

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: P200664

Luminaire Tested: **GPC-AF-02-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200664
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-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10561 lumens
Efficiency: N/A
Efficacy: 93.5 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

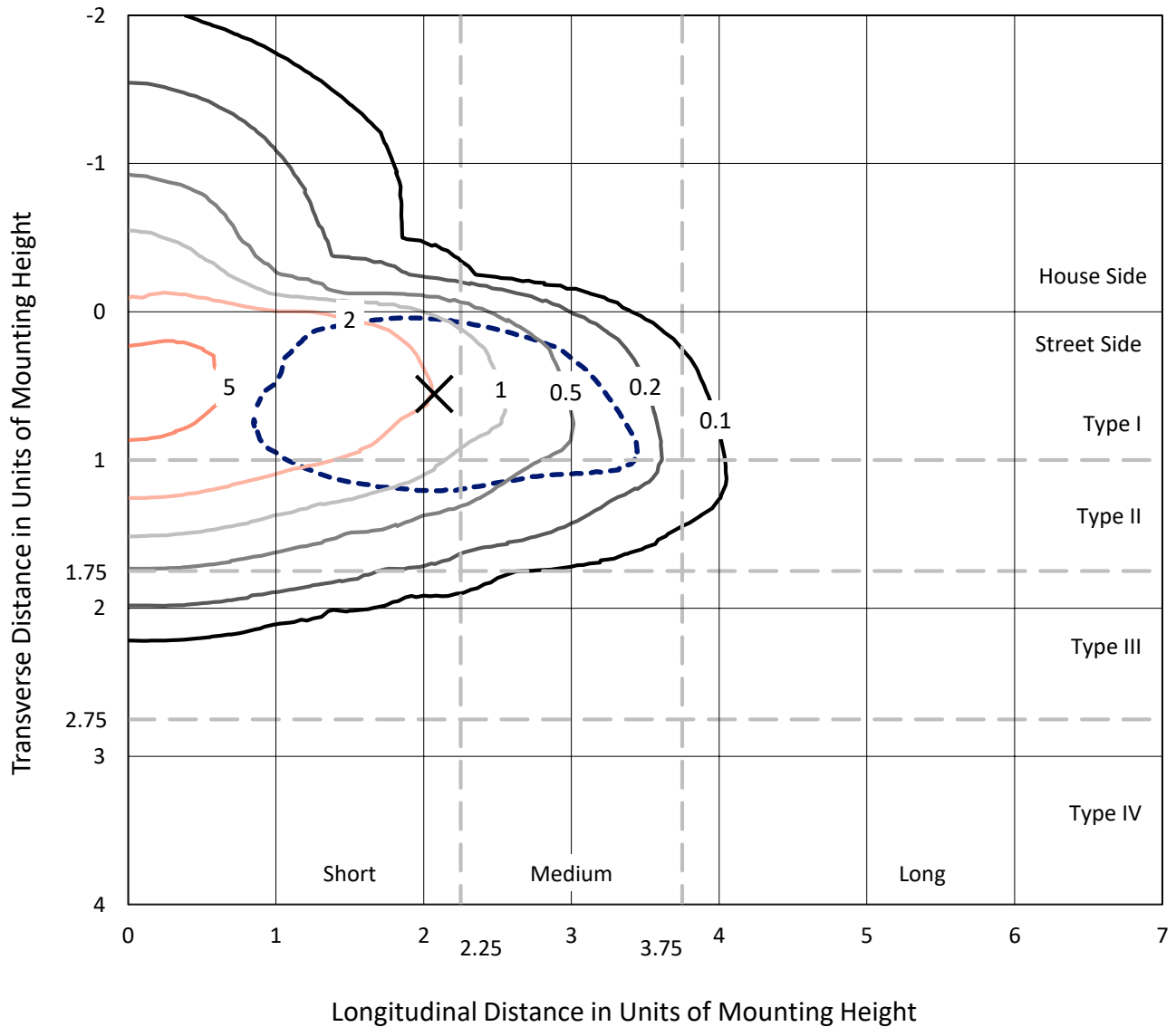
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

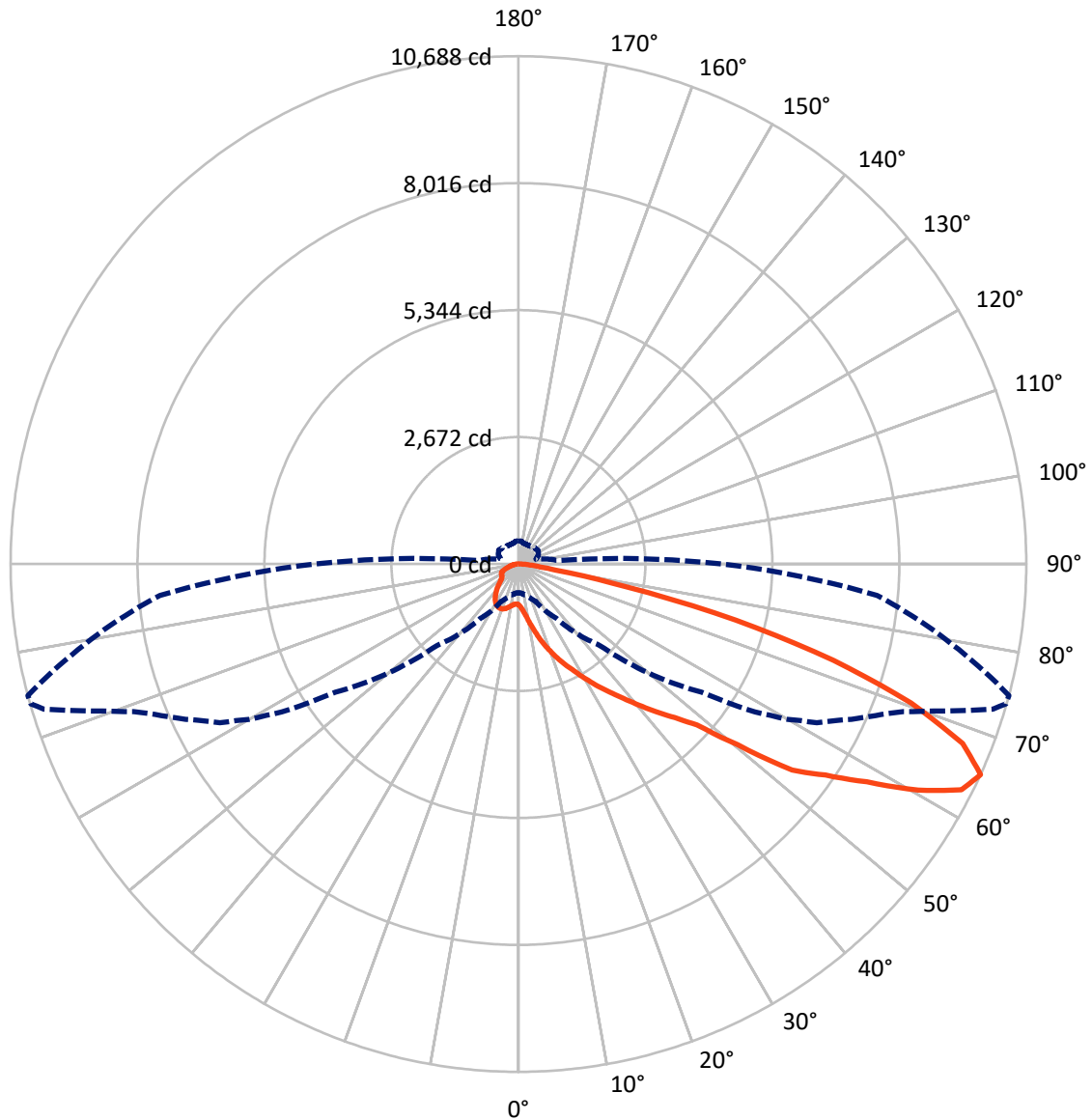
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1628.3	0.0	1628.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8932.7	0.0	8932.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	10561.0	0.0	10561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.0
10°-20°	414.5	3.9
20°-30°	850.4	8.1
30°-40°	1430.8	13.5
40°-50°	1977.0	18.7
50°-60°	2467.9	23.4
60°-70°	2220.8	21.0
70°-80°	930.9	8.8
80°-90°	162.6	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°	10561.0	100.0
0°-180°	10561.0	100.0



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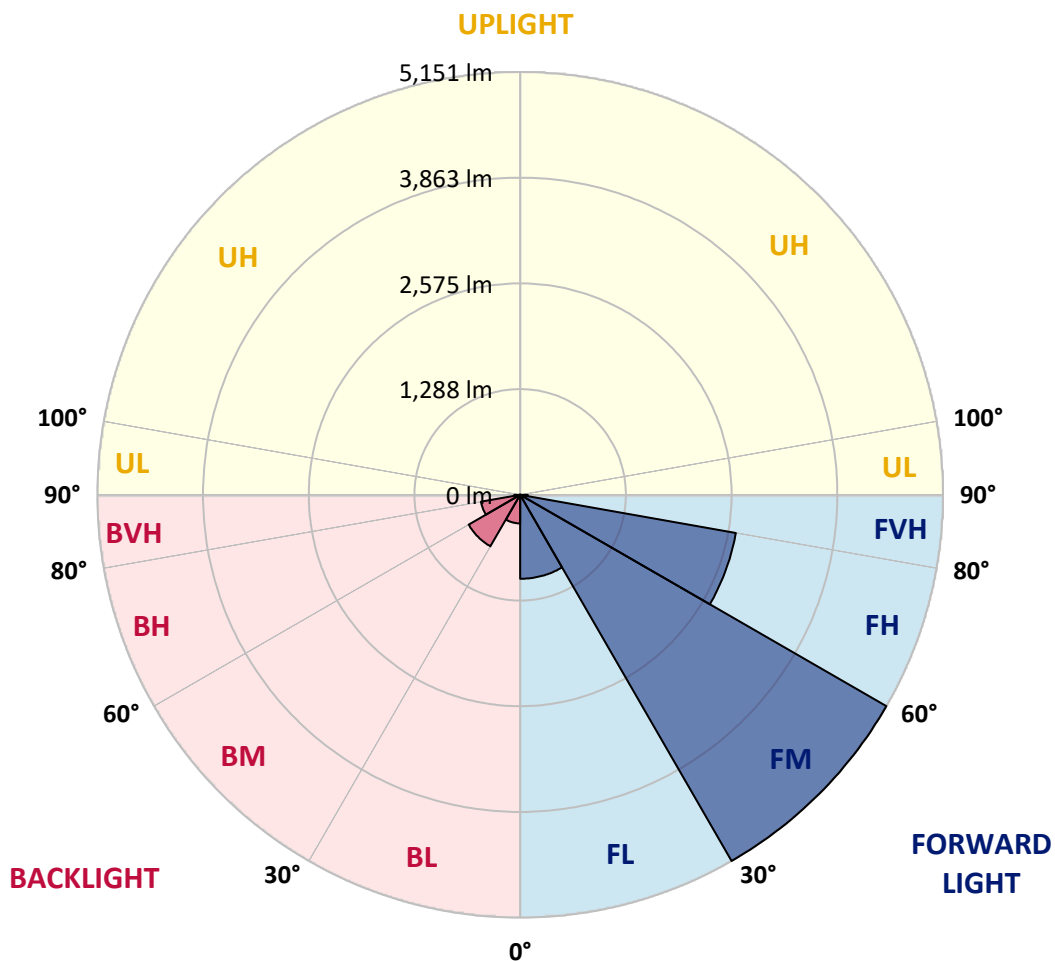
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.8	9.7			
FM	(30°-60°)	5150.9	48.8			
FH	(60°-80°)	2667.7	25.3			G2/5000
FVH	(80°-90°)	91.4	0.9			G1/100
BL	(0°-30°)	348.2	3.3	B1/500		
BM	(30°-60°)	724.8	6.9	B1/1000		
BH	(60°-80°)	484.1	4.6	B1/500		G1/500
BVH	(80°-90°)	71.2	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°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	1089.7	1077.7	1080.7	1060.7	1036.2	1004.2	968.8	968.3	968.8	965.3	952.3
5°	1511.1	1496.6	1491.1	1446.1	1380.2	1286.2	1184.2	1173.2	1168.7	1157.2	1130.7
7.5°	1818.5	1810.5	1802.0	1768.1	1708.1	1603.1	1466.1	1442.6	1420.1	1414.6	1384.7
10°	2017.0	2015.0	1997.0	1988.0	1950.5	1859.5	1726.1	1703.6	1679.1	1670.6	1639.1
12.5°	2174.0	2173.5	2165.0	2167.5	2135.0	2069.0	1954.0	1933.5	1915.5	1889.5	1867.0
15°	2282.4	2282.9	2295.4	2309.4	2304.4	2259.9	2152.0	2143.0	2127.5	2109.5	2083.0
17.5°	2371.4	2373.9	2386.9	2412.4	2439.9	2436.4	2350.9	2343.4	2329.9	2305.4	2291.4
20°	2572.4	2581.8	2556.9	2556.9	2559.9	2573.4	2532.4	2526.4	2507.4	2494.4	2483.4
22.5°	2911.8	2922.8	2866.3	2808.8	2752.3	2711.3	2670.3	2677.8	2664.8	2655.8	2649.3
25°	3352.7	3361.2	3269.7	3172.7	3057.7	2907.8	2806.3	2801.8	2794.8	2789.3	2786.3
27.5°	3767.5	3771.0	3684.6	3542.6	3409.1	3193.7	2944.3	2938.8	2930.3	2919.8	2910.8
30°	4122.5	4121.5	4032.5	3897.0	3754.1	3515.6	3153.7	3136.7	3111.7	3083.2	3061.2
32.5°	4429.9	4428.4	4330.9	4190.4	4040.5	3834.5	3440.6	3405.6	3366.6	3311.2	3277.7
35°	4671.8	4670.8	4578.8	4432.4	4260.4	4135.0	3769.5	3726.6	3677.1	3602.6	3551.1
37.5°	4763.3	4763.3	4711.8	4611.8	4459.9	4373.9	4135.0	4083.0	4030.0	3945.5	3887.5
40°	4709.8	4710.8	4721.8	4703.3	4629.3	4563.3	4475.9	4444.9	4399.4	4323.4	4262.9
42.5°	4530.4	4535.9	4608.8	4698.3	4735.3	4724.8	4778.3	4764.3	4732.3	4673.8	4625.8
45°	4302.9	4319.9	4399.9	4568.8	4764.8	4864.3	5031.7	5033.2	5027.2	4995.7	4958.7
47.5°	3990.5	4014.5	4120.0	4348.4	4695.8	4999.7	5289.2	5302.7	5315.2	5294.7	5277.7
50°	3575.6	3604.1	3762.1	4065.0	4555.3	5140.2	5775.5	5836.5	5893.5	5886.5	5898.0
52.5°	3131.2	3164.7	3358.2	3695.6	4313.9	5172.7	6086.5	6185.9	6285.4	6366.9	6453.4
55°	2730.3	2712.3	2905.8	3261.2	3917.0	5026.2	6365.9	6485.9	6596.8	6696.8	6799.8
57.5°	2186.9	2216.4	2410.4	2761.8	3391.6	4612.8	6558.3	6733.8	6893.3	7058.7	7204.7
60°	1598.6	1628.1	1838.5	2195.4	2821.3	3986.0	6411.4	6677.3	6932.7	7186.2	7384.1
62.5°	965.3	987.3	1172.7	1512.6	2175.5	3242.7	5756.5	6105.5	6481.4	6784.3	7087.7
65°	600.8	613.3	681.8	868.8	1397.1	2420.9	4703.3	5083.7	5488.6	5873.0	6188.4
67.5°	491.9	496.4	508.9	548.9	767.3	1578.6	3500.6	3837.5	4202.9	4574.8	4925.8
70°	442.4	439.4	439.4	441.9	491.9	848.8	2291.9	2511.4	2815.8	3139.2	3460.1
72.5°	399.4	396.4	390.9	383.4	401.4	517.9	1184.7	1350.2	1569.6	1857.0	2164.5
75°	358.9	354.9	348.4	338.9	351.4	390.9	568.9	638.3	745.3	898.3	1069.7
77.5°	316.9	311.9	305.9	298.9	314.9	303.9	333.4	358.4	399.4	448.4	512.9
80°	269.4	264.9	262.9	259.4	278.4	231.4	235.4	250.9	274.9	301.4	331.4
82.5°	210.9	210.9	218.9	220.4	241.4	166.5	176.0	189.5	201.9	215.9	229.9
85°	139.0	140.0	167.0	177.5	190.5	112.0	132.0	136.5	146.5	154.5	160.5
87.5°	43.5	47.0	102.0	113.0	109.5	63.5	81.0	83.0	90.0	95.5	100.5
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°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	952.3	946.3	940.8	940.3	936.3	930.8	932.8	924.3	924.8	920.3	915.3
5°	1119.7	1115.7	1095.7	1090.2	1075.2	1065.7	1064.2	1044.2	1041.7	1030.2	1017.7
7.5°	1360.7	1347.7	1319.7	1306.2	1280.7	1261.7	1252.7	1226.2	1213.2	1183.2	1169.7
10°	1613.1	1596.6	1562.1	1543.1	1518.6	1488.1	1471.6	1433.1	1418.1	1390.6	1357.7
12.5°	1847.0	1830.5	1795.0	1780.6	1748.1	1715.6	1697.6	1654.1	1634.6	1590.6	1564.6
15°	2063.5	2047.0	2016.0	2001.0	1968.5	1942.0	1918.0	1875.0	1852.0	1811.0	1777.1
17.5°	2273.4	2255.9	2228.9	2215.4	2183.9	2157.0	2131.0	2090.5	2067.0	2026.0	1995.5
20°	2468.4	2455.4	2435.9	2417.9	2386.4	2361.9	2330.9	2295.9	2261.9	2231.9	2202.9
22.5°	2638.3	2633.3	2612.3	2604.3	2577.3	2556.4	2529.4	2494.9	2470.4	2432.4	2405.4
25°	2784.8	2783.3	2773.3	2770.8	2751.8	2731.8	2725.8	2697.3	2674.8	2641.3	2613.3
27.5°	2910.8	2912.3	2909.8	2916.8	2911.8	2902.8	2903.3	2893.8	2880.8	2852.8	2828.3
30°	3050.7	3042.7	3047.2	3057.2	3060.2	3061.2	3077.7	3083.2	3082.2	3063.7	3051.7
32.5°	3248.7	3229.7	3212.2	3210.7	3220.7	3224.7	3252.7	3267.2	3279.7	3284.2	3286.2
35°	3501.1	3463.1	3426.6	3407.1	3390.1	3394.6	3414.6	3438.1	3465.6	3484.6	3507.1
37.5°	3819.0	3772.5	3708.1	3662.1	3650.6	3625.6	3638.6	3657.1	3684.1	3713.6	3752.6
40°	4204.4	4134.0	4061.5	4000.5	3967.5	3921.5	3921.0	3917.5	3934.0	3961.5	4016.5
42.5°	4575.3	4512.9	4435.9	4371.9	4328.9	4267.4	4254.9	4222.4	4229.9	4253.9	4307.4
45°	4922.8	4871.3	4824.3	4750.3	4713.8	4647.3	4626.3	4587.8	4566.3	4577.3	4630.8
47.5°	5259.2	5226.2	5177.2	5129.2	5101.2	5041.7	5014.7	4987.2	4959.7	4958.7	5014.7
50°	5915.0	5897.5	5839.5	5789.5	5803.0	5730.1	5734.6	5660.6	5694.1	5698.1	5815.5
52.5°	6531.4	6592.3	6635.3	6687.8	6721.8	6728.3	6750.8	6784.3	6824.8	6904.8	7013.7
55°	6884.3	6960.7	7005.2	7045.2	7111.2	7125.2	7162.7	7207.2	7242.7	7332.6	7425.1
57.5°	7303.7	7445.6	7514.6	7578.1	7667.1	7701.1	7763.5	7812.0	7858.0	7964.5	8076.5
60°	7562.1	7735.0	7875.5	7976.0	8087.5	8167.4	8261.9	8337.9	8445.9	8573.3	8740.3
62.5°	7356.6	7610.6	7797.0	7969.5	8120.9	8273.9	8409.4	8551.3	8715.3	8908.3	9167.2
65°	6538.3	6796.8	7116.2	7295.2	7495.6	7731.5	7937.5	8167.4	8390.9	8671.8	9054.7
67.5°	5263.7	5564.1	5923.0	6103.5	6333.9	6597.3	6828.3	7109.2	7370.1	7710.6	8183.9
70°	3794.0	4182.4	4484.4	4672.8	4941.8	5213.2	5436.1	5763.0	5979.0	6327.9	6817.3
72.5°	2402.4	2708.8	3078.7	3316.2	3555.1	3830.0	4058.0	4339.9	4541.4	4859.3	5302.7
75°	1291.7	1517.6	1842.5	2068.0	2323.9	2558.9	2825.8	3014.7	3163.7	3415.1	3775.0
77.5°	605.3	742.8	907.3	1080.7	1254.2	1435.1	1611.1	1764.1	1828.0	1972.0	2184.4
80°	367.4	411.9	459.9	513.4	585.9	644.3	721.8	777.8	781.8	827.3	892.3
82.5°	245.4	261.9	276.4	289.9	308.4	322.9	339.4	358.9	366.9	377.4	398.4
85°	167.5	175.5	178.5	187.0	185.0	190.0	196.5	202.9	206.4	205.9	215.4
87.5°	103.0	107.0	109.0	111.0	109.5	107.5	110.5	114.0	115.0	112.0	113.0
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°	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	916.3	911.8	907.3	904.3	903.3	876.8	865.3	857.8	841.8	828.8	818.3
5°	1010.7	1001.2	993.7	984.8	979.8	912.8	888.3	871.3	843.3	826.8	811.8
7.5°	1162.7	1136.2	1120.7	1103.2	1088.2	967.3	926.8	900.3	861.3	839.3	822.3
10°	1335.2	1307.7	1283.2	1256.2	1232.7	1039.7	980.8	939.8	888.3	859.8	837.3
12.5°	1527.6	1500.6	1469.6	1435.1	1405.1	1131.7	1049.7	991.2	920.8	882.8	851.3
15°	1755.1	1707.6	1670.1	1630.1	1595.1	1241.7	1130.2	1049.2	955.3	903.8	861.8
17.5°	1966.5	1916.5	1865.5	1830.5	1790.0	1365.2	1211.2	1108.2	983.8	917.3	863.8
20°	2173.0	2118.5	2074.5	2027.5	1985.0	1493.1	1297.7	1160.2	1002.2	917.8	851.3
22.5°	2354.9	2320.9	2271.9	2220.9	2178.0	1621.1	1378.7	1204.2	1009.2	906.3	829.3
25°	2561.9	2525.9	2465.9	2422.9	2374.9	1751.6	1458.1	1238.2	1005.2	884.8	795.3
27.5°	2782.8	2742.8	2681.3	2636.3	2578.3	1887.0	1531.1	1262.7	990.2	849.8	749.8
30°	3013.2	2976.7	2916.3	2870.8	2812.3	2030.5	1612.6	1279.2	960.3	801.3	696.8
32.5°	3260.7	3230.2	3170.2	3122.7	3060.2	2185.9	1688.6	1284.2	914.8	743.8	640.8
35°	3495.6	3474.6	3424.1	3379.6	3314.7	2332.9	1769.1	1281.7	860.8	680.8	589.9
37.5°	3760.1	3747.6	3722.6	3666.1	3586.6	2532.4	1865.5	1271.2	794.8	618.3	550.9
40°	4042.0	4043.0	4016.0	3977.5	3903.5	2774.3	1980.5	1250.7	722.8	563.4	515.4
42.5°	4340.4	4355.9	4342.9	4315.4	4244.4	3018.2	2118.0	1225.7	652.8	509.9	480.4
45°	4682.3	4701.3	4721.3	4680.8	4611.8	3340.2	2298.9	1193.2	577.4	465.4	456.4
47.5°	5076.7	5106.7	5124.7	5125.2	5056.2	3739.1	2592.8	1173.7	510.4	435.4	444.9
50°	5909.0	5918.5	5961.0	6035.0	5982.0	4662.3	3106.2	1161.7	464.9	416.9	436.4
52.5°	7108.2	7212.7	7286.2	7281.2	7209.2	5248.7	3389.1	1099.7	437.9	409.9	432.4
55°	7596.6	7727.0	7863.0	7899.0	7843.0	5749.0	3656.6	1037.7	424.9	414.9	433.9
57.5°	8247.4	8467.4	8653.8	8732.3	8651.3	6389.4	4008.5	1005.2	420.9	428.4	443.4
60°	9007.7	9279.7	9524.6	9665.6	9665.6	7125.2	4373.4	991.7	415.4	448.4	459.4
62.5°	9496.1	9895.5	10265.4	10471.9	10465.9	7637.6	4535.4	945.8	402.9	462.4	481.4
65°	9498.1	9973.0	10444.4	10676.3	10688.3	7574.6	4267.9	835.3	379.9	464.4	503.4
67.5°	8706.3	9212.7	9762.0	10021.5	10081.5	6972.7	3694.6	686.8	342.4	444.4	511.4
70°	7353.1	7847.5	8408.4	8663.3	8769.8	5944.0	2975.7	529.4	294.4	400.4	494.9
72.5°	5793.0	6277.9	6668.3	6854.8	6937.7	4543.4	2167.0	399.9	241.4	337.4	450.4
75°	4101.5	4465.4	4672.8	4714.3	4727.3	2738.8	1316.7	297.4	198.9	262.4	380.4
77.5°	2314.9	2470.9	2453.9	2472.4	2318.4	1057.2	573.4	212.9	164.0	199.4	294.9
80°	903.8	931.8	875.3	857.8	786.8	393.4	252.9	148.5	131.0	151.0	206.4
82.5°	398.4	411.4	399.4	402.4	384.9	202.9	151.5	107.5	100.0	110.5	137.0
85°	219.4	223.4	222.4	228.9	219.4	81.0	72.0	66.0	70.0	75.0	88.0
87.5°	107.0	108.0	104.5	110.0	106.5	41.0	35.5	37.5	41.0	42.0	42.0
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):

	135°	145°	155°	165°	175°	180°
0°	858.3	858.3	858.3	858.3	858.3	858.3
2.5°	810.8	806.8	807.3	806.3	804.3	804.3
5°	803.8	799.8	799.8	798.8	796.3	796.8
7.5°	810.8	804.3	801.8	798.3	794.8	794.8
10°	818.8	807.3	800.3	794.3	789.8	789.8
12.5°	824.8	806.8	795.3	787.3	782.8	782.8
15°	826.8	803.3	787.3	777.8	773.8	773.3
17.5°	820.3	789.8	770.3	759.3	754.3	752.8
20°	800.3	765.3	741.8	729.3	722.3	719.8
22.5°	770.3	730.3	702.8	689.8	680.8	679.3
25°	728.3	685.3	658.3	645.8	640.8	639.3
27.5°	679.3	639.3	616.3	608.3	603.8	603.3
30°	632.8	598.8	581.9	575.9	570.4	569.4
32.5°	589.4	567.9	561.4	552.9	539.9	538.4
35°	558.4	556.4	551.9	532.9	516.9	512.4
37.5°	539.4	557.9	534.9	497.4	485.9	484.9
40°	528.4	542.4	502.9	489.9	490.9	489.9
42.5°	503.4	517.9	503.9	497.9	501.9	502.9
45°	478.4	494.4	511.4	507.4	516.9	516.9
47.5°	464.4	488.4	510.9	510.9	524.9	529.9
50°	448.4	483.4	502.9	509.9	520.9	516.9
52.5°	447.4	474.9	491.4	503.9	508.9	504.4
55°	448.9	467.9	479.9	493.9	499.9	500.4
57.5°	450.9	463.9	471.9	478.4	496.4	496.4
60°	455.9	460.4	464.9	468.4	491.9	492.4
62.5°	463.9	456.9	455.9	459.4	489.4	487.4
65°	476.4	451.9	444.4	447.9	486.9	480.9
67.5°	493.4	444.4	429.9	432.4	484.9	471.9
70°	508.9	432.4	411.9	409.4	465.9	442.9
72.5°	510.4	418.4	386.9	379.4	404.9	382.9
75°	485.4	408.9	359.4	337.4	334.4	331.4
77.5°	437.4	403.4	327.4	292.9	286.9	288.9
80°	365.9	382.9	288.9	247.9	280.4	276.9
82.5°	273.4	337.9	245.4	219.4	218.9	193.5
85°	152.0	263.4	199.9	164.5	114.5	111.0
87.5°	42.5	146.5	140.0	93.0	63.5	66.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)