

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: P194731

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194731
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-03-LED-E1-T2R-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 12474 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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

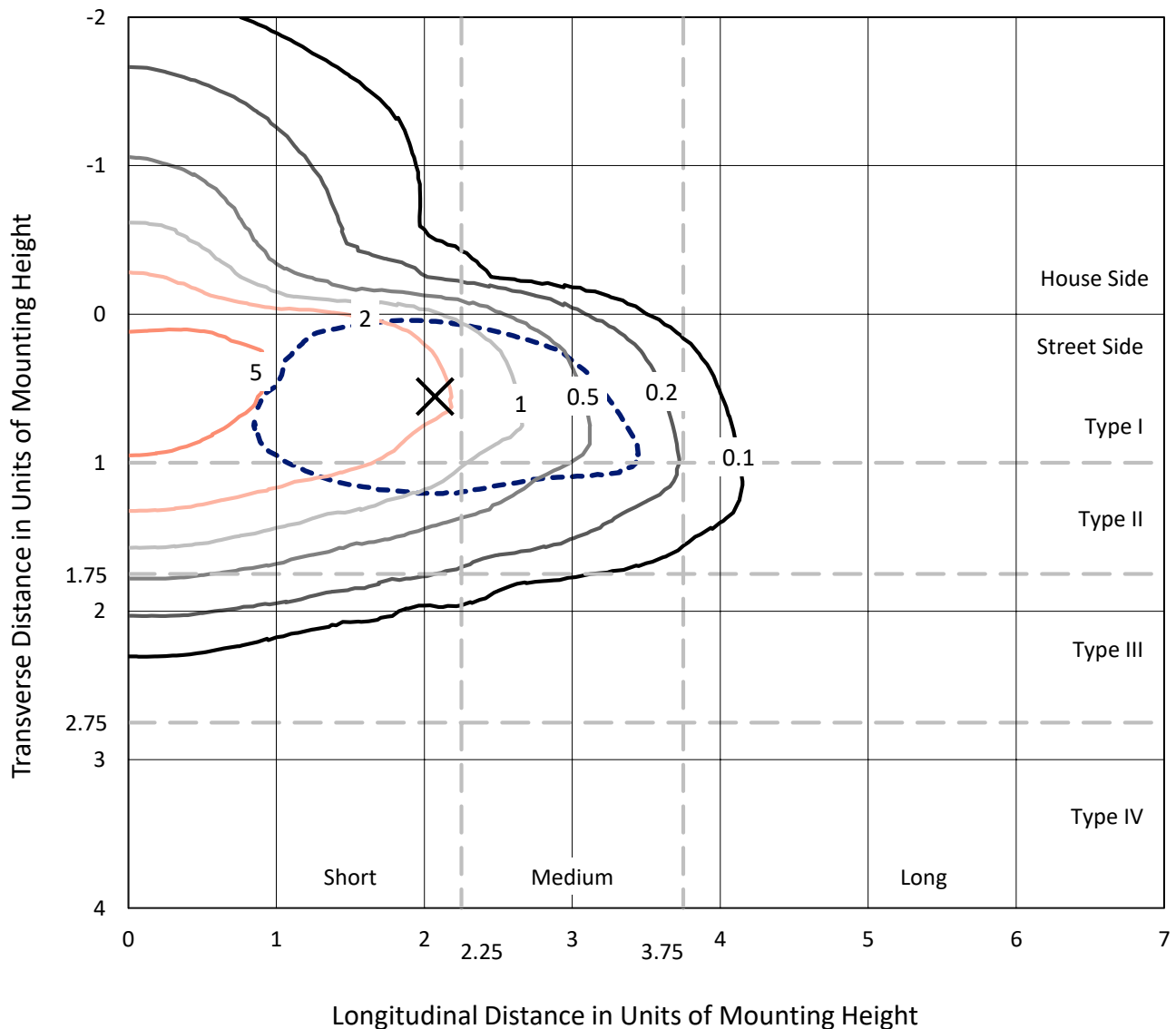


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

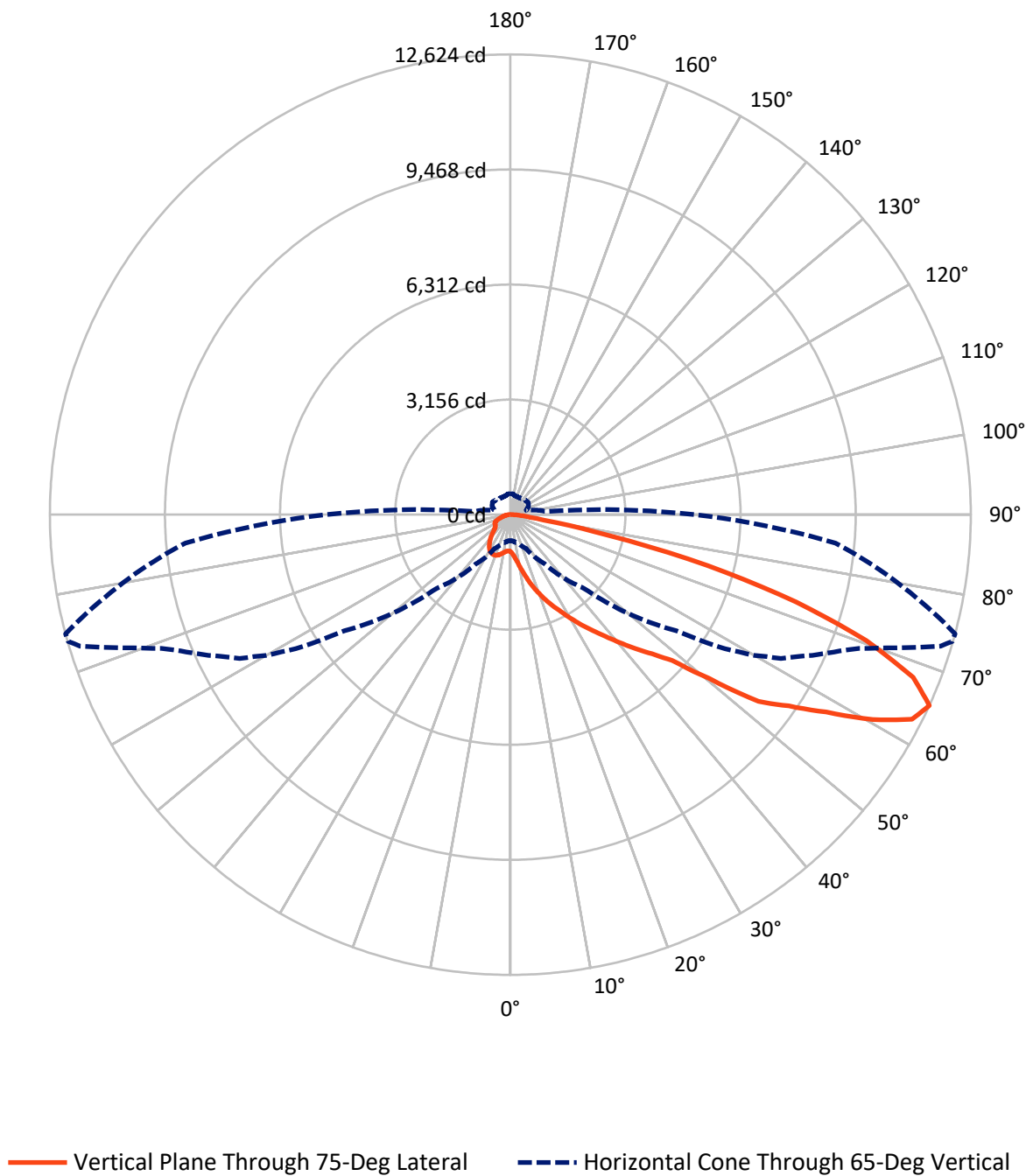


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.2	0.0	1923.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10550.8	0.0	10550.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	12474.0	0.0	12474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	1.0
10°-20°	489.6	3.9
20°-30°	1004.5	8.1
30°-40°	1690.0	13.5
40°-50°	2335.1	18.7
50°-60°	2914.9	23.4
60°-70°	2623.1	21.0
70°-80°	1099.6	8.8
80°-90°	192.1	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°	12474.0	100.0
0°-180°	12474.0	100.0

Coefficient of Utilization



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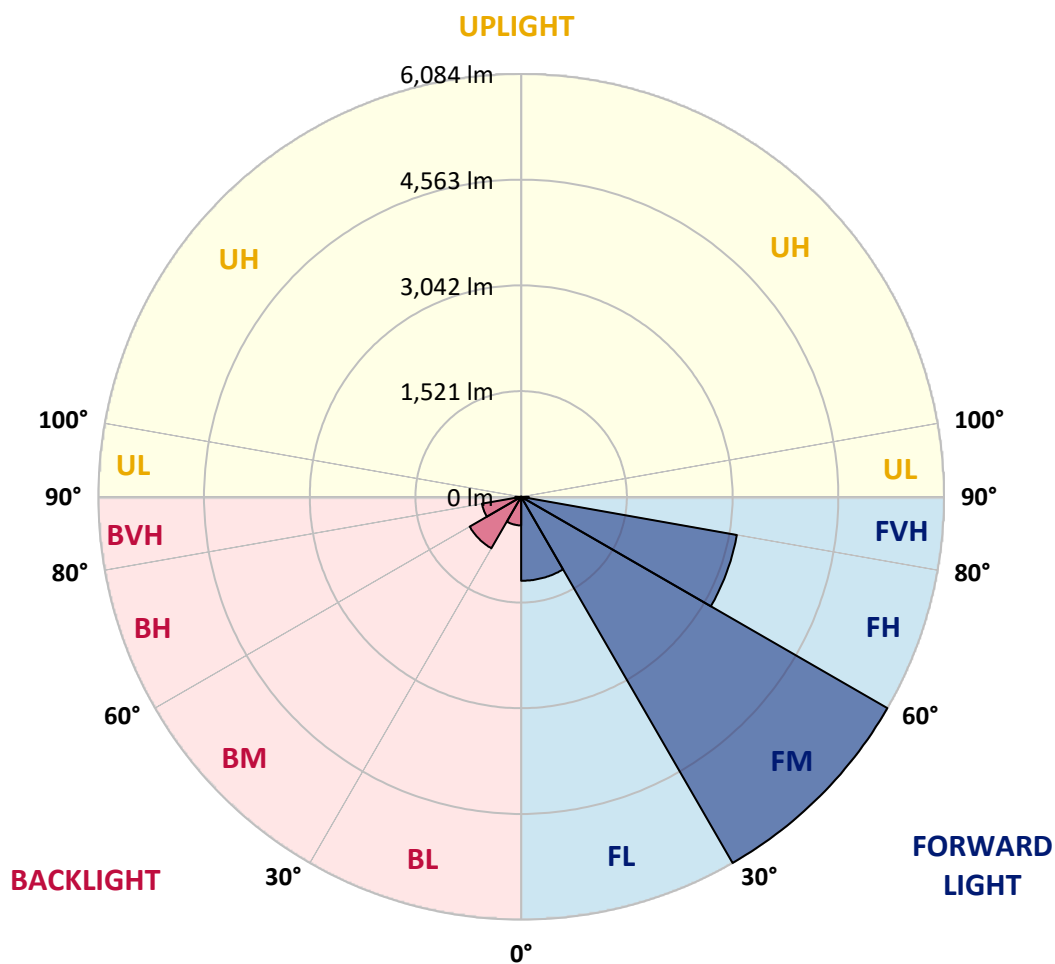
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1208.1	9.7			
FM	(30°-60°)	6083.9	48.8			
FH	(60°-80°)	3150.9	25.3			G2/5000
FVH	(80°-90°)	108.0	0.9			G2/225
BL	(0°-30°)	411.3	3.3	B1/500		
BM	(30°-60°)	856.0	6.9	B1/1000		
BH	(60°-80°)	571.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	84.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1287.1	1272.9	1276.5	1252.9	1223.9	1186.2	1144.2	1143.6	1144.2	1140.1	1124.8
5°	1784.8	1767.7	1761.2	1708.1	1630.1	1519.2	1398.7	1385.7	1380.4	1366.8	1335.5
7.5°	2147.9	2138.5	2128.5	2088.3	2017.5	1893.5	1731.7	1704.0	1677.4	1670.9	1635.5
10°	2382.3	2380.0	2358.7	2348.1	2303.8	2196.4	2038.7	2012.2	1983.2	1973.2	1936.0
12.5°	2567.7	2567.1	2557.1	2560.1	2521.7	2443.7	2308.0	2283.7	2262.5	2231.8	2205.2
15°	2695.9	2696.4	2711.2	2727.7	2721.8	2669.3	2541.8	2531.1	2512.8	2491.6	2460.3
17.5°	2801.0	2803.9	2819.3	2849.4	2881.8	2877.7	2776.7	2767.9	2751.9	2723.0	2706.5
20°	3038.3	3049.5	3020.0	3020.0	3023.5	3039.5	2991.1	2984.0	2961.5	2946.2	2933.2
22.5°	3439.2	3452.2	3385.5	3317.6	3250.9	3202.4	3154.0	3162.9	3147.5	3136.9	3129.2
25°	3959.9	3970.0	3861.9	3747.4	3611.6	3434.5	3314.6	3309.3	3301.0	3294.5	3291.0
27.5°	4450.0	4454.1	4352.0	4184.3	4026.7	3772.2	3477.6	3471.1	3461.0	3448.6	3438.0
30°	4869.2	4868.0	4762.9	4602.9	4434.1	4152.4	3725.0	3704.9	3675.4	3641.7	3615.7
32.5°	5232.3	5230.5	5115.4	4949.5	4772.4	4529.1	4063.9	4022.5	3976.5	3910.9	3871.4
35°	5518.1	5516.9	5408.2	5235.3	5032.1	4884.0	4452.4	4401.6	4343.1	4255.2	4194.3
37.5°	5626.1	5626.1	5565.3	5447.2	5267.7	5166.2	4884.0	4822.6	4760.0	4660.2	4591.7
40°	5562.9	5564.1	5577.1	5555.3	5467.9	5389.9	5286.6	5250.0	5196.3	5106.5	5035.1
42.5°	5351.0	5357.5	5443.7	5549.4	5593.0	5580.6	5643.8	5627.3	5589.5	5520.4	5463.7
45°	5082.3	5102.4	5196.9	5396.4	5627.9	5745.4	5943.2	5944.9	5937.9	5900.7	5857.0
47.5°	4713.3	4741.7	4866.2	5136.1	5546.4	5905.4	6247.2	6263.2	6277.9	6253.7	6233.7
50°	4223.3	4256.9	4443.5	4801.3	5380.5	6071.3	6821.7	6893.7	6961.1	6952.8	6966.4
52.5°	3698.4	3737.9	3966.4	4365.0	5095.3	6109.7	7189.0	7306.4	7423.9	7520.2	7622.3
55°	3224.9	3203.6	3432.1	3851.9	4626.5	5936.7	7519.0	7660.7	7791.8	7909.9	8031.5
57.5°	2583.1	2617.9	2847.0	3262.1	4006.0	5448.4	7746.3	7953.5	8141.9	8337.3	8509.7
60°	1888.2	1923.0	2171.6	2593.1	3332.3	4708.0	7572.7	7886.8	8188.5	8487.9	8721.7
62.5°	1140.1	1166.1	1385.1	1786.6	2569.5	3830.1	6799.3	7211.4	7655.4	8013.2	8371.6
65°	709.7	724.4	805.3	1026.1	1650.2	2859.4	5555.3	6004.6	6482.8	6936.8	7309.4
67.5°	581.0	586.3	601.0	648.3	906.3	1864.5	4134.7	4532.7	4964.3	5403.5	5818.0
70°	522.5	519.0	519.0	521.9	581.0	1002.5	2707.1	2966.3	3325.8	3707.8	4086.9
72.5°	471.7	468.2	461.7	452.9	474.1	611.7	1399.3	1594.7	1853.9	2193.4	2556.5
75°	423.9	419.2	411.5	400.3	415.1	461.7	671.9	754.0	880.3	1061.0	1263.5
77.5°	374.3	368.4	361.3	353.1	372.0	359.0	393.8	423.3	471.7	529.6	605.8
80°	318.2	312.9	310.6	306.4	328.9	273.4	278.1	296.4	324.7	356.0	391.4
82.5°	249.2	249.2	258.6	260.4	285.2	196.6	207.8	223.8	238.5	255.1	271.6
85°	164.1	165.3	197.2	209.6	225.0	132.3	155.9	161.2	173.0	182.4	189.5
87.5°	51.4	55.5	120.4	133.4	129.3	75.0	95.6	98.0	106.3	112.8	118.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1124.8	1117.7	1111.2	1110.6	1105.9	1099.4	1101.7	1091.7	1092.3	1087.0	1081.1
5°	1322.5	1317.8	1294.2	1287.7	1270.0	1258.8	1257.0	1233.4	1230.4	1216.9	1202.1
7.5°	1607.1	1591.8	1558.7	1542.8	1512.7	1490.2	1479.6	1448.3	1432.9	1397.5	1381.6
10°	1905.3	1885.8	1845.1	1822.6	1793.7	1757.7	1738.2	1692.7	1675.0	1642.5	1603.6
12.5°	2181.6	2162.1	2120.2	2103.1	2064.7	2026.3	2005.1	1953.7	1930.7	1878.7	1848.0
15°	2437.3	2417.8	2381.2	2363.5	2325.1	2293.8	2265.4	2214.7	2187.5	2139.1	2098.9
17.5°	2685.2	2664.6	2632.7	2616.7	2579.5	2547.7	2517.0	2469.1	2441.4	2393.0	2357.0
20°	2915.5	2900.1	2877.1	2855.9	2818.7	2789.7	2753.1	2711.8	2671.7	2636.2	2602.0
22.5°	3116.2	3110.3	3085.5	3076.1	3044.2	3019.4	2987.5	2946.8	2917.9	2873.0	2841.1
25°	3289.2	3287.5	3275.7	3272.7	3250.3	3226.6	3219.6	3185.9	3159.3	3119.8	3086.7
27.5°	3438.0	3439.8	3436.8	3445.1	3439.2	3428.6	3429.2	3417.9	3402.6	3369.5	3340.6
30°	3603.3	3593.9	3599.2	3611.0	3614.6	3615.7	3635.2	3641.7	3640.5	3618.7	3604.5
32.5°	3837.1	3814.7	3794.0	3792.3	3804.1	3808.8	3841.9	3859.0	3873.7	3879.1	3881.4
35°	4135.3	4090.4	4047.3	4024.3	4004.2	4009.5	4033.2	4060.9	4093.4	4115.8	4142.4
37.5°	4510.8	4455.9	4379.7	4325.4	4311.8	4282.3	4297.7	4319.5	4351.4	4386.2	4432.3
40°	4966.0	4882.8	4797.2	4725.1	4686.2	4631.8	4631.3	4627.1	4646.6	4679.1	4744.0
42.5°	5404.1	5330.3	5239.4	5163.8	5113.0	5040.4	5025.7	4987.3	4996.1	5024.5	5087.6
45°	5814.5	5753.6	5698.1	5610.8	5567.7	5489.1	5464.3	5418.9	5393.5	5406.5	5469.7
47.5°	6211.8	6172.8	6115.0	6058.3	6025.2	5955.0	5923.1	5890.6	5858.1	5857.0	5923.1
50°	6986.4	6965.8	6897.3	6838.2	6854.2	6768.0	6773.3	6685.9	6725.5	6730.2	6868.9
52.5°	7714.4	7786.5	7837.2	7899.2	7939.4	7947.1	7973.6	8013.2	8061.0	8155.5	8284.2
55°	8131.3	8221.6	8274.1	8321.4	8399.3	8415.8	8460.1	8512.7	8554.6	8660.9	8770.1
57.5°	8626.6	8794.3	8875.8	8950.8	9055.9	9096.0	9169.8	9227.1	9281.4	9407.2	9539.4
60°	8931.9	9136.2	9302.1	9420.7	9552.4	9646.9	9758.5	9848.2	9975.7	10126.3	10323.5
62.5°	8689.2	8989.1	9209.4	9413.1	9592.0	9772.6	9932.6	10100.3	10294.0	10521.9	10827.7
65°	7722.7	8027.9	8405.2	8616.6	8853.3	9132.0	9375.3	9646.9	9910.8	10242.6	10694.9
67.5°	6217.1	6572.0	6995.9	7209.0	7481.2	7792.4	8065.1	8397.0	8705.2	9107.2	9666.4
70°	4481.3	4940.0	5296.7	5519.2	5836.9	6157.5	6420.8	6807.0	7062.0	7474.1	8052.1
72.5°	2837.6	3199.5	3636.4	3916.8	4199.1	4523.8	4793.0	5126.0	5364.0	5739.5	6263.2
75°	1525.6	1792.5	2176.3	2442.6	2744.9	3022.4	3337.6	3560.8	3736.8	4033.7	4458.9
77.5°	715.0	877.4	1071.6	1276.5	1481.4	1695.1	1902.9	2083.6	2159.2	2329.2	2580.1
80°	434.0	486.5	543.2	606.4	692.0	761.1	852.6	918.7	923.4	977.1	1053.9
82.5°	289.9	309.4	326.5	342.4	364.3	381.4	400.9	423.9	433.4	445.8	470.6
85°	197.8	207.2	210.8	220.8	218.5	224.4	232.0	239.7	243.8	243.3	254.5
87.5°	121.6	126.3	128.7	131.1	129.3	126.9	130.5	134.6	135.8	132.3	133.4
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°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1082.2	1076.9	1071.6	1068.1	1066.9	1035.6	1022.0	1013.2	994.3	978.9	966.5
5°	1193.8	1182.6	1173.8	1163.1	1157.2	1078.1	1049.2	1029.1	996.0	976.6	958.8
7.5°	1373.3	1342.0	1323.7	1303.1	1285.3	1142.5	1094.6	1063.3	1017.3	991.3	971.2
10°	1577.0	1544.5	1515.6	1483.7	1456.0	1228.1	1158.4	1110.0	1049.2	1015.5	989.0
12.5°	1804.3	1772.4	1735.8	1695.1	1659.7	1336.7	1239.9	1170.8	1087.6	1042.7	1005.5
15°	2073.0	2016.9	1972.6	1925.4	1884.0	1466.6	1334.9	1239.3	1128.3	1067.5	1017.9
17.5°	2322.7	2263.7	2203.4	2162.1	2114.3	1612.4	1430.6	1309.0	1161.9	1083.4	1020.2
20°	2566.6	2502.2	2450.2	2394.7	2344.6	1763.6	1532.7	1370.4	1183.8	1084.0	1005.5
22.5°	2781.5	2741.3	2683.5	2623.2	2572.5	1914.7	1628.4	1422.3	1192.1	1070.4	979.5
25°	3025.9	2983.4	2912.5	2861.8	2805.1	2068.8	1722.3	1462.5	1187.3	1045.0	939.4
27.5°	3286.9	3239.6	3167.0	3113.9	3045.4	2228.8	1808.5	1491.4	1169.6	1003.7	885.6
30°	3559.1	3516.0	3444.5	3390.8	3321.7	2398.3	1904.7	1510.9	1134.2	946.4	823.0
32.5°	3851.3	3815.3	3744.4	3688.4	3614.6	2581.9	1994.4	1516.8	1080.5	878.5	756.9
35°	4128.8	4104.0	4044.4	3991.8	3915.1	2755.5	2089.5	1513.8	1016.7	804.2	696.7
37.5°	4441.1	4426.4	4396.9	4330.1	4236.3	2991.1	2203.4	1501.4	938.8	730.3	650.6
40°	4774.1	4775.3	4743.4	4698.0	4610.6	3276.8	2339.2	1477.2	853.7	665.4	608.7
42.5°	5126.6	5144.9	5129.6	5097.1	5013.3	3565.0	2501.6	1447.7	771.1	602.2	567.4
45°	5530.5	5552.9	5576.5	5528.7	5447.2	3945.2	2715.3	1409.3	681.9	549.7	539.1
47.5°	5996.3	6031.7	6053.0	6053.6	5972.1	4416.3	3062.5	1386.3	602.8	514.3	525.5
50°	6979.4	6990.6	7040.8	7128.1	7065.6	5506.8	3668.9	1372.1	549.1	492.4	515.4
52.5°	8395.8	8519.2	8606.0	8600.1	8515.0	6199.4	4003.0	1298.9	517.2	484.1	510.7
55°	8972.6	9126.7	9287.3	9329.8	9263.7	6790.4	4318.9	1225.7	501.9	490.0	512.5
57.5°	9741.3	10001.1	10221.4	10314.0	10218.4	7546.7	4734.6	1187.3	497.1	506.0	523.7
60°	10639.4	10960.6	11249.9	11416.4	11416.4	8415.8	5165.6	1171.4	490.6	529.6	542.6
62.5°	11216.2	11688.0	12124.9	12368.7	12361.6	9021.0	5356.9	1117.1	475.9	546.1	568.6
65°	11218.6	11779.5	12336.2	12610.2	12624.4	8946.6	5041.0	986.6	448.7	548.5	594.6
67.5°	10283.3	10881.4	11530.3	11836.7	11907.6	8235.8	4363.8	811.2	404.4	524.9	604.0
70°	8685.1	9269.0	9931.5	10232.6	10358.3	7020.7	3514.8	625.3	347.8	472.9	584.5
72.5°	6842.4	7415.1	7876.2	8096.4	8194.4	5366.3	2559.5	472.3	285.2	398.5	532.0
75°	4844.4	5274.2	5519.2	5568.3	5583.6	3234.9	1555.2	351.3	235.0	310.0	449.3
77.5°	2734.2	2918.4	2898.4	2920.2	2738.4	1248.7	677.2	251.5	193.7	235.6	348.3
80°	1067.5	1100.5	1033.8	1013.2	929.3	464.7	298.8	175.4	154.7	178.3	243.8
82.5°	470.6	485.9	471.7	475.3	454.6	239.7	178.9	126.9	118.1	130.5	161.8
85°	259.2	263.9	262.7	270.4	259.2	95.6	85.0	77.9	82.7	88.6	103.9
87.5°	126.3	127.5	123.4	129.9	125.8	48.4	41.9	44.3	48.4	49.6	49.6
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°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	957.7	952.9	953.5	952.3	950.0	950.0
5°	949.4	944.7	944.7	943.5	940.5	941.1
7.5°	957.7	950.0	947.0	942.9	938.8	938.8
10°	967.1	953.5	945.3	938.2	932.9	932.9
12.5°	974.2	952.9	939.4	929.9	924.6	924.6
15°	976.6	948.8	929.9	918.7	914.0	913.4
17.5°	968.9	932.9	909.8	896.8	890.9	889.2
20°	945.3	903.9	876.2	861.4	853.2	850.2
22.5°	909.8	862.6	830.1	814.8	804.2	802.4
25°	860.2	809.5	777.6	762.8	756.9	755.1
27.5°	802.4	755.1	728.0	718.5	713.2	712.6
30°	747.5	707.3	687.2	680.2	673.7	672.5
32.5°	696.1	670.7	663.0	653.0	637.7	635.9
35°	659.5	657.1	651.8	629.4	610.5	605.2
37.5°	637.1	658.9	631.7	587.5	573.9	572.7
40°	624.1	640.6	594.0	578.6	579.8	578.6
42.5°	594.6	611.7	595.1	588.1	592.8	594.0
45°	565.0	583.9	604.0	599.3	610.5	610.5
47.5°	548.5	576.8	603.4	603.4	619.9	625.8
50°	529.6	570.9	594.0	602.2	615.2	610.5
52.5°	528.4	560.9	580.4	595.1	601.0	595.7
55°	530.2	552.6	566.8	583.3	590.4	591.0
57.5°	532.6	547.9	557.4	565.0	586.3	586.3
60°	538.5	543.8	549.1	553.2	581.0	581.6
62.5°	547.9	539.6	538.5	542.6	578.0	575.7
65°	562.7	533.7	524.9	529.0	575.1	568.0
67.5°	582.7	524.9	507.8	510.7	572.7	557.4
70°	601.0	510.7	486.5	483.6	550.3	523.1
72.5°	602.8	494.2	457.0	448.1	478.2	452.3
75°	573.3	483.0	424.5	398.5	395.0	391.4
77.5°	516.6	476.5	386.7	346.0	338.9	341.3
80°	432.2	452.3	341.3	292.8	331.2	327.1
82.5°	323.0	399.1	289.9	259.2	258.6	228.5
85°	179.5	311.2	236.2	194.2	135.2	131.1
87.5°	50.2	173.0	165.3	109.8	75.0	77.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)