

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: P270103

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270103
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-01-LED-E1-T2R-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4570.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

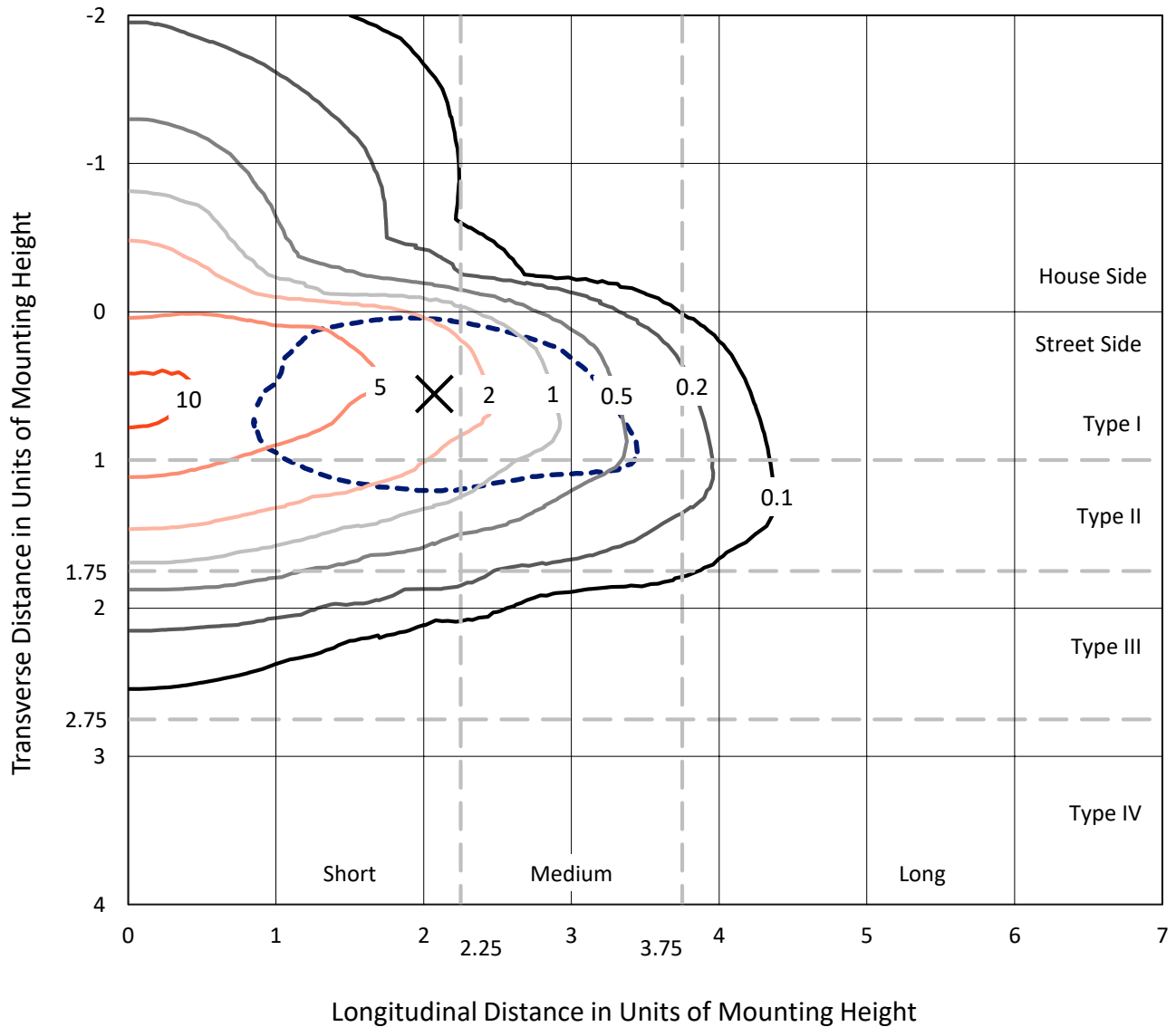
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

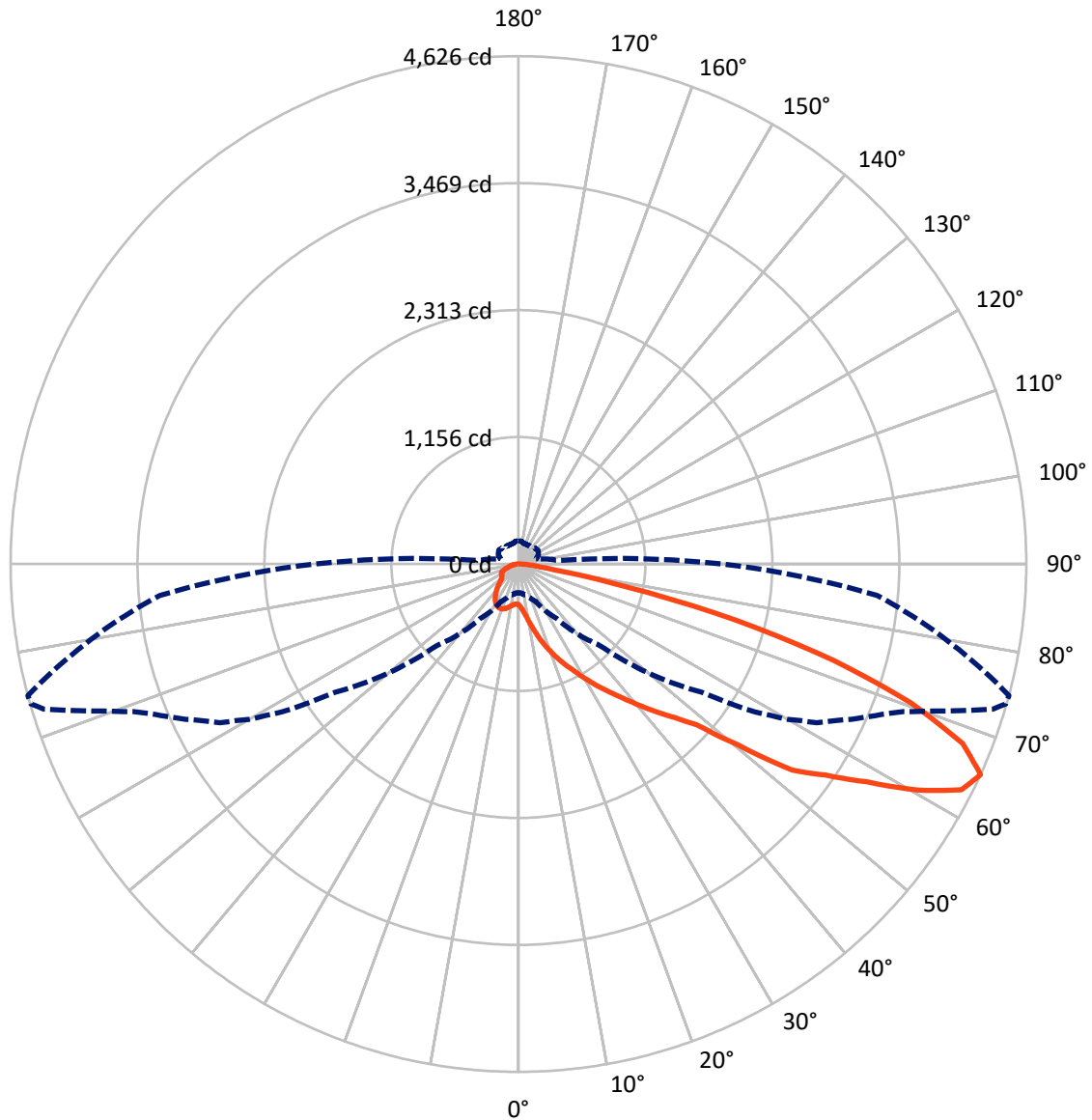
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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	704.7	0.0	704.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3865.8	0.0	3865.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	4570.5	0.0	4570.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.0
10°-20°	179.4	3.9
20°-30°	368.0	8.1
30°-40°	619.2	13.5
40°-50°	855.6	18.7
50°-60°	1068.0	23.4
60°-70°	961.1	21.0
70°-80°	402.9	8.8
80°-90°	70.4	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°	4570.5	100.0
0°-180°	4570.5	100.0



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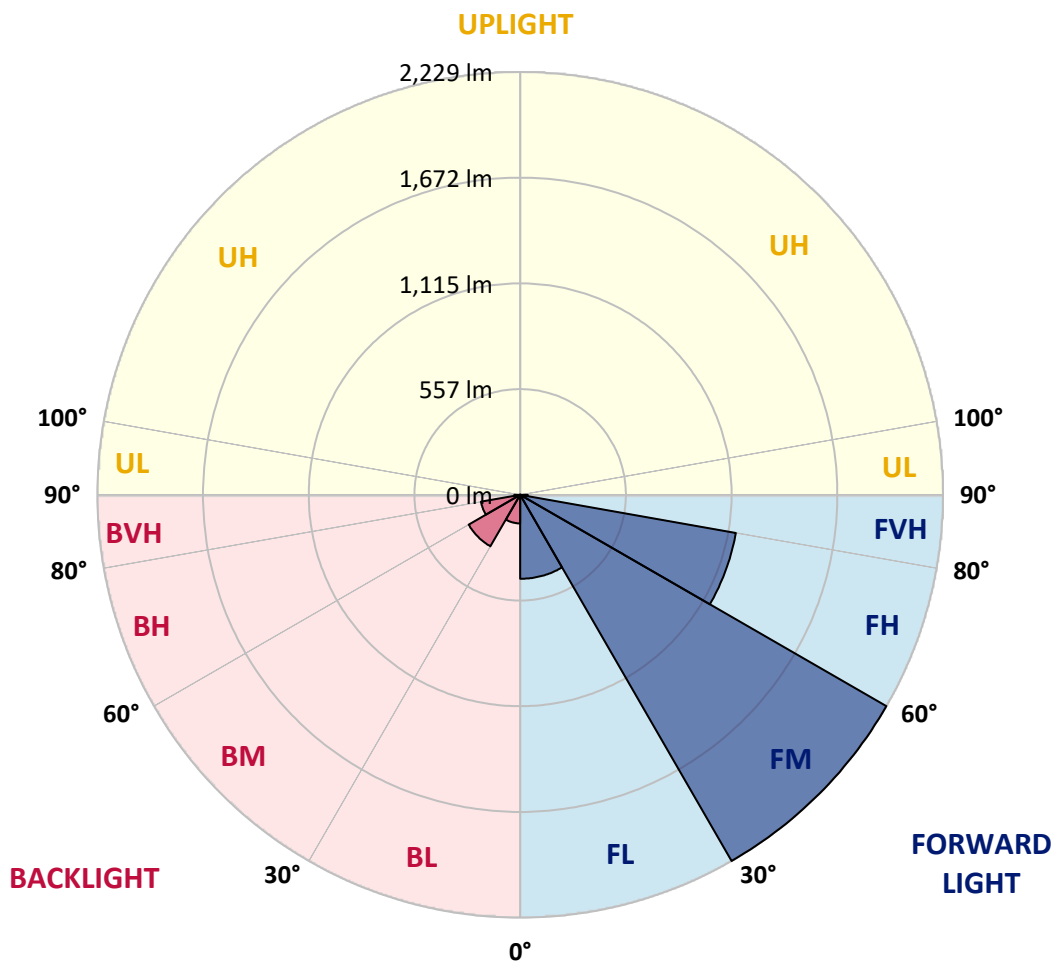
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.6	9.7			
FM	(30°-60°)	2229.1	48.8			
FH	(60°-80°)	1154.5	25.3			G1/1800
FVH	(80°-90°)	39.6	0.9			G1/100
BL	(0°-30°)	150.7	3.3	B1/500		
BM	(30°-60°)	313.6	6.9	B1/1000		
BH	(60°-80°)	209.5	4.6	B1/500		G1/500
BVH	(80°-90°)	30.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4
2.5°	471.6	466.4	467.7	459.0	448.4	434.6	419.2	419.1	419.2	417.8	412.1
5°	654.0	647.7	645.3	625.8	597.3	556.6	512.5	507.7	505.7	500.9	489.4
7.5°	787.0	783.6	779.9	765.1	739.1	693.8	634.5	624.3	614.6	612.2	599.3
10°	872.9	872.0	864.2	860.4	844.1	804.8	746.9	737.2	726.6	723.0	709.4
12.5°	940.8	940.6	936.9	938.0	923.9	895.3	845.6	836.8	829.0	817.7	807.9
15°	987.8	988.0	993.4	999.5	997.3	978.1	931.3	927.4	920.7	912.9	901.4
17.5°	1026.3	1027.4	1033.0	1043.9	1056.0	1054.3	1017.4	1014.2	1008.3	997.7	991.6
20°	1113.3	1117.4	1106.4	1106.4	1107.9	1113.6	1095.9	1093.3	1085.1	1079.5	1074.7
22.5°	1260.1	1264.9	1240.4	1215.5	1191.1	1173.4	1155.6	1158.9	1153.2	1149.3	1146.5
25°	1450.9	1454.6	1415.0	1373.1	1323.3	1258.3	1214.4	1212.5	1209.6	1207.1	1205.9
27.5°	1630.5	1632.0	1594.6	1533.1	1475.4	1382.1	1274.2	1271.7	1268.1	1263.6	1259.7
30°	1784.1	1783.6	1745.1	1686.6	1624.6	1521.5	1364.9	1357.4	1346.6	1334.3	1324.8
32.5°	1917.2	1916.4	1874.3	1813.5	1748.6	1659.4	1489.0	1473.9	1457.1	1433.0	1418.5
35°	2021.8	2021.4	1981.6	1918.2	1843.9	1789.5	1631.3	1612.7	1591.3	1559.1	1536.8
37.5°	2061.4	2061.4	2039.1	1995.9	1930.1	1892.9	1789.5	1767.1	1744.1	1707.5	1682.4
40°	2038.3	2038.7	2043.5	2035.5	2003.4	1974.8	1937.0	1923.6	1904.0	1871.0	1844.8
42.5°	1960.6	1963.0	1994.5	2033.3	2049.3	2044.8	2067.9	2061.9	2048.0	2022.7	2002.0
45°	1862.2	1869.5	1904.1	1977.3	2062.1	2105.1	2177.6	2178.2	2175.6	2162.0	2146.1
47.5°	1727.0	1737.3	1783.0	1881.9	2032.1	2163.7	2289.0	2294.8	2300.2	2291.4	2283.9
50°	1547.4	1559.7	1628.1	1759.2	1971.3	2224.6	2499.4	2525.9	2550.6	2547.5	2552.5
52.5°	1355.1	1369.6	1453.4	1599.3	1866.9	2238.6	2634.0	2677.0	2720.1	2755.4	2792.8
55°	1181.5	1173.8	1257.4	1411.4	1695.1	2175.2	2754.9	2806.8	2854.9	2898.2	2942.8
57.5°	946.5	959.2	1043.1	1195.3	1467.8	1996.3	2838.3	2914.2	2983.2	3054.8	3118.0
60°	691.8	704.6	795.7	950.0	1221.0	1725.0	2774.6	2889.8	3000.2	3110.0	3195.6
62.5°	417.8	427.2	507.5	654.7	941.5	1403.3	2491.3	2642.3	2804.9	2936.0	3067.4
65°	260.1	265.4	295.1	376.0	604.6	1047.7	2035.5	2200.0	2375.3	2541.7	2678.1
67.5°	212.8	214.8	220.2	237.5	332.1	683.3	1515.0	1660.8	1818.9	1979.9	2131.8
70°	191.4	190.2	190.2	191.2	212.8	367.3	991.8	1086.8	1218.6	1358.6	1497.5
72.5°	172.8	171.6	169.2	165.9	173.6	224.1	512.8	584.3	679.2	803.6	936.7
75°	155.3	153.6	150.8	146.7	152.1	169.2	246.2	276.2	322.6	388.7	462.9
77.5°	137.2	135.0	132.4	129.4	136.4	131.5	144.3	155.1	172.8	194.0	221.9
80°	116.7	114.6	113.7	112.3	120.6	100.2	101.9	108.6	118.9	130.4	143.5
82.5°	91.3	91.3	94.8	95.4	104.5	72.0	76.1	82.0	87.4	93.5	99.4
85°	60.1	60.6	72.2	76.8	82.4	48.4	57.1	59.0	63.4	66.8	69.4
87.5°	18.8	20.4	44.1	49.0	47.3	27.5	35.0	35.9	39.0	41.3	43.5
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°	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4
2.5°	412.1	409.4	407.2	406.8	405.1	402.8	403.7	400.0	400.2	398.3	396.1
5°	484.5	482.8	474.2	471.8	465.3	461.2	460.6	451.9	450.9	445.8	440.4
7.5°	588.8	583.3	571.1	565.3	554.2	546.0	542.1	530.6	525.1	512.0	506.3
10°	698.1	690.9	676.1	667.8	657.3	644.0	636.9	620.2	613.7	601.9	587.6
12.5°	799.4	792.2	776.8	770.6	756.6	742.4	734.6	715.9	707.4	688.3	677.1
15°	893.0	885.8	872.4	866.0	851.9	840.5	830.0	811.4	801.5	783.8	769.0
17.5°	983.8	976.4	964.7	958.8	945.2	933.5	922.2	904.8	894.5	876.7	863.6
20°	1068.3	1062.6	1054.2	1046.3	1032.8	1022.2	1008.7	993.6	979.0	965.9	953.4
22.5°	1141.8	1139.6	1130.5	1127.0	1115.3	1106.3	1094.6	1079.7	1069.2	1052.6	1041.0
25°	1205.2	1204.5	1200.1	1199.1	1190.9	1182.3	1179.7	1167.3	1157.6	1143.1	1131.0
27.5°	1259.7	1260.4	1259.2	1262.3	1260.1	1256.2	1256.5	1252.3	1246.7	1234.6	1224.0
30°	1320.3	1316.8	1318.7	1323.1	1324.4	1324.8	1332.0	1334.3	1333.9	1325.9	1320.7
32.5°	1405.9	1397.7	1390.1	1389.5	1393.8	1395.5	1407.6	1413.8	1419.4	1421.3	1422.2
35°	1515.2	1498.7	1483.0	1474.5	1467.1	1469.1	1477.8	1487.9	1499.8	1508.1	1517.8
37.5°	1652.8	1632.6	1604.7	1584.9	1579.8	1569.1	1574.6	1582.6	1594.3	1607.2	1624.0
40°	1819.5	1789.0	1757.6	1731.3	1717.0	1697.1	1696.9	1695.4	1702.5	1714.4	1738.1
42.5°	1980.0	1953.0	1919.8	1892.1	1873.4	1846.8	1841.4	1827.3	1830.6	1840.9	1864.1
45°	2130.4	2108.1	2087.8	2055.8	2040.0	2011.2	2002.1	1985.4	1976.2	1980.9	2004.1
47.5°	2275.9	2261.7	2240.6	2219.7	2207.7	2181.9	2170.2	2158.4	2146.4	2146.1	2170.2
50°	2559.8	2552.3	2527.1	2505.6	2511.4	2479.8	2481.7	2449.8	2464.2	2465.9	2516.8
52.5°	2826.6	2852.9	2871.6	2894.2	2909.0	2911.8	2921.6	2936.0	2953.6	2988.1	3035.3
55°	2979.2	3012.5	3031.6	3048.9	3077.5	3083.5	3099.8	3119.1	3134.4	3173.4	3213.3
57.5°	3160.9	3222.2	3252.1	3279.6	3318.1	3332.8	3359.8	3380.9	3400.7	3446.8	3495.2
60°	3272.7	3347.5	3408.3	3451.7	3500.0	3534.7	3575.5	3608.4	3655.1	3710.4	3782.5
62.5°	3183.7	3293.6	3374.4	3449.0	3514.4	3580.7	3639.3	3700.7	3771.7	3855.3	3967.3
65°	2829.6	2941.4	3079.7	3157.1	3243.9	3346.0	3435.1	3534.7	3631.3	3752.8	3918.6
67.5°	2278.0	2408.0	2563.3	2641.4	2741.1	2855.1	2955.1	3076.6	3189.6	3336.9	3541.7
70°	1642.0	1810.1	1940.7	2022.3	2138.7	2256.1	2352.6	2494.1	2587.6	2738.5	2950.3
72.5°	1039.7	1172.3	1332.4	1435.1	1538.5	1657.6	1756.2	1878.2	1965.4	2103.0	2294.8
75°	559.0	656.8	797.3	895.0	1005.7	1107.3	1223.0	1304.7	1369.1	1478.0	1633.7
77.5°	261.9	321.5	392.6	467.7	542.8	621.1	697.2	763.4	791.0	853.4	945.4
80°	159.0	178.3	199.1	222.2	253.6	278.8	312.4	336.6	338.4	358.1	386.1
82.5°	106.3	113.4	119.7	125.4	133.4	139.7	146.9	155.3	158.8	163.3	172.4
85°	72.5	75.9	77.2	80.9	80.0	82.2	85.0	87.8	89.4	89.1	93.2
87.5°	44.6	46.4	47.2	48.1	47.3	46.5	47.9	49.3	49.8	48.4	49.0
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°	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4	371.4
2.5°	396.5	394.6	392.6	391.3	390.9	379.4	374.4	371.2	364.4	358.6	354.1
5°	437.5	433.3	430.0	426.2	424.1	395.0	384.4	377.0	364.9	357.8	351.3
7.5°	503.1	491.6	485.0	477.4	471.0	418.6	401.1	389.6	372.7	363.3	355.8
10°	577.9	565.8	555.3	543.6	533.5	450.0	424.4	406.7	384.4	372.1	362.4
12.5°	661.2	649.5	636.0	621.1	608.2	489.8	454.3	428.9	398.5	382.0	368.4
15°	759.5	738.9	722.8	705.5	690.3	537.4	489.0	454.1	413.4	391.1	372.9
17.5°	851.0	829.4	807.4	792.2	774.7	590.8	524.2	479.6	425.7	397.0	373.8
20°	940.3	916.8	897.8	877.5	859.0	646.2	561.6	502.1	433.7	397.2	368.4
22.5°	1019.1	1004.4	983.2	961.2	942.6	701.6	596.7	521.1	436.8	392.2	359.0
25°	1108.7	1093.1	1067.1	1048.6	1027.8	758.0	631.0	535.8	435.0	382.9	344.1
27.5°	1204.4	1187.0	1160.4	1140.9	1115.9	816.6	662.7	546.5	428.6	367.8	324.5
30°	1304.0	1288.3	1262.1	1242.4	1217.0	878.7	697.9	553.6	415.6	346.7	301.7
32.5°	1411.1	1397.9	1372.0	1351.5	1324.4	946.0	730.8	555.8	395.9	321.9	277.3
35°	1512.7	1503.7	1481.9	1462.6	1434.4	1009.6	765.6	554.7	372.5	294.6	255.3
37.5°	1627.2	1621.8	1611.0	1586.6	1552.2	1095.9	807.4	550.1	344.0	267.6	238.4
40°	1749.3	1749.6	1738.0	1721.4	1689.4	1200.7	857.1	541.3	312.8	243.8	223.0
42.5°	1878.4	1885.1	1879.5	1867.6	1836.9	1306.2	916.6	530.4	282.5	220.6	208.0
45°	2026.4	2034.6	2043.3	2025.7	1995.9	1445.6	995.0	516.3	249.9	201.4	197.5
47.5°	2197.1	2210.0	2217.8	2218.0	2188.2	1618.1	1122.1	507.9	220.9	188.5	192.5
50°	2557.2	2561.3	2579.8	2611.7	2588.7	2017.7	1344.3	502.8	201.1	180.5	188.8
52.5°	3076.2	3121.4	3153.2	3151.1	3119.9	2271.5	1466.8	475.9	189.5	177.4	187.1
55°	3287.5	3344.0	3403.0	3418.4	3394.2	2488.0	1582.5	449.2	183.9	179.6	187.7
57.5°	3569.2	3664.4	3745.1	3779.1	3744.0	2765.2	1734.8	435.0	182.2	185.3	191.9
60°	3898.3	4016.0	4122.0	4183.0	4183.0	3083.5	1892.6	429.1	179.8	194.0	198.9
62.5°	4109.7	4282.5	4442.6	4531.9	4529.3	3305.3	1962.8	409.3	174.4	200.1	208.3
65°	4110.6	4316.1	4520.0	4620.3	4625.6	3278.1	1847.0	361.6	164.4	201.0	217.8
67.5°	3767.9	3986.9	4224.6	4337.0	4363.0	3017.6	1599.0	297.2	148.2	192.3	221.3
70°	3182.2	3396.1	3638.9	3749.2	3795.3	2572.4	1287.8	229.1	127.5	173.3	214.2
72.5°	2507.1	2716.9	2885.9	2966.5	3002.4	1966.3	937.8	173.1	104.5	146.0	194.9
75°	1775.1	1932.5	2022.3	2040.1	2045.9	1185.3	569.8	128.7	86.1	113.5	164.6
77.5°	1001.8	1069.3	1062.0	1070.0	1003.3	457.5	248.2	92.2	70.9	86.3	127.6
80°	391.1	403.2	378.8	371.2	340.5	170.3	109.5	64.2	56.6	65.3	89.4
82.5°	172.4	178.0	172.8	174.2	166.5	87.8	65.5	46.5	43.2	47.9	59.2
85°	95.0	96.7	96.3	99.1	95.0	35.0	31.2	28.6	30.3	32.4	38.1
87.5°	46.4	46.7	45.3	47.6	46.1	17.8	15.4	16.2	17.8	18.1	18.1
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°	371.4	371.4	371.4	371.4	371.4	371.4
2.5°	350.9	349.2	349.4	349.0	348.1	348.1
5°	347.8	346.1	346.1	345.7	344.7	344.9
7.5°	350.9	348.1	346.9	345.5	344.0	344.0
10°	354.4	349.4	346.4	343.8	341.8	341.8
12.5°	356.9	349.2	344.1	340.7	338.8	338.8
15°	357.8	347.6	340.7	336.6	334.9	334.7
17.5°	355.0	341.8	333.4	328.6	326.4	325.8
20°	346.4	331.2	321.0	315.6	312.6	311.5
22.5°	333.4	316.1	304.1	298.5	294.6	294.0
25°	315.2	296.6	284.9	279.6	277.3	276.7
27.5°	294.0	276.7	266.8	263.3	261.3	261.0
30°	273.9	259.2	251.8	249.2	246.8	246.4
32.5°	255.0	245.8	243.0	239.3	233.6	233.0
35°	241.6	240.7	238.8	230.6	223.7	221.7
37.5°	233.4	241.4	231.5	215.2	210.2	209.8
40°	228.7	234.7	217.7	212.0	212.4	212.0
42.5°	217.8	224.1	218.0	215.4	217.2	217.7
45°	207.1	213.9	221.3	219.6	223.7	223.7
47.5°	201.0	211.4	221.1	221.1	227.1	229.3
50°	194.0	209.2	217.7	220.6	225.4	223.7
52.5°	193.7	205.5	212.6	218.0	220.2	218.3
55°	194.2	202.5	207.6	213.7	216.3	216.5
57.5°	195.1	200.8	204.3	207.1	214.8	214.8
60°	197.3	199.2	201.1	202.7	212.8	213.1
62.5°	200.8	197.7	197.3	198.9	211.8	210.9
65°	206.2	195.6	192.3	193.9	210.7	208.1
67.5°	213.5	192.3	186.0	187.1	209.8	204.3
70°	220.2	187.1	178.3	177.1	201.7	191.7
72.5°	220.9	181.1	167.4	164.2	175.3	165.6
75°	210.0	177.0	155.5	146.0	144.7	143.5
77.5°	189.3	174.5	141.8	126.8	124.1	125.0
80°	158.4	165.6	125.0	107.3	121.4	119.8
82.5°	118.3	146.2	106.3	95.0	94.8	83.7
85°	65.8	114.1	86.5	71.2	49.5	48.1
87.5°	18.4	63.4	60.6	40.2	27.5	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)