9	9616.6	9693.5	9746.7	9809.6
37.5°	10682.0	10552.0	10371.7	10243.1	10210.9	10141.0	10177.3	10229.0	10304.5	10387.0	10496.1
40°	11760.0	11563.0	11360.1	11189.6	11097.3	10968.7	10967.2	10957.4	11003.6	11080.6	11234.4
42.5°	12797.4	12622.8	12407.4	12228.4	12108.2	11936.1	11901.3	11810.3	11831.3	11898.4	12048.1
45°	13769.2	13625.2	13493.8	13286.8	13184.8	12998.8	12940.1	12832.4	12772.3	12803.1	12952.8
47.5°	14710.1	14617.8	14480.9	14346.7	14268.4	14102.0	14026.5	13949.6	13872.6	13869.9	14026.5
50°	16544.5	16495.7	16333.4	16193.7	16231.4	16027.2	16039.9	15832.8	15926.6	15937.8	16266.2
52.5°	18268.6	18439.1	18559.3	18706.1	18801.3	18819.4	18882.4	18975.9	19089.3	19312.9	19617.7
55°	19255.6	19469.5	19594.0	19705.8	19890.5	19929.5	20034.4	20158.9	20258.0	20509.8	20768.5
57.5°	20428.6	20825.8	21018.7	21196.2	21445.1	21540.3	21715.0	21850.6	21979.3	22277.1	22590.2
60°	21151.5	21635.3	22028.1	22309.2	22620.9	22844.7	23109.0	23321.4	23623.4	23980.1	24447.1
62.5°	20576.8	21287.1	21808.7	22291.0	22714.7	23142.6	23521.4	23918.5	24377.1	24916.8	25641.1
65°	18288.1	19010.9	19904.4	20404.9	20965.6	21625.5	22201.6	22844.7	23469.7	24255.5	25326.5
67.5°	14722.7	15563.0	16566.9	17071.7	17716.3	18453.1	19099.0	19884.8	20614.7	21566.8	22890.9
70°	10612.1	11698.4	12543.0	13070.1	13822.3	14581.6	15205.2	16119.5	16723.6	17699.5	19068.2
72.5°	6719.6	7576.8	8611.3	9275.4	9943.8	10712.7	11350.4	12138.9	12702.5	13591.6	14831.8
75°	3612.9	4244.9	5153.7	5784.2	6500.0	7157.2	7903.8	8432.4	8849.1	9552.2	10558.9
77.5°	1693.1	2077.7	2537.7	3022.8	3508.1	4014.2	4506.3	4934.1	5113.2	5515.9	6110.0
80°	1027.7	1152.0	1286.4	1435.9	1638.7	1802.2	2019.0	2175.5	2186.7	2313.9	2495.8
82.5°	686.6	732.7	773.3	810.9	862.6	903.2	949.4	1003.9	1026.3	1055.6	1114.3
85°	468.3	490.7	499.2	523.0	517.3	531.3	549.5	567.6	577.4	576.1	602.7
87.5°	288.0	299.2	304.9	310.5	306.2	300.7	308.9	318.8	321.6	313.1	315.9
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°	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7
2.5°	2562.9	2550.3	2537.7	2529.3	2526.6	2452.5	2420.3	2399.3	2354.5	2318.2	2288.8
5°	2827.1	2800.6	2779.5	2754.5	2740.4	2553.1	2484.5	2437.0	2358.7	2312.5	2270.6
7.5°	3252.1	3178.1	3134.6	3085.8	3043.8	2705.4	2592.1	2518.0	2409.1	2347.5	2300.0
10°	3734.6	3657.5	3589.1	3513.6	3447.9	2908.3	2743.2	2628.6	2484.5	2404.9	2341.9
12.5°	4272.8	4197.3	4110.6	4014.2	3930.3	3165.4	2936.2	2772.6	2575.4	2469.3	2381.0
15°	4909.0	4776.2	4671.2	4559.4	4461.5	3473.0	3161.2	2934.8	2671.9	2527.9	2410.4
17.5°	5500.4	5360.5	5218.0	5120.1	5006.9	3818.4	3387.8	3099.7	2751.6	2565.6	2416.0
20°	6077.8	5925.5	5802.4	5671.0	5552.2	4176.3	3629.6	3245.1	2803.3	2567.0	2381.0
22.5°	6586.8	6491.7	6354.7	6212.0	6091.9	4534.3	3856.2	3368.1	2823.0	2534.8	2319.6
25°	7165.6	7065.0	6897.1	6777.0	6642.6	4899.1	4078.5	3463.2	2811.8	2474.8	2224.6
27.5°	7783.6	7671.7	7499.8	7373.9	7211.8	5278.1	4282.6	3531.7	2769.7	2376.8	2097.3
30°	8428.2	8326.1	8156.9	8029.7	7866.1	5679.4	4510.5	3577.9	2685.9	2241.4	1949.1
32.5°	9120.3	9035.1	8867.2	8734.4	8559.6	6114.3	4723.0	3592.0	2558.6	2080.5	1792.5
35°	9777.4	9718.8	9577.5	9453.0	9271.2	6525.3	4948.1	3585.0	2407.6	1904.2	1649.8
37.5°	10517.0	10482.1	10412.2	10254.2	10031.9	7083.1	5218.0	3555.5	2223.0	1729.5	1540.9
40°	11305.6	11308.5	11232.9	11125.2	10918.3	7759.9	5539.6	3498.2	2021.7	1575.7	1441.5
42.5°	12140.4	12183.7	12147.3	12070.4	11871.9	8442.1	5924.1	3428.3	1826.1	1426.1	1343.7
45°	13096.7	13149.7	13205.8	13092.4	12899.5	9342.6	6430.2	3337.5	1615.0	1301.7	1276.5
47.5°	14199.9	14283.7	14334.1	14335.4	14142.6	10458.3	7252.3	3282.9	1427.5	1217.8	1244.4
50°	16527.7	16554.3	16673.3	16880.1	16731.9	13040.8	8688.2	3249.3	1300.2	1166.1	1220.5
52.5°	19881.9	20174.2	20379.8	20365.7	20164.4	14680.8	9479.6	3075.9	1224.7	1146.4	1209.4
55°	21248.0	21613.0	21993.3	22094.0	21937.2	16080.4	10227.7	2902.7	1188.5	1160.5	1213.6
57.5°	23068.5	23683.6	24205.2	24424.6	24198.2	17871.4	11211.9	2811.8	1177.3	1198.2	1240.2
60°	25195.0	25955.6	26640.8	27035.1	27035.1	19929.5	12232.6	2774.0	1161.9	1254.2	1284.9
62.5°	26561.1	27678.1	28712.9	29290.3	29273.5	21362.7	12685.7	2645.4	1127.0	1293.3	1346.4
65°	26566.7	27895.0	29213.4	29862.1	29895.8	21186.4	11937.5	2336.3	1062.7	1298.9	1408.0
67.5°	24352.0	25768.3	27304.9	28030.5	28198.3	19503.1	10333.9	1921.0	957.8	1243.0	1430.3
70°	20567.1	21949.9	23518.6	24231.7	24529.6	16625.7	8323.3	1480.6	823.6	1119.9	1384.2
72.5°	16203.4	17559.7	18651.6	19173.2	19405.2	12708.1	6061.0	1118.5	675.3	943.8	1259.8
75°	11472.1	12489.9	13070.1	13186.2	13222.5	7660.6	3682.8	831.9	556.5	734.0	1064.0
77.5°	6475.0	6911.2	6863.6	6915.3	6484.8	2957.1	1603.7	595.7	458.7	557.8	825.0
80°	2527.9	2606.3	2448.2	2399.3	2200.7	1100.3	707.4	415.2	366.2	422.3	577.4
82.5°	1114.3	1150.6	1117.1	1125.5	1076.6	567.6	423.6	300.7	279.6	308.9	383.0
85°	613.8	625.0	622.2	640.3	613.8	226.6	201.3	184.5	195.7	209.8	246.0
87.5°	299.2	302.0	292.2	307.6	297.8	114.7	99.3	104.8	114.7	117.5	117.5
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°	2400.7	2400.7	2400.7	2400.7	2400.7	2400.7
2.5°	2267.9	2256.6	2258.1	2255.3	2249.6	2249.6
5°	2248.3	2237.0	2237.0	2234.3	2227.3	2228.7
7.5°	2267.9	2249.6	2242.7	2232.8	2223.0	2223.0
10°	2290.1	2258.1	2238.4	2221.7	2209.1	2209.1
12.5°	2306.9	2256.6	2224.6	2202.1	2189.4	2189.4
15°	2312.5	2246.9	2202.1	2175.5	2164.3	2162.9
17.5°	2294.5	2209.1	2154.6	2123.9	2109.8	2105.6
20°	2238.4	2140.7	2074.8	2040.0	2020.4	2013.5
22.5°	2154.6	2042.7	1965.9	1929.5	1904.2	1900.2
25°	2037.1	1917.0	1841.3	1806.4	1792.5	1788.3
27.5°	1900.2	1788.3	1723.9	1701.6	1689.1	1687.6
30°	1770.1	1675.0	1627.5	1610.8	1595.3	1592.5
32.5°	1648.4	1588.4	1570.1	1546.4	1510.1	1505.7
35°	1561.8	1556.1	1543.6	1490.5	1445.7	1433.2
37.5°	1508.7	1560.4	1496.0	1391.1	1359.0	1356.3
40°	1477.9	1517.0	1406.6	1370.3	1373.0	1370.3
42.5°	1408.0	1448.4	1409.4	1392.6	1403.8	1406.6
45°	1338.0	1382.9	1430.3	1419.1	1445.7	1445.7
47.5°	1298.9	1366.1	1428.9	1428.9	1468.1	1482.1
50°	1254.2	1351.9	1406.6	1426.1	1457.0	1445.7
52.5°	1251.3	1328.2	1374.3	1409.4	1423.4	1410.8
55°	1255.6	1308.7	1342.2	1381.5	1398.2	1399.6
57.5°	1261.1	1297.5	1319.9	1338.0	1388.4	1388.4
60°	1275.1	1287.7	1300.2	1310.1	1375.8	1377.2
62.5°	1297.5	1277.8	1275.1	1284.9	1368.7	1363.2
65°	1332.5	1263.9	1243.0	1252.7	1361.8	1345.0
67.5°	1379.9	1243.0	1202.4	1209.4	1356.3	1319.9
70°	1423.4	1209.4	1152.0	1145.1	1303.1	1238.9
72.5°	1427.5	1170.3	1082.2	1061.2	1132.6	1071.0
75°	1357.6	1143.7	1005.4	943.8	935.3	927.1
77.5°	1223.4	1128.4	915.8	819.3	802.5	808.1
80°	1023.4	1071.0	808.1	693.5	784.4	774.6
82.5°	764.7	945.1	686.6	613.8	612.5	541.0
85°	425.1	736.8	559.3	460.0	320.2	310.5
87.5°	118.8	409.6	391.5	260.1	177.5	184.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)