

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: P200186

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200186  
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-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 14522.8 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

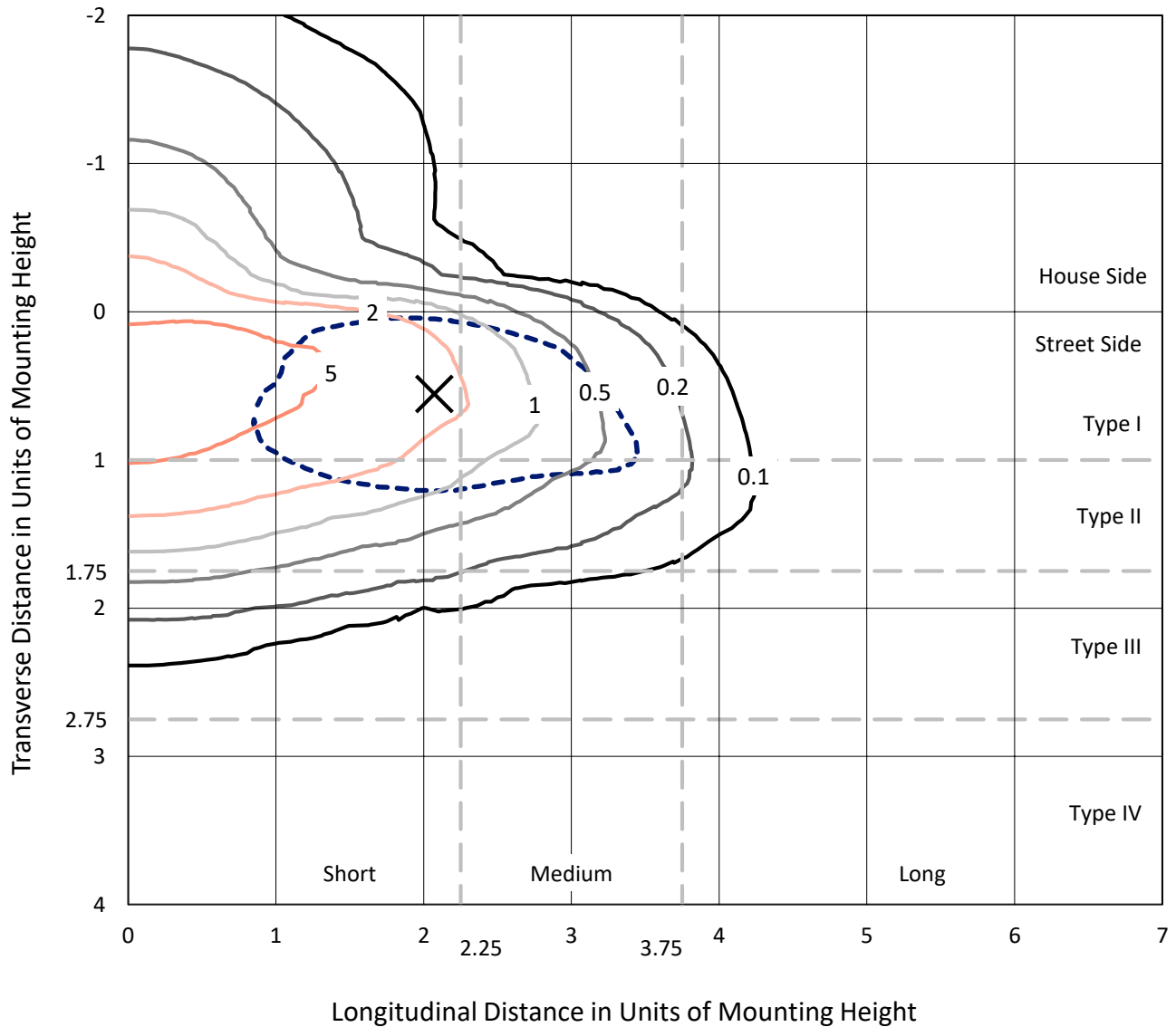
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

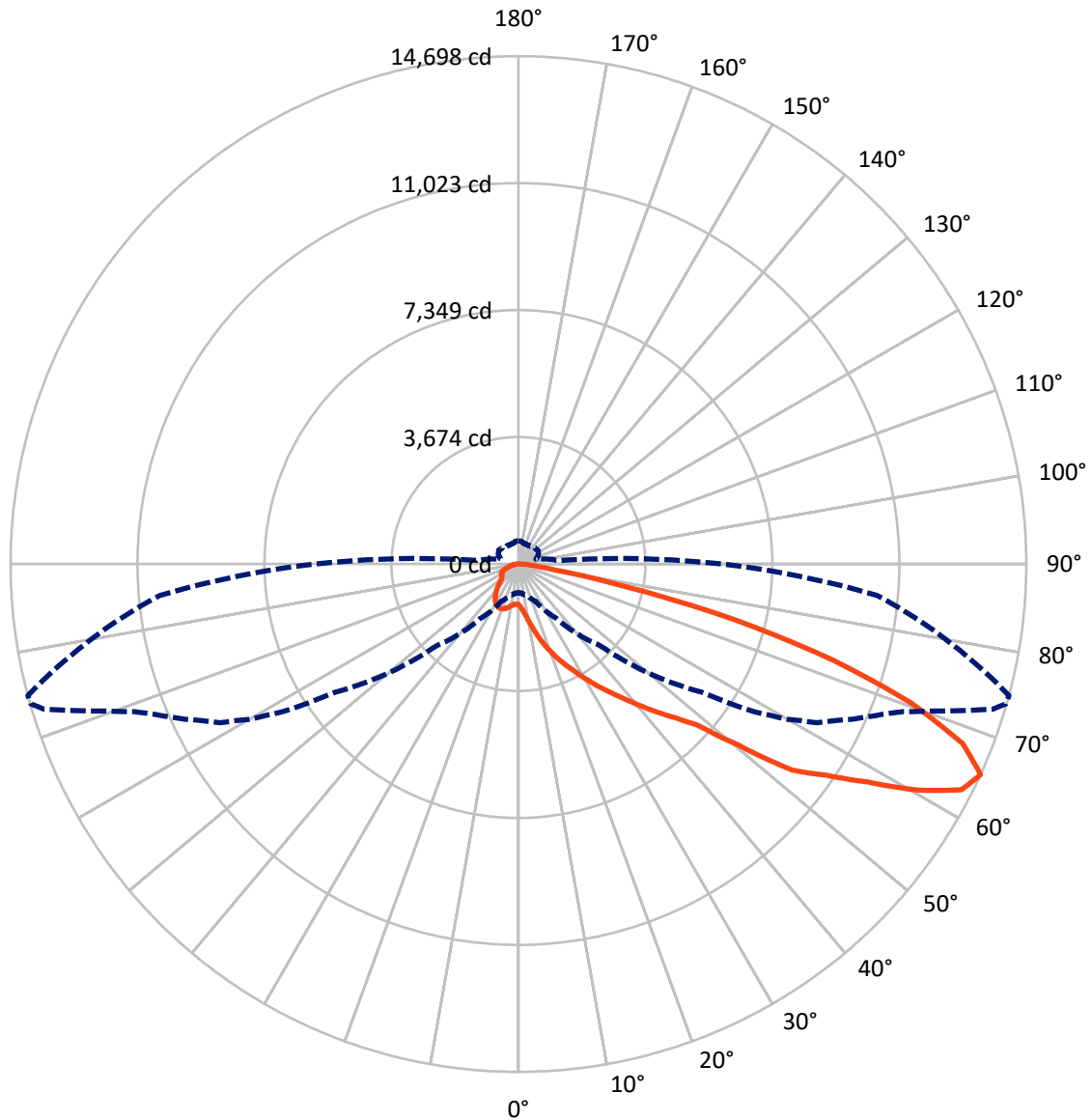
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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
<b>House Side</b>	Lumens	2239.1	0.0	2239.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	12283.8	0.0	12283.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	14522.8	0.0	14522.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.9	1.0
10°-20°	570.0	3.9
20°-30°	1169.5	8.1
30°-40°	1967.5	13.5
40°-50°	2718.6	18.7
50°-60°	3393.6	23.4
60°-70°	3053.9	21.0
70°-80°	1280.2	8.8
80°-90°	223.7	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°	14522.8	100.0
0°-180°	14522.8	100.0

**Coefficient of Utilization**



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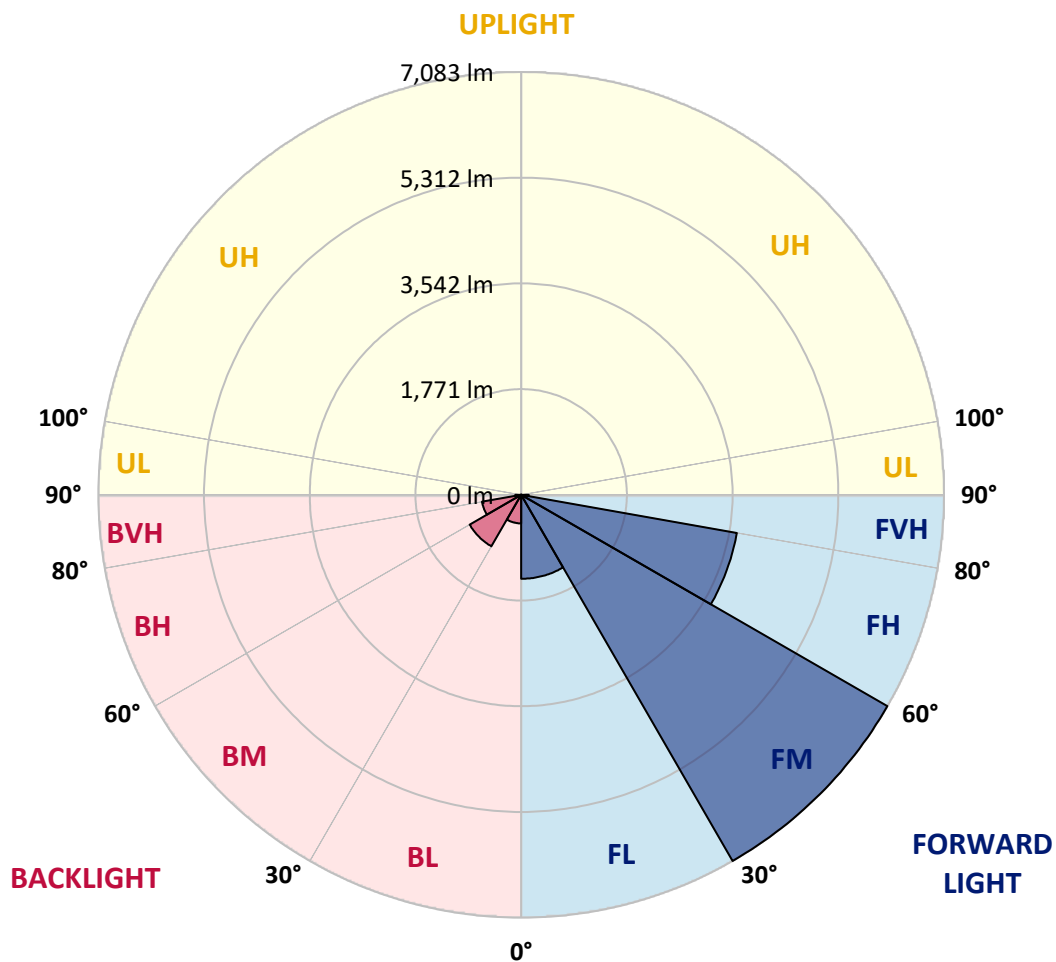
CATALOG NUMBER: GWC-AF-02-LED-E1-T2R-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1406.5	9.7			
FM	(30°-60°)	7083.1	48.8			
FH	(60°-80°)	3668.4	25.3			G2/5000
FVH	(80°-90°)	125.7	0.9			G2/225
BL	(0°-30°)	478.8	3.3	B1/500		
BM	(30°-60°)	996.6	6.9	B1/1000		
BH	(60°-80°)	665.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	97.9	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°	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1498.5	1482.1	1486.1	1458.6	1425.0	1381.0	1332.2	1331.5	1332.2	1327.4	1309.5
5°	2078.0	2058.1	2050.5	1988.6	1897.9	1768.7	1628.4	1613.3	1607.2	1591.3	1554.9
7.5°	2500.7	2489.8	2478.1	2431.3	2348.8	2204.5	2016.1	1983.8	1952.9	1945.3	1904.1
10°	2773.6	2770.9	2746.1	2733.7	2682.2	2557.1	2373.6	2342.7	2309.0	2297.2	2254.0
12.5°	2989.5	2988.8	2977.1	2980.6	2935.9	2845.1	2687.0	2658.9	2634.1	2598.4	2567.4
15°	3138.6	3139.3	3156.5	3175.8	3168.9	3107.7	2959.2	2946.8	2925.5	2900.8	2864.4
17.5°	3261.0	3264.4	3282.3	3317.3	3355.2	3350.4	3232.8	3222.5	3204.0	3170.2	3151.0
20°	3537.4	3550.4	3516.0	3516.0	3520.2	3538.7	3482.3	3474.1	3448.0	3430.1	3415.0
22.5°	4004.0	4019.2	3941.5	3862.5	3784.8	3728.5	3672.1	3682.4	3664.5	3652.1	3643.2
25°	4610.3	4622.0	4496.3	4362.9	4204.8	3998.6	3859.1	3852.8	3843.2	3835.7	3831.6
27.5°	5180.9	5185.7	5066.8	4871.6	4688.1	4391.7	4048.7	4041.2	4029.5	4015.1	4002.7
30°	5669.0	5667.6	5545.2	5358.9	5162.3	4834.5	4336.8	4313.4	4279.0	4239.8	4209.6
32.5°	6091.7	6089.6	5955.6	5762.5	5556.3	5273.0	4731.4	4683.3	4629.6	4553.3	4507.2
35°	6424.4	6423.0	6296.6	6095.2	5858.6	5686.2	5183.6	5124.6	5056.4	4954.0	4883.3
37.5°	6550.2	6550.2	6479.4	6341.9	6132.9	6014.7	5686.2	5614.7	5541.7	5425.6	5345.8
40°	6476.6	6478.0	6493.2	6467.7	6365.9	6275.2	6154.9	6112.3	6049.7	5945.3	5862.1
42.5°	6229.9	6237.4	6337.8	6460.9	6511.7	6497.3	6570.8	6551.6	6507.6	6427.1	6361.1
45°	5917.1	5940.5	6050.4	6282.8	6552.2	6689.1	6919.3	6921.4	6913.1	6869.8	6819.0
47.5°	5487.5	5520.5	5665.5	5979.7	6457.4	6875.4	7273.3	7291.9	7309.1	7280.9	7257.5
50°	4916.9	4956.1	5173.4	5589.9	6264.2	7068.5	7942.2	8026.1	8104.4	8094.8	8110.6
52.5°	4305.8	4351.9	4617.9	5081.9	5932.2	7113.2	8369.7	8506.6	8643.3	8755.3	8874.3
55°	3754.5	3729.8	3995.9	4484.6	5386.4	6911.8	8754.0	8919.0	9071.5	9209.0	9350.7
57.5°	3007.4	3047.9	3314.7	3797.9	4663.9	6343.3	9018.6	9259.9	9479.2	9706.7	9907.4
60°	2198.3	2238.8	2528.2	3019.0	3879.6	5481.3	8816.5	9182.2	9533.5	9882.0	10154.2
62.5°	1327.4	1357.6	1612.6	2080.1	2991.5	4459.1	7916.0	8395.9	8912.8	9329.3	9746.6
65°	826.2	843.4	937.6	1194.7	1921.3	3329.1	6467.7	6990.8	7547.6	8076.2	8509.9
67.5°	676.4	682.6	699.8	754.7	1055.2	2170.8	4813.8	5277.1	5779.6	6291.0	6773.6
70°	608.3	604.3	604.3	607.6	676.4	1167.2	3151.7	3453.5	3872.1	4316.9	4758.2
72.5°	549.2	545.1	537.6	527.2	552.0	712.2	1629.2	1856.7	2158.4	2553.7	2976.4
75°	493.6	488.0	479.2	466.1	483.2	537.6	782.3	877.8	1024.9	1235.2	1471.0
77.5°	435.8	428.9	420.6	411.0	433.0	418.0	458.5	492.9	549.2	616.6	705.2
80°	370.5	364.3	361.6	356.8	382.9	318.2	323.8	345.0	378.1	414.5	455.7
82.5°	290.1	290.1	301.1	303.1	332.0	228.9	241.9	260.5	277.7	297.0	316.2
85°	191.1	192.5	229.6	244.1	261.9	154.0	181.5	187.6	201.4	212.4	220.7
87.5°	59.8	64.7	140.2	155.4	150.6	87.3	111.4	114.1	123.8	131.2	138.2
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°	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1309.5	1301.2	1293.7	1293.0	1287.5	1279.9	1282.7	1271.0	1271.7	1265.5	1258.6
5°	1539.7	1534.2	1506.8	1499.2	1478.6	1465.5	1463.4	1436.0	1432.5	1416.7	1399.5
7.5°	1871.1	1853.2	1814.7	1796.2	1761.1	1735.0	1722.6	1686.2	1668.3	1627.1	1608.5
10°	2218.3	2195.6	2148.1	2122.0	2088.4	2046.4	2023.7	1970.7	1950.2	1912.3	1867.0
12.5°	2539.9	2517.3	2468.5	2448.5	2403.8	2359.1	2334.4	2274.6	2247.8	2187.3	2151.6
15°	2837.6	2814.9	2772.3	2751.6	2706.9	2670.5	2637.6	2578.4	2546.8	2490.5	2443.7
17.5°	3126.2	3102.2	3065.1	3046.6	3003.3	2966.1	2930.3	2874.7	2842.4	2786.0	2744.1
20°	3394.4	3376.5	3349.7	3324.9	3281.6	3248.0	3205.3	3157.2	3110.5	3069.3	3029.4
22.5°	3628.1	3621.2	3592.3	3581.4	3544.2	3515.4	3478.2	3430.8	3397.1	3344.8	3307.7
25°	3829.5	3827.4	3813.7	3810.2	3784.1	3756.6	3748.4	3709.2	3678.2	3632.2	3593.7
27.5°	4002.7	4004.8	4001.4	4011.0	4004.0	3991.7	3992.4	3979.4	3961.5	3923.0	3889.3
30°	4195.2	4184.2	4190.3	4204.1	4208.2	4209.6	4232.3	4239.8	4238.5	4213.0	4196.6
32.5°	4467.4	4441.2	4417.2	4415.2	4428.9	4434.4	4472.9	4492.8	4510.0	4516.2	4519.0
35°	4814.5	4762.2	4712.1	4685.3	4661.9	4668.1	4695.5	4727.9	4765.7	4791.8	4822.8
37.5°	5251.7	5187.8	5099.1	5035.9	5020.0	4985.7	5003.6	5029.0	5066.1	5106.7	5160.3
40°	5781.7	5684.7	5585.1	5501.2	5455.9	5392.6	5392.0	5387.2	5409.8	5447.6	5523.2
42.5°	6291.8	6205.8	6100.0	6012.0	5952.9	5868.3	5851.1	5806.5	5816.7	5849.7	5923.3
45°	6769.5	6698.7	6634.0	6532.4	6482.1	6390.7	6361.8	6308.9	6279.4	6294.5	6368.1
47.5°	7232.1	7186.7	7119.3	7053.3	7014.9	6933.0	6895.9	6858.2	6820.3	6819.0	6895.9
50°	8134.0	8109.9	8030.2	7961.4	7979.9	7879.6	7885.8	7784.0	7830.1	7835.6	7997.1
52.5°	8981.5	9065.4	9124.5	9196.6	9243.4	9252.4	9283.3	9329.3	9385.0	9495.0	9644.9
55°	9466.8	9572.0	9633.1	9688.2	9778.9	9798.1	9849.7	9910.9	9959.7	10083.4	10210.6
57.5°	10043.5	10238.7	10333.6	10420.9	10543.2	10590.0	10675.9	10742.6	10805.8	10952.2	11106.3
60°	10398.9	10636.7	10829.9	10968.1	11121.4	11231.4	11361.3	11465.7	11614.3	11789.5	12019.1
62.5°	10116.4	10465.6	10722.0	10959.2	11167.5	11377.8	11564.0	11759.2	11984.8	12250.0	12606.1
65°	8991.1	9346.5	9785.8	10031.9	10307.5	10631.9	10915.2	11231.4	11538.6	11924.9	12451.5
67.5°	7238.3	7651.4	8144.9	8393.1	8710.0	9072.2	9389.9	9776.1	10135.0	10603.1	11254.0
70°	5217.4	5751.4	6166.7	6425.8	6795.6	7168.8	7475.4	7925.0	8222.0	8701.7	9374.7
72.5°	3303.6	3725.0	4233.7	4560.2	4888.8	5266.9	5580.3	5968.0	6245.0	6682.2	7291.9
75°	1776.3	2086.9	2533.7	2843.8	3195.7	3518.7	3885.9	4145.7	4350.5	4696.3	5191.2
77.5°	832.5	1021.5	1247.6	1486.1	1724.7	1973.5	2215.5	2425.8	2513.8	2711.7	3003.9
80°	505.2	566.4	632.4	705.9	805.7	886.1	992.6	1069.6	1075.1	1137.6	1227.0
82.5°	337.5	360.2	380.1	398.6	424.1	444.1	466.8	493.6	504.5	518.9	547.9
85°	230.3	241.3	245.4	257.1	254.3	261.2	270.2	279.1	283.9	283.3	296.2
87.5°	141.6	147.1	149.9	152.6	150.6	147.8	151.9	156.7	158.1	154.0	155.4
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°	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1260.0	1253.8	1247.6	1243.5	1242.2	1205.6	1189.9	1179.6	1157.6	1139.7	1125.2
5°	1389.9	1376.9	1366.6	1354.2	1347.3	1255.2	1221.5	1198.1	1159.6	1136.9	1116.3
7.5°	1598.9	1562.5	1541.2	1517.0	1496.5	1330.1	1274.4	1238.0	1184.4	1154.1	1130.8
10°	1836.0	1798.2	1764.6	1727.5	1695.1	1429.8	1348.7	1292.3	1221.5	1182.3	1151.4
12.5°	2100.6	2063.6	2020.9	1973.5	1932.3	1556.2	1443.5	1363.1	1266.2	1213.9	1170.7
15°	2413.4	2348.2	2296.6	2241.6	2193.5	1707.5	1554.2	1442.9	1313.6	1242.8	1185.1
17.5°	2704.2	2635.4	2565.4	2517.3	2461.5	1877.3	1665.6	1524.0	1352.8	1261.4	1187.9
20°	2988.1	2913.2	2852.7	2788.1	2729.6	2053.3	1784.4	1595.4	1378.2	1262.0	1170.7
22.5°	3238.4	3191.6	3124.2	3054.1	2995.0	2229.2	1895.8	1656.0	1387.8	1246.3	1140.4
25°	3522.9	3473.4	3390.9	3331.9	3265.8	2408.6	2005.1	1702.7	1382.3	1216.7	1093.6
27.5°	3826.8	3771.7	3687.2	3625.3	3545.5	2594.9	2105.5	1736.4	1361.8	1168.6	1031.1
30°	4143.7	4093.4	4010.3	3947.7	3867.3	2792.2	2217.6	1759.1	1320.5	1101.9	958.2
32.5°	4483.9	4442.0	4359.5	4294.1	4208.2	3005.9	2322.0	1765.9	1257.9	1022.8	881.3
35°	4806.9	4778.1	4708.6	4647.5	4558.2	3208.1	2432.7	1762.4	1183.7	936.2	811.1
37.5°	5170.6	5153.4	5119.1	5041.4	4932.1	3482.3	2565.4	1748.0	1092.9	850.3	757.5
40°	5558.3	5559.6	5522.5	5469.6	5367.8	3815.1	2723.5	1719.9	994.0	774.7	708.7
42.5°	5968.6	5990.0	5972.1	5934.2	5836.7	4150.5	2912.5	1685.5	897.7	701.1	660.6
45°	6438.9	6464.9	6492.5	6436.8	6341.9	4593.2	3161.3	1640.8	793.9	640.0	627.6
47.5°	6981.2	7022.5	7047.2	7047.8	6953.0	5141.8	3565.5	1614.0	701.8	598.7	611.8
50°	8125.7	8138.8	8197.2	8298.9	8226.1	6411.3	4271.4	1597.5	639.2	573.3	600.1
52.5°	9774.8	9918.4	10019.5	10012.6	9913.6	7217.6	4660.6	1512.2	602.1	563.6	594.6
55°	10446.4	10625.8	10812.7	10862.2	10785.3	7905.8	5028.3	1427.0	584.3	570.5	596.7
57.5°	11341.4	11643.8	11900.2	12008.1	11896.7	8786.3	5512.3	1382.3	578.8	589.1	609.7
60°	12386.9	12760.8	13097.7	13291.5	13291.5	9798.1	6014.0	1363.8	571.2	616.6	631.7
62.5°	13058.5	13607.7	14116.3	14400.3	14392.0	10502.7	6236.7	1300.6	554.0	635.9	662.0
65°	13061.2	13714.2	14362.4	14681.4	14697.9	10416.1	5869.0	1148.7	522.4	638.6	692.2
67.5°	11972.4	12668.7	13424.2	13780.9	13863.4	9588.5	5080.6	944.5	470.9	611.1	703.2
70°	10111.6	10791.4	11562.7	11913.3	12059.7	8173.8	4092.1	727.9	404.9	550.7	680.6
72.5°	7966.2	8633.0	9169.8	9426.3	9540.3	6247.8	2979.9	549.9	332.0	464.0	619.3
75°	5640.0	6140.5	6425.8	6482.8	6500.6	3766.2	1810.6	409.0	273.5	360.9	523.1
77.5°	3183.3	3397.8	3374.4	3399.9	3188.1	1453.8	788.5	292.9	225.5	274.3	405.6
80°	1242.8	1281.3	1203.6	1179.6	1082.0	540.9	347.8	204.2	180.1	207.6	283.9
82.5°	547.9	565.7	549.2	553.3	529.3	279.1	208.3	147.8	137.5	151.9	188.3
85°	301.8	307.3	305.9	314.9	301.8	111.4	99.0	90.7	96.3	103.1	121.0
87.5°	147.1	148.4	143.6	151.2	146.4	56.4	48.8	51.6	56.4	57.7	57.7
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°	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1114.9	1109.5	1110.1	1108.8	1106.0	1106.0
5°	1105.3	1099.9	1099.9	1098.4	1095.1	1095.7
7.5°	1114.9	1106.0	1102.5	1097.7	1092.9	1092.9
10°	1126.0	1110.1	1100.5	1092.3	1086.1	1086.1
12.5°	1134.2	1109.5	1093.6	1082.7	1076.5	1076.5
15°	1136.9	1104.7	1082.7	1069.6	1064.1	1063.4
17.5°	1128.0	1086.1	1059.3	1044.1	1037.3	1035.2
20°	1100.5	1052.4	1020.1	1002.9	993.3	989.8
22.5°	1059.3	1004.3	966.5	948.6	936.2	934.2
25°	1001.6	942.4	905.3	888.1	881.3	879.2
27.5°	934.2	879.2	847.5	836.6	830.3	829.7
30°	870.2	823.5	800.2	791.9	784.3	783.0
32.5°	810.5	780.9	771.9	760.3	742.4	740.3
35°	767.8	765.1	758.9	732.7	710.7	704.6
37.5°	741.7	767.1	735.5	683.9	668.2	666.8
40°	726.6	745.8	691.5	673.6	675.0	673.6
42.5°	692.2	712.2	692.8	684.7	690.2	691.5
45°	657.9	679.9	703.2	697.8	710.7	710.7
47.5°	638.6	671.6	702.6	702.6	721.8	728.6
50°	616.6	664.7	691.5	701.1	716.3	710.7
52.5°	615.2	653.1	675.7	692.8	699.8	693.6
55°	617.2	643.4	659.9	679.1	687.4	688.0
57.5°	620.0	637.9	648.9	657.9	682.6	682.6
60°	626.9	633.1	639.2	644.0	676.4	677.1
62.5°	637.9	628.3	626.9	631.7	673.0	670.2
65°	655.1	621.4	611.1	615.9	669.5	661.2
67.5°	678.4	611.1	591.2	594.6	666.8	648.9
70°	699.8	594.6	566.4	562.9	640.7	609.1
72.5°	701.8	575.3	532.0	521.7	556.8	526.5
75°	667.5	562.3	494.2	464.0	459.9	455.7
77.5°	601.5	554.7	450.2	402.8	394.6	397.3
80°	503.2	526.5	397.3	340.9	385.7	380.8
82.5°	376.0	464.7	337.5	301.8	301.1	266.1
85°	209.0	362.2	275.0	226.2	157.4	152.6
87.5°	58.4	201.4	192.5	127.9	87.3	90.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)