

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: P192204

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192204
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-06-LED-E1-T2R-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 29966 lumens
Efficiency: N/A
Efficacy: 120.3 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 - G4

Input Watts (W): 249
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

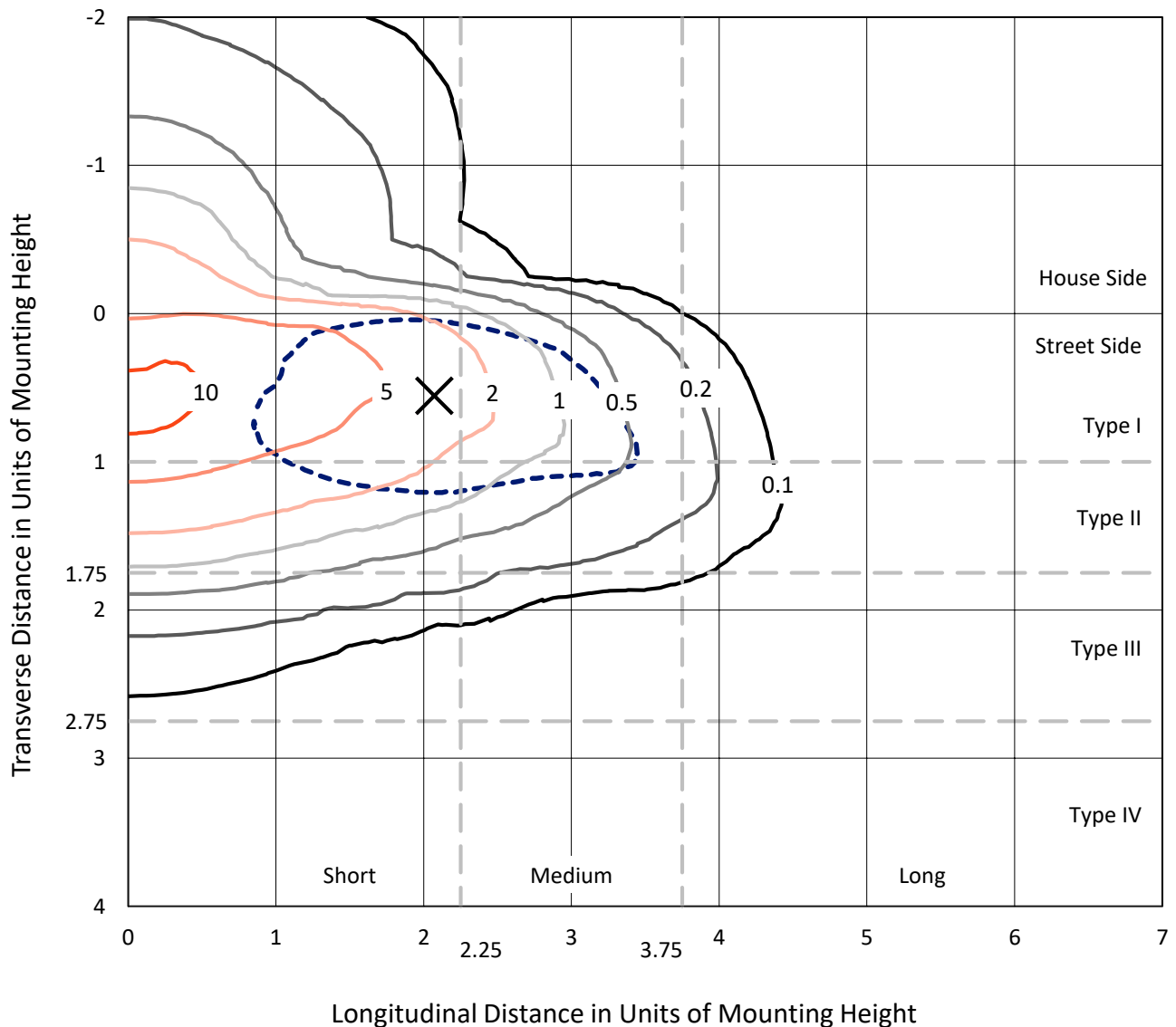


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

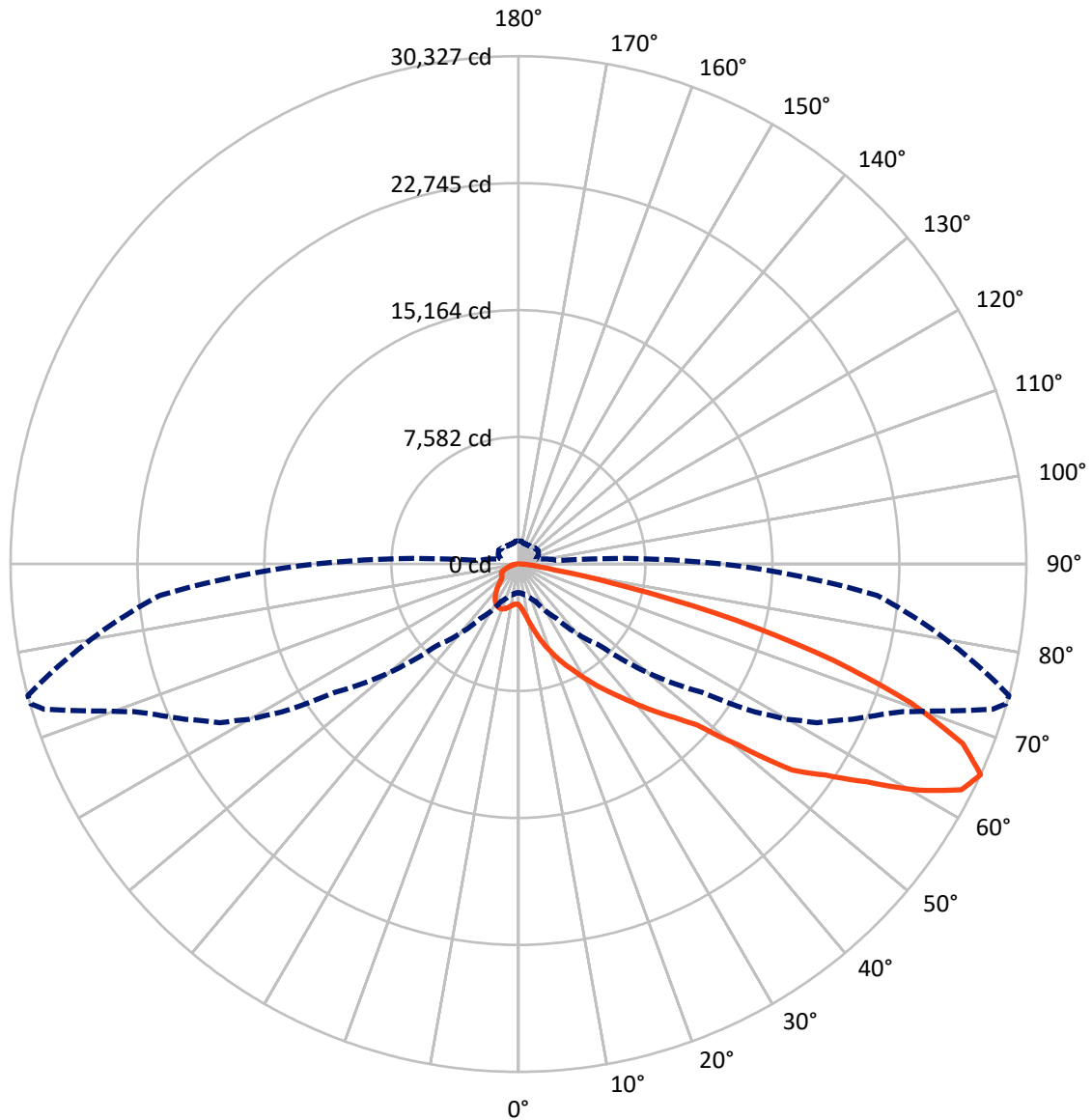


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - Full Cutoff

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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	4620.1	0.0	4620.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	25345.9	0.0	25345.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	29966.0	0.0	29966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	1.0
10°-20°	1176.1	3.9
20°-30°	2413.0	8.1
30°-40°	4059.8	13.5
40°-50°	5609.5	18.7
50°-60°	7002.3	23.4
60°-70°	6301.3	21.0
70°-80°	2641.5	8.8
80°-90°	461.5	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°	29966.0	100.0
0°-180°	29966.0	100.0

Coefficient of Utilization



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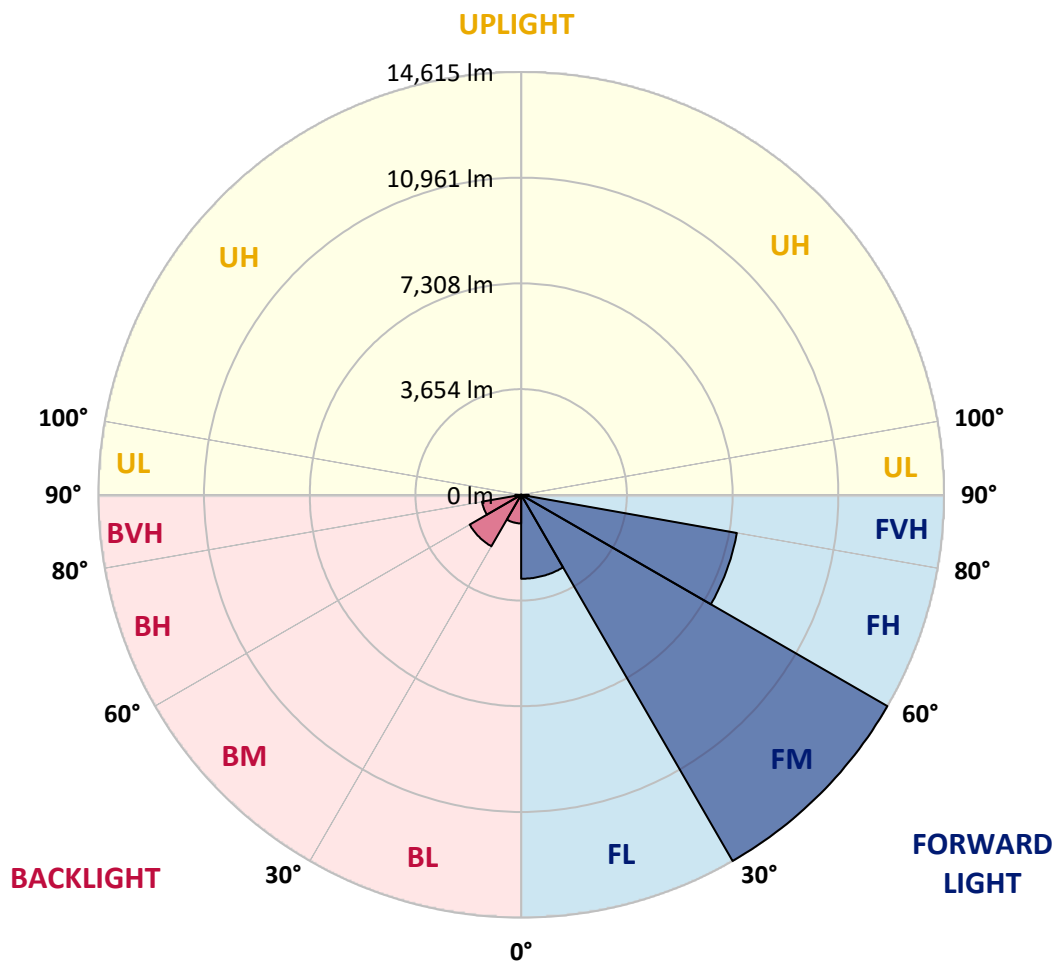
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2902.1	9.7			
FM (30°-60°)	14615.1	48.8			
FH (60°-80°)	7569.3	25.3			G4/12000
FVH (80°-90°)	259.4	0.9			G3/500
BL (0°-30°)	988.0	3.3	B2/1000		
BM (30°-60°)	2056.4	6.9	B2/2500		
BH (60°-80°)	1373.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	202.1	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°	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	3092.0	3058.0	3066.5	3009.7	2940.2	2849.5	2748.8	2747.3	2748.8	2738.8	2702.0
5°	4287.7	4246.5	4230.9	4103.3	3916.1	3649.4	3360.1	3328.9	3316.1	3283.5	3208.3
7.5°	5160.0	5137.3	5113.2	5016.7	4846.5	4548.7	4160.0	4093.4	4029.5	4013.9	3928.8
10°	5723.1	5717.4	5666.3	5640.8	5534.4	5276.3	4897.6	4833.7	4764.2	4740.1	4650.8
12.5°	6168.4	6167.0	6142.9	6150.0	6057.8	5870.6	5544.3	5486.2	5435.1	5361.4	5297.5
15°	6476.2	6477.6	6513.1	6552.8	6538.6	6412.4	6106.0	6080.5	6036.5	5985.4	5910.3
17.5°	6728.7	6735.8	6772.6	6845.0	6923.0	6913.0	6670.5	6649.2	6610.9	6541.4	6501.7
20°	7298.8	7325.8	7254.9	7254.9	7263.4	7301.7	7185.4	7168.4	7114.5	7077.6	7046.4
22.5°	8261.9	8293.1	8132.8	7969.7	7809.4	7693.1	7576.8	7598.1	7561.2	7535.7	7517.3
25°	9512.9	9537.0	9277.4	9002.3	8676.1	8250.6	7962.6	7949.9	7930.0	7914.4	7905.9
27.5°	10690.1	10700.0	10454.7	10051.9	9673.2	9061.9	8354.1	8338.5	8314.4	8284.6	8259.1
30°	11697.2	11694.3	11441.8	11057.5	10651.8	9975.3	8948.4	8900.2	8829.2	8748.4	8686.0
32.5°	12569.4	12565.2	12288.6	11890.0	11464.5	10880.2	9762.5	9663.2	9552.6	9395.2	9300.1
35°	13255.9	13253.1	12992.1	12576.5	12088.6	11732.6	10695.8	10573.8	10433.4	10222.1	10076.0
37.5°	13515.5	13515.5	13369.4	13085.7	12654.5	12410.6	11732.6	11585.1	11434.8	11195.1	11030.5
40°	13363.7	13366.6	13397.8	13345.3	13135.4	12948.1	12699.9	12612.0	12482.9	12267.3	12095.7
42.5°	12854.5	12870.1	13077.2	13331.1	13436.1	13406.3	13558.0	13518.3	13427.5	13261.6	13125.4
45°	12209.2	12257.4	12484.3	12963.7	13519.7	13802.0	14277.1	14281.4	14264.4	14175.0	14070.1
47.5°	11322.7	11390.8	11690.1	12338.2	13324.0	14186.4	15007.6	15045.9	15081.3	15023.2	14975.0
50°	10145.5	10226.3	10674.5	11534.0	12925.4	14584.9	16387.6	16560.7	16722.4	16702.5	16735.1
52.5°	8884.6	8979.6	9528.5	10485.9	12240.4	14677.1	17269.9	17552.1	17834.4	18065.6	18310.9
55°	7747.0	7696.0	8244.9	9253.3	11114.2	14261.5	18062.7	18403.1	18718.0	19001.7	19293.8
57.5°	6205.3	6289.0	6839.3	7836.4	9623.5	13088.6	18608.8	19106.6	19559.1	20028.6	20442.7
60°	4535.9	4619.6	5216.7	6229.4	8005.2	11309.9	18191.8	18946.3	19671.1	20390.2	20951.9
62.5°	2738.8	2801.2	3327.5	4291.9	6172.7	9200.9	16333.7	17323.8	18390.4	19249.9	20110.8
65°	1704.9	1740.3	1934.6	2465.1	3964.3	6869.1	13345.3	14424.6	15573.5	16664.2	17559.2
67.5°	1395.7	1408.4	1443.9	1557.4	2177.2	4479.2	9932.7	10888.7	11925.5	12980.8	13976.4
70°	1255.2	1246.7	1246.7	1253.8	1395.7	2408.4	6503.1	7125.8	7989.6	8907.3	9817.8
72.5°	1133.3	1124.8	1109.2	1087.9	1138.9	1469.4	3361.5	3831.0	4453.6	5269.2	6141.5
75°	1018.4	1007.0	988.6	961.6	997.1	1109.2	1614.1	1811.2	2114.8	2548.8	3035.3
77.5°	899.2	885.1	868.0	848.2	893.6	862.4	946.0	1017.0	1133.3	1272.3	1455.2
80°	764.5	751.7	746.1	736.1	790.0	656.7	668.0	712.0	780.1	855.3	940.4
82.5°	598.5	598.5	621.2	625.5	685.1	472.3	499.3	537.6	573.0	612.7	652.4
85°	394.3	397.1	473.7	503.5	540.4	317.7	374.4	387.2	415.6	438.3	455.3
87.5°	123.4	133.3	289.3	320.5	310.6	180.1	229.8	235.4	255.3	270.9	285.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2702.0	2684.9	2669.3	2667.9	2656.6	2641.0	2646.6	2622.5	2624.0	2611.2	2597.0
5°	3177.1	3165.8	3109.0	3093.4	3050.9	3023.9	3019.7	2962.9	2955.8	2923.2	2887.8
7.5°	3860.8	3823.9	3744.4	3706.2	3633.8	3579.9	3554.4	3479.2	3442.3	3357.2	3318.9
10°	4577.0	4530.2	4432.4	4378.5	4309.0	4222.4	4175.6	4066.4	4023.9	3945.9	3852.2
12.5°	5240.8	5194.0	5093.3	5052.2	4960.0	4867.8	4816.7	4693.3	4638.0	4513.2	4439.4
15°	5855.0	5808.2	5720.2	5677.7	5585.5	5510.3	5442.2	5320.2	5255.0	5138.7	5042.2
17.5°	6450.7	6401.0	6324.4	6286.1	6196.8	6120.2	6046.4	5931.5	5864.9	5748.6	5662.1
20°	7003.8	6966.9	6911.6	6860.6	6771.2	6701.7	6613.8	6514.5	6418.0	6332.9	6250.7
22.5°	7486.1	7471.9	7412.3	7389.6	7313.0	7253.5	7176.9	7079.0	7009.5	6901.7	6825.1
25°	7901.6	7897.4	7869.0	7861.9	7808.0	7751.3	7734.3	7653.4	7589.6	7494.6	7415.1
27.5°	8259.1	8263.3	8256.2	8276.1	8261.9	8236.4	8237.8	8210.8	8174.0	8094.5	8025.0
30°	8656.2	8633.5	8646.3	8674.6	8683.2	8686.0	8732.8	8748.4	8745.6	8693.1	8659.0
32.5°	9217.9	9164.0	9114.3	9110.1	9138.4	9149.8	9229.2	9270.3	9305.8	9318.6	9324.2
35°	9934.1	9826.3	9722.8	9667.5	9619.3	9632.0	9688.8	9755.4	9833.4	9887.3	9951.2
37.5°	10836.2	10704.3	10521.3	10390.8	10358.2	10287.3	10324.2	10376.7	10453.3	10536.9	10647.6
40°	11929.8	11729.8	11524.1	11351.1	11257.5	11127.0	11125.6	11115.6	11162.4	11240.4	11396.5
42.5°	12982.2	12804.9	12586.5	12404.9	12282.9	12108.5	12073.0	11980.8	12002.1	12070.2	12221.9
45°	13967.9	13821.8	13688.5	13478.6	13375.1	13186.4	13126.8	13017.6	12956.6	12987.9	13139.6
47.5°	14922.5	14828.9	14689.9	14553.7	14474.3	14305.5	14228.9	14150.9	14072.9	14070.1	14228.9
50°	16783.4	16733.7	16569.2	16427.4	16465.7	16258.6	16271.3	16061.4	16156.4	16167.8	16501.1
52.5°	18532.2	18705.2	18827.2	18976.1	19072.6	19091.0	19154.8	19249.9	19364.8	19591.7	19900.9
55°	19533.5	19750.6	19876.8	19990.3	20177.5	20217.2	20323.6	20449.8	20550.5	20805.8	21068.2
57.5°	20723.5	21126.4	21322.1	21502.2	21754.7	21851.1	22028.4	22166.0	22296.5	22598.6	22916.3
60°	21456.8	21947.6	22346.1	22631.2	22947.5	23174.5	23442.5	23658.1	23964.5	24326.2	24799.9
62.5°	20873.9	21594.4	22123.5	22612.8	23042.5	23476.6	23860.9	24263.8	24729.0	25276.5	26011.2
65°	18552.0	19285.3	20191.7	20699.4	21268.2	21937.7	22522.0	23174.5	23808.5	24605.6	25692.0
67.5°	14935.2	15787.7	16806.1	17318.1	17971.9	18719.4	19374.7	20171.8	20912.2	21878.1	23221.3
70°	10765.3	11867.4	12724.0	13258.8	14021.8	14792.0	15424.6	16352.2	16964.9	17954.9	19343.5
72.5°	6816.6	7686.1	8735.6	9409.3	10087.3	10867.4	11514.2	12314.1	12885.7	13787.8	15045.9
75°	3665.0	4306.1	5228.0	5867.7	6593.9	7260.5	8017.9	8554.1	8976.8	9690.2	10711.4
77.5°	1717.6	2107.7	2574.3	3066.5	3558.6	4072.1	4571.3	5005.4	5186.9	5595.4	6198.2
80°	1042.5	1168.7	1304.9	1456.6	1662.3	1828.3	2048.1	2207.0	2218.3	2347.4	2531.8
82.5°	696.4	743.2	784.3	822.6	875.1	916.3	963.1	1018.4	1041.1	1070.9	1130.4
85°	475.1	497.8	506.4	530.5	524.8	539.0	557.4	575.9	585.8	584.4	611.3
87.5°	292.2	303.5	309.2	314.9	310.6	304.9	313.5	323.4	326.2	317.7	320.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2599.8	2587.1	2574.3	2565.8	2563.0	2487.8	2455.2	2433.9	2388.5	2351.6	2321.8
5°	2867.9	2841.0	2819.7	2794.2	2780.0	2589.9	2520.4	2472.2	2392.8	2346.0	2303.4
7.5°	3299.1	3223.9	3179.9	3130.3	3087.8	2744.5	2629.6	2554.5	2443.8	2381.4	2333.2
10°	3788.4	3710.4	3640.9	3564.3	3497.7	2950.2	2782.8	2666.5	2520.4	2439.6	2375.7
12.5°	4334.5	4257.9	4170.0	4072.1	3987.0	3211.1	2978.5	2812.6	2612.6	2504.8	2415.5
15°	4979.8	4845.1	4738.7	4625.2	4526.0	3523.2	3206.9	2977.1	2710.5	2564.4	2445.2
17.5°	5579.8	5438.0	5293.3	5194.0	5079.1	3873.5	3436.7	3144.5	2791.3	2602.7	2450.9
20°	6165.6	6011.0	5886.2	5752.8	5632.3	4236.6	3682.0	3292.0	2843.8	2604.1	2415.5
22.5°	6681.9	6585.4	6446.4	6301.7	6179.8	4599.7	3911.8	3416.8	2863.7	2571.5	2353.0
25°	7269.1	7166.9	6996.7	6874.8	6738.6	4969.9	4137.3	3513.3	2852.3	2510.5	2256.6
27.5°	7896.0	7782.5	7608.0	7480.4	7315.9	5354.3	4344.4	3582.8	2809.8	2411.2	2127.5
30°	8549.8	8446.3	8274.7	8145.6	7979.6	5761.3	4575.6	3629.6	2724.7	2273.6	1977.2
32.5°	9251.9	9165.4	8995.2	8860.4	8683.2	6202.5	4791.2	3643.7	2595.6	2110.5	1818.3
35°	9918.5	9859.0	9715.7	9589.5	9405.1	6619.4	5019.5	3636.7	2442.4	1931.8	1673.7
37.5°	10668.8	10633.4	10562.5	10402.2	10176.7	7185.4	5293.3	3606.9	2255.2	1754.5	1563.0
40°	11468.8	11471.6	11395.0	11285.8	11075.9	7871.9	5619.5	3548.7	2050.9	1598.5	1462.3
42.5°	12315.6	12359.5	12322.6	12244.6	12043.2	8564.0	6009.6	3477.8	1852.4	1446.7	1363.0
45°	13285.7	13339.6	13396.3	13281.4	13085.7	9477.4	6523.0	3385.6	1638.2	1320.5	1295.0
47.5°	14404.8	14489.9	14540.9	14542.4	14346.6	10609.3	7357.0	3330.3	1448.1	1235.4	1262.3
50°	16766.3	16793.3	16913.8	17123.8	16973.4	13229.0	8813.6	3296.3	1319.1	1182.9	1238.2
52.5°	20169.0	20465.4	20673.9	20659.7	20455.5	14892.7	9616.4	3120.4	1242.5	1163.0	1226.9
55°	21554.7	21924.9	22310.7	22412.8	22253.9	16312.5	10375.2	2944.5	1205.6	1177.2	1231.1
57.5°	23401.4	24025.5	24554.5	24777.2	24547.4	18129.4	11373.8	2852.3	1194.3	1215.5	1258.1
60°	25558.7	26330.3	27025.3	27425.3	27425.3	20217.2	12409.2	2814.0	1178.7	1272.3	1303.5
62.5°	26944.4	28077.7	29127.3	29713.1	29696.0	21671.0	12868.7	2683.5	1143.2	1312.0	1365.9
65°	26950.1	28297.5	29635.1	30293.2	30327.2	21492.3	12109.9	2370.1	1077.9	1317.6	1428.3
67.5°	24703.4	26140.2	27699.0	28435.1	28605.3	19784.6	10483.0	1948.8	971.6	1260.9	1451.0
70°	20864.0	22266.7	23858.1	24581.5	24883.6	16865.6	8443.5	1502.0	835.4	1136.1	1404.2
72.5°	16437.3	17813.1	18920.8	19449.9	19685.3	12891.4	6148.6	1134.7	685.1	957.4	1277.9
75°	11637.6	12670.1	13258.8	13376.5	13413.4	7771.2	3735.9	843.9	564.5	744.6	1079.4
77.5°	6568.4	7010.9	6962.7	7015.2	6578.3	2999.8	1626.8	604.2	465.2	565.9	836.8
80°	2564.4	2643.8	2483.5	2433.9	2232.5	1116.2	717.7	421.3	371.6	428.3	585.8
82.5°	1130.4	1167.3	1133.3	1141.8	1092.1	575.9	429.8	304.9	283.7	313.5	388.6
85°	622.7	634.0	631.2	649.6	622.7	229.8	204.2	187.2	198.6	212.8	249.6
87.5°	303.5	306.4	296.4	312.0	302.1	116.3	100.7	106.4	116.3	119.1	119.1
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):

	135°	145°	155°	165°	175°	180°
0°	2435.3	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2300.6	2289.2	2290.6	2287.8	2282.1	2282.1
5°	2280.7	2269.4	2269.4	2266.5	2259.4	2260.9
7.5°	2300.6	2282.1	2275.0	2265.1	2255.2	2255.2
10°	2323.3	2290.6	2270.8	2253.8	2241.0	2241.0
12.5°	2340.3	2289.2	2256.6	2233.9	2221.1	2221.1
15°	2346.0	2279.3	2233.9	2207.0	2195.6	2194.2
17.5°	2327.5	2241.0	2185.7	2154.5	2140.3	2136.0
20°	2270.8	2171.5	2104.8	2069.4	2049.5	2042.4
22.5°	2185.7	2072.2	1994.2	1957.3	1931.8	1927.5
25°	2066.5	1944.6	1868.0	1832.5	1818.3	1814.1
27.5°	1927.5	1814.1	1748.8	1726.1	1713.4	1712.0
30°	1795.6	1699.2	1651.0	1633.9	1618.3	1615.5
32.5°	1672.2	1611.2	1592.8	1568.7	1531.8	1527.6
35°	1584.3	1578.6	1565.9	1512.0	1466.6	1453.8
37.5°	1530.4	1582.9	1517.6	1411.3	1378.6	1375.8
40°	1499.2	1538.9	1426.9	1390.0	1392.8	1390.0
42.5°	1428.3	1469.4	1429.7	1412.7	1424.0	1426.9
45°	1357.4	1402.8	1451.0	1439.6	1466.6	1466.6
47.5°	1317.6	1385.7	1449.6	1449.6	1489.3	1503.5
50°	1272.3	1371.5	1426.9	1446.7	1477.9	1466.6
52.5°	1269.4	1347.4	1394.2	1429.7	1443.9	1431.1
55°	1273.7	1327.6	1361.6	1401.3	1418.4	1419.8
57.5°	1279.4	1316.2	1338.9	1357.4	1408.4	1408.4
60°	1293.5	1306.3	1319.1	1329.0	1395.7	1397.1
62.5°	1316.2	1296.4	1293.5	1303.5	1388.6	1382.9
65°	1351.7	1282.2	1260.9	1270.8	1381.5	1364.5
67.5°	1399.9	1260.9	1219.8	1226.9	1375.8	1338.9
70°	1443.9	1226.9	1168.7	1161.6	1321.9	1256.7
72.5°	1448.1	1187.2	1097.8	1076.5	1148.9	1086.5
75°	1377.2	1160.2	1019.8	957.4	948.9	940.4
77.5°	1241.1	1144.6	929.0	831.2	814.1	819.8
80°	1038.2	1086.5	819.8	703.5	795.7	785.8
82.5°	775.8	958.8	696.4	622.7	621.2	548.9
85°	431.2	747.5	567.3	466.6	324.8	314.9
87.5°	120.6	415.6	397.1	263.8	180.1	187.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)