

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: P270130

Luminaire Tested: **GWC-AF-02-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270130
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-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 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: 7282.7 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

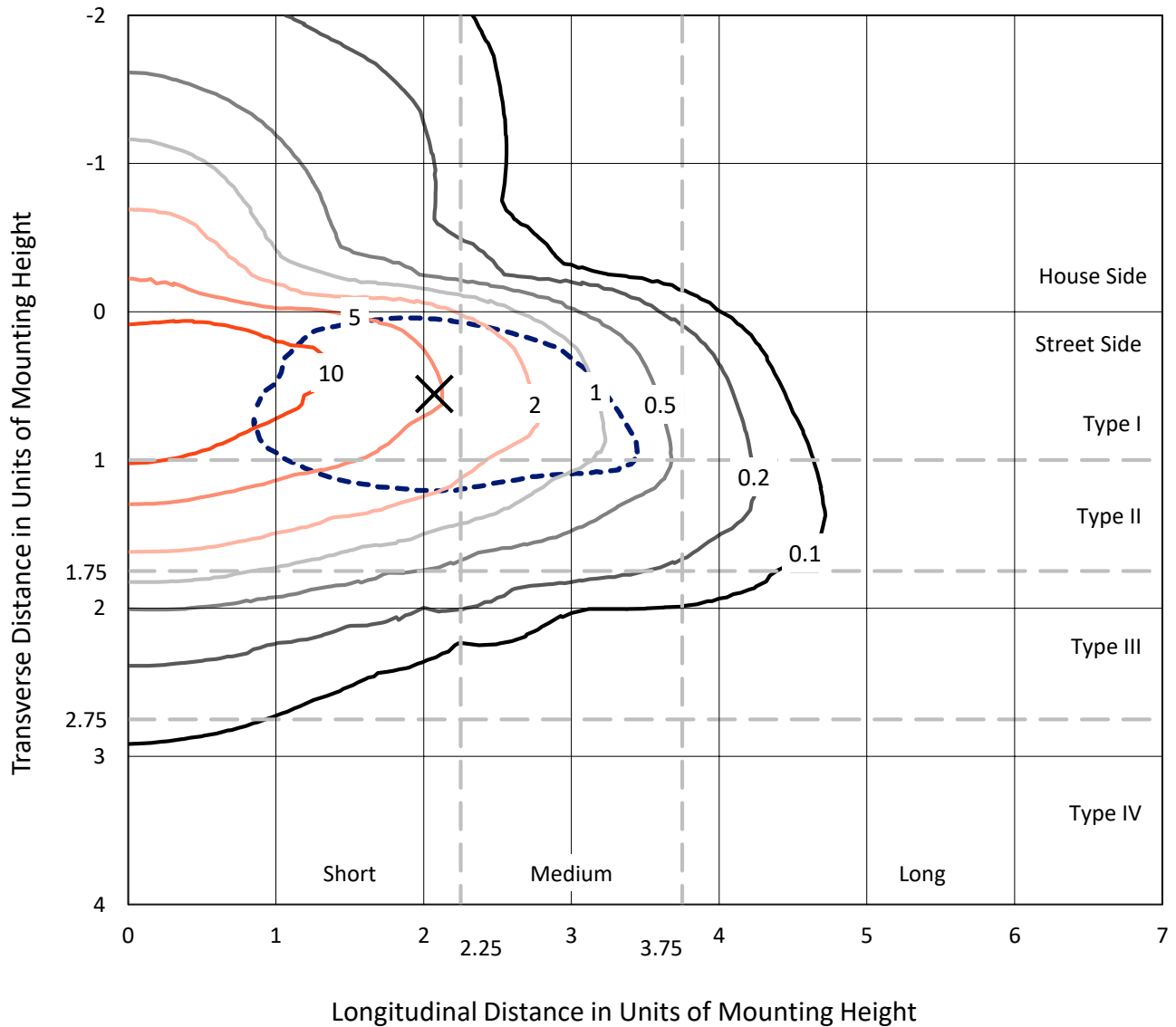
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

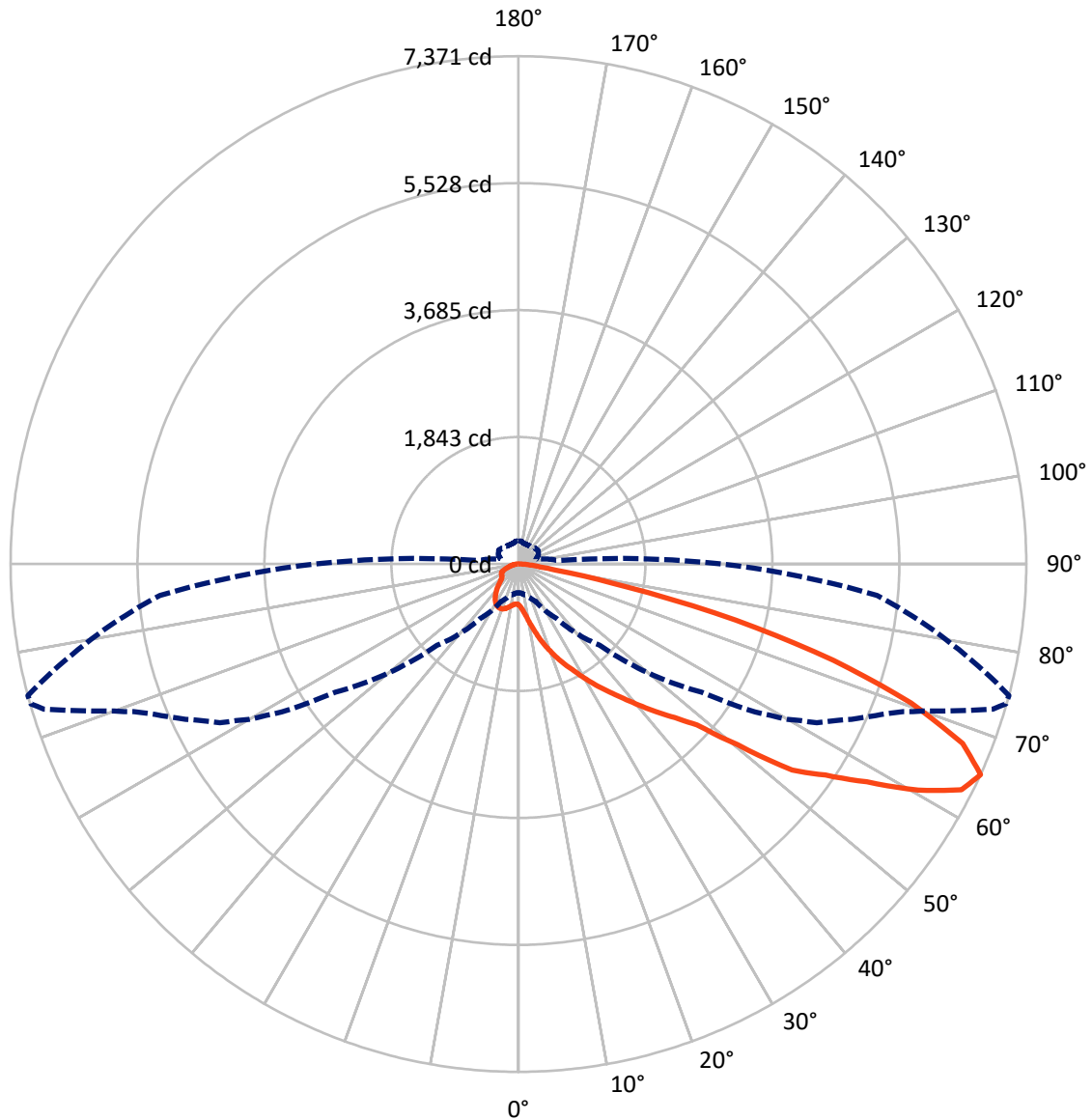
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 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	1122.8	0.0	1122.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6159.8	0.0	6159.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	7282.7	0.0	7282.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.0
10°-20°	285.8	3.9
20°-30°	586.4	8.1
30°-40°	986.7	13.5
40°-50°	1363.3	18.7
50°-60°	1701.8	23.4
60°-70°	1531.4	21.0
70°-80°	642.0	8.8
80°-90°	112.2	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°	7282.7	100.0
0°-180°	7282.7	100.0



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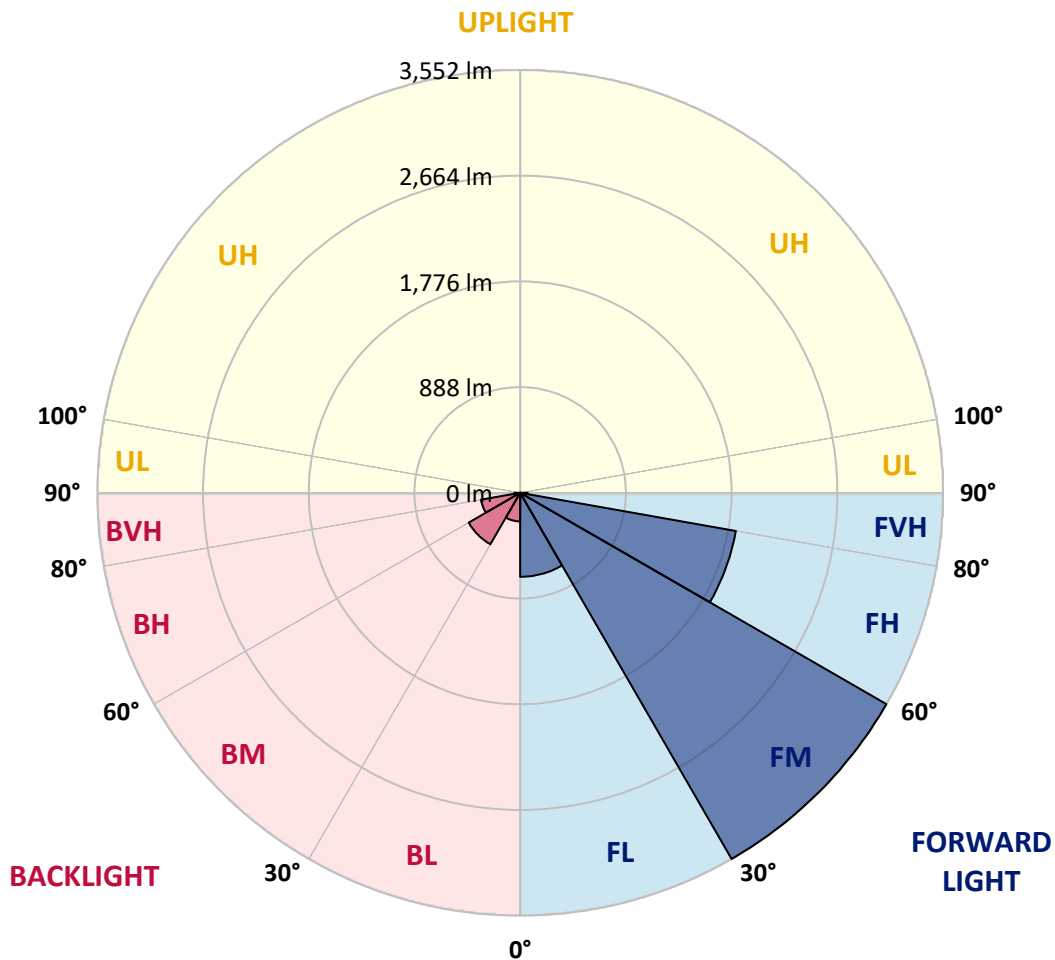
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.3	9.7			
FM (30°-60°)	3551.9	48.8			
FH (60°-80°)	1839.6	25.3			G2/5000
FVH (80°-90°)	63.0	0.9			G1/100
BL (0°-30°)	240.1	3.3	B1/500		
BM (30°-60°)	499.8	6.9	B1/1000		
BH (60°-80°)	333.8	4.6	B1/500		G1/500
BVH (80°-90°)	49.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8
2.5°	751.4	743.3	745.2	731.5	714.6	692.5	668.1	667.7	668.1	665.6	656.7
5°	1042.0	1032.0	1028.2	997.3	951.8	886.9	816.6	809.0	806.0	798.1	779.7
7.5°	1254.0	1248.6	1242.6	1219.2	1177.9	1105.5	1011.0	994.9	979.3	975.6	954.8
10°	1390.9	1389.5	1377.1	1370.8	1345.0	1282.2	1190.3	1174.7	1157.8	1152.0	1130.3
12.5°	1499.1	1498.8	1492.9	1494.6	1472.2	1426.7	1347.4	1333.4	1320.9	1303.0	1287.5
15°	1573.9	1574.3	1582.8	1592.6	1589.1	1558.4	1483.9	1477.8	1467.0	1454.6	1436.4
17.5°	1635.3	1637.0	1646.0	1663.5	1682.5	1680.1	1621.2	1616.0	1606.6	1589.8	1580.1
20°	1773.9	1780.4	1763.2	1763.2	1765.2	1774.5	1746.3	1742.1	1729.0	1720.1	1712.5
22.5°	2008.0	2015.4	1976.5	1936.9	1897.9	1869.6	1841.4	1846.6	1837.7	1831.4	1827.0
25°	2312.0	2317.7	2254.7	2187.8	2108.6	2005.1	1935.2	1932.1	1927.3	1923.5	1921.4
27.5°	2598.1	2600.4	2540.9	2442.9	2350.9	2202.3	2030.3	2026.5	2020.6	2013.5	2007.2
30°	2842.7	2842.1	2780.7	2687.3	2588.6	2424.3	2174.8	2163.0	2145.8	2126.1	2111.0
32.5°	3054.8	3053.7	2986.5	2889.6	2786.3	2644.3	2372.5	2348.4	2321.6	2283.3	2260.2
35°	3221.6	3221.0	3157.5	3056.5	2937.8	2851.4	2599.4	2569.8	2535.6	2484.3	2448.8
37.5°	3284.7	3284.7	3249.3	3180.3	3075.4	3016.1	2851.4	2815.6	2778.9	2720.8	2680.7
40°	3247.7	3248.5	3256.1	3243.3	3192.3	3146.8	3086.5	3065.1	3033.8	2981.4	2939.6
42.5°	3124.0	3127.8	3178.2	3239.8	3265.3	3258.1	3295.1	3285.4	3263.3	3222.9	3189.9
45°	2967.2	2979.0	3034.0	3150.6	3285.7	3354.3	3469.8	3470.9	3466.6	3445.0	3419.4
47.5°	2751.8	2768.3	2841.1	2998.5	3238.1	3447.7	3647.3	3656.6	3665.3	3651.1	3639.4
50°	2465.7	2485.3	2594.3	2803.2	3141.3	3544.5	3982.7	4024.8	4064.0	4059.2	4067.1
52.5°	2159.3	2182.3	2315.7	2548.3	2974.8	3567.1	4197.1	4265.7	4334.3	4390.6	4450.2
55°	1882.8	1870.4	2003.8	2248.9	2701.1	3466.0	4389.7	4472.6	4549.0	4617.9	4689.0
57.5°	1508.1	1528.4	1662.1	1904.5	2338.8	3180.9	4522.5	4643.5	4753.4	4867.6	4968.2
60°	1102.3	1122.7	1267.8	1513.9	1945.5	2748.6	4421.1	4604.5	4780.7	4955.4	5092.0
62.5°	665.6	680.8	808.7	1043.1	1500.2	2236.2	3969.6	4210.2	4469.4	4678.4	4887.5
65°	414.3	423.0	470.2	599.1	963.4	1669.4	3243.3	3505.6	3784.8	4049.9	4267.4
67.5°	339.1	342.3	350.9	378.5	529.1	1088.6	2413.9	2646.3	2898.3	3154.8	3396.8
70°	305.1	303.0	303.0	304.7	339.1	585.2	1580.4	1731.8	1941.8	2164.7	2386.1
72.5°	275.4	273.4	269.6	264.4	276.9	357.1	816.9	931.1	1082.4	1280.5	1492.5
75°	247.5	244.8	240.2	233.6	242.4	269.6	392.3	440.2	514.0	619.5	737.6
77.5°	218.6	215.1	210.9	206.1	217.2	209.6	230.0	247.2	275.4	309.2	353.8
80°	185.9	182.6	181.3	178.9	192.0	159.6	162.4	173.0	189.6	207.9	228.5
82.5°	145.5	145.5	151.0	152.1	166.5	114.8	121.4	130.6	139.2	148.8	158.6
85°	95.8	96.5	115.1	122.3	131.3	77.2	91.0	94.1	101.1	106.5	110.7
87.5°	30.0	32.4	70.3	77.9	75.5	43.8	55.9	57.2	62.1	65.8	69.3
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8
2.5°	656.7	652.5	648.8	648.4	645.7	641.8	643.3	637.3	637.7	634.6	631.1
5°	772.2	769.4	755.6	751.8	741.5	734.9	733.8	720.1	718.3	710.4	701.8
7.5°	938.3	929.3	910.1	900.6	883.1	870.0	863.8	845.6	836.6	815.8	806.6
10°	1112.4	1101.0	1077.2	1064.1	1047.2	1026.2	1014.8	988.3	978.0	958.9	936.2
12.5°	1273.7	1262.3	1237.8	1227.9	1205.3	1183.0	1170.7	1140.7	1127.1	1096.8	1078.9
15°	1422.9	1411.6	1390.1	1379.8	1357.4	1339.2	1322.6	1293.0	1277.2	1248.9	1225.5
17.5°	1567.7	1555.6	1537.0	1527.7	1506.0	1487.4	1469.4	1441.6	1425.3	1397.1	1376.0
20°	1702.2	1693.2	1679.7	1667.3	1645.6	1628.7	1607.3	1583.2	1559.7	1539.2	1519.1
22.5°	1819.3	1815.9	1801.5	1795.9	1777.2	1762.7	1744.1	1720.4	1703.5	1677.3	1658.6
25°	1920.3	1919.2	1912.4	1910.7	1897.6	1883.7	1879.7	1860.0	1844.5	1821.4	1802.2
27.5°	2007.2	2008.3	2006.5	2011.3	2008.0	2001.7	2002.1	1995.5	1986.5	1967.2	1950.3
30°	2103.7	2098.3	2101.3	2108.2	2110.3	2111.0	2122.3	2126.1	2125.5	2112.7	2104.5
32.5°	2240.2	2227.2	2215.1	2214.1	2220.9	2223.7	2243.0	2253.0	2261.6	2264.7	2266.1
35°	2414.4	2388.1	2362.9	2349.5	2337.8	2340.9	2354.7	2370.9	2389.9	2403.0	2418.5
37.5°	2633.6	2601.5	2557.0	2525.3	2517.4	2500.1	2509.1	2521.8	2540.4	2560.8	2587.7
40°	2899.3	2850.8	2800.7	2758.7	2735.9	2704.2	2703.9	2701.5	2712.9	2731.7	2769.7
42.5°	3155.0	3112.0	3058.8	3014.8	2985.2	2942.7	2934.1	2911.7	2916.9	2933.4	2970.2
45°	3394.6	3359.1	3326.7	3275.8	3250.6	3204.7	3190.2	3163.7	3148.8	3156.5	3193.4
47.5°	3626.6	3603.9	3570.1	3537.0	3517.8	3476.6	3458.1	3439.1	3420.2	3419.4	3458.1
50°	4078.8	4066.8	4026.7	3992.3	4001.7	3951.4	3954.4	3903.4	3926.6	3929.3	4010.3
52.5°	4503.9	4546.0	4575.6	4611.8	4635.3	4639.7	4655.2	4678.4	4706.2	4761.4	4836.5
55°	4747.3	4800.0	4830.7	4858.3	4903.8	4913.4	4939.2	4970.0	4994.4	5056.5	5120.2
57.5°	5036.5	5134.4	5181.9	5225.7	5287.1	5310.5	5353.5	5387.0	5418.8	5492.2	5569.4
60°	5214.7	5334.0	5430.8	5500.1	5576.9	5632.1	5697.2	5749.6	5824.1	5912.0	6027.1
62.5°	5073.0	5248.1	5376.7	5495.6	5600.0	5705.5	5798.9	5896.8	6009.9	6143.0	6321.5
65°	4508.7	4686.9	4907.2	5030.6	5168.8	5331.5	5473.6	5632.1	5786.2	5979.9	6243.9
67.5°	3629.8	3836.9	4084.4	4208.8	4367.7	4549.4	4708.6	4902.4	5082.3	5317.1	5643.5
70°	2616.3	2884.1	3092.3	3222.3	3407.7	3594.9	3748.6	3974.1	4123.0	4363.6	4701.0
72.5°	1656.7	1867.9	2123.1	2286.8	2451.5	2641.1	2798.3	2992.8	3131.6	3350.9	3656.6
75°	890.8	1046.4	1270.6	1426.1	1602.5	1764.5	1948.6	2078.9	2181.6	2355.0	2603.2
77.5°	417.4	512.2	625.6	745.2	864.9	989.7	1111.0	1216.5	1260.6	1359.9	1506.3
80°	253.4	284.0	317.1	354.0	404.0	444.3	497.8	536.4	539.2	570.5	615.2
82.5°	169.2	180.6	190.6	199.9	212.6	222.7	234.1	247.5	253.0	260.2	274.7
85°	115.5	121.0	123.0	128.9	127.6	131.1	135.5	139.9	142.3	142.0	148.6
87.5°	71.1	73.8	75.2	76.5	75.5	74.1	76.3	78.6	79.3	77.2	77.9
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°	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8
2.5°	631.9	628.7	625.6	623.6	622.9	604.6	596.7	591.5	580.5	571.5	564.2
5°	697.0	690.4	685.2	679.0	675.6	629.4	612.6	600.8	581.5	570.2	559.8
7.5°	801.8	783.6	772.8	760.8	750.4	667.0	639.1	620.8	594.0	578.7	567.0
10°	920.7	901.7	884.8	866.2	850.1	716.9	676.2	648.1	612.6	592.9	577.3
12.5°	1053.4	1034.8	1013.5	989.7	969.0	780.4	723.9	683.6	634.9	608.7	587.0
15°	1210.2	1177.5	1151.6	1124.0	1099.9	856.2	779.4	723.5	658.7	623.2	594.2
17.5°	1356.1	1321.6	1286.5	1262.3	1234.5	941.4	835.2	764.3	678.4	632.6	595.6
20°	1498.4	1460.9	1430.5	1398.1	1368.8	1029.5	894.9	800.0	691.2	632.9	587.0
22.5°	1624.0	1600.5	1566.7	1531.5	1501.9	1117.9	950.7	830.3	695.9	625.0	571.9
25°	1766.6	1741.7	1700.4	1670.8	1637.7	1207.8	1005.5	853.7	693.2	610.1	548.4
27.5°	1919.0	1891.4	1849.1	1818.0	1778.0	1301.3	1055.9	870.6	682.8	586.0	517.1
30°	2077.9	2052.7	2011.0	1979.7	1939.4	1400.2	1112.0	882.0	662.1	552.5	480.5
32.5°	2248.5	2227.4	2186.1	2153.3	2110.3	1507.4	1164.4	885.5	630.8	512.9	441.9
35°	2410.5	2396.0	2361.2	2330.6	2285.7	1608.7	1220.0	883.8	593.6	469.5	406.8
37.5°	2592.9	2584.2	2567.0	2528.1	2473.3	1746.3	1286.5	876.6	548.1	426.3	379.9
40°	2787.3	2787.9	2769.3	2742.8	2691.9	1913.1	1365.8	862.5	498.5	388.4	355.4
42.5°	2993.1	3003.8	2994.8	2975.8	2926.9	2081.3	1460.5	845.2	450.2	351.6	331.2
45°	3228.9	3242.0	3255.6	3227.8	3180.3	2303.3	1585.2	822.8	398.1	320.9	314.8
47.5°	3500.9	3521.5	3533.9	3534.2	3486.7	2578.3	1788.0	809.4	352.0	300.3	306.9
50°	4074.7	4081.3	4110.6	4161.6	4125.1	3215.0	2141.9	801.1	320.6	287.5	300.9
52.5°	4901.7	4973.6	5024.4	5021.0	4971.3	3619.5	2337.0	758.3	302.0	282.7	298.1
55°	5238.5	5328.5	5422.2	5447.1	5408.3	3964.5	2521.5	715.6	293.0	286.1	299.2
57.5°	5687.3	5839.0	5967.4	6021.6	5965.7	4406.0	2764.2	693.2	290.2	295.5	305.8
60°	6211.6	6399.1	6568.0	6665.2	6665.2	4913.4	3015.8	683.9	286.5	309.2	316.7
62.5°	6548.3	6823.8	7078.8	7221.2	7217.1	5266.7	3127.4	652.2	277.8	318.9	331.9
65°	6549.6	6877.2	7202.2	7362.1	7370.5	5223.3	2943.0	576.0	261.9	320.2	347.2
67.5°	6003.6	6352.8	6731.7	6910.6	6952.0	4808.3	2547.7	473.7	236.1	306.4	352.7
70°	5070.6	5411.6	5798.2	5974.0	6047.5	4098.9	2052.0	365.0	203.0	276.1	341.3
72.5°	3994.8	4329.2	4598.3	4726.9	4784.1	3133.0	1494.2	275.8	166.5	232.8	310.5
75°	2828.2	3079.2	3222.3	3250.9	3259.9	1888.6	907.9	205.1	137.2	181.0	262.3
77.5°	1596.4	1703.8	1692.1	1704.9	1598.7	729.1	395.4	146.9	113.1	137.5	203.4
80°	623.2	642.5	603.6	591.5	542.6	271.3	174.5	102.4	90.3	104.1	142.3
82.5°	274.7	283.7	275.4	277.5	265.4	139.9	104.5	74.1	69.0	76.3	94.5
85°	151.3	154.1	153.4	157.8	151.3	55.9	49.6	45.5	48.2	51.7	60.7
87.5°	73.8	74.5	72.0	75.8	73.4	28.3	24.5	25.9	28.3	28.9	28.9
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°	591.8	591.8	591.8	591.8	591.8	591.8
2.5°	559.1	556.3	556.7	556.1	554.6	554.6
5°	554.3	551.5	551.5	550.8	549.1	549.5
7.5°	559.1	554.6	552.8	550.5	548.1	548.1
10°	564.6	556.7	551.9	547.8	544.6	544.6
12.5°	568.8	556.3	548.4	542.9	539.8	539.8
15°	570.2	553.9	542.9	536.4	533.6	533.2
17.5°	565.7	544.6	531.2	523.6	520.1	519.1
20°	551.9	527.8	511.6	502.9	498.0	496.4
22.5°	531.2	503.7	484.6	475.7	469.5	468.5
25°	502.2	472.6	454.0	445.4	441.9	440.8
27.5°	468.5	440.8	425.0	419.5	416.5	416.0
30°	436.4	413.0	401.3	397.1	393.3	392.6
32.5°	406.4	391.6	387.1	381.2	372.3	371.3
35°	385.1	383.7	380.5	367.4	356.4	353.3
37.5°	372.0	384.7	368.8	343.0	335.1	334.3
40°	364.4	374.0	346.7	337.8	338.5	337.8
42.5°	347.2	357.1	347.5	343.3	346.1	346.7
45°	329.9	340.9	352.7	349.9	356.4	356.4
47.5°	320.2	336.8	352.2	352.2	361.9	365.4
50°	309.2	333.4	346.7	351.6	359.2	356.4
52.5°	308.5	327.4	338.8	347.5	350.9	347.8
55°	309.6	322.7	330.9	340.5	344.8	345.0
57.5°	311.0	319.9	325.5	329.9	342.3	342.3
60°	314.3	317.5	320.6	323.0	339.1	339.6
62.5°	319.9	315.0	314.3	316.7	337.5	336.1
65°	328.5	311.6	306.4	308.8	335.8	331.7
67.5°	340.2	306.4	296.4	298.1	334.3	325.5
70°	350.9	298.1	284.0	282.3	321.3	305.3
72.5°	352.0	288.4	266.8	261.7	279.2	264.1
75°	334.7	281.9	247.8	232.8	230.6	228.5
77.5°	301.7	278.2	225.7	202.0	197.9	199.2
80°	252.3	264.1	199.2	170.9	193.3	191.0
82.5°	188.6	233.0	169.2	151.3	151.0	133.4
85°	104.7	181.6	137.9	113.4	79.0	76.5
87.5°	29.4	101.1	96.5	64.1	43.8	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)