

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: P269981

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269981
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5754.4 lumens
Efficiency: N/A
Efficacy: 97.5 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

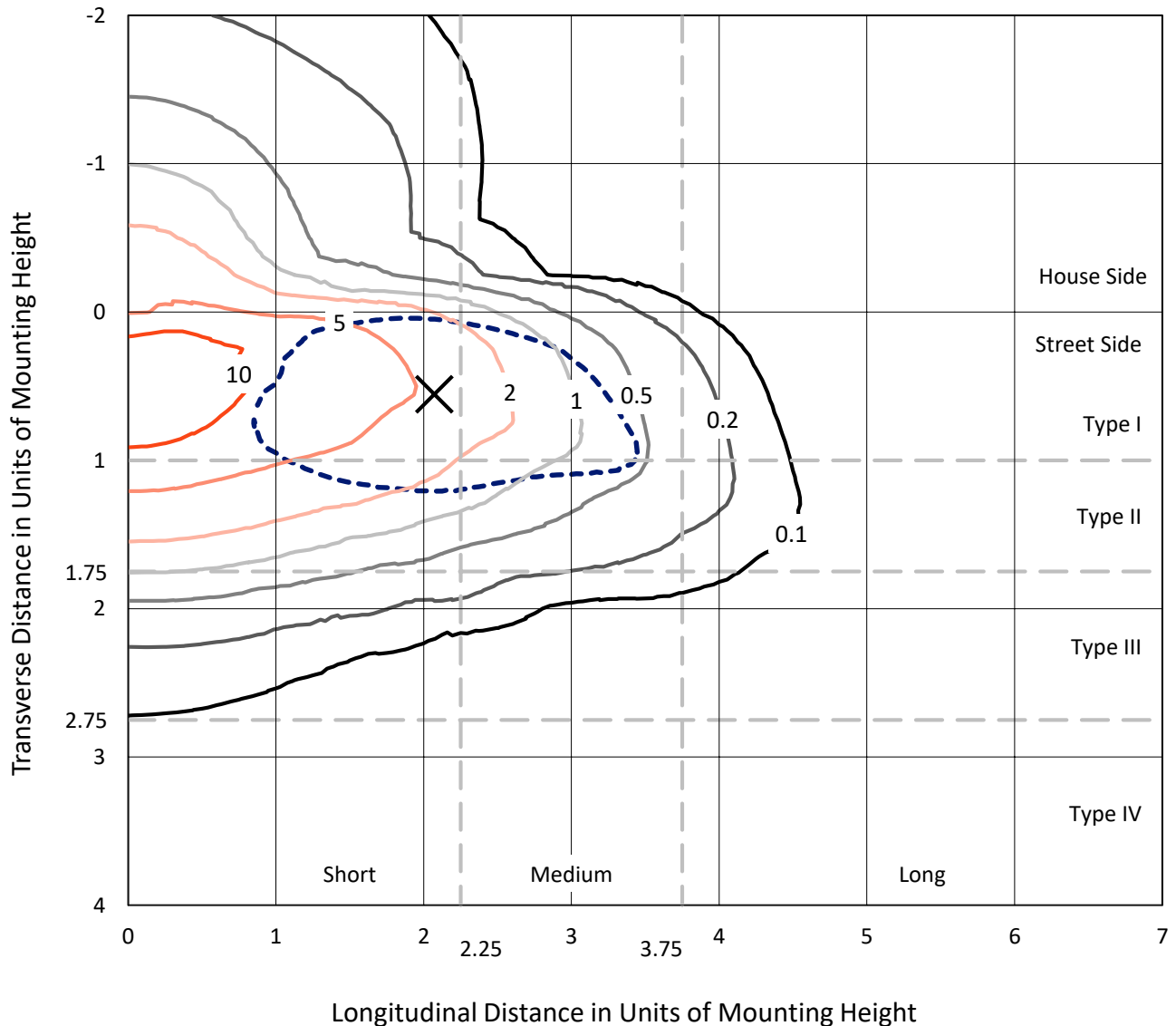
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

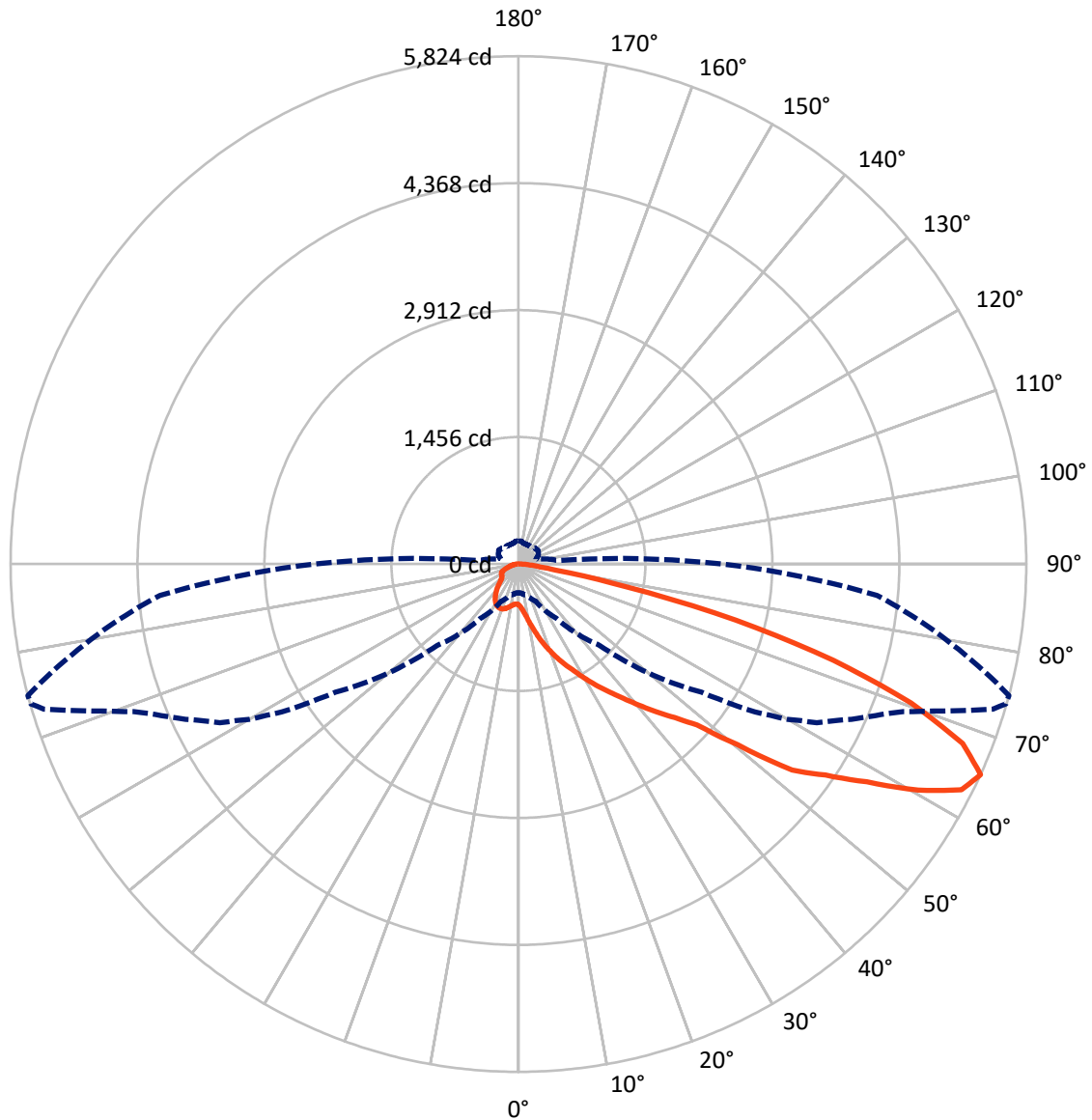
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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	887.2	0.0	887.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4867.2	0.0	4867.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	5754.4	0.0	5754.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.0
10°-20°	225.9	3.9
20°-30°	463.4	8.1
30°-40°	779.6	13.5
40°-50°	1077.2	18.7
50°-60°	1344.7	23.4
60°-70°	1210.1	21.0
70°-80°	507.2	8.8
80°-90°	88.6	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°	5754.4	100.0
0°-180°	5754.4	100.0



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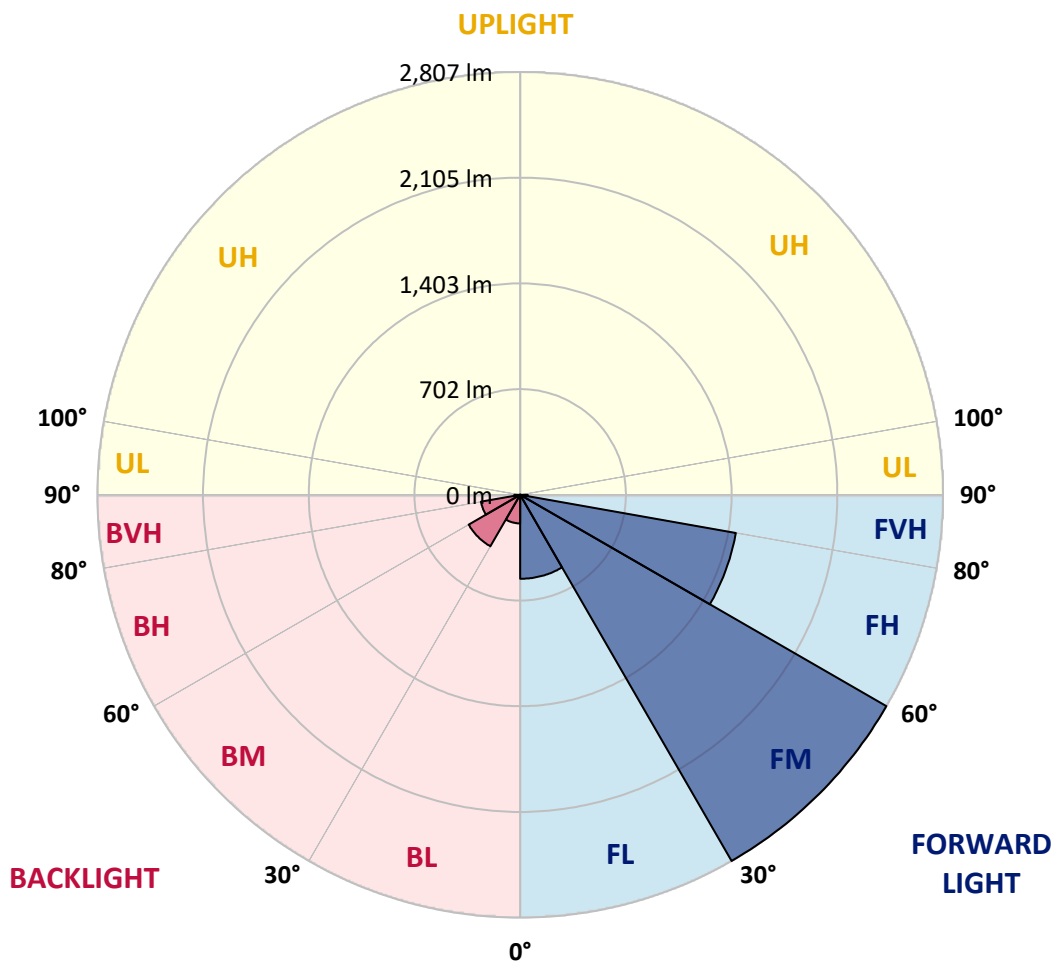
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.3	9.7			
FM	(30°-60°)	2806.6	48.8			
FH	(60°-80°)	1453.5	25.3			G1/1800
FVH	(80°-90°)	49.8	0.9			G1/100
BL	(0°-30°)	189.7	3.3	B1/500		
BM	(30°-60°)	394.9	6.9	B1/1000		
BH	(60°-80°)	263.7	4.6	B1/500		G1/500
BVH	(80°-90°)	38.8	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°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7
2.5°	593.8	587.2	588.8	578.0	564.7	547.2	527.8	527.6	527.8	526.0	519.0
5°	823.3	815.5	812.4	788.0	752.1	700.8	645.3	639.2	636.8	630.5	616.1
7.5°	990.9	986.5	981.8	963.3	930.6	873.5	798.9	786.0	773.8	770.7	754.4
10°	1098.9	1097.9	1088.0	1083.1	1062.8	1013.2	940.4	928.2	914.8	910.3	893.0
12.5°	1184.5	1184.2	1179.7	1181.0	1163.2	1127.4	1064.8	1053.5	1043.7	1029.5	1017.3
15°	1243.7	1244.0	1250.7	1258.3	1255.7	1231.3	1172.6	1167.6	1159.3	1149.4	1135.0
17.5°	1292.1	1293.5	1300.6	1314.5	1329.4	1327.5	1281.0	1276.9	1269.6	1256.2	1248.6
20°	1401.6	1406.7	1393.2	1393.2	1394.8	1402.2	1379.8	1376.6	1366.2	1359.1	1353.1
22.5°	1586.5	1592.5	1561.8	1530.4	1499.7	1477.4	1455.0	1459.0	1452.0	1447.1	1443.5
25°	1826.8	1831.5	1781.6	1728.7	1666.0	1584.4	1529.1	1526.6	1522.7	1519.8	1518.1
27.5°	2052.8	2054.8	2007.6	1930.3	1857.5	1740.1	1604.3	1601.3	1596.6	1590.9	1586.0
30°	2246.2	2245.8	2197.3	2123.5	2045.5	1915.5	1718.4	1709.1	1695.6	1680.0	1668.1
32.5°	2413.7	2412.8	2359.8	2283.2	2201.6	2089.4	1874.8	1855.7	1834.3	1804.2	1785.9
35°	2545.5	2545.0	2495.0	2415.2	2321.4	2252.9	2054.0	2030.4	2003.5	1962.9	1934.9
37.5°	2595.5	2595.5	2567.4	2512.9	2430.1	2383.3	2252.9	2224.7	2195.8	2149.9	2118.3
40°	2566.3	2566.7	2572.7	2562.8	2522.4	2486.5	2438.8	2421.9	2397.0	2355.7	2322.7
42.5°	2468.5	2471.4	2511.2	2560.0	2580.1	2574.5	2603.6	2595.9	2578.6	2546.7	2520.6
45°	2344.5	2353.7	2397.3	2489.5	2596.2	2650.4	2741.6	2742.4	2739.2	2722.0	2701.9
47.5°	2174.3	2187.5	2244.9	2369.3	2558.6	2724.2	2881.9	2889.3	2896.0	2884.9	2875.7
50°	1948.2	1963.8	2049.8	2215.0	2482.0	2800.7	3146.9	3180.2	3211.3	3207.4	3213.6
52.5°	1706.2	1724.3	1829.8	2013.6	2350.5	2818.5	3316.4	3370.6	3424.8	3469.2	3516.2
55°	1487.7	1477.9	1583.4	1776.9	2134.4	2738.7	3468.6	3534.0	3594.5	3648.9	3705.0
57.5°	1191.6	1207.7	1313.3	1504.8	1848.1	2513.4	3573.5	3669.0	3756.0	3846.2	3925.7
60°	871.0	887.0	1001.8	1196.3	1537.3	2171.8	3493.4	3638.2	3777.6	3915.6	4023.4
62.5°	526.0	537.9	639.0	824.1	1185.4	1766.8	3136.6	3326.8	3531.5	3696.5	3862.0
65°	327.4	334.2	371.4	473.3	761.3	1319.2	2562.8	2770.1	2990.5	3200.0	3371.9
67.5°	268.1	270.5	277.2	299.0	418.2	860.1	1907.5	2091.0	2290.0	2492.7	2684.0
70°	241.0	239.4	239.4	240.7	268.1	462.4	1248.9	1368.4	1534.2	1710.5	1885.4
72.5°	217.6	216.0	213.0	208.9	218.6	282.2	645.5	735.6	855.2	1011.9	1179.4
75°	195.7	193.3	189.8	184.7	191.5	213.0	309.9	347.9	406.2	489.4	582.9
77.5°	172.7	170.0	166.6	162.9	171.5	165.6	181.6	195.3	217.6	244.2	279.5
80°	146.9	144.4	143.3	141.4	151.8	126.1	128.3	136.7	149.7	164.2	180.6
82.5°	115.0	115.0	119.3	120.2	131.5	90.6	95.8	103.2	110.0	117.7	125.4
85°	75.6	76.3	91.0	96.7	103.8	61.1	72.0	74.4	79.8	84.1	87.5
87.5°	23.6	25.6	55.5	61.5	59.6	34.6	44.1	45.3	49.0	52.0	54.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7
2.5°	519.0	515.5	512.7	512.4	510.1	507.2	508.3	503.6	503.9	501.4	498.6
5°	610.0	608.0	597.1	594.0	585.9	580.7	579.9	568.9	567.5	561.4	554.6
7.5°	741.5	734.4	719.1	711.6	697.9	687.5	682.5	668.1	661.1	644.8	637.3
10°	878.9	870.0	851.1	840.9	827.5	810.8	801.8	780.8	772.7	757.7	739.8
12.5°	1006.5	997.4	978.1	970.2	952.5	934.7	925.0	901.3	890.7	866.7	852.5
15°	1124.4	1115.3	1098.4	1090.4	1072.5	1058.2	1045.1	1021.6	1009.2	986.8	968.3
17.5°	1238.8	1229.2	1214.5	1207.1	1190.0	1175.3	1161.1	1139.1	1126.3	1103.8	1087.3
20°	1344.9	1337.8	1327.2	1317.5	1300.2	1286.9	1270.1	1251.0	1232.5	1216.1	1200.3
22.5°	1437.6	1434.9	1423.5	1419.1	1404.3	1392.9	1378.2	1359.3	1346.0	1325.4	1310.6
25°	1517.3	1516.6	1511.0	1509.7	1499.5	1488.5	1485.3	1469.6	1457.4	1439.3	1424.0
27.5°	1586.0	1586.9	1585.5	1589.3	1586.5	1581.6	1581.9	1576.7	1569.7	1554.3	1541.0
30°	1662.3	1657.9	1660.3	1665.7	1667.4	1668.1	1677.0	1680.0	1679.4	1669.3	1662.9
32.5°	1770.1	1759.8	1750.3	1749.4	1754.8	1757.1	1772.3	1780.3	1787.0	1789.5	1790.5
35°	1907.7	1887.0	1867.0	1856.4	1847.3	1849.7	1860.6	1873.3	1888.3	1898.7	1911.0
37.5°	2081.0	2055.6	2020.5	1995.3	1989.0	1975.6	1982.6	1992.6	2007.4	2023.4	2044.7
40°	2290.9	2252.5	2213.1	2179.7	2161.9	2136.7	2136.4	2134.6	2143.5	2158.4	2188.5
42.5°	2492.9	2458.9	2417.0	2382.1	2358.7	2325.3	2318.3	2300.6	2304.8	2317.8	2347.0
45°	2682.2	2654.2	2628.6	2588.3	2568.4	2532.2	2520.7	2499.9	2488.0	2494.1	2523.2
47.5°	2865.7	2847.5	2820.9	2794.7	2779.5	2747.0	2732.5	2717.5	2702.5	2701.9	2732.5
50°	3222.8	3213.3	3181.7	3154.6	3161.9	3122.1	3124.7	3084.3	3102.6	3104.7	3168.7
52.5°	3558.7	3592.1	3615.4	3644.1	3662.5	3666.2	3678.3	3696.5	3718.7	3762.2	3821.6
55°	3751.1	3792.7	3817.0	3838.7	3874.7	3882.4	3902.7	3927.0	3946.3	3995.4	4045.7
57.5°	3979.6	4056.9	4094.6	4129.1	4177.6	4196.2	4230.2	4256.6	4281.6	4339.6	4400.6
60°	4120.3	4214.7	4291.2	4345.9	4406.6	4450.3	4501.6	4543.1	4601.9	4671.4	4762.4
62.5°	4008.4	4146.8	4248.4	4342.3	4425.0	4508.2	4582.1	4659.4	4748.7	4853.9	4994.9
65°	3562.6	3703.4	3877.4	3974.9	4084.1	4212.7	4324.9	4450.3	4572.0	4725.1	4933.8
67.5°	2868.1	3031.7	3227.3	3325.6	3451.2	3594.7	3720.6	3873.6	4015.9	4201.4	4459.2
70°	2067.3	2278.9	2443.4	2546.1	2692.6	2840.5	2962.0	3140.1	3257.9	3448.0	3714.6
72.5°	1309.0	1475.9	1677.6	1806.9	1937.0	2086.9	2211.1	2364.7	2474.6	2647.8	2889.3
75°	703.8	826.9	1003.9	1126.7	1266.3	1394.3	1539.8	1642.6	1723.8	1860.7	2056.8
77.5°	329.9	404.7	494.3	588.8	683.4	782.0	877.9	961.1	996.0	1074.6	1190.3
80°	200.2	224.4	250.5	279.7	319.2	351.1	393.3	423.8	425.9	450.8	486.3
82.5°	133.8	142.7	150.6	158.0	168.1	176.0	185.0	195.7	200.0	205.6	217.1
85°	91.3	95.6	97.2	101.9	100.8	103.6	107.1	110.6	112.5	112.2	117.4
87.5°	56.1	58.3	59.4	60.5	59.6	58.6	60.1	62.2	62.6	61.1	61.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7	467.7
2.5°	499.3	496.9	494.3	492.7	492.2	477.7	471.5	467.4	458.7	451.6	445.9
5°	550.8	545.5	541.5	536.6	533.9	497.3	483.9	474.8	459.6	450.5	442.3
7.5°	633.6	619.1	610.7	601.1	592.9	527.0	504.9	490.6	469.3	457.2	448.1
10°	727.4	712.5	699.2	684.5	671.7	566.6	534.4	512.0	483.9	468.5	456.2
12.5°	832.4	817.6	800.7	782.0	765.6	616.6	572.0	540.2	501.8	481.0	463.9
15°	956.2	930.5	910.1	888.2	869.1	676.6	615.8	571.7	520.5	492.5	469.5
17.5°	1071.5	1044.3	1016.5	997.4	975.4	743.8	660.0	603.8	536.0	499.7	470.6
20°	1184.0	1154.3	1130.3	1104.7	1081.6	813.5	707.1	632.1	546.1	500.0	463.9
22.5°	1283.0	1264.6	1238.0	1210.1	1186.8	883.4	751.3	656.1	549.9	493.8	451.8
25°	1395.8	1376.3	1343.5	1320.1	1294.0	954.4	794.6	674.6	547.7	482.1	433.3
27.5°	1516.2	1494.5	1461.1	1436.5	1404.9	1028.2	834.3	688.0	539.5	463.0	408.5
30°	1641.8	1622.0	1589.0	1564.2	1532.4	1106.4	878.6	696.9	523.3	436.5	379.7
32.5°	1776.7	1760.0	1727.4	1701.5	1667.4	1191.1	920.0	699.7	498.4	405.2	349.3
35°	1904.6	1893.3	1865.7	1841.4	1806.1	1271.1	963.9	698.3	469.0	371.0	321.5
37.5°	2048.8	2041.9	2028.4	1997.6	1954.3	1379.8	1016.5	692.7	433.1	337.0	300.2
40°	2202.4	2203.0	2188.2	2167.3	2126.9	1511.7	1079.1	681.5	393.8	307.0	280.8
42.5°	2365.0	2373.4	2366.3	2351.4	2312.6	1644.5	1154.1	667.8	355.6	277.8	261.8
45°	2551.2	2561.6	2572.6	2550.5	2512.9	1820.0	1252.6	650.2	314.5	253.6	248.7
47.5°	2766.2	2782.5	2792.3	2792.7	2755.0	2037.4	1412.8	639.6	278.0	237.2	242.5
50°	3219.6	3224.8	3248.0	3288.3	3259.4	2540.3	1692.4	632.9	253.3	227.1	237.8
52.5°	3873.1	3930.1	3970.1	3967.4	3928.1	2859.8	1846.6	599.2	238.6	223.4	235.5
55°	4139.2	4210.3	4284.3	4304.0	4273.4	3132.5	1992.4	565.5	231.6	226.1	236.4
57.5°	4493.9	4613.6	4715.3	4758.1	4713.9	3481.4	2184.0	547.7	229.3	233.4	241.6
60°	4908.1	5056.3	5189.7	5266.6	5266.6	3882.4	2382.9	540.4	226.4	244.2	250.3
62.5°	5174.1	5391.7	5593.3	5705.9	5702.6	4161.5	2471.1	515.3	219.5	252.0	262.2
65°	5175.2	5434.0	5690.9	5817.2	5823.8	4127.3	2325.5	455.1	207.0	253.1	274.3
67.5°	4743.9	5019.8	5319.0	5460.4	5493.1	3799.3	2013.1	374.2	186.6	242.2	278.7
70°	4006.5	4275.9	4581.5	4720.5	4778.4	3238.7	1621.4	288.4	160.4	218.2	269.6
72.5°	3156.5	3420.7	3633.5	3735.1	3780.2	2475.5	1180.7	217.8	131.5	183.9	245.3
75°	2234.9	2433.1	2546.1	2568.8	2575.8	1492.4	717.4	162.1	108.3	143.0	207.2
77.5°	1261.3	1346.3	1337.0	1347.2	1263.2	576.1	312.4	116.1	89.3	108.7	160.6
80°	492.5	507.7	476.9	467.4	428.8	214.3	137.8	80.8	71.3	82.3	112.5
82.5°	217.1	224.1	217.6	219.2	209.8	110.6	82.6	58.6	54.4	60.1	74.6
85°	119.6	121.7	121.2	124.8	119.6	44.1	39.3	35.9	38.2	40.9	47.9
87.5°	58.3	58.7	57.0	59.9	58.0	22.4	19.4	20.4	22.4	22.8	22.8
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°	467.7	467.7	467.7	467.7	467.7	467.7
2.5°	441.7	439.6	439.9	439.4	438.3	438.3
5°	438.0	435.8	435.8	435.3	433.9	434.2
7.5°	441.7	438.3	436.8	435.0	433.1	433.1
10°	446.2	439.9	436.0	432.9	430.4	430.4
12.5°	449.4	439.6	433.3	429.0	426.5	426.5
15°	450.5	437.7	429.0	423.8	421.7	421.3
17.5°	446.9	430.4	419.7	413.7	411.1	410.2
20°	436.0	417.1	404.1	397.4	393.5	392.2
22.5°	419.7	397.9	382.9	375.9	371.0	370.1
25°	396.8	373.4	358.8	351.9	349.3	348.4
27.5°	370.1	348.4	335.8	331.5	329.0	328.8
30°	344.8	326.4	317.0	313.8	310.8	310.3
32.5°	321.1	309.3	305.9	301.2	294.1	293.3
35°	304.3	303.2	300.8	290.3	281.6	279.2
37.5°	293.8	303.9	291.4	271.0	264.7	264.2
40°	287.8	295.5	274.1	266.9	267.4	266.9
42.5°	274.3	282.2	274.5	271.3	273.4	274.1
45°	260.7	269.4	278.7	276.5	281.6	281.6
47.5°	253.1	266.1	278.4	278.4	286.0	288.7
50°	244.2	263.5	274.1	277.8	283.9	281.6
52.5°	243.8	258.7	267.8	274.5	277.2	274.8
55°	244.6	254.8	261.4	269.1	272.4	272.6
57.5°	245.6	252.8	257.2	260.7	270.5	270.5
60°	248.4	250.8	253.3	255.2	268.1	268.2
62.5°	252.8	248.9	248.4	250.3	266.6	265.5
65°	259.6	246.2	242.2	244.0	265.3	262.0
67.5°	268.9	242.2	234.3	235.5	264.2	257.2
70°	277.2	235.5	224.4	223.0	253.9	241.4
72.5°	278.0	228.0	210.8	206.7	220.7	208.6
75°	264.6	222.8	195.8	183.9	182.3	180.6
77.5°	238.3	219.7	178.5	159.5	156.3	157.5
80°	199.3	208.6	157.5	135.0	152.8	150.8
82.5°	148.9	184.2	133.8	119.6	119.3	105.5
85°	82.9	143.5	109.0	89.7	62.3	60.5
87.5°	23.1	79.8	76.3	50.7	34.6	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)