

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: P192225

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192225
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-07-LED-E1-T2R-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 48117 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

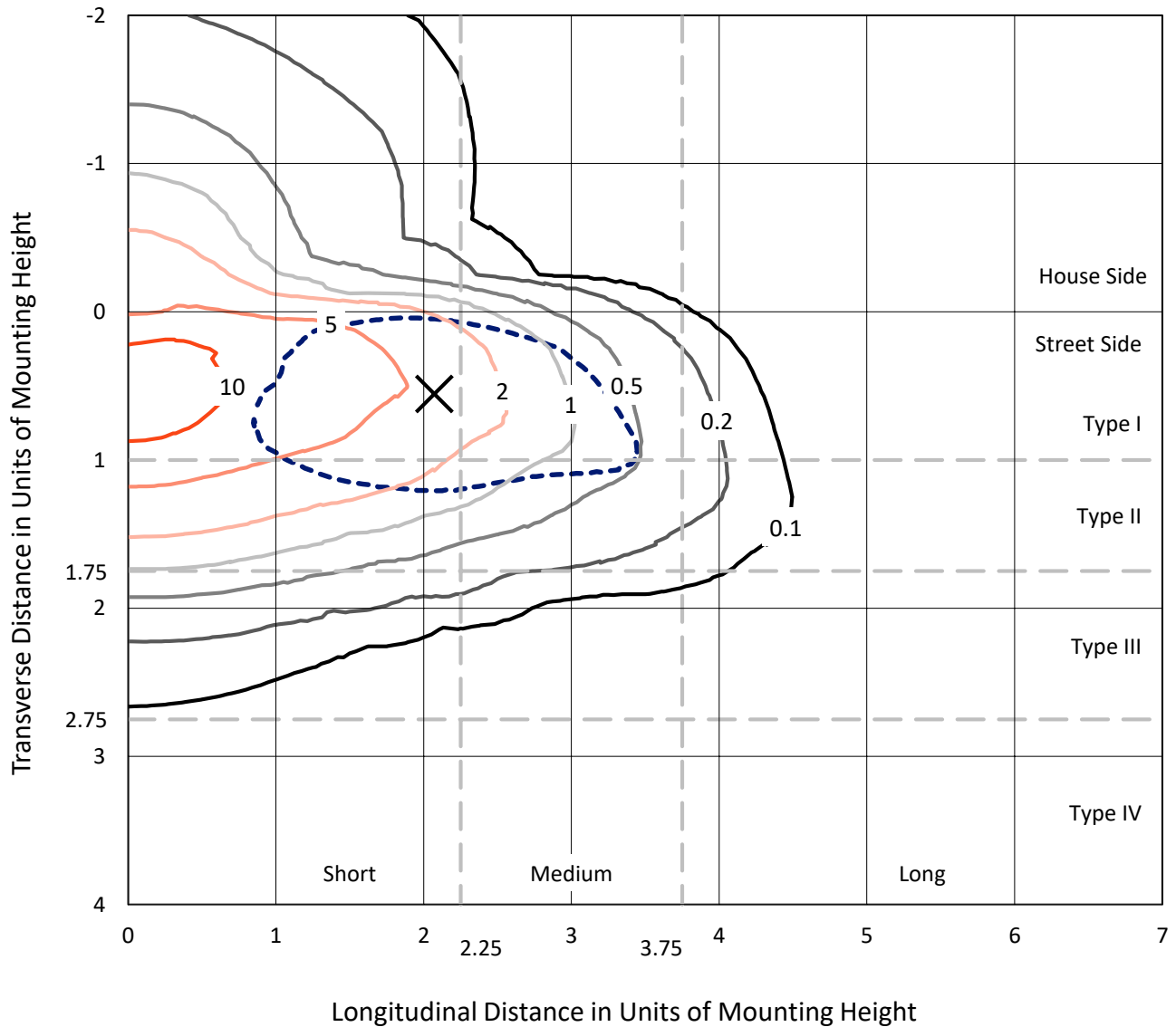


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Iso-Footcandle Lines of Horizontal Illumination

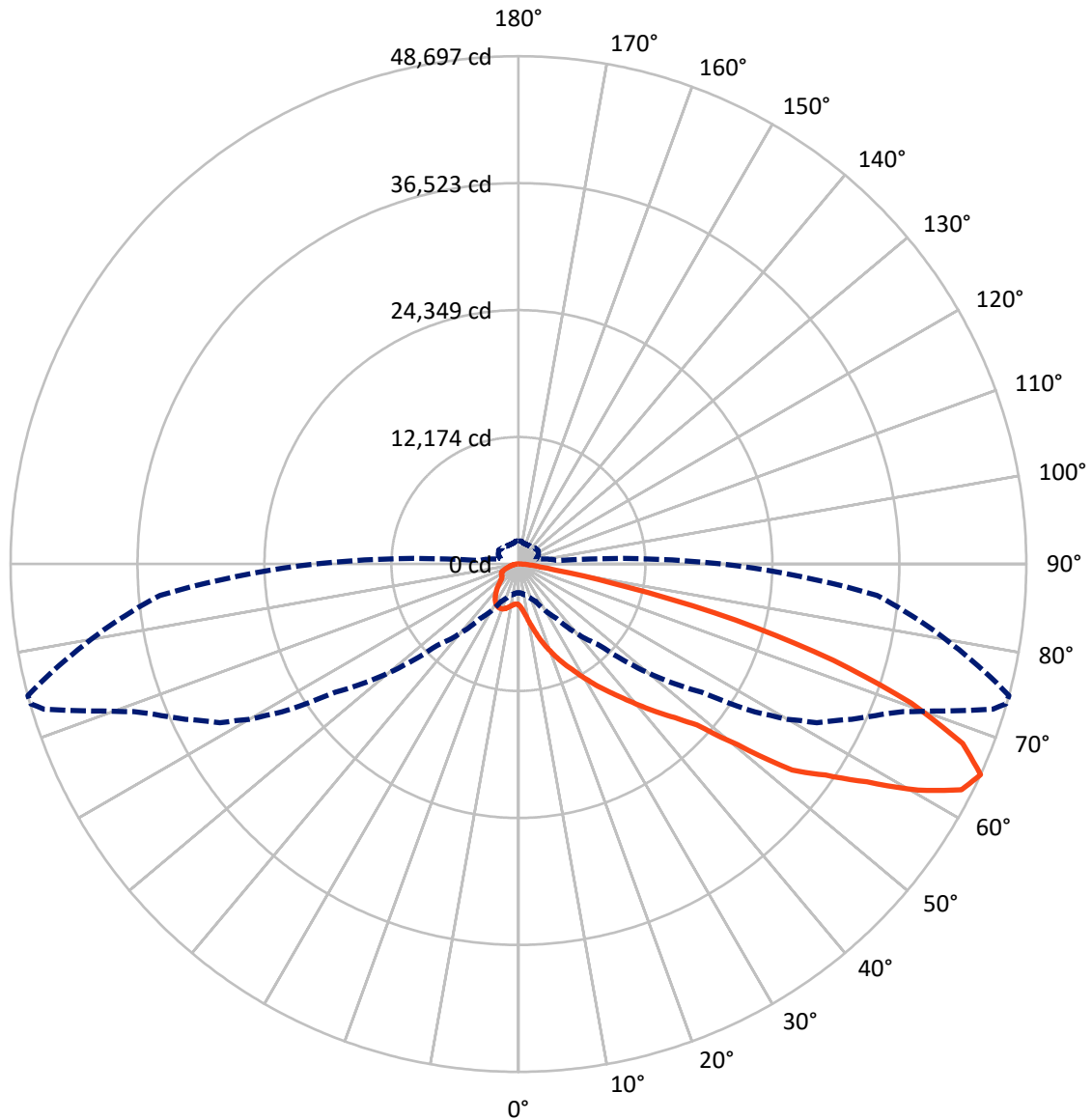
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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	7418.5	0.0	7418.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	40698.5	0.0	40698.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	48117.0	0.0	48117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.3	1.0
10°-20°	1888.5	3.9
20°-30°	3874.6	8.1
30°-40°	6518.9	13.5
40°-50°	9007.3	18.7
50°-60°	11243.8	23.4
60°-70°	10118.2	21.0
70°-80°	4241.4	8.8
80°-90°	741.0	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°	48117.0	100.0
0°-180°	48117.0	100.0

Coefficient of Utilization



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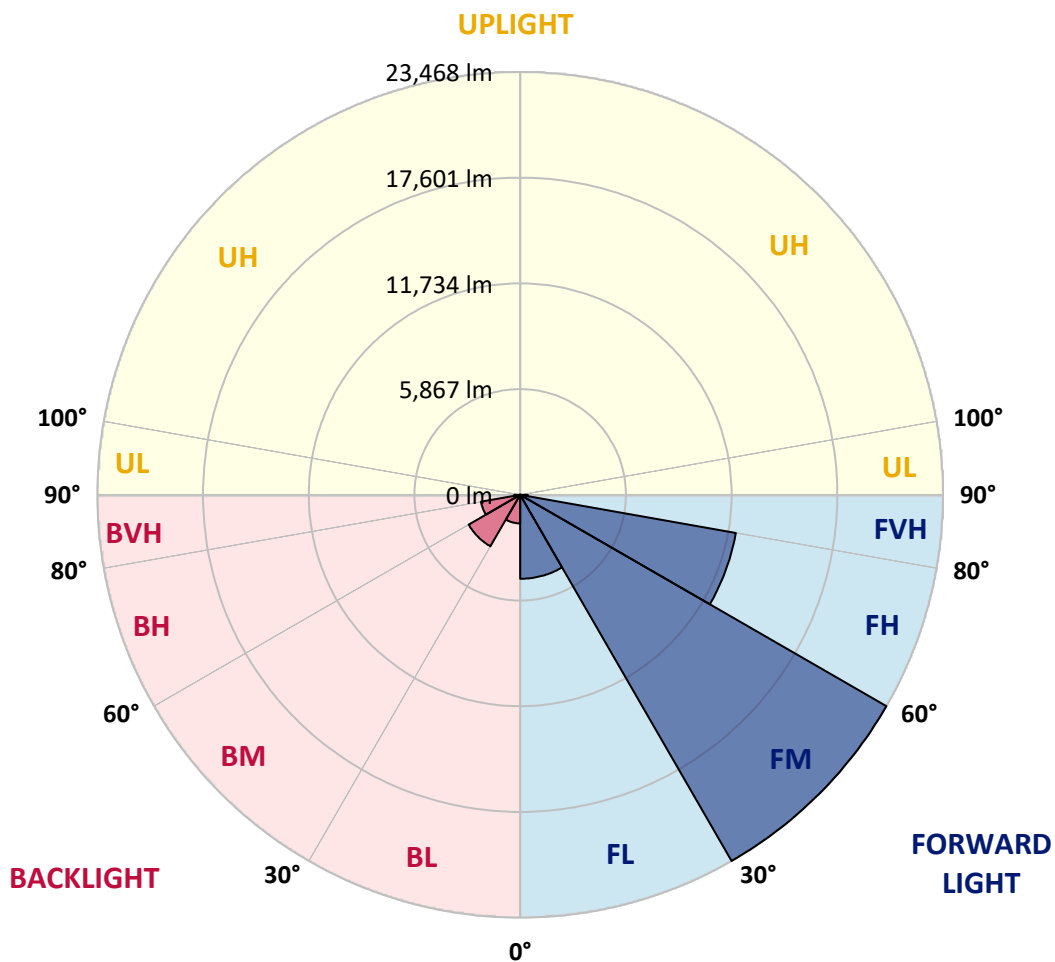
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4660.0	9.7			
FM (30°-60°)	23467.8	48.8			
FH (60°-80°)	12154.2	25.3			G5
FVH (80°-90°)	416.5	0.9			G3/500
BL (0°-30°)	1586.5	3.3	B3/2500		
BM (30°-60°)	3302.1	6.9	B3/5000		
BH (60°-80°)	2205.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	324.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4
2.5°	4964.9	4910.2	4923.9	4832.8	4721.2	4575.4	4413.7	4411.5	4413.7	4397.8	4338.6
5°	6884.8	6818.8	6793.7	6588.7	6288.1	5859.9	5395.3	5345.2	5324.7	5272.4	5151.7
7.5°	8285.5	8249.0	8210.3	8055.4	7782.1	7303.9	6679.8	6572.8	6470.3	6445.3	6308.6
10°	9189.6	9180.5	9098.5	9057.5	8886.7	8472.2	7864.1	7761.6	7650.0	7611.3	7467.8
12.5°	9904.7	9902.5	9863.7	9875.1	9727.1	9426.5	8902.7	8809.3	8727.3	8608.9	8506.4
15°	10399.0	10401.2	10458.2	10521.9	10499.2	10296.5	9804.5	9763.5	9692.9	9610.9	9490.2
17.5°	10804.3	10815.7	10874.9	10991.1	11116.4	11100.4	10711.0	10676.8	10615.3	10503.7	10440.0
20°	11719.9	11763.2	11649.3	11649.3	11663.0	11724.4	11537.7	11510.4	11423.8	11364.6	11314.5
22.5°	13266.3	13316.4	13059.0	12797.1	12539.8	12353.0	12166.3	12200.4	12141.2	12100.2	12070.6
25°	15275.0	15313.8	14897.0	14455.1	13931.3	13248.1	12785.8	12765.3	12733.4	12708.3	12694.7
27.5°	17165.3	17181.3	16787.3	16140.5	15532.4	14550.8	13414.3	13389.3	13350.6	13302.7	13261.7
30°	18782.3	18777.8	18372.4	17755.2	17103.8	16017.5	14368.6	14291.2	14177.3	14047.5	13947.3
32.5°	20183.0	20176.2	19732.1	19092.1	18408.8	17470.5	15675.9	15516.4	15338.8	15086.0	14933.4
35°	21285.3	21280.7	20861.7	20194.4	19410.9	18839.3	17174.4	16978.6	16753.1	16413.8	16179.2
37.5°	21702.1	21702.1	21467.5	21012.0	20319.6	19927.9	18839.3	18602.4	18361.0	17976.1	17711.9
40°	21458.4	21462.9	21513.0	21428.8	21091.7	20791.1	20392.5	20251.3	20044.1	19697.9	19422.3
42.5°	20640.8	20665.8	20998.3	21406.0	21574.5	21526.7	21770.4	21706.6	21560.9	21294.4	21075.8
45°	19604.5	19681.9	20046.3	20816.1	21708.9	22162.1	22925.1	22931.9	22904.6	22761.1	22592.6
47.5°	18181.1	18290.4	18771.0	19811.8	21394.6	22779.3	24098.0	24159.5	24216.4	24123.0	24045.6
50°	16290.8	16420.6	17140.3	18520.4	20754.6	23419.3	26314.0	26591.8	26851.4	26819.6	26871.9
52.5°	14266.1	14418.7	15300.1	16837.4	19654.6	23567.3	27730.6	28183.8	28637.0	29008.2	29402.2
55°	12439.6	12357.6	13239.0	14858.3	17846.3	22900.0	29003.7	29550.3	30055.9	30511.3	30980.5
57.5°	9964.0	10098.3	10982.0	12583.1	15452.7	21016.6	29880.5	30679.9	31406.4	32160.2	32825.3
60°	7283.4	7417.7	8376.6	10002.7	12854.1	18160.6	29210.9	30422.5	31586.3	32741.0	33642.9
62.5°	4397.8	4498.0	5343.0	6891.6	9911.6	14774.0	26227.4	27817.1	29529.8	30909.9	32292.3
65°	2737.5	2794.5	3106.5	3958.3	6365.5	11029.8	21428.8	23161.9	25006.7	26758.1	28195.2
67.5°	2241.0	2261.5	2318.5	2500.7	3495.9	7192.3	15949.2	17484.2	19149.0	20843.5	22442.3
70°	2015.6	2001.9	2001.9	2013.3	2241.0	3867.2	10442.2	11442.0	12829.0	14302.6	15764.7
72.5°	1819.7	1806.0	1781.0	1746.8	1828.8	2359.5	5397.6	6151.5	7151.3	8460.8	9861.5
75°	1635.2	1617.0	1587.4	1544.1	1601.1	1781.0	2591.8	2908.3	3395.7	4092.6	4873.8
77.5°	1443.9	1421.1	1393.8	1361.9	1434.8	1384.7	1519.1	1633.0	1819.7	2042.9	2336.7
80°	1227.6	1207.1	1198.0	1182.0	1268.6	1054.5	1072.7	1143.3	1252.6	1373.3	1510.0
82.5°	961.1	961.1	997.5	1004.4	1100.0	758.4	801.7	863.2	920.1	983.9	1047.6
85°	633.1	637.7	760.7	808.5	867.7	510.2	601.3	621.8	667.3	703.7	731.1
87.5°	198.1	214.1	464.6	514.7	498.8	289.2	369.0	378.1	409.9	435.0	457.8
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°	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4
2.5°	4338.6	4311.3	4286.2	4283.9	4265.7	4240.7	4249.8	4211.1	4213.3	4192.8	4170.1
5°	5101.5	5083.3	4992.2	4967.2	4898.9	4855.6	4848.7	4757.6	4746.3	4693.9	4636.9
7.5°	6199.3	6140.1	6012.5	5951.0	5834.9	5748.3	5707.4	5586.6	5527.4	5390.8	5329.3
10°	7349.4	7274.3	7117.1	7030.6	6919.0	6780.0	6704.9	6529.5	6461.2	6335.9	6185.6
12.5°	8415.3	8340.1	8178.4	8112.4	7964.3	7816.3	7734.3	7536.2	7447.3	7246.9	7128.5
15°	9401.4	9326.3	9185.1	9116.7	8968.7	8848.0	8738.7	8542.8	8438.0	8251.3	8096.4
17.5°	10358.0	10278.3	10155.3	10093.8	9950.3	9827.3	9708.9	9524.4	9417.4	9230.6	9091.7
20°	11246.2	11187.0	11098.1	11016.2	10872.7	10761.1	10619.9	10460.4	10305.6	10168.9	10036.8
22.5°	12020.5	11997.7	11902.1	11865.7	11742.7	11647.0	11524.0	11366.9	11255.3	11082.2	10959.2
25°	12687.8	12681.0	12635.4	12624.1	12537.5	12446.4	12419.1	12289.3	12186.8	12034.2	11906.6
27.5°	13261.7	13268.6	13257.2	13289.1	13266.3	13225.3	13227.6	13184.3	13125.1	12997.6	12886.0
30°	13899.4	13863.0	13883.5	13929.0	13942.7	13947.3	14022.4	14047.5	14042.9	13958.7	13904.0
32.5°	14801.3	14714.8	14635.1	14628.2	14673.8	14692.0	14819.5	14885.6	14942.5	14963.0	14972.1
35°	15951.4	15778.4	15612.1	15523.3	15445.8	15466.3	15557.4	15664.5	15789.7	15876.3	15978.8
37.5°	17399.9	17188.1	16894.3	16684.8	16632.4	16518.5	16577.7	16662.0	16785.0	16919.4	17097.0
40°	19155.9	18834.7	18504.5	18226.6	18076.3	17866.8	17864.5	17848.6	17923.7	18049.0	18299.5
42.5°	20845.7	20561.1	20210.3	19918.8	19722.9	19442.8	19385.9	19237.8	19272.0	19381.3	19625.0
45°	22428.6	22194.0	21979.9	21642.9	21476.6	21173.7	21078.0	20902.7	20804.7	20854.8	21098.5
47.5°	23961.3	23811.0	23587.8	23369.2	23241.6	22970.6	22847.6	22722.4	22597.1	22592.6	22847.6
50°	26949.4	26869.7	26605.5	26377.7	26439.2	26106.7	26127.2	25790.1	25942.7	25961.0	26496.2
52.5°	29757.5	30035.4	30231.2	30470.4	30625.2	30654.8	30757.3	30909.9	31094.4	31458.8	31955.3
55°	31365.4	31713.9	31916.6	32098.7	32399.4	32463.1	32634.0	32836.7	32998.4	33408.3	33829.6
57.5°	33276.2	33923.0	34237.3	34526.5	34931.9	35086.8	35371.5	35592.4	35801.9	36287.0	36797.2
60°	34453.7	35241.7	35881.6	36339.4	36847.3	37211.7	37642.1	37988.3	38480.2	39061.0	39821.7
62.5°	33517.6	34674.6	35524.1	36309.8	36999.9	37696.8	38314.0	38960.8	39707.8	40586.9	41766.6
65°	29789.4	30966.8	32422.2	33237.5	34150.8	35225.7	36164.0	37211.7	38229.7	39509.7	41254.2
67.5°	23981.8	25350.6	26985.8	27808.0	28857.9	30058.1	31110.3	32390.3	33579.1	35130.1	37286.8
70°	17286.0	19055.6	20431.2	21289.8	22515.1	23751.8	24767.6	26257.0	27240.9	28830.6	31060.2
72.5°	10945.6	12341.6	14027.0	15108.8	16197.4	17450.0	18488.6	19773.0	20690.9	22139.3	24159.5
75°	5885.0	6914.4	8394.8	9421.9	10588.0	11658.4	12874.6	13735.5	14414.1	15559.7	17199.5
77.5°	2758.0	3384.3	4133.6	4923.9	5714.2	6538.6	7340.3	8037.2	8328.7	8984.6	9952.6
80°	1673.9	1876.6	2095.3	2339.0	2669.2	2935.7	3288.7	3543.8	3562.0	3769.2	4065.3
82.5°	1118.2	1193.4	1259.4	1320.9	1405.2	1471.2	1546.4	1635.2	1671.7	1719.5	1815.1
85°	763.0	799.4	813.1	851.8	842.7	865.4	895.0	924.7	940.6	938.3	981.6
87.5°	469.2	487.4	496.5	505.6	498.8	489.7	503.3	519.3	523.8	510.2	514.7
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°	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4
2.5°	4174.6	4154.1	4133.6	4120.0	4115.4	3994.7	3942.3	3908.1	3835.3	3776.1	3728.2
5°	4605.1	4561.8	4527.6	4486.6	4463.9	4158.7	4047.1	3969.6	3842.1	3766.9	3698.6
7.5°	5297.4	5176.7	5106.1	5026.4	4958.1	4406.9	4222.4	4101.7	3924.1	3823.9	3746.4
10°	6083.1	5957.9	5846.3	5723.3	5616.3	4737.2	4468.4	4281.7	4047.1	3917.3	3814.8
12.5°	6960.0	6837.0	6695.8	6538.6	6402.0	5156.2	4782.7	4516.2	4195.1	4022.0	3878.5
15°	7996.2	7779.9	7609.0	7426.8	7267.4	5657.3	5149.4	4780.4	4352.3	4117.7	3926.4
17.5°	8959.6	8731.8	8499.5	8340.1	8155.6	6219.8	5518.3	5049.2	4482.1	4179.2	3935.5
20°	9900.2	9651.9	9451.5	9237.4	9043.9	6802.8	5912.3	5286.0	4566.3	4181.4	3878.5
22.5°	10729.2	10574.3	10351.1	10118.8	9923.0	7385.9	6281.3	5486.4	4598.2	4129.1	3778.3
25°	11672.1	11508.1	11234.8	11038.9	10820.3	7980.3	6643.4	5641.3	4580.0	4031.1	3623.5
27.5°	12678.7	12496.5	12216.4	12011.4	11747.2	8597.5	6975.9	5752.9	4511.7	3871.7	3416.2
30°	13728.6	13562.4	13286.8	13079.5	12813.1	9251.1	7347.1	5828.1	4375.0	3650.8	3174.8
32.5°	14856.0	14717.1	14443.8	14227.4	13942.7	9959.4	7693.3	5850.8	4167.8	3388.9	2919.7
35°	15926.4	15830.7	15600.7	15398.0	15101.9	10629.0	8060.0	5839.4	3921.8	3101.9	2687.4
37.5°	17131.2	17074.2	16960.4	16703.0	16340.9	11537.7	8499.5	5791.6	3621.2	2817.2	2509.8
40°	18415.7	18420.2	18297.2	18121.9	17784.8	12640.0	9023.4	5698.2	3293.2	2566.7	2348.1
42.5°	19775.3	19845.9	19786.7	19661.5	19338.1	13751.4	9649.7	5584.4	2974.4	2323.0	2188.7
45°	21333.1	21419.7	21510.8	21326.3	21012.0	15218.1	10474.1	5436.3	2630.5	2120.3	2079.3
47.5°	23130.0	23266.7	23348.7	23351.0	23036.7	17035.5	11813.3	5347.5	2325.3	1983.7	2027.0
50°	26922.0	26965.3	27158.9	27496.0	27254.6	21242.0	14152.2	5292.9	2118.1	1899.4	1988.2
52.5°	32385.7	32861.7	33196.5	33173.7	32845.8	23913.5	15441.3	5010.4	1995.1	1867.5	1970.0
55°	34610.8	35205.2	35824.7	35988.7	35733.6	26193.3	16659.7	4728.0	1935.9	1890.3	1976.8
57.5°	37576.1	38578.2	39427.7	39785.2	39416.3	29110.7	18263.1	4580.0	1917.6	1951.8	2020.1
60°	41040.1	42279.1	43395.0	44037.3	44037.3	32463.1	19925.6	4518.5	1892.6	2042.9	2093.0
62.5°	43265.2	45084.9	46770.3	47710.8	47683.5	34797.6	20663.5	4309.0	1835.6	2106.7	2193.2
65°	43274.3	45437.9	47585.6	48642.3	48697.0	34510.6	19445.1	3805.7	1730.9	2115.8	2293.4
67.5°	39666.8	41973.9	44476.8	45658.8	45932.1	31768.5	16832.8	3129.3	1560.1	2024.7	2329.9
70°	33501.7	35754.1	38309.4	39470.9	39956.0	27081.5	13557.8	2411.8	1341.4	1824.3	2254.7
72.5°	26393.7	28602.8	30381.5	31231.0	31609.1	20700.0	9872.9	1822.0	1100.0	1537.3	2052.0
75°	18686.7	20344.7	21289.8	21478.9	21538.1	12478.3	5998.9	1355.1	906.4	1195.7	1733.2
77.5°	10547.0	11257.6	11180.1	11264.4	10562.9	4816.9	2612.3	970.2	747.0	908.7	1343.7
80°	4117.7	4245.2	3987.9	3908.1	3584.7	1792.4	1152.4	676.4	596.7	687.8	940.6
82.5°	1815.1	1874.4	1819.7	1833.4	1753.7	924.7	690.1	489.7	455.5	503.3	624.0
85°	999.8	1018.0	1013.5	1043.1	999.8	369.0	328.0	300.6	318.8	341.6	400.8
87.5°	487.4	491.9	476.0	501.0	485.1	186.8	161.7	170.8	186.8	191.3	191.3
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°	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4
2.5°	3694.1	3675.8	3678.1	3673.6	3664.5	3664.5
5°	3662.2	3644.0	3644.0	3639.4	3628.0	3630.3
7.5°	3694.1	3664.5	3653.1	3637.1	3621.2	3621.2
10°	3730.5	3678.1	3646.2	3618.9	3598.4	3598.4
12.5°	3757.8	3675.8	3623.5	3587.0	3566.5	3566.5
15°	3766.9	3659.9	3587.0	3543.8	3525.5	3523.3
17.5°	3737.3	3598.4	3509.6	3459.5	3436.7	3429.9
20°	3646.2	3486.8	3379.8	3322.8	3291.0	3279.6
22.5°	3509.6	3327.4	3202.1	3142.9	3101.9	3095.1
25°	3318.3	3122.4	2999.4	2942.5	2919.7	2912.9
27.5°	3095.1	2912.9	2808.1	2771.7	2751.2	2748.9
30°	2883.3	2728.4	2651.0	2623.7	2598.6	2594.0
32.5°	2685.1	2587.2	2557.6	2518.9	2459.7	2452.8
35°	2543.9	2534.8	2514.3	2427.8	2354.9	2334.4
37.5°	2457.4	2541.7	2436.9	2266.1	2213.7	2209.2
40°	2407.3	2471.1	2291.1	2231.9	2236.5	2231.9
42.5°	2293.4	2359.5	2295.7	2268.4	2286.6	2291.1
45°	2179.5	2252.4	2329.9	2311.6	2354.9	2354.9
47.5°	2115.8	2225.1	2327.6	2327.6	2391.4	2414.1
50°	2042.9	2202.3	2291.1	2323.0	2373.1	2354.9
52.5°	2038.3	2163.6	2238.8	2295.7	2318.5	2298.0
55°	2045.2	2131.7	2186.4	2250.1	2277.5	2279.8
57.5°	2054.3	2113.5	2149.9	2179.5	2261.5	2261.5
60°	2077.1	2097.6	2118.1	2134.0	2241.0	2243.3
62.5°	2113.5	2081.6	2077.1	2093.0	2229.6	2220.5
65°	2170.4	2058.8	2024.7	2040.6	2218.3	2190.9
67.5°	2247.9	2024.7	1958.6	1970.0	2209.2	2149.9
70°	2318.5	1970.0	1876.6	1865.3	2122.6	2017.8
72.5°	2325.3	1906.2	1762.8	1728.6	1844.8	1744.5
75°	2211.4	1863.0	1637.5	1537.3	1523.6	1510.0
77.5°	1992.8	1837.9	1491.7	1334.6	1307.3	1316.4
80°	1667.1	1744.5	1316.4	1129.6	1277.7	1261.7
82.5°	1245.8	1539.6	1118.2	999.8	997.5	881.4
85°	692.4	1200.2	911.0	749.3	521.5	505.6
87.5°	193.6	667.3	637.7	423.6	289.2	300.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)