

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: P200020

Luminaire Tested: **GWC-AF-02-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200020
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-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 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: 8107.1 lumens
Efficiency: N/A
Efficacy: 122.8 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

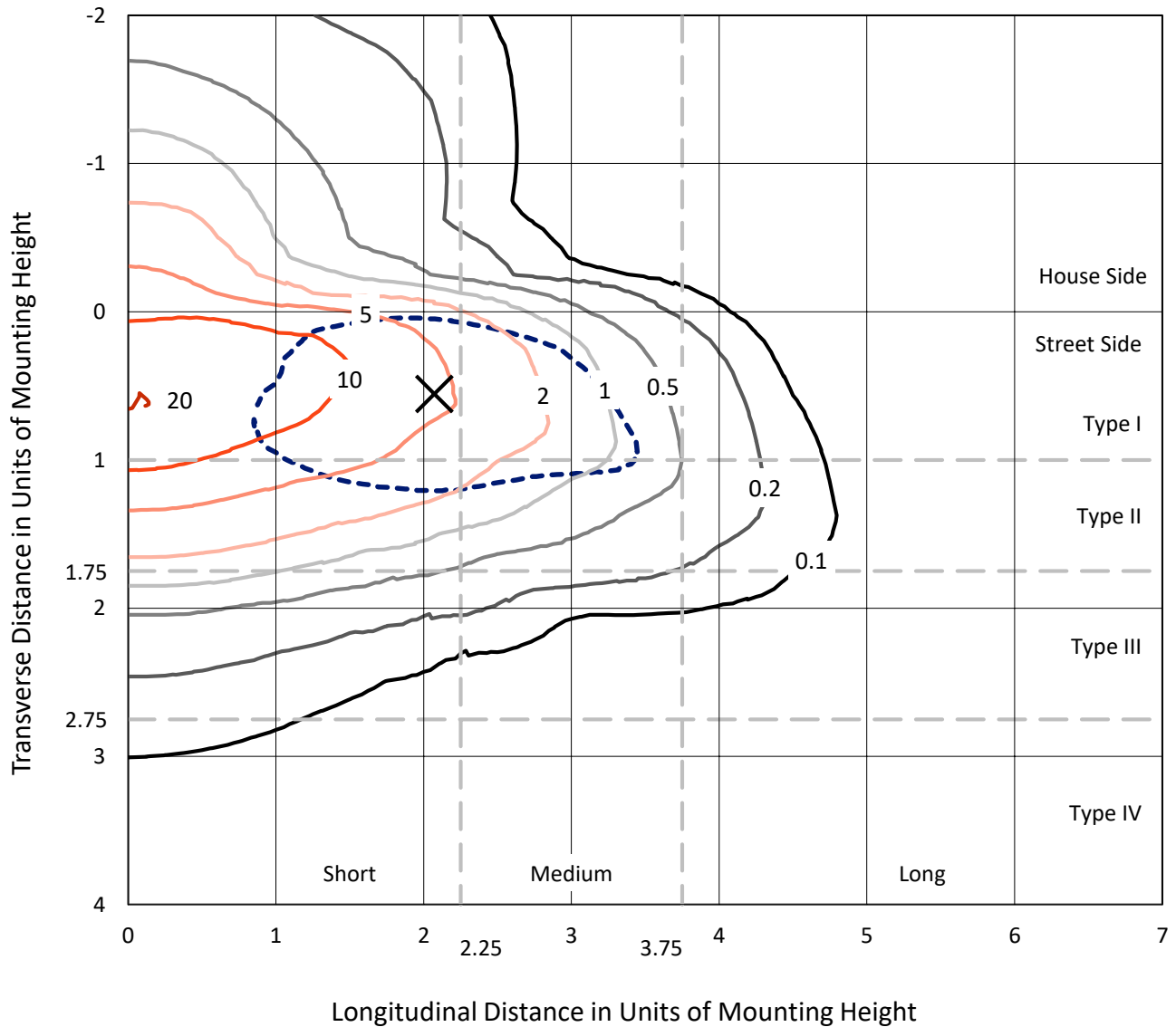


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Iso-Footcandle Lines of Horizontal Illumination

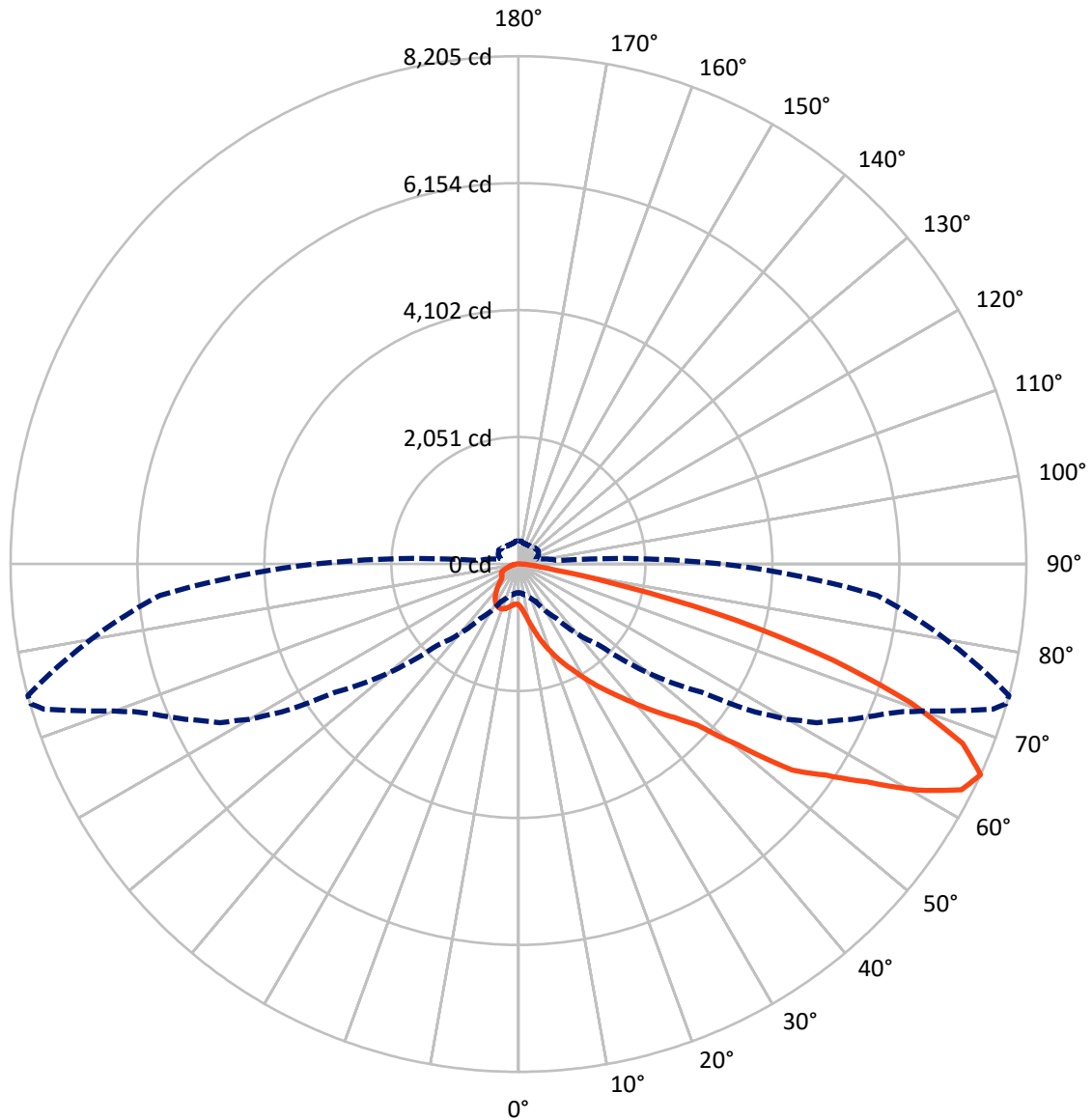
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 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	1249.9	0.0	1249.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6857.2	0.0	6857.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	8107.1	0.0	8107.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	1.0
10°-20°	318.2	3.9
20°-30°	652.8	8.1
30°-40°	1098.3	13.5
40°-50°	1517.6	18.7
50°-60°	1894.4	23.4
60°-70°	1704.8	21.0
70°-80°	714.6	8.8
80°-90°	124.9	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°	8107.1	100.0
0°-180°	8107.1	100.0

Coefficient of Utilization



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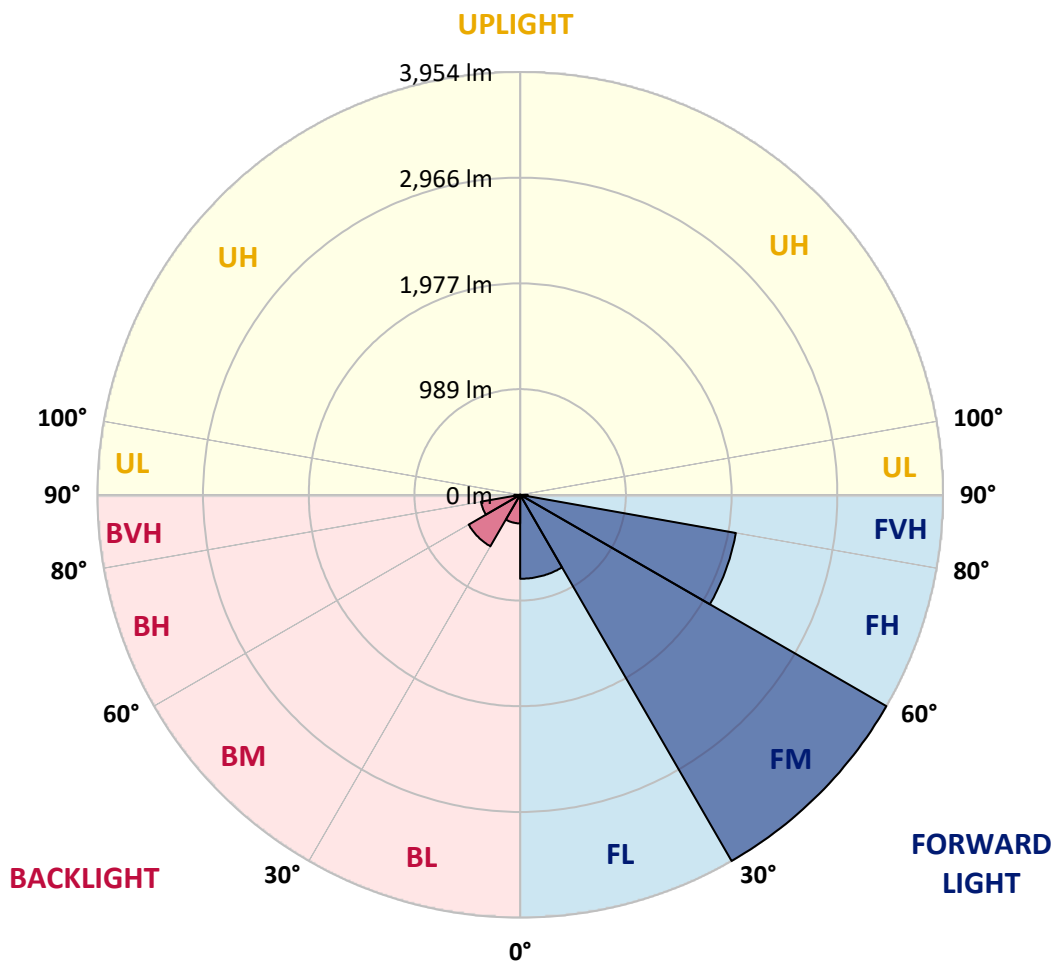
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	785.1	9.7			
FM	(30°-60°)	3954.0	48.8			
FH	(60°-80°)	2047.8	25.3			G2/5000
FVH	(80°-90°)	70.2	0.9			G1/100
BL	(0°-30°)	267.3	3.3	B1/500		
BM	(30°-60°)	556.4	6.9	B1/1000		
BH	(60°-80°)	371.6	4.6	B1/500		G1/500
BVH	(80°-90°)	54.7	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°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	836.5	827.4	829.6	814.3	795.5	770.9	743.7	743.3	743.7	741.0	731.0
5°	1160.0	1148.8	1144.6	1110.2	1059.5	987.3	909.1	900.6	897.2	888.4	868.0
7.5°	1396.0	1389.9	1383.3	1357.2	1311.2	1230.6	1125.5	1107.5	1090.2	1086.0	1062.9
10°	1548.4	1546.8	1533.0	1526.0	1497.3	1427.4	1325.0	1307.7	1288.9	1282.4	1258.3
12.5°	1668.8	1668.5	1661.9	1663.8	1638.9	1588.2	1499.9	1484.3	1470.4	1450.5	1433.2
15°	1752.1	1752.5	1762.0	1772.9	1769.0	1734.8	1651.9	1645.1	1633.1	1619.3	1599.0
17.5°	1820.4	1822.3	1832.3	1851.8	1873.0	1870.3	1804.7	1798.9	1788.5	1769.8	1759.0
20°	1974.7	1982.0	1962.8	1962.8	1965.0	1975.4	1944.0	1939.3	1924.7	1914.8	1906.4
22.5°	2235.3	2243.6	2200.2	2156.2	2112.8	2081.3	2049.9	2055.7	2045.7	2038.7	2033.8
25°	2573.7	2580.1	2510.0	2435.5	2347.3	2232.1	2154.3	2150.8	2145.5	2141.2	2138.9
27.5°	2892.2	2894.8	2828.5	2719.4	2617.0	2451.6	2260.2	2255.9	2249.4	2241.4	2234.4
30°	3164.5	3163.8	3095.5	2991.5	2881.7	2698.7	2421.0	2407.9	2388.7	2366.8	2350.0
32.5°	3400.6	3399.4	3324.6	3216.7	3101.7	2943.6	2641.1	2614.3	2584.4	2541.8	2516.1
35°	3586.3	3585.6	3514.9	3402.5	3270.4	3174.2	2893.7	2860.7	2822.7	2765.5	2726.0
37.5°	3656.6	3656.6	3617.1	3540.3	3423.6	3357.6	3174.2	3134.3	3093.5	3028.8	2984.2
40°	3615.4	3616.2	3624.7	3610.5	3553.7	3503.0	3435.9	3412.1	3377.2	3318.9	3272.4
42.5°	3477.7	3481.9	3538.0	3606.6	3635.0	3626.9	3668.1	3657.3	3632.7	3587.8	3551.0
45°	3303.1	3316.2	3377.5	3507.3	3657.7	3734.0	3862.6	3863.8	3859.1	3835.0	3806.5
47.5°	3063.3	3081.7	3162.7	3338.0	3604.7	3838.0	4060.2	4070.5	4080.2	4064.4	4051.4
50°	2744.8	2766.7	2888.0	3120.5	3496.9	3945.8	4433.6	4480.4	4524.1	4518.7	4527.5
52.5°	2403.7	2429.3	2577.9	2836.8	3311.6	3970.9	4672.2	4748.6	4825.0	4887.6	4954.0
55°	2095.9	2082.1	2230.6	2503.5	3006.9	3858.4	4886.7	4978.9	5064.0	5140.7	5219.8
57.5°	1678.8	1701.4	1850.3	2120.1	2603.6	3541.0	5034.5	5169.2	5291.5	5418.6	5530.6
60°	1227.1	1249.8	1411.3	1685.3	2165.8	3059.8	4921.6	5125.8	5321.9	5516.4	5668.4
62.5°	741.0	757.9	900.2	1161.2	1670.0	2489.3	4419.0	4686.8	4975.4	5208.0	5440.8
65°	461.2	470.9	523.4	666.9	1072.5	1858.4	3610.5	3902.5	4213.3	4508.4	4750.5
67.5°	377.5	381.1	390.6	421.4	589.0	1211.8	2687.2	2945.9	3226.4	3511.9	3781.3
70°	339.6	337.3	337.3	339.2	377.5	651.5	1759.3	1927.9	2161.6	2409.8	2656.2
72.5°	306.6	304.3	300.1	294.3	308.2	397.5	909.4	1036.5	1204.9	1425.5	1661.5
75°	275.5	272.5	267.4	260.1	269.8	300.1	436.7	490.0	572.2	689.6	821.1
77.5°	243.3	239.4	234.8	229.4	241.8	233.3	256.0	275.2	306.6	344.2	393.8
80°	206.9	203.3	201.8	199.1	213.7	177.7	180.8	192.6	211.1	231.4	254.4
82.5°	162.0	162.0	168.1	169.3	185.4	127.8	135.1	145.4	155.0	165.7	176.5
85°	106.7	107.4	128.1	136.2	146.2	85.9	101.3	104.7	112.5	118.6	123.2
87.5°	33.4	36.1	78.3	86.7	84.0	48.8	62.2	63.7	69.1	73.3	77.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	731.0	726.4	722.2	721.8	718.8	714.5	716.1	709.5	709.9	706.4	702.6
5°	859.6	856.5	841.1	836.9	825.4	818.1	816.9	801.6	799.6	790.8	781.3
7.5°	1044.5	1034.5	1013.1	1002.6	983.1	968.5	961.6	941.3	931.3	908.2	897.9
10°	1238.3	1225.6	1199.1	1184.6	1165.8	1142.4	1129.7	1100.2	1088.7	1067.5	1042.2
12.5°	1417.9	1405.2	1377.9	1366.9	1341.8	1316.9	1303.2	1269.8	1254.7	1221.0	1201.0
15°	1584.0	1571.4	1547.5	1536.0	1511.1	1490.8	1472.3	1439.4	1421.8	1390.3	1364.2
17.5°	1745.2	1731.7	1711.0	1700.7	1676.5	1655.8	1635.8	1604.8	1586.7	1555.3	1531.8
20°	1894.9	1884.9	1869.9	1856.1	1831.9	1813.1	1789.3	1762.4	1736.3	1713.4	1691.1
22.5°	2025.3	2021.5	2005.4	1999.2	1978.4	1962.3	1941.6	1915.2	1896.4	1867.2	1846.4
25°	2137.7	2136.5	2128.9	2127.0	2112.4	2097.0	2092.5	2070.6	2053.3	2027.6	2006.2
27.5°	2234.4	2235.6	2233.6	2239.0	2235.3	2228.3	2228.7	2221.4	2211.4	2189.9	2171.1
30°	2341.9	2335.8	2339.2	2346.9	2349.2	2350.0	2362.6	2366.8	2366.1	2351.9	2342.7
32.5°	2493.8	2479.3	2465.9	2464.7	2472.3	2475.4	2496.9	2508.1	2517.6	2521.1	2522.6
35°	2687.7	2658.4	2630.4	2615.5	2602.5	2605.9	2621.3	2639.3	2660.4	2675.0	2692.3
37.5°	2931.7	2896.0	2846.5	2811.2	2802.4	2783.1	2793.1	2807.3	2828.0	2850.7	2880.7
40°	3227.5	3173.5	3117.8	3071.0	3045.6	3010.3	3010.0	3007.3	3020.0	3041.0	3083.2
42.5°	3512.2	3464.3	3405.1	3356.1	3323.1	3275.8	3266.3	3241.3	3247.1	3265.5	3306.5
45°	3778.9	3739.4	3703.3	3646.6	3618.6	3567.5	3551.4	3521.9	3505.3	3513.8	3554.9
47.5°	4037.2	4011.9	3974.3	3937.4	3916.0	3870.2	3849.6	3828.4	3807.4	3806.5	3849.6
50°	4540.6	4527.2	4482.6	4444.3	4454.7	4398.7	4402.1	4345.3	4371.1	4374.1	4464.3
52.5°	5013.8	5060.6	5093.6	5133.9	5160.0	5165.0	5182.2	5208.0	5239.0	5300.4	5384.0
55°	5284.7	5343.4	5377.6	5408.3	5458.9	5469.6	5498.4	5532.6	5559.8	5628.9	5699.9
57.5°	5606.7	5715.6	5768.5	5817.3	5885.6	5911.7	5959.6	5996.9	6032.2	6114.0	6199.9
60°	5805.0	5937.8	6045.6	6122.8	6208.3	6269.7	6342.2	6400.5	6483.4	6581.3	6709.4
62.5°	5647.3	5842.2	5985.4	6117.7	6234.0	6351.4	6455.4	6564.4	6690.3	6838.4	7037.1
65°	5019.1	5217.5	5462.7	5600.1	5753.9	5935.1	6093.2	6269.7	6441.2	6656.9	6950.8
67.5°	4040.7	4271.3	4546.8	4685.3	4862.2	5064.4	5241.7	5457.4	5657.7	5919.0	6282.4
70°	2912.5	3210.6	3442.4	3587.1	3793.5	4001.9	4173.0	4424.0	4589.7	4857.6	5233.2
72.5°	1844.2	2079.4	2363.4	2545.7	2729.0	2940.1	3115.1	3331.6	3486.1	3730.2	4070.5
75°	991.6	1164.9	1414.4	1587.5	1783.9	1964.3	2169.2	2314.2	2428.6	2621.6	2897.9
77.5°	464.6	570.2	696.4	829.6	962.8	1101.7	1236.8	1354.2	1403.3	1513.8	1676.8
80°	282.1	316.2	353.0	394.1	449.7	494.6	554.1	597.1	600.2	635.1	684.9
82.5°	188.4	201.1	212.2	222.5	236.7	247.9	260.6	275.5	281.6	289.7	305.8
85°	128.6	134.7	136.9	143.5	142.0	145.9	150.8	155.7	158.4	158.1	165.4
87.5°	79.1	82.2	83.7	85.2	84.0	82.5	84.9	87.5	88.3	85.9	86.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	703.4	699.9	696.4	694.2	693.4	673.0	664.2	658.5	646.2	636.2	628.1
5°	775.9	768.6	762.8	755.9	752.1	700.7	681.9	668.8	647.3	634.7	623.2
7.5°	892.6	872.3	860.3	846.9	835.4	742.5	711.5	691.1	661.2	644.2	631.2
10°	1024.9	1003.8	985.0	964.3	946.3	798.1	752.8	721.5	681.9	660.0	642.7
12.5°	1172.7	1151.9	1128.2	1101.7	1078.7	868.7	805.9	761.0	706.8	677.6	653.5
15°	1347.2	1310.8	1282.0	1251.3	1224.4	953.1	867.6	805.4	733.3	693.7	661.5
17.5°	1509.6	1471.2	1432.1	1405.2	1374.2	1048.0	929.7	850.8	755.2	704.2	663.0
20°	1668.0	1626.3	1592.4	1556.4	1523.8	1146.1	996.2	890.6	769.4	704.5	653.5
22.5°	1807.8	1781.7	1744.1	1704.9	1671.9	1244.4	1058.3	924.3	774.7	695.7	636.6
25°	1966.6	1938.9	1892.9	1860.0	1823.1	1344.5	1119.3	950.4	771.7	679.2	610.5
27.5°	2136.2	2105.5	2058.4	2023.8	1979.3	1448.6	1175.4	969.2	760.1	652.3	575.6
30°	2313.1	2285.1	2238.7	2203.8	2158.9	1558.7	1237.9	981.9	737.1	615.1	534.9
32.5°	2503.0	2479.6	2433.6	2397.1	2349.2	1678.0	1296.2	985.8	702.2	571.0	491.9
35°	2683.4	2667.2	2628.5	2594.4	2544.5	1790.8	1358.1	983.9	660.8	522.6	452.8
37.5°	2886.4	2876.8	2857.6	2814.3	2753.3	1944.0	1432.1	975.8	610.1	474.6	422.9
40°	3102.8	3103.5	3082.8	3053.3	2996.6	2129.7	1520.4	960.1	554.9	432.4	395.6
42.5°	3331.9	3343.8	3333.8	3312.7	3258.2	2316.9	1625.8	940.9	501.2	391.4	368.7
45°	3594.4	3609.0	3624.2	3593.2	3540.3	2564.0	1764.7	916.0	443.2	357.2	350.4
47.5°	3897.2	3920.2	3934.0	3934.3	3881.4	2870.2	1990.4	901.0	391.8	334.3	341.6
50°	4536.0	4543.3	4576.0	4632.7	4592.1	3579.0	2384.4	891.8	356.9	320.1	335.0
52.5°	5456.6	5536.7	5593.2	5589.4	5534.1	4029.2	2601.6	844.2	336.2	314.7	331.9
55°	5831.5	5931.7	6036.0	6063.7	6020.6	4413.3	2807.0	796.6	326.2	318.5	333.1
57.5°	6331.1	6500.0	6643.0	6703.3	6641.1	4904.8	3077.1	771.7	323.1	328.9	340.4
60°	6914.8	7123.5	7311.5	7419.7	7419.7	5469.6	3357.2	761.3	318.9	344.2	352.6
62.5°	7289.6	7596.3	7880.2	8038.7	8034.1	5862.9	3481.5	726.0	309.3	355.0	369.5
65°	7291.1	7655.7	8017.5	8195.6	8204.9	5814.6	3276.2	641.2	291.6	356.5	386.5
67.5°	6683.3	7072.0	7493.8	7692.9	7739.0	5352.6	2836.1	527.3	262.8	341.1	392.6
70°	5644.6	6024.2	6454.6	6650.3	6732.1	4562.9	2284.3	406.3	226.0	307.4	379.9
72.5°	4447.0	4819.3	5118.9	5262.0	5325.7	3487.7	1663.4	307.0	185.4	259.1	345.7
75°	3148.4	3427.8	3587.1	3618.9	3628.9	2102.4	1010.7	228.3	152.7	201.5	292.0
77.5°	1777.1	1896.7	1883.7	1897.9	1779.7	811.6	440.2	163.5	125.9	153.1	226.4
80°	693.7	715.2	671.9	658.5	604.0	302.0	194.2	114.0	100.5	115.9	158.4
82.5°	305.8	315.8	306.6	308.9	295.5	155.7	116.3	82.5	76.8	84.9	105.2
85°	168.4	171.5	170.8	175.7	168.4	62.2	55.2	50.7	53.7	57.6	67.6
87.5°	82.2	82.9	80.2	84.4	81.7	31.5	27.3	28.8	31.5	32.2	32.2
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):

	135°	145°	155°	165°	175°	180°
0°	658.8	658.8	658.8	658.8	658.8	658.8
2.5°	622.4	619.3	619.7	619.0	617.4	617.4
5°	617.1	613.9	613.9	613.2	611.3	611.7
7.5°	622.4	617.4	615.4	612.8	610.1	610.1
10°	628.5	619.7	614.4	609.8	606.3	606.3
12.5°	633.2	619.3	610.5	604.4	600.9	600.9
15°	634.7	616.6	604.4	597.1	594.0	593.6
17.5°	629.7	606.3	591.3	582.9	579.0	577.9
20°	614.4	587.5	569.5	559.8	554.4	552.6
22.5°	591.3	560.7	539.5	529.5	522.6	521.5
25°	559.1	526.1	505.4	495.8	491.9	490.7
27.5°	521.5	490.7	473.1	467.0	463.6	463.1
30°	485.8	459.7	446.7	442.1	437.8	437.0
32.5°	452.4	435.9	430.9	424.4	414.4	413.3
35°	428.7	427.1	423.6	409.0	396.8	393.3
37.5°	414.1	428.2	410.6	381.8	373.0	372.2
40°	405.6	416.3	386.0	376.0	376.8	376.0
42.5°	386.5	397.5	386.8	382.2	385.3	386.0
45°	367.2	379.5	392.6	389.5	396.8	396.8
47.5°	356.5	374.9	392.1	392.1	402.9	406.8
50°	344.2	371.1	386.0	391.4	399.9	396.8
52.5°	343.4	364.5	377.2	386.8	390.6	387.2
55°	344.6	359.2	368.4	379.1	383.8	384.1
57.5°	346.2	356.1	362.3	367.2	381.1	381.1
60°	349.9	353.4	356.9	359.6	377.5	378.0
62.5°	356.1	350.7	349.9	352.6	375.7	374.1
65°	365.7	346.9	341.1	343.8	373.8	369.2
67.5°	378.7	341.1	330.0	331.9	372.2	362.3
70°	390.6	331.9	316.2	314.3	357.7	339.9
72.5°	391.8	321.1	297.0	291.3	310.8	294.0
75°	372.6	313.8	275.9	259.1	256.7	254.4
77.5°	335.8	309.7	251.3	224.9	220.3	221.8
80°	280.9	294.0	221.8	190.3	215.2	212.6
82.5°	209.9	259.4	188.4	168.4	168.1	148.5
85°	116.6	202.2	153.5	126.2	87.9	85.2
87.5°	32.7	112.5	107.4	71.4	48.8	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)