

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: P270063

Luminaire Tested: **GPC-AF-02-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270063
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: GPC-AF-02-LED-E1-T2R-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9084.6 lumens
Efficiency: N/A
Efficacy: 105.6 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): 86
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

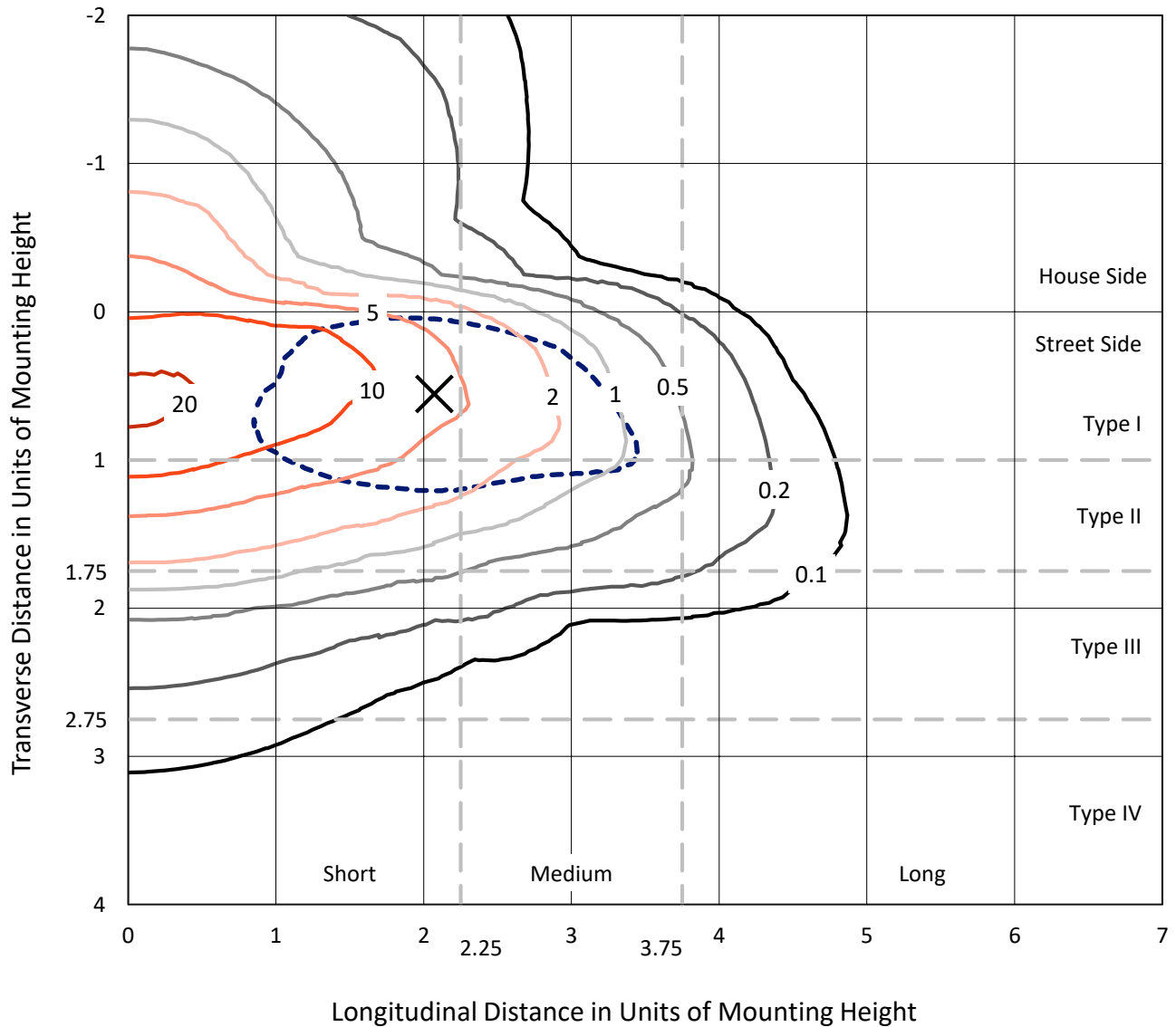


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Iso-Footcandle Lines of Horizontal Illumination

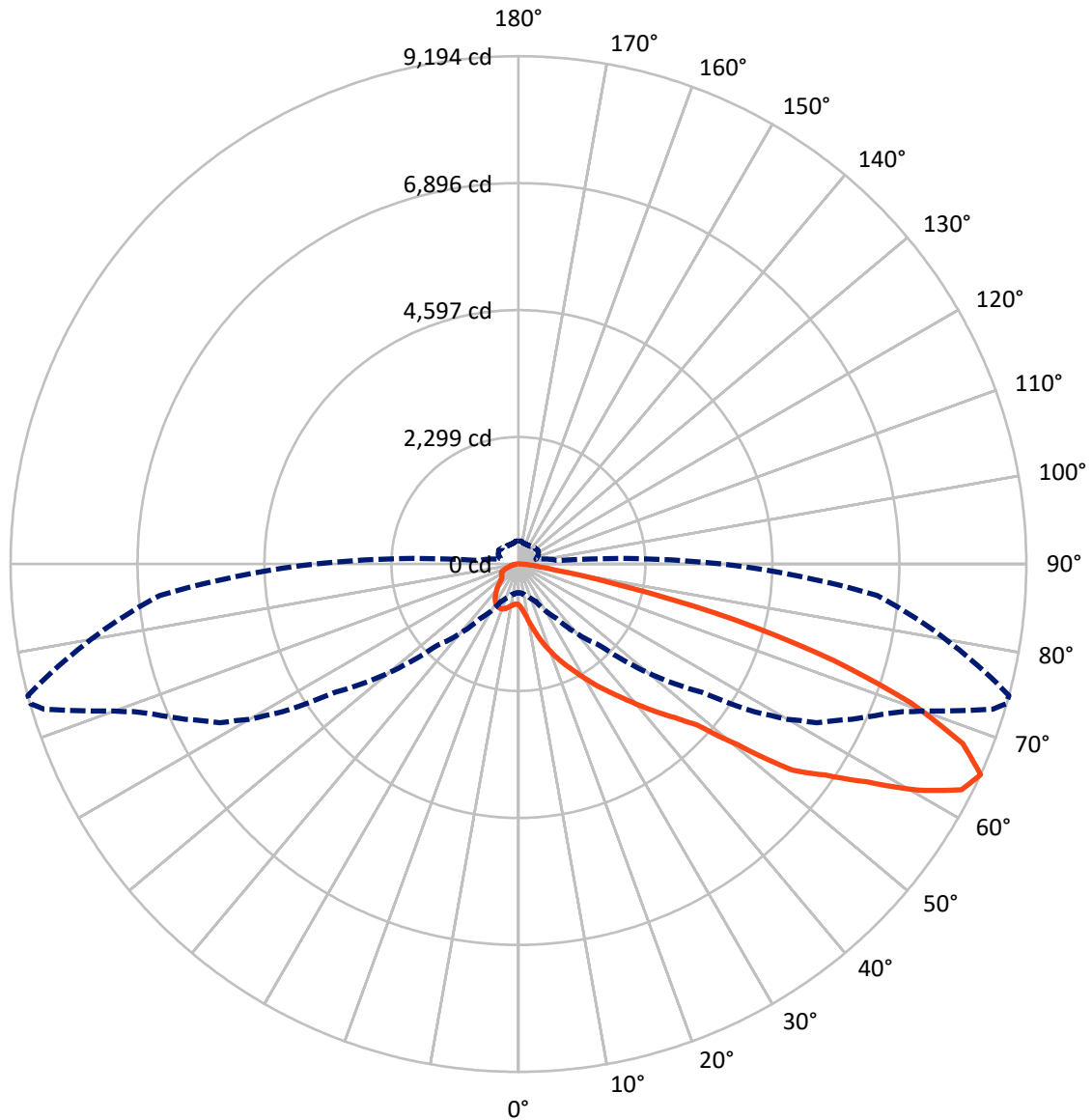
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 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	1400.6	0.0	1400.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	7684.0	0.0	7684.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	9084.6	0.0	9084.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.0
10°-20°	356.6	3.9
20°-30°	731.5	8.1
30°-40°	1230.8	13.5
40°-50°	1700.6	18.7
50°-60°	2122.8	23.4
60°-70°	1910.3	21.0
70°-80°	800.8	8.8
80°-90°	139.9	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°	9084.6	100.0
0°-180°	9084.6	100.0

Coefficient of Utilization



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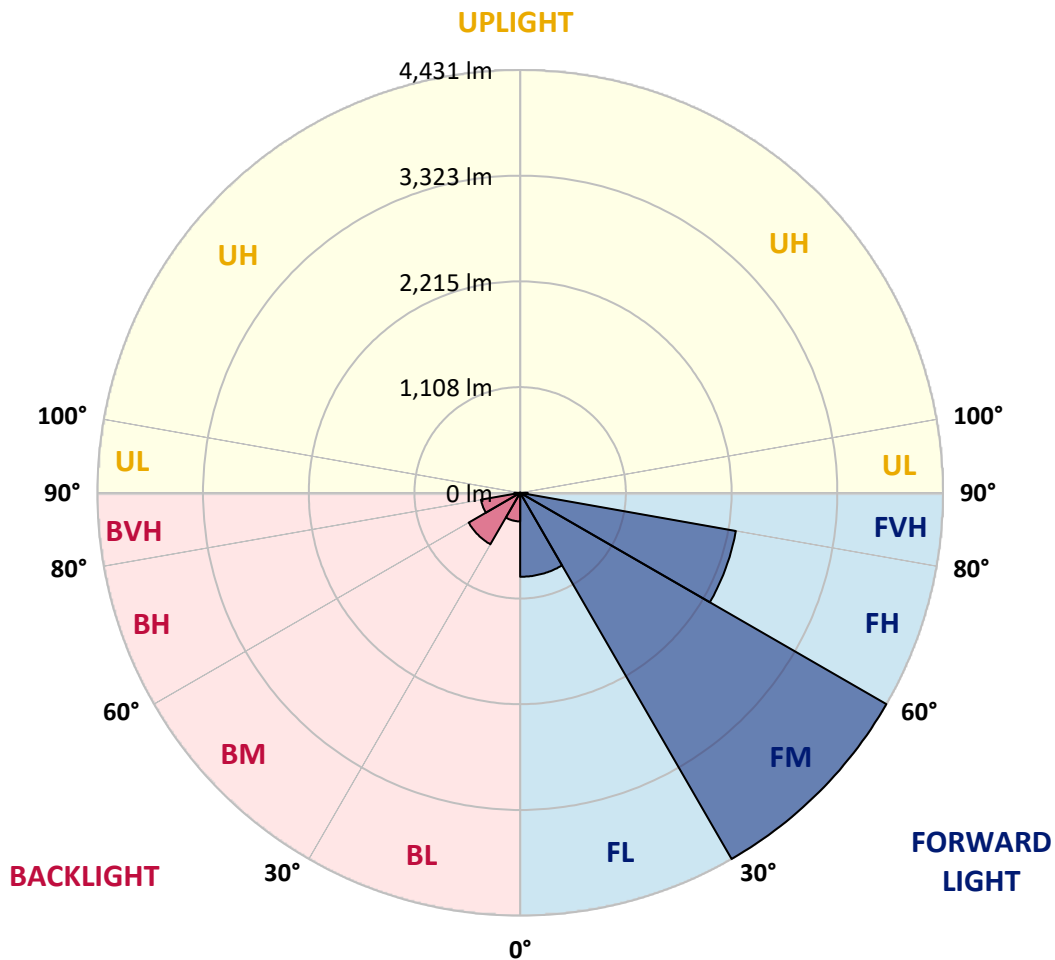
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	879.8	9.7			
FM	(30°-60°)	4430.8	48.8			
FH	(60°-80°)	2294.7	25.3			G2/5000
FVH	(80°-90°)	78.6	0.9			G1/100
BL	(0°-30°)	299.5	3.3	B1/500		
BM	(30°-60°)	623.4	6.9	B1/1000		
BH	(60°-80°)	416.4	4.6	B1/500		G1/500
BVH	(80°-90°)	61.3	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°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	937.4	927.1	929.7	912.5	891.4	863.9	833.3	832.9	833.3	830.4	819.2
5°	1299.8	1287.5	1282.7	1244.0	1187.2	1106.4	1018.7	1009.2	1005.4	995.4	972.7
7.5°	1564.3	1557.4	1550.1	1520.9	1469.3	1379.0	1261.2	1241.0	1221.7	1216.8	1191.2
10°	1735.0	1733.3	1717.7	1710.1	1677.9	1599.6	1484.8	1465.5	1444.4	1437.0	1409.9
12.5°	1870.0	1869.6	1862.2	1864.4	1836.5	1779.7	1680.9	1663.2	1647.8	1625.4	1606.0
15°	1963.3	1963.8	1974.6	1986.5	1982.3	1944.0	1851.0	1843.4	1830.0	1814.5	1791.8
17.5°	2040.0	2042.0	2053.3	2075.2	2098.8	2095.7	2022.3	2015.7	2004.2	1983.1	1971.2
20°	2212.7	2220.9	2199.4	2199.4	2201.9	2213.7	2178.3	2173.2	2156.8	2145.6	2136.2
22.5°	2504.7	2514.1	2465.6	2416.1	2367.6	2332.3	2297.1	2303.4	2292.3	2284.6	2279.0
25°	2884.0	2891.3	2812.6	2729.2	2630.2	2501.3	2413.9	2410.2	2404.0	2399.4	2396.8
27.5°	3240.8	3243.9	3169.5	3047.4	2932.5	2747.2	2532.6	2527.9	2520.6	2511.7	2503.8
30°	3546.1	3545.3	3468.7	3352.2	3229.2	3024.1	2712.8	2698.1	2676.7	2652.2	2633.3
32.5°	3810.6	3809.4	3725.5	3604.5	3475.6	3298.4	2959.6	2929.6	2896.0	2848.3	2819.5
35°	4018.7	4017.8	3938.7	3812.8	3664.8	3556.8	3242.6	3205.6	3163.0	3099.0	3054.6
37.5°	4097.3	4097.3	4053.2	3967.2	3836.4	3762.5	3556.8	3512.2	3466.6	3393.9	3344.0
40°	4051.4	4052.3	4061.6	4045.7	3982.1	3925.5	3850.1	3823.5	3784.4	3719.1	3667.1
42.5°	3896.9	3901.8	3964.5	4041.6	4073.4	4064.3	4110.3	4098.2	4070.7	4020.5	3979.1
45°	3701.3	3716.0	3784.7	3930.2	4098.6	4184.2	4328.4	4329.7	4324.4	4297.3	4265.5
47.5°	3432.7	3453.3	3544.1	3740.5	4039.4	4300.7	4549.7	4561.4	4572.2	4554.4	4539.9
50°	3075.7	3100.2	3236.1	3496.7	3918.5	4421.5	4968.2	5020.5	5069.7	5063.6	5073.4
52.5°	2693.5	2722.3	2888.7	3178.9	3710.9	4449.6	5235.6	5321.2	5406.7	5476.7	5551.2
55°	2348.6	2333.2	2499.5	2805.2	3369.5	4323.6	5476.0	5579.2	5674.7	5760.7	5849.1
57.5°	1881.2	1906.7	2073.4	2375.7	2917.4	3968.0	5641.4	5792.5	5929.6	6072.0	6197.4
60°	1375.1	1400.5	1581.6	1888.5	2427.0	3428.8	5515.1	5743.9	5963.6	6181.5	6351.8
62.5°	830.4	849.3	1008.7	1301.1	1871.3	2789.3	4951.7	5251.9	5575.3	5835.8	6096.8
65°	516.9	527.7	586.6	747.3	1201.8	2082.5	4045.7	4372.9	4721.3	5052.0	5323.3
67.5°	423.1	427.0	437.7	472.1	660.1	1357.9	3011.3	3301.0	3615.4	3935.3	4237.1
70°	380.5	377.9	377.9	380.2	423.1	730.1	1971.5	2160.2	2422.1	2700.3	2976.4
72.5°	343.5	340.9	336.2	329.8	345.3	445.5	1019.0	1161.4	1350.2	1597.5	1861.8
75°	308.7	305.3	299.8	291.5	302.3	336.2	489.3	549.1	641.1	772.7	920.1
77.5°	272.6	268.4	263.2	257.2	270.8	261.4	286.7	308.3	343.5	385.7	441.2
80°	231.8	227.9	226.2	223.1	239.5	199.1	202.5	215.9	236.6	259.3	285.1
82.5°	181.5	181.5	188.4	189.6	207.7	143.2	151.4	163.0	173.7	185.8	197.7
85°	119.6	120.5	143.5	152.6	163.9	96.3	113.5	117.4	126.0	132.9	138.0
87.5°	37.4	40.5	87.8	97.1	94.1	54.5	69.7	71.3	77.4	82.1	86.4
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	819.2	814.0	809.3	808.8	805.4	800.7	802.4	795.1	795.4	791.6	787.4
5°	963.3	959.7	942.5	937.8	925.0	916.7	915.5	898.2	896.1	886.2	875.5
7.5°	1170.4	1159.3	1135.2	1123.6	1101.6	1085.3	1077.5	1054.8	1043.7	1017.8	1006.2
10°	1387.6	1373.4	1343.8	1327.3	1306.3	1280.1	1265.9	1232.7	1219.9	1196.3	1167.8
12.5°	1588.8	1574.5	1544.0	1531.6	1503.8	1475.7	1460.3	1422.8	1406.0	1368.3	1345.9
15°	1775.1	1760.8	1734.2	1721.2	1693.3	1670.5	1649.8	1612.8	1593.1	1557.9	1528.6
17.5°	1955.6	1940.6	1917.3	1905.8	1878.6	1855.4	1833.0	1798.2	1778.0	1742.7	1716.5
20°	2123.4	2112.2	2095.3	2079.8	2052.7	2031.6	2005.0	1975.0	1945.6	1919.9	1895.0
22.5°	2269.5	2265.2	2247.1	2240.3	2217.0	2199.1	2175.8	2146.1	2125.0	2092.3	2069.2
25°	2395.5	2394.3	2385.5	2383.5	2367.2	2349.8	2344.8	2320.2	2300.9	2272.1	2248.0
27.5°	2503.8	2505.2	2502.9	2509.0	2504.7	2497.0	2497.4	2489.3	2478.1	2454.0	2432.9
30°	2624.3	2617.3	2621.3	2629.9	2632.5	2633.3	2647.5	2652.2	2651.3	2635.4	2625.0
32.5°	2794.4	2778.2	2763.1	2761.8	2770.5	2773.8	2798.0	2810.4	2821.1	2825.1	2826.7
35°	3011.7	2979.0	2947.6	2930.8	2916.2	2920.1	2937.3	2957.5	2981.1	2997.5	3016.8
37.5°	3285.1	3245.1	3189.7	3150.1	3140.2	3118.7	3130.0	3145.9	3169.0	3194.5	3228.0
40°	3616.7	3556.0	3493.7	3441.2	3412.8	3373.2	3372.9	3369.8	3384.1	3407.7	3455.1
42.5°	3935.7	3881.9	3815.7	3760.8	3723.7	3670.8	3660.1	3632.1	3638.6	3659.2	3705.2
45°	4234.6	4190.2	4149.9	4086.2	4054.8	3997.6	3979.6	3946.4	3928.0	3937.5	3983.4
47.5°	4524.0	4495.6	4453.4	4412.1	4388.1	4336.8	4313.8	4290.0	4266.4	4265.5	4313.8
50°	5088.1	5073.1	5023.1	4980.2	4991.8	4929.0	4932.9	4869.3	4898.1	4901.5	5002.5
52.5°	5618.3	5670.7	5707.7	5752.8	5782.1	5787.7	5807.1	5835.8	5870.8	5939.6	6033.2
55°	5921.8	5987.7	6025.9	6060.3	6117.1	6129.1	6161.4	6199.7	6230.1	6307.5	6387.0
57.5°	6282.7	6404.7	6464.1	6518.7	6595.3	6624.6	6678.2	6720.0	6759.4	6851.1	6947.4
60°	6504.9	6653.7	6774.6	6861.0	6956.8	7025.6	7106.9	7172.2	7265.1	7374.7	7518.5
62.5°	6328.2	6546.7	6707.0	6855.3	6985.7	7117.2	7233.7	7356.0	7497.0	7662.9	7885.6
65°	5624.3	5846.6	6121.4	6275.3	6447.8	6650.7	6827.8	7025.6	7217.8	7459.5	7788.8
67.5°	4527.8	4786.3	5094.9	5250.2	5448.4	5675.0	5873.7	6115.3	6339.8	6632.6	7039.8
70°	3263.6	3597.7	3857.4	4019.6	4250.9	4484.3	4676.1	4957.3	5143.2	5443.3	5864.2
72.5°	2066.6	2330.2	2648.4	2852.6	3058.1	3294.7	3490.6	3733.1	3906.5	4180.0	4561.4
75°	1111.2	1305.4	1585.0	1778.9	1999.1	2201.1	2430.8	2593.2	2721.4	2937.6	3247.4
77.5°	520.7	639.0	780.4	929.7	1078.9	1234.5	1385.8	1517.4	1572.6	1696.3	1879.1
80°	316.1	354.3	395.7	441.5	503.9	554.3	620.9	669.1	672.6	711.6	767.5
82.5°	211.1	225.4	237.8	249.4	265.3	277.8	291.9	308.7	315.7	324.6	342.8
85°	144.1	150.9	153.5	160.8	159.1	163.4	169.1	174.6	177.5	177.1	185.3
87.5°	88.6	92.0	93.8	95.5	94.1	92.4	95.0	98.1	99.0	96.3	97.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	788.2	784.3	780.4	777.8	777.0	754.1	744.3	737.9	724.2	713.0	703.9
5°	869.4	861.2	854.8	847.1	842.8	785.2	764.1	749.5	725.4	711.2	698.3
7.5°	1000.2	977.4	964.1	949.0	936.2	832.0	797.2	774.3	740.9	722.0	707.3
10°	1148.6	1124.9	1103.7	1080.7	1060.4	894.4	843.7	808.4	764.1	739.6	720.3
12.5°	1314.1	1290.9	1264.2	1234.5	1208.7	973.6	902.9	852.8	792.0	759.3	732.3
15°	1509.7	1468.9	1436.6	1402.3	1372.2	1068.2	972.2	902.5	821.7	777.5	741.3
17.5°	1691.6	1648.6	1604.7	1574.5	1539.9	1174.4	1041.9	953.3	846.3	789.0	743.0
20°	1869.2	1822.3	1784.5	1744.1	1707.5	1284.3	1116.2	997.9	862.2	789.5	732.3
22.5°	2025.7	1996.5	1954.4	1910.4	1873.4	1394.4	1185.9	1035.8	868.1	779.5	713.3
25°	2203.7	2172.7	2121.2	2084.2	2042.8	1506.6	1254.4	1065.1	864.7	761.0	684.1
27.5°	2393.8	2359.4	2306.5	2267.9	2217.8	1623.1	1317.0	1086.2	851.9	731.0	645.1
30°	2592.0	2560.6	2508.5	2469.4	2419.1	1746.7	1387.2	1100.3	826.0	689.3	599.3
32.5°	2804.9	2778.5	2727.1	2686.1	2632.5	1880.3	1452.5	1104.6	786.8	639.9	551.3
35°	3006.9	2988.9	2945.5	2907.2	2851.3	2006.8	1521.8	1102.5	740.5	585.6	507.5
37.5°	3234.3	3223.7	3202.2	3153.6	3085.1	2178.3	1604.7	1093.4	683.7	531.8	473.9
40°	3476.9	3477.8	3454.5	3421.5	3357.9	2386.4	1703.6	1075.8	621.7	484.5	443.4
42.5°	3733.6	3747.0	3735.8	3712.2	3651.2	2596.3	1821.9	1054.3	561.6	438.6	413.2
45°	4027.7	4044.1	4061.2	4026.5	3967.2	2873.1	1977.4	1026.5	496.7	400.4	392.6
47.5°	4367.0	4392.8	4408.3	4408.7	4349.4	3216.3	2230.4	1009.7	439.0	374.6	382.7
50°	5082.9	5091.1	5127.6	5191.2	5145.8	4010.6	2672.0	999.4	399.8	358.7	375.4
52.5°	6114.6	6204.4	6267.6	6263.3	6201.4	4514.9	2915.4	945.9	376.7	352.6	372.0
55°	6534.6	6646.7	6763.8	6794.7	6746.6	4945.3	3145.3	892.6	365.5	356.8	373.2
57.5°	7094.5	7283.6	7444.1	7511.5	7441.9	5496.2	3448.1	864.7	362.0	368.6	381.4
60°	7748.5	7982.3	8193.1	8314.4	8314.4	6129.1	3762.0	853.1	357.3	385.7	395.2
62.5°	8168.6	8512.1	8830.2	9007.9	9002.8	6569.8	3901.2	813.5	346.6	397.7	414.1
65°	8170.3	8578.8	8984.3	9183.8	9194.2	6515.6	3671.3	718.6	326.9	399.4	433.1
67.5°	7489.2	7924.8	8397.4	8620.5	8672.1	5998.0	3178.1	590.8	294.6	382.3	439.9
70°	6325.1	6750.5	7233.0	7452.2	7543.7	5113.1	2559.7	455.4	253.2	344.4	425.6
72.5°	4983.2	5400.3	5736.0	5896.5	5967.9	3908.2	1864.1	344.1	207.7	290.2	387.3
75°	3528.2	3841.2	4019.6	4055.3	4066.4	2356.0	1132.7	255.8	171.1	225.7	327.3
77.5°	1991.4	2125.5	2110.8	2126.7	1994.2	909.4	493.2	183.2	141.0	171.5	253.7
80°	777.5	801.5	752.9	737.9	676.9	338.4	217.6	127.6	112.6	129.8	177.5
82.5°	342.8	353.9	343.5	346.1	331.0	174.6	130.3	92.4	86.0	95.0	117.8
85°	188.7	192.1	191.3	197.0	188.7	69.7	62.0	56.8	60.1	64.5	75.6
87.5°	92.0	92.9	89.9	94.6	91.5	35.3	30.5	32.2	35.3	36.1	36.1
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°	738.2	738.2	738.2	738.2	738.2	738.2
2.5°	697.4	694.0	694.4	693.6	691.9	691.9
5°	691.4	688.0	688.0	687.2	685.0	685.3
7.5°	697.4	691.9	689.7	686.8	683.7	683.7
10°	704.4	694.4	688.5	683.3	679.4	679.4
12.5°	709.5	694.0	684.1	677.2	673.4	673.4
15°	711.2	690.9	677.2	669.1	665.6	665.1
17.5°	705.6	679.4	662.6	653.2	648.8	647.6
20°	688.5	658.3	638.1	627.3	621.4	619.2
22.5°	662.6	628.3	604.6	593.4	585.6	584.3
25°	626.5	589.5	566.3	555.5	551.3	549.9
27.5°	584.3	549.9	530.2	523.4	519.4	519.0
30°	544.4	515.2	500.5	495.3	490.7	489.8
32.5°	507.0	488.5	482.8	475.6	464.5	463.0
35°	480.4	478.5	474.8	458.3	444.7	440.8
37.5°	464.0	479.9	460.1	427.9	417.9	417.2
40°	454.5	466.5	432.5	421.3	422.3	421.3
42.5°	433.1	445.5	433.4	428.3	431.7	432.5
45°	411.6	425.3	439.9	436.4	444.7	444.7
47.5°	399.4	420.0	439.5	439.5	451.5	455.8
50°	385.7	415.7	432.5	438.6	448.1	444.7
52.5°	384.8	408.5	422.7	433.4	437.7	433.8
55°	386.1	402.5	412.9	424.8	430.0	430.4
57.5°	387.9	399.0	405.9	411.6	427.0	427.0
60°	392.2	396.1	399.8	402.9	423.1	423.6
62.5°	399.0	393.0	392.2	395.2	420.9	419.2
65°	409.7	388.6	382.3	385.3	418.8	413.7
67.5°	424.4	382.3	369.8	372.0	417.2	405.9
70°	437.7	372.0	354.3	352.1	400.7	381.1
72.5°	439.0	360.0	332.8	326.4	348.4	329.4
75°	417.5	351.7	309.1	290.2	287.6	285.1
77.5°	376.2	347.0	281.7	252.0	246.9	248.6
80°	314.8	329.4	248.6	213.3	241.3	238.2
82.5°	235.1	290.7	211.1	188.7	188.4	166.4
85°	130.8	226.6	171.9	141.5	98.5	95.5
87.5°	36.6	126.0	120.5	79.9	54.5	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)