

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: P269984

Luminaire Tested: **GPC-AF-01-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269984
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-01-LED-E1-T2R-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6310.9 lumens
Efficiency: N/A
Efficacy: 94.2 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

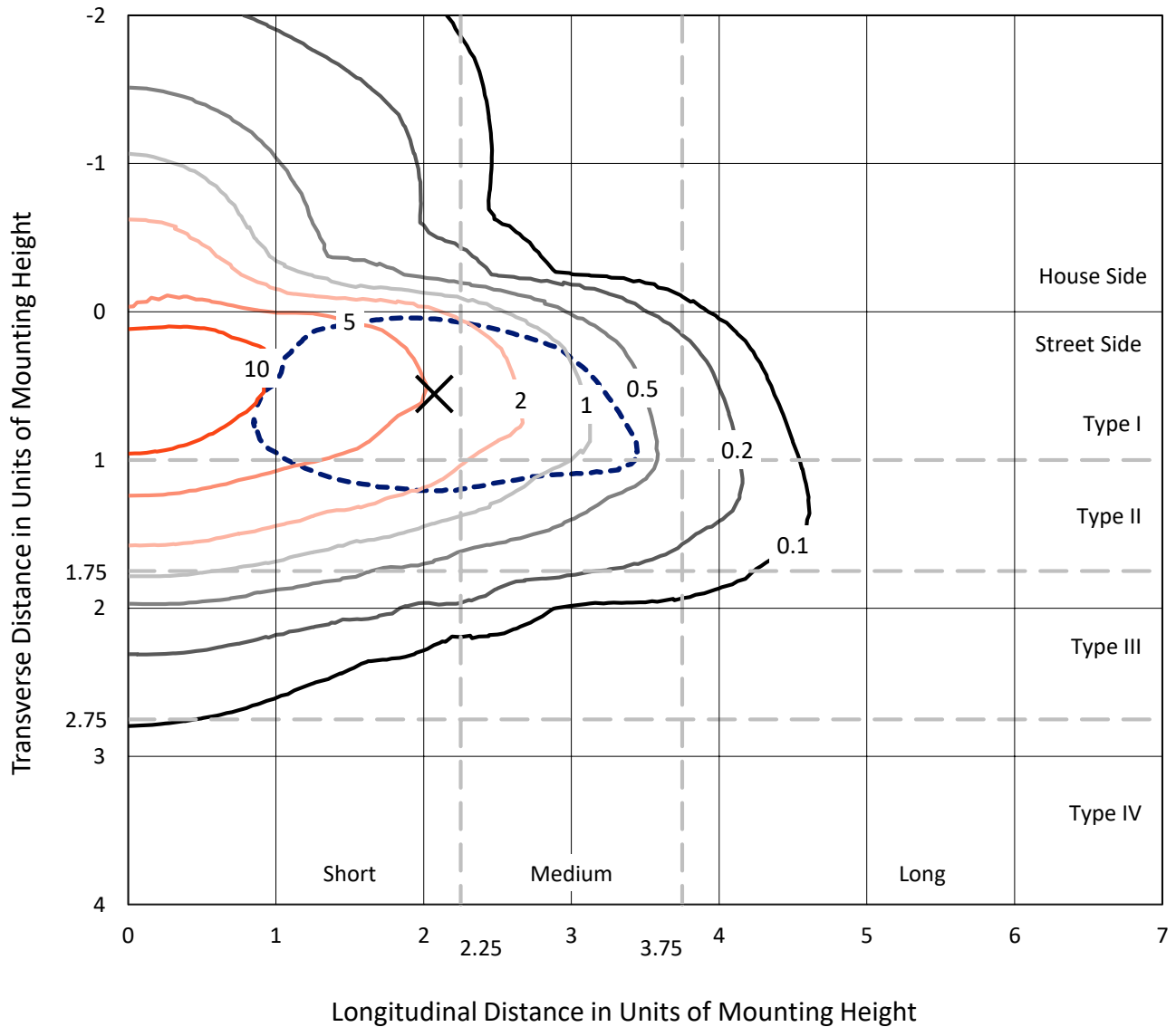
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

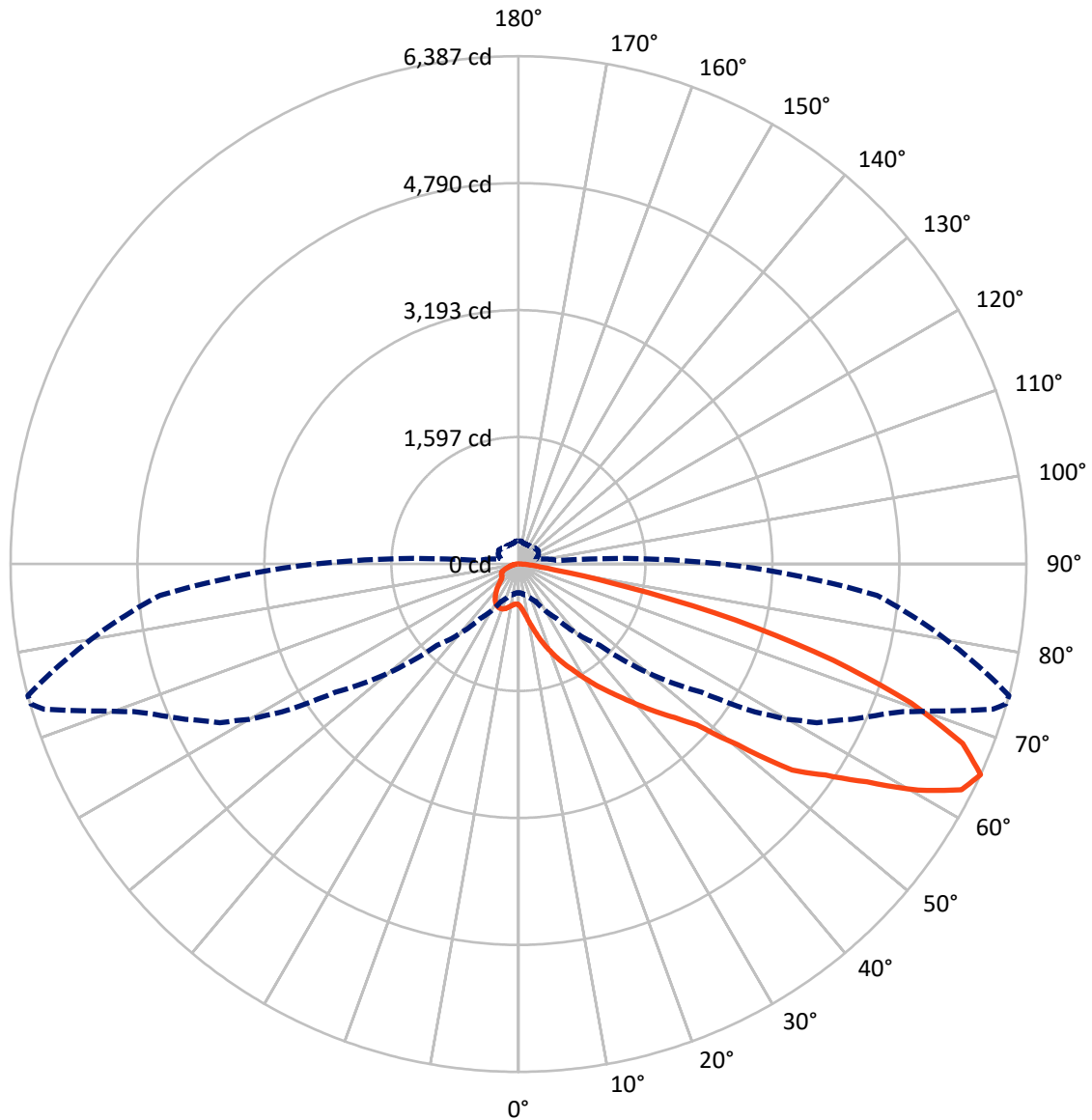
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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	973.0	0.0	973.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5337.9	0.0	5337.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	6310.9	0.0	6310.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.0
10°-20°	247.7	3.9
20°-30°	508.2	8.1
30°-40°	855.0	13.5
40°-50°	1181.4	18.7
50°-60°	1474.7	23.4
60°-70°	1327.1	21.0
70°-80°	556.3	8.8
80°-90°	97.2	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°	6310.9	100.0
0°-180°	6310.9	100.0

Coefficient of Utilization



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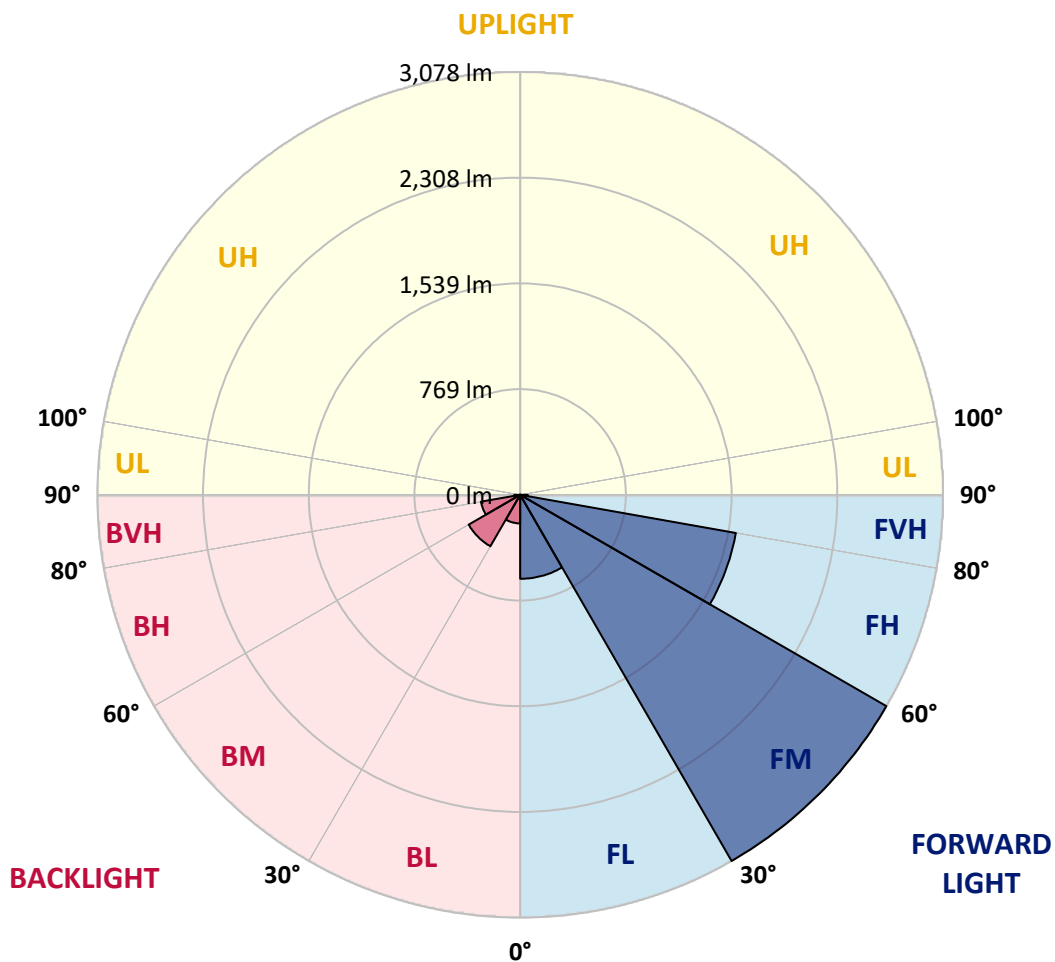
CATALOG NUMBER: GPC-AF-01-LED-E1-T2R-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.2	9.7			
FM (30°-60°)	3078.0	48.8			
FH (60°-80°)	1594.1	25.3			G1/1800
FVH (80°-90°)	54.6	0.9			G1/100
BL (0°-30°)	208.1	3.3	B1/500		
BM (30°-60°)	433.1	6.9	B1/1000		
BH (60°-80°)	289.3	4.6	B1/500		G1/500
BVH (80°-90°)	42.6	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°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	651.2	644.1	645.8	633.8	619.2	600.1	578.9	578.6	578.9	576.8	569.0
5°	902.9	894.4	891.1	864.2	824.7	768.6	707.7	701.0	698.4	691.5	675.6
7.5°	1086.7	1081.9	1076.9	1056.5	1020.7	958.0	876.0	862.1	848.5	845.3	827.3
10°	1205.3	1204.1	1193.4	1188.0	1165.6	1111.3	1031.4	1018.0	1003.3	998.2	979.4
12.5°	1299.0	1298.8	1293.6	1295.1	1275.9	1236.3	1167.6	1155.4	1144.7	1129.1	1115.7
15°	1363.8	1364.2	1371.7	1380.1	1377.0	1350.4	1286.0	1280.5	1271.3	1260.5	1244.7
17.5°	1417.0	1418.6	1426.2	1441.6	1457.9	1456.0	1404.8	1400.4	1392.4	1377.6	1369.2
20°	1537.2	1542.7	1527.8	1527.8	1529.8	1537.8	1513.3	1509.7	1498.4	1490.6	1484.0
22.5°	1739.9	1746.6	1712.8	1678.5	1644.6	1620.3	1595.7	1600.2	1592.4	1587.0	1583.2
25°	2003.4	2008.5	1953.9	1896.0	1827.2	1737.6	1677.0	1674.4	1670.0	1666.7	1665.0
27.5°	2251.3	2253.5	2201.7	2116.9	2037.1	1908.4	1759.4	1756.0	1751.1	1744.8	1739.4
30°	2463.4	2462.9	2409.8	2328.8	2243.2	2100.9	1884.6	1874.5	1859.4	1842.5	1829.3
32.5°	2647.1	2646.2	2587.9	2504.0	2414.5	2291.3	2056.0	2035.1	2011.8	1978.6	1958.7
35°	2791.8	2791.2	2736.1	2648.7	2545.8	2470.9	2252.6	2226.9	2197.3	2152.8	2122.1
37.5°	2846.4	2846.4	2815.6	2755.9	2665.1	2613.7	2470.9	2439.8	2408.1	2357.7	2323.0
40°	2814.4	2815.0	2821.5	2810.5	2766.3	2727.0	2674.7	2656.1	2628.9	2583.5	2547.5
42.5°	2707.2	2710.5	2754.2	2807.6	2829.8	2823.5	2855.4	2847.0	2827.9	2792.9	2764.3
45°	2571.3	2581.5	2629.2	2730.2	2847.3	2906.7	3006.7	3007.7	3004.1	2985.2	2963.1
47.5°	2384.6	2399.0	2462.0	2598.4	2806.0	2987.8	3160.6	3168.7	3176.1	3163.9	3153.8
50°	2136.7	2153.6	2248.1	2429.0	2722.1	3071.7	3451.3	3487.7	3521.7	3517.7	3524.5
52.5°	1871.1	1891.1	2006.8	2208.4	2577.9	3091.1	3637.1	3696.5	3756.0	3804.6	3856.3
55°	1631.5	1620.8	1736.5	1948.8	2340.7	3003.6	3804.1	3875.7	3942.0	4001.8	4063.4
57.5°	1306.9	1324.6	1440.4	1650.4	2026.8	2756.4	3919.0	4023.9	4119.2	4218.1	4305.2
60°	955.3	973.0	1098.6	1312.0	1685.8	2381.9	3831.2	3990.1	4142.9	4294.3	4412.6
62.5°	576.8	589.9	700.8	903.9	1299.9	1937.7	3439.9	3648.5	3873.0	4054.1	4235.4
65°	359.1	366.5	407.4	519.2	834.9	1446.6	2810.5	3037.9	3279.8	3509.6	3698.1
67.5°	293.9	296.6	304.0	328.1	458.6	943.3	2091.9	2293.3	2511.5	2733.8	2943.4
70°	264.3	262.6	262.6	264.0	293.9	507.3	1369.6	1500.7	1682.6	1875.9	2067.7
72.5°	238.7	236.9	233.6	229.1	239.8	309.5	708.0	806.8	937.9	1109.6	1293.4
75°	214.4	212.1	208.1	202.5	210.1	233.6	339.9	381.4	445.4	536.7	639.2
77.5°	189.5	186.4	182.8	178.7	188.1	181.5	199.2	214.2	238.7	268.0	306.5
80°	160.9	158.3	157.2	155.0	166.4	138.2	140.7	149.9	164.3	180.1	198.0
82.5°	126.0	126.0	130.9	131.7	144.3	99.4	105.1	113.1	120.7	129.0	137.4
85°	83.1	83.6	99.8	106.0	113.8	67.0	78.8	81.6	87.6	92.3	95.8
87.5°	26.1	28.0	60.9	67.6	65.4	38.0	48.4	49.5	53.8	57.0	60.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	569.0	565.5	562.2	561.9	559.5	556.2	557.4	552.3	552.5	549.9	547.0
5°	669.1	666.7	654.8	651.5	642.5	636.9	636.0	624.1	622.5	615.7	608.2
7.5°	813.1	805.3	788.6	780.5	765.3	753.9	748.6	732.7	724.9	707.1	699.1
10°	963.9	954.1	933.5	922.1	907.5	889.2	879.4	856.4	847.5	831.0	811.3
12.5°	1103.7	1093.9	1072.7	1064.0	1044.5	1025.1	1014.5	988.5	976.7	950.4	935.0
15°	1233.1	1223.2	1204.6	1195.7	1176.3	1160.5	1146.1	1120.5	1106.7	1082.2	1061.8
17.5°	1358.5	1348.0	1331.9	1323.9	1305.1	1288.9	1273.3	1249.3	1235.2	1210.6	1192.4
20°	1475.0	1467.2	1455.7	1444.8	1426.0	1411.3	1392.9	1372.0	1351.7	1333.8	1316.3
22.5°	1576.5	1573.7	1561.1	1556.3	1540.1	1527.6	1511.5	1490.8	1476.3	1453.5	1437.4
25°	1664.1	1663.2	1657.3	1655.8	1644.3	1632.4	1628.8	1611.7	1598.4	1578.4	1561.7
27.5°	1739.4	1740.2	1738.8	1743.0	1739.9	1734.5	1734.8	1729.2	1721.4	1704.8	1690.2
30°	1823.0	1818.2	1821.0	1827.0	1828.7	1829.3	1839.2	1842.5	1841.9	1830.7	1823.6
32.5°	1941.2	1930.0	1919.5	1918.6	1924.6	1927.0	1943.8	1952.3	1959.8	1962.4	1963.8
35°	2092.2	2069.4	2047.6	2036.0	2025.9	2028.6	2040.5	2054.6	2071.0	2082.4	2095.7
37.5°	2282.1	2254.3	2215.8	2188.4	2181.4	2166.5	2174.3	2185.3	2201.4	2219.2	2242.3
40°	2512.4	2470.2	2427.0	2390.6	2370.8	2343.4	2343.0	2341.1	2350.9	2367.3	2400.1
42.5°	2734.1	2696.7	2650.8	2612.5	2586.8	2550.1	2542.7	2523.2	2527.7	2542.1	2574.0
45°	2941.7	2910.9	2882.8	2838.6	2816.8	2777.1	2764.5	2741.5	2728.7	2735.2	2767.3
47.5°	3142.7	3123.0	3093.8	3065.0	3048.3	3012.7	2996.7	2980.2	2963.8	2963.1	2996.7
50°	3534.7	3524.2	3489.6	3459.6	3467.6	3424.1	3426.8	3382.6	3402.6	3404.9	3475.3
52.5°	3903.0	3939.3	3965.1	3996.4	4016.7	4020.6	4034.1	4054.1	4078.2	4126.1	4191.2
55°	4113.8	4159.5	4186.1	4209.9	4249.4	4257.7	4280.2	4306.7	4328.0	4381.8	4437.0
57.5°	4364.4	4449.2	4490.4	4528.4	4581.5	4601.8	4639.2	4668.2	4695.7	4759.3	4826.2
60°	4518.8	4622.1	4706.2	4766.1	4832.8	4880.6	4937.1	4982.4	5046.9	5123.2	5222.9
62.5°	4396.0	4547.8	4659.2	4762.4	4852.9	4944.2	5025.2	5110.0	5208.1	5323.3	5478.0
65°	3907.1	4061.5	4252.4	4359.4	4479.2	4620.2	4743.2	4880.6	5014.1	5182.1	5410.9
67.5°	3145.4	3324.9	3539.4	3647.3	3785.0	3942.3	4080.5	4248.3	4404.2	4607.5	4890.5
70°	2267.2	2499.4	2679.7	2792.3	2953.1	3115.2	3248.5	3443.8	3572.9	3781.3	4073.9
72.5°	1435.6	1618.7	1839.8	1981.7	2124.4	2288.7	2425.0	2593.3	2713.8	2903.7	3168.7
75°	771.9	906.8	1101.1	1235.8	1388.7	1529.1	1688.6	1801.6	1890.6	2040.8	2255.9
77.5°	361.7	443.9	542.1	645.8	749.5	857.6	962.8	1054.2	1092.3	1178.3	1305.3
80°	219.5	246.1	274.8	306.9	350.1	385.1	431.4	464.9	467.2	494.3	533.2
82.5°	146.7	156.6	165.2	173.3	184.3	193.0	202.8	214.4	219.2	225.6	238.1
85°	100.2	104.8	106.7	111.7	110.5	113.5	117.4	121.4	123.3	123.1	128.7
87.5°	61.5	63.9	65.0	66.4	65.4	64.1	66.0	68.1	68.7	67.0	67.6
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°	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	547.5	544.8	542.1	540.4	539.8	523.9	517.1	512.7	503.1	495.2	488.9
5°	604.0	598.4	593.8	588.5	585.4	545.5	530.8	520.7	503.9	494.1	485.2
7.5°	694.7	678.9	669.6	659.3	650.4	578.0	553.9	537.9	514.6	501.6	491.4
10°	797.9	781.4	766.9	750.7	736.6	621.3	586.1	561.6	530.8	513.8	500.4
12.5°	912.9	896.7	878.3	857.6	839.6	676.2	627.2	592.3	550.2	527.6	508.7
15°	1048.9	1020.4	997.9	974.1	953.2	742.0	675.3	626.9	570.9	540.2	515.0
17.5°	1175.2	1145.2	1114.7	1093.9	1069.7	815.8	723.8	662.2	587.9	548.1	516.2
20°	1298.5	1265.9	1239.7	1211.5	1186.2	892.2	775.4	693.3	598.9	548.4	508.7
22.5°	1407.3	1387.0	1357.6	1327.2	1301.5	968.7	823.8	719.6	603.1	541.6	495.5
25°	1530.9	1509.4	1473.5	1447.9	1419.1	1046.6	871.4	739.9	600.6	528.7	475.3
27.5°	1662.9	1639.0	1602.2	1575.4	1540.8	1127.6	915.0	754.5	591.8	507.8	448.1
30°	1800.7	1778.9	1742.6	1715.6	1680.5	1213.3	963.6	764.4	573.7	478.8	416.5
32.5°	1948.5	1930.3	1894.4	1866.0	1828.7	1306.2	1009.1	767.4	546.7	444.5	382.9
35°	2088.9	2076.3	2046.2	2019.6	1980.8	1394.1	1057.1	765.9	514.4	406.8	352.4
37.5°	2246.9	2239.5	2224.6	2190.7	2143.3	1513.3	1114.7	759.5	474.9	369.6	329.1
40°	2415.4	2415.9	2399.8	2376.8	2332.5	1657.8	1183.4	747.4	431.9	336.7	307.9
42.5°	2593.6	2603.0	2595.3	2578.8	2536.4	1803.5	1265.6	732.5	390.1	304.6	287.1
45°	2798.0	2809.4	2821.2	2797.1	2755.9	1995.9	1373.8	713.1	344.9	278.0	272.7
47.5°	3033.7	3051.6	3062.3	3062.7	3021.4	2234.4	1549.3	701.3	305.0	260.1	265.9
50°	3531.1	3536.6	3562.0	3606.3	3574.6	2786.1	1856.2	694.2	277.8	249.1	260.8
52.5°	4247.6	4310.1	4353.9	4351.0	4308.0	3136.4	2025.3	657.2	261.6	245.0	258.4
55°	4539.4	4617.5	4698.7	4720.2	4686.7	3435.5	2185.0	620.1	254.0	247.9	259.3
57.5°	4928.5	5059.9	5171.3	5218.2	5169.7	3818.1	2395.3	600.6	251.5	255.9	265.0
60°	5382.7	5545.2	5691.7	5775.8	5775.8	4257.7	2613.3	592.6	248.2	268.0	274.5
62.5°	5674.6	5913.3	6134.3	6257.7	6254.1	4564.0	2710.1	565.2	240.7	276.3	287.6
65°	5675.9	5959.5	6241.2	6379.9	6386.9	4526.3	2550.4	499.2	227.0	277.4	300.8
67.5°	5202.7	5505.3	5833.6	5988.6	6024.4	4166.7	2207.8	410.4	204.6	265.5	305.6
70°	4394.0	4689.4	5024.6	5176.9	5240.5	3552.0	1778.3	316.4	176.0	239.3	295.7
72.5°	3461.8	3751.5	3984.8	4096.2	4145.8	2714.9	1294.8	238.9	144.3	201.6	269.1
75°	2450.9	2668.3	2792.3	2817.2	2824.9	1636.6	786.7	177.8	118.8	156.8	227.4
77.5°	1383.3	1476.5	1466.4	1477.4	1385.5	631.8	342.7	127.3	97.9	119.1	176.2
80°	540.2	556.8	523.1	512.7	470.2	235.0	151.2	88.8	78.2	90.2	123.3
82.5°	238.1	245.9	238.7	240.4	230.0	121.4	90.5	64.1	59.7	66.0	81.8
85°	131.2	133.5	132.9	136.8	131.2	48.4	42.9	39.4	41.9	44.8	52.6
87.5°	63.9	64.5	62.4	65.8	63.6	24.6	21.2	22.4	24.6	25.2	25.2
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°	512.9	512.9	512.9	512.9	512.9	512.9
2.5°	484.5	482.1	482.4	481.9	480.7	480.7
5°	480.4	478.0	478.0	477.3	475.8	476.1
7.5°	484.5	480.7	479.2	477.0	474.9	474.9
10°	489.2	482.4	478.3	474.7	472.0	472.0
12.5°	492.9	482.1	475.3	470.4	467.7	467.7
15°	494.1	480.1	470.4	464.9	462.4	462.1
17.5°	490.1	472.0	460.3	453.7	450.8	449.8
20°	478.3	457.3	443.3	435.8	431.6	430.2
22.5°	460.3	436.3	420.0	412.2	406.8	405.9
25°	435.1	409.5	393.4	385.9	382.9	382.0
27.5°	405.9	382.0	368.3	363.5	360.8	360.5
30°	378.1	357.9	347.7	344.1	340.8	340.2
32.5°	352.1	339.3	335.4	330.3	322.6	321.8
35°	333.7	332.5	329.8	318.4	308.8	306.2
37.5°	322.3	333.4	319.5	297.2	290.3	289.8
40°	315.8	324.1	300.6	292.8	293.3	292.8
42.5°	300.8	309.5	301.1	297.5	299.9	300.6
45°	285.9	295.5	305.6	303.2	308.8	308.8
47.5°	277.4	291.8	305.2	305.2	313.7	316.7
50°	268.0	288.9	300.6	304.6	311.3	308.8
52.5°	267.3	283.8	293.7	301.1	304.0	301.4
55°	268.2	279.6	286.7	295.2	298.6	299.0
57.5°	269.4	277.1	282.0	285.9	296.6	296.6
60°	272.5	275.2	277.8	279.9	293.9	294.3
62.5°	277.1	273.1	272.5	274.5	292.5	291.2
65°	284.7	270.0	265.5	267.6	291.0	287.4
67.5°	294.9	265.5	256.8	258.4	289.8	282.0
70°	304.0	258.4	246.1	244.7	278.4	264.6
72.5°	305.0	250.0	231.3	226.7	242.0	228.8
75°	290.1	244.3	214.8	201.6	199.9	198.0
77.5°	261.3	241.0	195.7	175.0	171.4	172.7
80°	218.6	228.8	172.7	148.2	167.5	165.5
82.5°	163.4	201.8	146.7	131.2	130.9	115.6
85°	90.8	157.5	119.5	98.3	68.5	66.4
87.5°	25.4	87.6	83.6	55.5	38.0	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)