

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: P200026

Luminaire Tested: **GWC-AF-02-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200026
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: GWC-AF-02-LED-E1-T2R-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 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: 13497.9 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

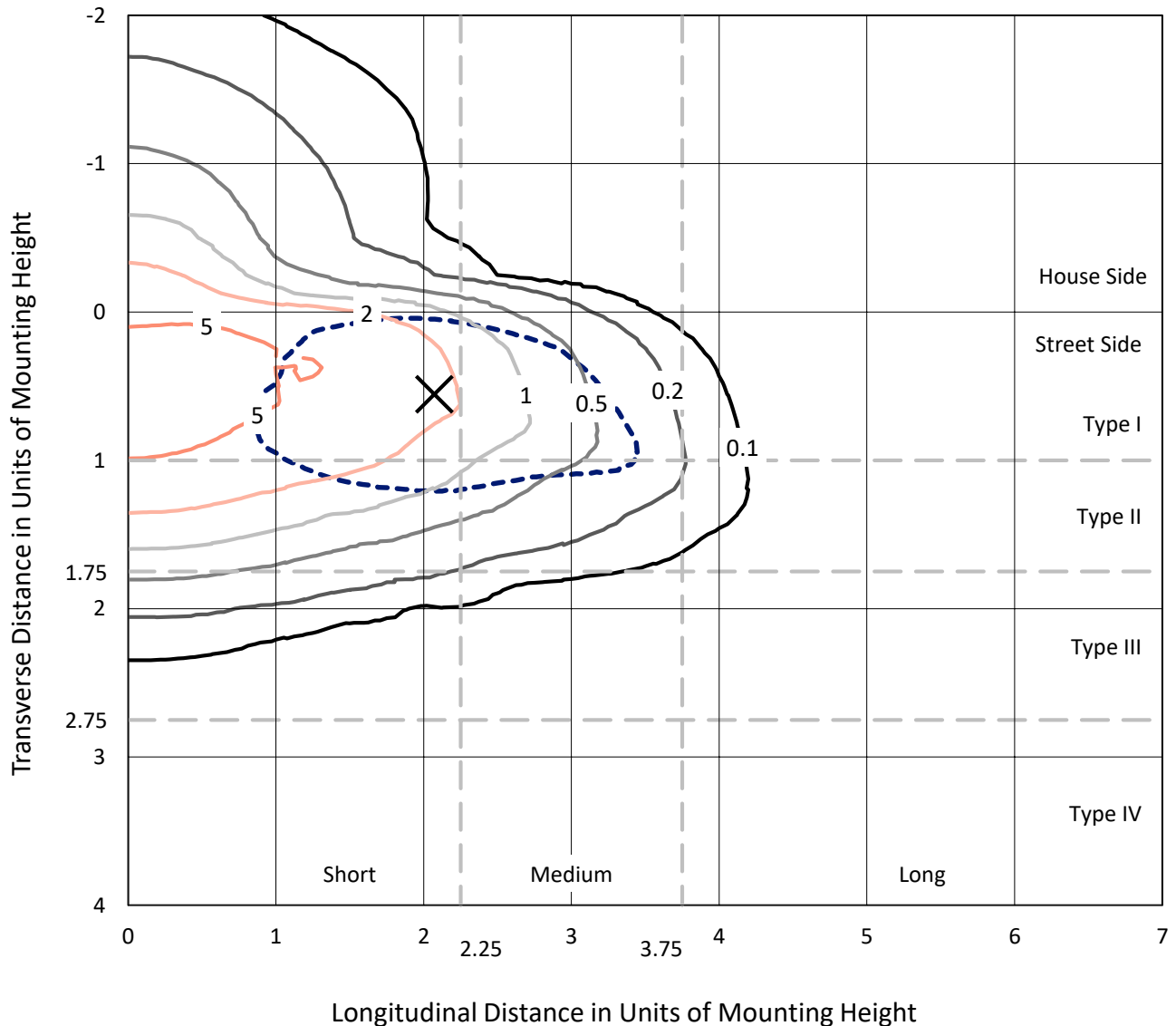
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

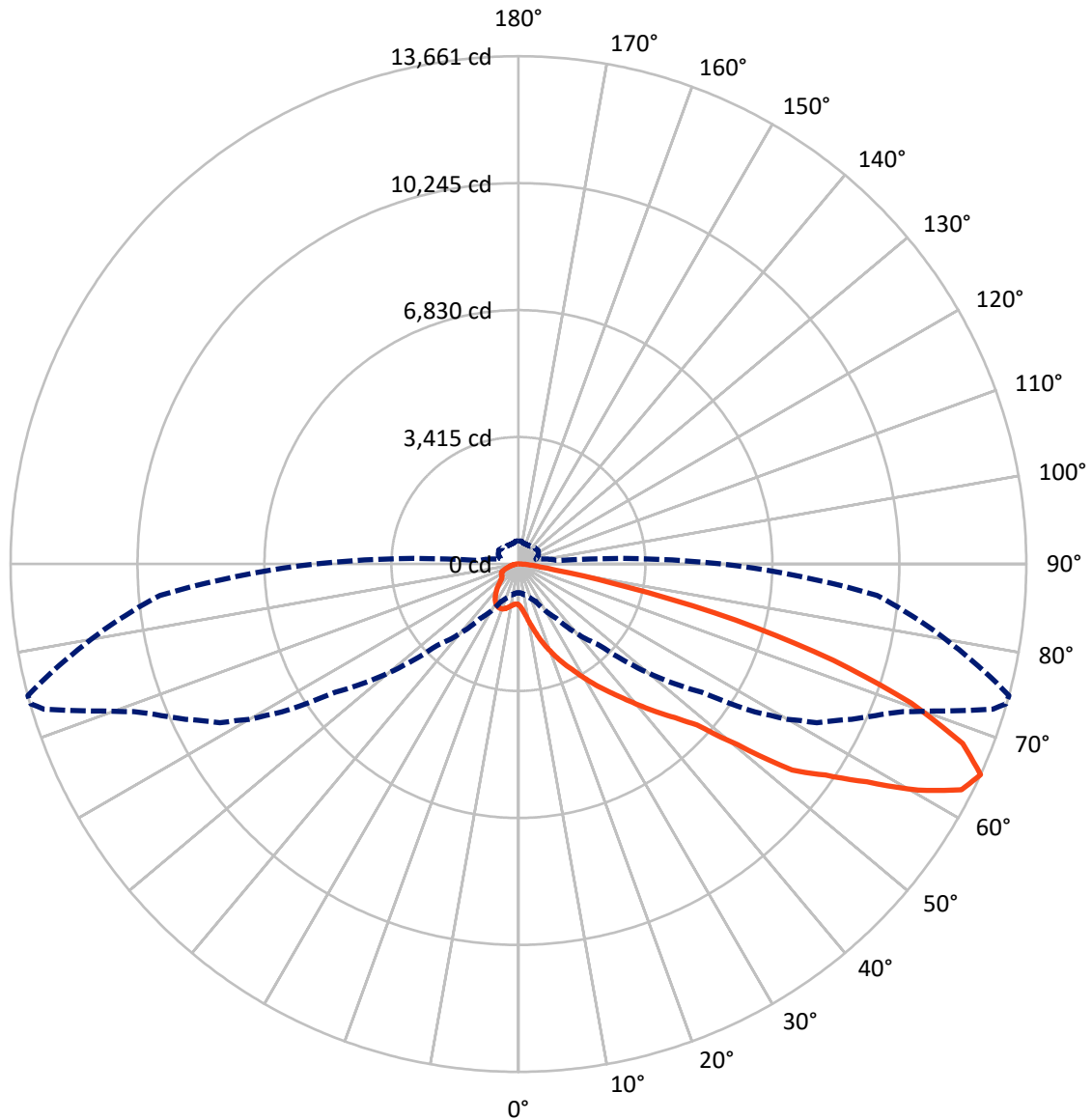
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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	2081.1	0.0	2081.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11416.8	0.0	11416.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	13497.9	0.0	13497.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.0
10°-20°	529.8	3.9
20°-30°	1086.9	8.1
30°-40°	1828.7	13.5
40°-50°	2526.7	18.7
50°-60°	3154.1	23.4
60°-70°	2838.4	21.0
70°-80°	1189.8	8.8
80°-90°	207.9	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°	13497.9	100.0
0°-180°	13497.9	100.0

Coefficient of Utilization



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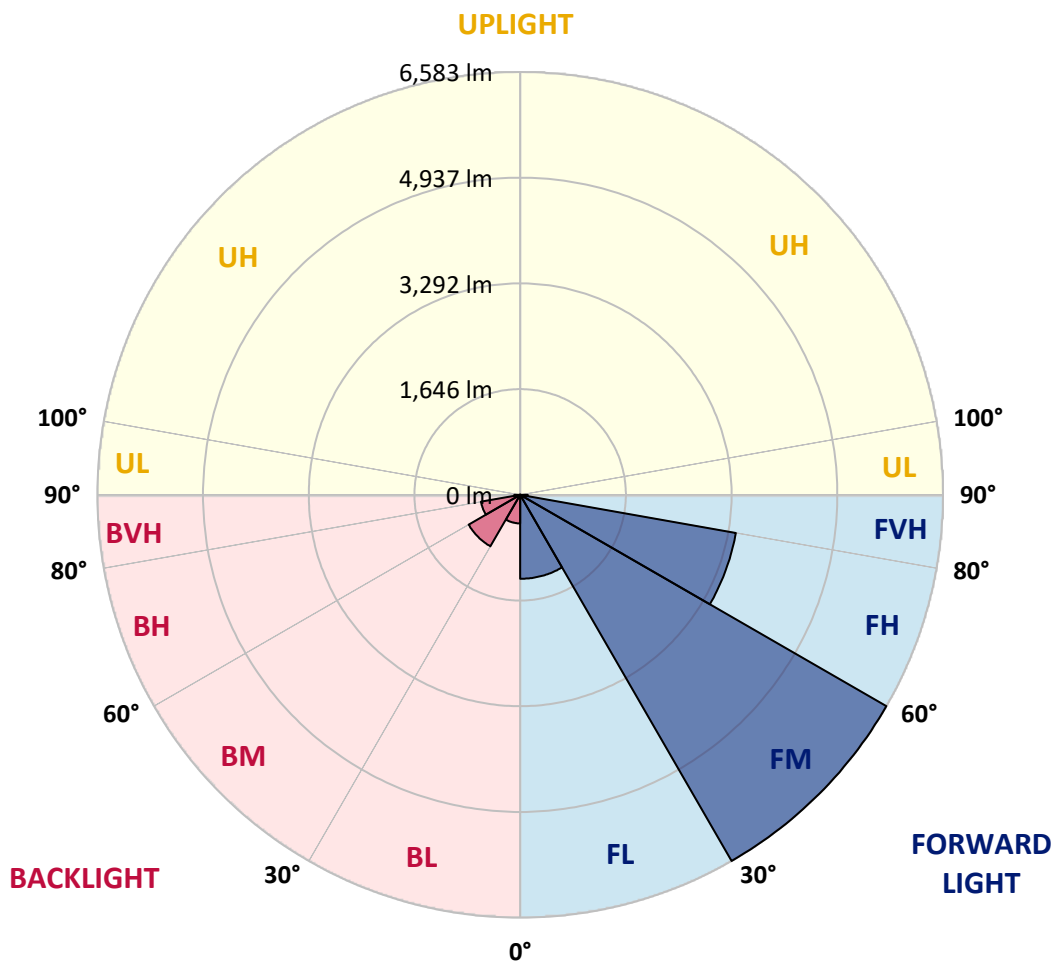
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.2	9.7			
FM (30°-60°)	6583.2	48.8			
FH (60°-80°)	3409.5	25.3			G2/5000
FVH (80°-90°)	116.8	0.9			G2/225
BL (0°-30°)	445.1	3.3	B1/500		
BM (30°-60°)	926.3	6.9	B1/1000		
BH (60°-80°)	618.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	91.0	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°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1392.8	1377.4	1381.3	1355.7	1324.4	1283.5	1238.2	1237.5	1238.2	1233.7	1217.0
5°	1931.3	1912.8	1905.8	1848.3	1764.0	1643.9	1513.5	1499.4	1493.7	1479.0	1445.2
7.5°	2324.3	2314.0	2303.1	2259.7	2183.1	2048.9	1873.8	1843.9	1815.1	1808.0	1769.8
10°	2577.9	2575.3	2552.3	2540.8	2492.9	2376.6	2206.0	2177.4	2146.0	2135.2	2094.9
12.5°	2778.5	2777.9	2767.0	2770.1	2728.7	2644.4	2497.4	2471.2	2448.2	2414.9	2386.3
15°	2917.2	2917.8	2933.7	2951.7	2945.2	2888.4	2750.4	2738.9	2719.1	2696.0	2662.2
17.5°	3030.8	3034.0	3050.7	3083.2	3118.4	3114.0	3004.6	2995.1	2977.9	2946.5	2928.7
20°	3287.7	3299.9	3267.9	3267.9	3271.7	3288.9	3236.6	3228.9	3204.6	3188.1	3174.0
22.5°	3721.5	3735.5	3663.3	3589.9	3517.7	3465.3	3412.9	3422.5	3405.9	3394.4	3386.1
25°	4285.0	4295.9	4178.9	4055.0	3908.0	3716.4	3586.7	3581.0	3571.9	3565.0	3561.1
27.5°	4815.3	4819.7	4709.2	4527.8	4357.2	4081.8	3763.0	3756.0	3745.1	3731.8	3720.2
30°	5268.9	5267.6	5153.8	4980.7	4798.0	4493.3	4030.7	4009.0	3977.1	3940.7	3912.5
32.5°	5661.8	5659.8	5535.2	5355.8	5164.0	4900.9	4397.5	4352.7	4302.8	4232.0	4189.1
35°	5971.0	5969.7	5852.2	5665.0	5445.2	5284.9	4817.9	4762.9	4699.6	4604.4	4538.6
37.5°	6088.0	6088.0	6022.1	5894.3	5700.1	5590.2	5284.9	5218.4	5150.7	5042.7	4968.6
40°	6019.5	6020.8	6034.9	6011.3	5916.6	5832.3	5720.5	5681.0	5622.8	5525.7	5448.3
42.5°	5790.2	5797.2	5890.5	6004.8	6052.1	6038.8	6107.1	6089.1	6048.3	5973.6	5912.2
45°	5499.5	5521.3	5623.4	5839.4	6089.8	6217.0	6431.0	6433.0	6425.2	6384.9	6337.7
47.5°	5100.2	5130.9	5265.6	5557.7	6001.7	6390.1	6760.0	6777.3	6793.2	6767.1	6745.3
50°	4570.0	4606.4	4808.2	5195.4	5822.1	6569.7	7381.7	7459.6	7532.4	7523.5	7538.2
52.5°	4002.0	4044.7	4292.0	4723.2	5513.5	6611.1	7779.1	7906.2	8033.3	8137.4	8248.0
55°	3489.6	3466.6	3713.8	4168.1	5006.3	6423.9	8136.2	8289.5	8431.4	8559.1	8690.8
57.5°	2795.1	2832.8	3080.7	3529.8	4334.9	5895.6	8382.2	8606.3	8810.2	9021.7	9208.3
60°	2043.1	2080.8	2349.9	2806.0	3605.9	5094.4	8194.3	8534.2	8860.7	9184.6	9437.6
62.5°	1233.7	1261.8	1498.9	1933.2	2780.5	4144.4	7357.4	7803.4	8283.8	8670.9	9058.7
65°	768.0	783.9	871.4	1110.4	1785.6	3094.1	6011.3	6497.4	7014.9	7506.3	7909.4
67.5°	628.7	634.5	650.4	701.5	980.7	2017.5	4474.1	4904.7	5371.8	5847.0	6295.6
70°	565.4	561.5	561.5	564.7	628.7	1084.8	2929.3	3209.8	3598.8	4012.2	4422.4
72.5°	510.5	506.6	499.7	490.0	513.0	661.8	1514.1	1725.6	2006.0	2373.5	2766.4
75°	458.7	453.6	445.3	433.2	449.2	499.7	727.0	815.9	952.6	1148.1	1367.2
77.5°	405.0	398.7	391.0	382.0	402.5	388.5	426.1	458.1	510.5	573.1	655.5
80°	344.3	338.7	336.1	331.6	355.8	295.8	301.0	320.7	351.4	385.3	423.6
82.5°	269.6	269.6	279.8	281.7	308.6	212.8	224.9	242.1	258.1	276.0	293.9
85°	177.7	178.9	213.4	226.8	243.4	143.1	168.6	174.4	187.2	197.4	205.0
87.5°	55.5	60.0	130.3	144.4	140.0	81.1	103.5	106.0	115.0	122.0	128.5
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1217.0	1209.4	1202.4	1201.8	1196.6	1189.6	1192.1	1181.3	1181.9	1176.2	1169.8
5°	1431.1	1425.9	1400.4	1393.4	1374.3	1362.1	1360.2	1334.6	1331.4	1316.7	1300.8
7.5°	1739.0	1722.4	1686.6	1669.4	1636.8	1612.5	1601.0	1567.2	1550.5	1512.2	1495.0
10°	2061.7	2040.6	1996.5	1972.2	1941.0	1902.0	1880.9	1831.7	1812.5	1777.4	1735.2
12.5°	2360.7	2339.5	2294.2	2275.7	2234.2	2192.6	2169.6	2114.1	2089.2	2032.9	1999.7
15°	2637.3	2616.2	2576.6	2557.5	2515.9	2482.1	2451.4	2396.5	2367.0	2314.6	2271.2
17.5°	2905.6	2883.2	2848.8	2831.6	2791.3	2756.8	2723.5	2671.8	2641.8	2589.4	2550.4
20°	3154.8	3138.2	3113.3	3090.3	3050.0	3018.7	2979.2	2934.4	2891.0	2852.6	2815.6
22.5°	3372.1	3365.6	3338.8	3328.6	3294.1	3267.2	3232.7	3188.7	3157.3	3108.8	3074.3
25°	3559.3	3557.3	3544.6	3541.3	3517.1	3491.5	3483.9	3447.5	3418.7	3375.8	3340.0
27.5°	3720.2	3722.1	3719.0	3727.9	3721.5	3710.0	3710.6	3698.5	3681.9	3646.1	3614.8
30°	3899.1	3888.9	3894.6	3907.4	3911.2	3912.5	3933.6	3940.7	3939.4	3915.8	3900.4
32.5°	4152.0	4127.8	4105.4	4103.5	4116.3	4121.4	4157.2	4175.8	4191.7	4197.5	4200.1
35°	4474.7	4426.2	4379.5	4354.6	4332.9	4338.6	4364.2	4394.3	4429.4	4453.6	4482.4
37.5°	4881.0	4821.6	4739.2	4680.5	4665.8	4633.8	4650.4	4674.0	4708.5	4746.2	4796.1
40°	5373.6	5283.6	5190.9	5113.0	5070.8	5012.1	5011.4	5006.9	5028.0	5063.2	5133.4
42.5°	5847.7	5767.9	5669.4	5587.7	5532.8	5454.1	5438.1	5396.7	5406.2	5436.9	5505.3
45°	6291.7	6225.9	6165.8	6071.3	6024.7	5939.7	5912.9	5863.7	5836.2	5850.3	5918.6
47.5°	6721.7	6679.6	6616.9	6555.6	6519.8	6443.8	6409.3	6374.1	6339.0	6337.7	6409.3
50°	7559.9	7537.5	7463.4	7399.5	7416.8	7323.5	7329.3	7234.7	7277.5	7282.7	7432.8
52.5°	8347.6	8425.6	8480.6	8547.6	8591.1	8599.4	8628.1	8670.9	8722.7	8824.9	8964.1
55°	8798.7	8896.4	8953.3	9004.4	9088.7	9106.6	9154.5	9211.4	9256.8	9371.7	9490.0
57.5°	9334.7	9516.2	9604.4	9685.5	9799.2	9842.6	9922.5	9984.5	10043.2	10179.3	10322.4
60°	9665.1	9886.1	10065.6	10194.0	10336.5	10438.7	10559.4	10656.5	10794.6	10957.5	11170.9
62.5°	9402.4	9727.0	9965.3	10185.7	10379.3	10574.8	10747.9	10929.3	11138.9	11385.5	11716.4
65°	8356.6	8686.9	9095.2	9323.8	9580.1	9881.6	10144.8	10438.7	10724.3	11083.4	11572.7
67.5°	6727.5	7111.4	7570.1	7800.8	8095.3	8432.0	8727.2	9086.2	9419.7	9854.7	10459.8
70°	4849.1	5345.6	5731.4	5972.3	6316.0	6662.9	6947.9	7365.7	7641.7	8087.6	8713.1
72.5°	3070.5	3462.1	3934.9	4238.3	4543.8	4895.1	5186.5	5546.7	5804.3	6210.6	6777.3
75°	1650.9	1939.7	2354.9	2643.1	2970.1	3270.4	3611.6	3853.1	4043.5	4364.8	4824.8
77.5°	773.7	949.4	1159.6	1381.3	1602.9	1834.2	2059.1	2254.6	2336.4	2520.4	2791.9
80°	469.6	526.4	587.7	656.2	748.7	823.5	922.5	994.1	999.2	1057.3	1140.5
82.5°	313.7	334.8	353.3	370.6	394.2	412.8	433.8	458.7	468.9	482.4	509.2
85°	214.1	224.3	228.1	239.0	236.4	242.7	251.1	259.4	263.9	263.3	275.4
87.5°	131.6	136.7	139.3	141.9	140.0	137.4	141.2	145.6	146.9	143.1	144.4
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°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1171.1	1165.4	1159.6	1155.7	1154.4	1120.6	1105.9	1096.3	1075.9	1059.3	1045.8
5°	1291.8	1279.7	1270.1	1258.6	1252.3	1166.6	1135.3	1113.6	1077.8	1056.7	1037.6
7.5°	1486.1	1452.1	1432.4	1410.0	1390.8	1236.3	1184.5	1150.7	1100.8	1072.7	1051.0
10°	1706.5	1671.4	1640.0	1605.5	1575.5	1328.8	1253.4	1201.1	1135.3	1098.9	1070.1
12.5°	1952.5	1918.0	1878.3	1834.2	1795.9	1446.5	1341.6	1266.9	1176.9	1128.3	1088.0
15°	2243.1	2182.4	2134.5	2083.4	2038.7	1586.9	1444.5	1341.0	1220.9	1155.1	1101.5
17.5°	2513.3	2449.4	2384.3	2339.5	2287.9	1744.8	1548.1	1416.4	1257.3	1172.4	1104.0
20°	2777.2	2707.6	2651.4	2591.3	2537.0	1908.3	1658.6	1482.9	1280.9	1173.0	1088.0
22.5°	3009.8	2966.4	2903.8	2838.6	2783.6	2071.9	1762.0	1539.0	1289.9	1158.3	1059.9
25°	3274.3	3228.2	3151.7	3096.7	3035.3	2238.7	1863.6	1582.5	1284.8	1130.8	1016.5
27.5°	3556.7	3505.6	3426.9	3369.5	3295.4	2411.8	1956.9	1613.8	1265.6	1086.1	958.3
30°	3851.2	3804.6	3727.3	3669.1	3594.4	2595.2	2061.0	1634.8	1227.3	1024.1	890.6
32.5°	4167.4	4128.4	4051.8	3991.2	3911.2	2793.9	2158.1	1641.3	1169.1	950.7	819.1
35°	4467.7	4440.9	4376.3	4319.5	4236.5	2981.6	2261.0	1638.1	1100.2	870.1	753.9
37.5°	4805.7	4789.7	4757.7	4685.5	4583.9	3236.6	2384.3	1624.6	1015.9	790.3	704.1
40°	5166.0	5167.3	5132.8	5083.6	4989.1	3545.8	2531.3	1598.4	923.8	720.1	658.7
42.5°	5547.4	5567.2	5550.6	5515.5	5424.7	3857.5	2707.0	1566.5	834.3	651.6	613.9
45°	5984.4	6008.7	6034.3	5982.5	5894.3	4269.0	2938.2	1525.0	737.9	594.8	583.3
47.5°	6488.5	6526.8	6549.8	6550.5	6462.3	4778.9	3313.8	1500.1	652.3	556.5	568.6
50°	7552.2	7564.4	7618.7	7713.2	7645.5	5958.9	3970.0	1484.8	594.2	532.8	557.8
52.5°	9084.9	9218.5	9312.3	9306.0	9213.9	6708.2	4331.6	1405.5	559.7	523.9	552.6
55°	9709.1	9875.9	10049.6	10095.7	10024.1	7347.7	4673.4	1326.4	543.1	530.3	554.5
57.5°	10541.0	10822.0	11060.4	11160.6	11057.2	8166.2	5123.2	1284.8	537.9	547.6	566.7
60°	11512.7	11860.2	12173.2	12353.5	12353.5	9106.6	5589.6	1267.5	530.9	573.1	587.1
62.5°	12136.8	12647.3	13120.1	13383.9	13376.3	9761.5	5796.6	1208.8	514.9	591.0	615.2
65°	12139.4	12746.4	13348.8	13645.3	13660.6	9681.0	5454.8	1067.5	485.6	593.5	643.4
67.5°	11127.4	11774.6	12476.8	12808.3	12885.0	8911.8	4722.0	877.8	437.7	568.0	653.6
70°	9397.9	10029.8	10746.6	11072.5	11208.6	7596.9	3803.3	676.6	376.4	511.8	632.5
72.5°	7404.0	8023.8	8522.7	8761.0	8867.0	5806.8	2769.6	511.2	308.6	431.2	575.6
75°	5242.0	5707.1	5972.3	6025.3	6041.9	3500.4	1682.9	380.1	254.2	335.4	486.2
77.5°	2958.6	3158.0	3136.3	3159.9	2963.2	1351.2	732.8	272.2	209.6	254.9	376.9
80°	1155.1	1190.8	1118.6	1096.3	1005.5	502.8	323.3	189.8	167.3	192.9	263.9
82.5°	509.2	525.8	510.5	514.3	491.9	259.4	193.5	137.4	127.8	141.2	175.1
85°	280.4	285.6	284.3	292.6	280.4	103.5	92.0	84.3	89.5	95.8	112.5
87.5°	136.7	138.0	133.5	140.6	136.1	52.4	45.3	47.9	52.4	53.7	53.7
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):

	135°	145°	155°	165°	175°	180°
0°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1036.3	1031.1	1031.8	1030.5	1028.0	1028.0
5°	1027.4	1022.2	1022.2	1020.9	1017.8	1018.3
7.5°	1036.3	1028.0	1024.8	1020.3	1015.9	1015.9
10°	1046.5	1031.8	1022.8	1015.2	1009.4	1009.4
12.5°	1054.2	1031.1	1016.5	1006.2	1000.5	1000.5
15°	1056.7	1026.7	1006.2	994.1	989.0	988.4
17.5°	1048.4	1009.4	984.5	970.4	964.1	962.2
20°	1022.8	978.2	948.1	932.1	923.2	919.9
22.5°	984.5	933.4	898.2	881.7	870.1	868.3
25°	930.9	875.9	841.4	825.4	819.1	817.2
27.5°	868.3	817.2	787.7	777.5	771.7	771.1
30°	808.8	765.4	743.7	736.0	729.0	727.7
32.5°	753.2	725.8	717.5	706.6	690.0	688.1
35°	713.6	711.0	705.3	681.1	660.6	654.9
37.5°	689.3	713.0	683.6	635.6	621.0	619.7
40°	675.3	693.2	642.7	626.1	627.4	626.1
42.5°	643.4	661.8	644.0	636.3	641.4	642.7
45°	611.4	631.9	653.6	648.4	660.6	660.6
47.5°	593.5	624.1	652.9	652.9	670.9	677.2
50°	573.1	617.8	642.7	651.6	665.7	660.6
52.5°	571.8	607.0	628.0	644.0	650.4	644.7
55°	573.8	598.0	613.3	631.2	638.9	639.5
57.5°	576.2	592.9	603.1	611.4	634.5	634.5
60°	582.7	588.4	594.2	598.6	628.7	629.3
62.5°	592.9	584.0	582.7	587.1	625.4	623.0
65°	608.9	577.5	568.0	572.5	622.3	614.6
67.5°	630.6	568.0	549.4	552.6	619.7	603.1
70°	650.4	552.6	526.4	523.3	595.5	566.0
72.5°	652.3	534.8	494.5	484.9	517.5	489.3
75°	620.4	522.6	459.4	431.2	427.4	423.6
77.5°	559.1	515.6	418.5	374.4	366.7	369.3
80°	467.7	489.3	369.3	316.9	358.4	353.9
82.5°	349.5	431.9	313.7	280.4	279.8	247.3
85°	194.2	336.7	255.5	210.2	146.3	141.9
87.5°	54.3	187.2	178.9	118.8	81.1	84.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)