

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: P270064

Luminaire Tested: **GPC-AF-02-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270064
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-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12334.3 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

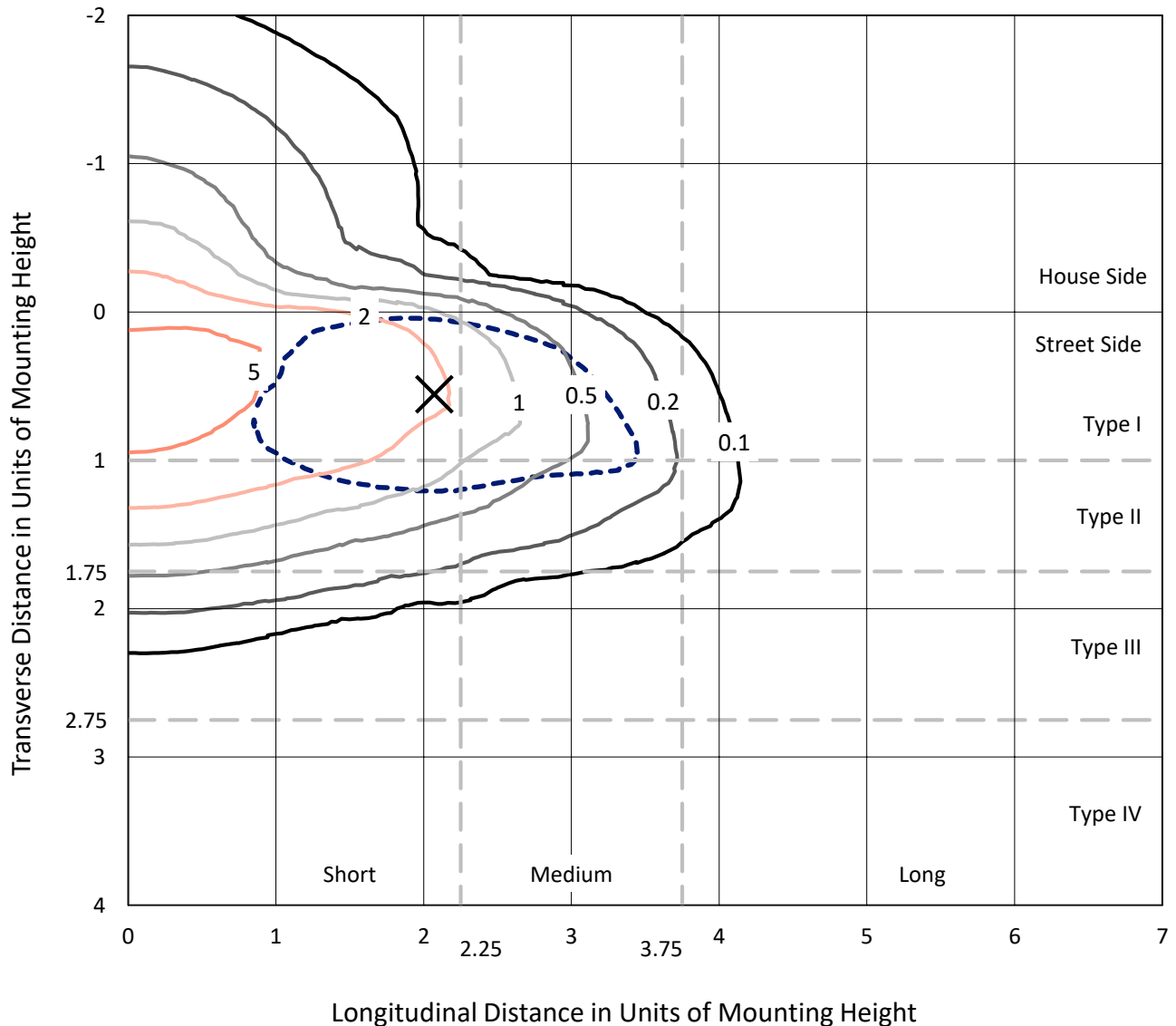
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

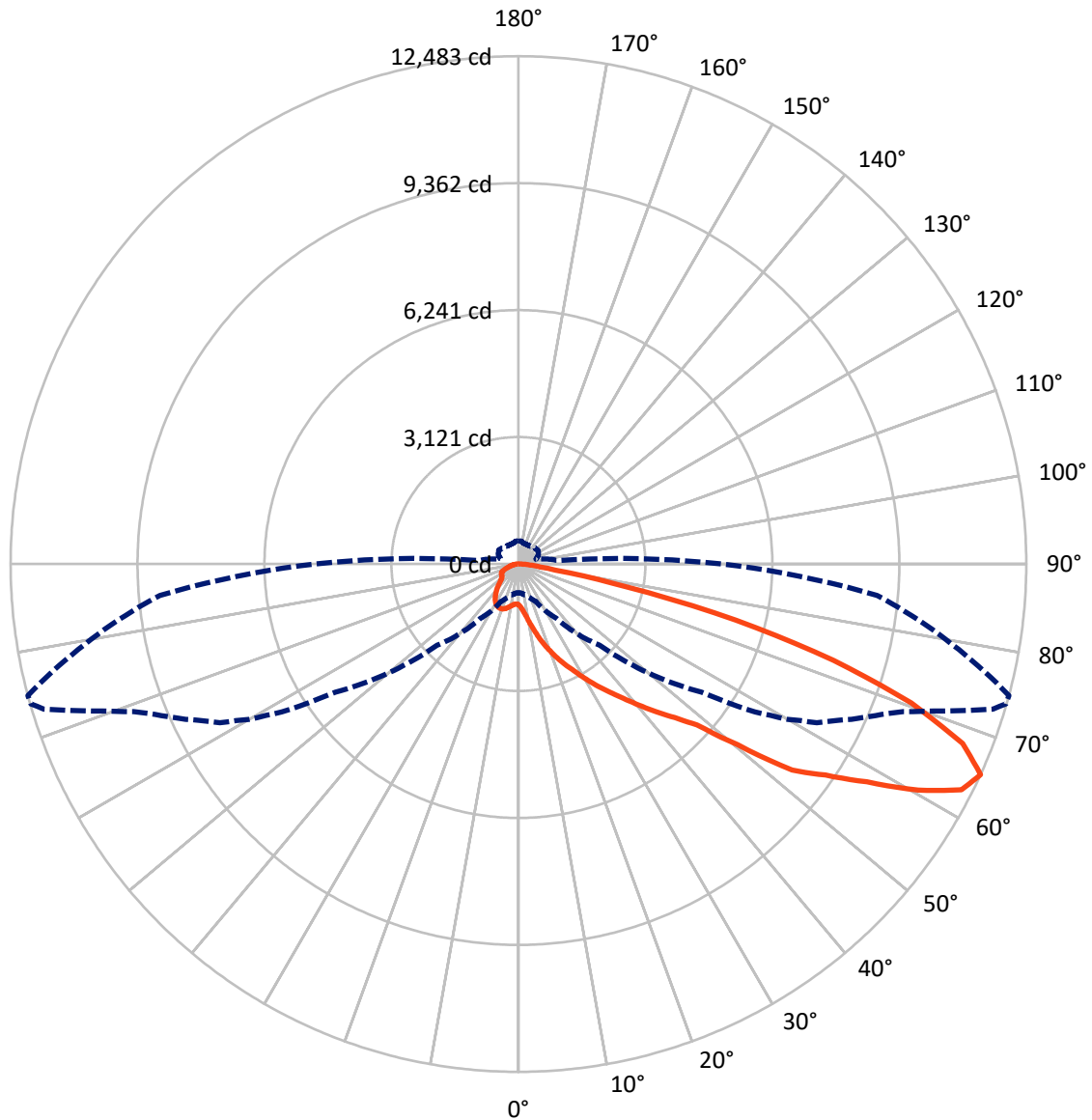
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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	1901.7	0.0	1901.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10432.6	0.0	10432.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	12334.3	0.0	12334.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.0
10°-20°	484.1	3.9
20°-30°	993.2	8.1
30°-40°	1671.0	13.5
40°-50°	2308.9	18.7
50°-60°	2882.2	23.4
60°-70°	2593.7	21.0
70°-80°	1087.2	8.8
80°-90°	189.9	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°	12334.3	100.0
0°-180°	12334.3	100.0

Coefficient of Utilization



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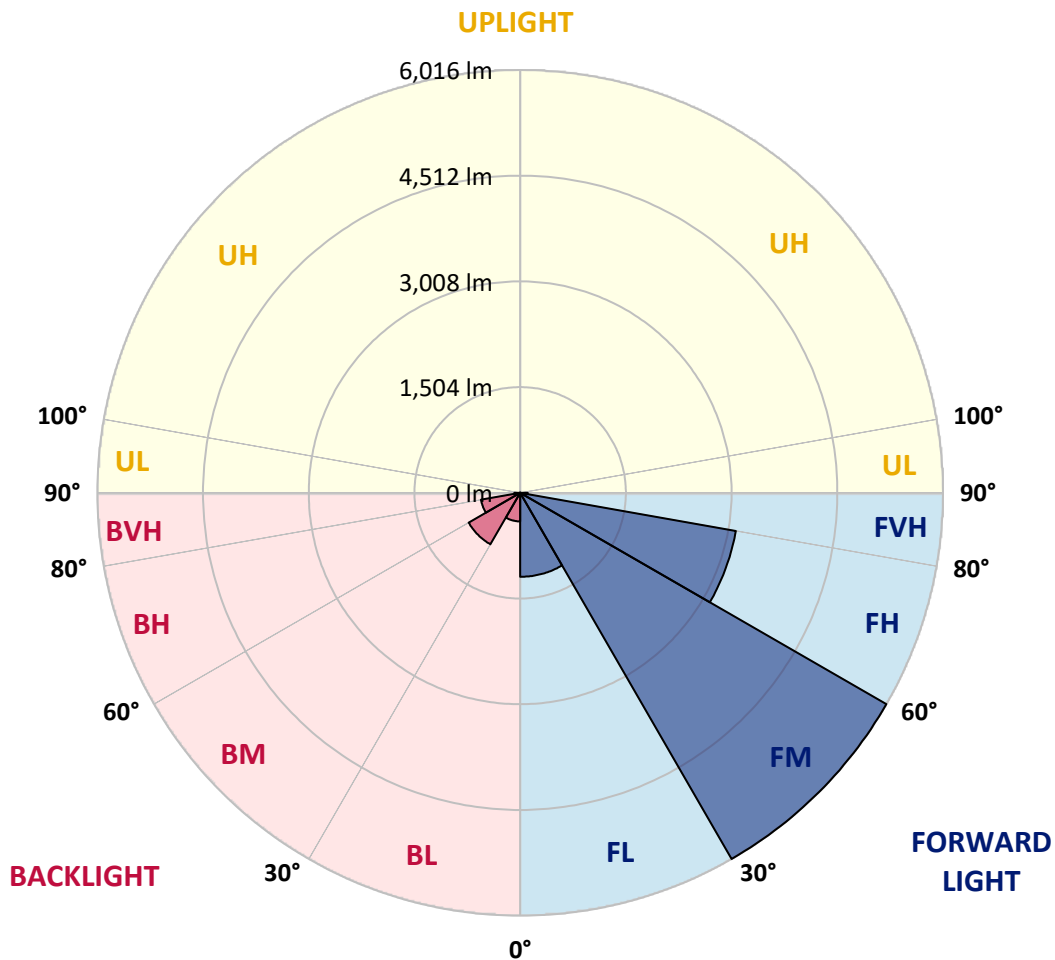
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.5	9.7			
FM (30°-60°)	6015.7	48.8			
FH (60°-80°)	3115.6	25.3			G2/5000
FVH (80°-90°)	106.8	0.9			G2/225
BL (0°-30°)	406.7	3.3	B1/500		
BM (30°-60°)	846.5	6.9	B1/1000		
BH (60°-80°)	565.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	83.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4
2.5°	1272.7	1258.6	1262.2	1238.9	1210.2	1172.8	1131.4	1130.8	1131.4	1127.4	1112.1
5°	1764.8	1747.9	1741.5	1689.0	1611.9	1502.1	1383.0	1370.2	1365.0	1351.5	1320.6
7.5°	2124.0	2114.5	2104.5	2064.9	1994.9	1872.2	1712.3	1685.0	1658.6	1652.2	1617.2
10°	2355.6	2353.3	2332.3	2321.8	2278.0	2171.7	2015.8	1989.7	1961.0	1951.1	1914.3
12.5°	2539.0	2538.4	2528.5	2531.3	2493.4	2416.4	2282.1	2258.2	2237.1	2206.7	2180.5
15°	2665.7	2666.3	2680.8	2697.3	2691.3	2639.4	2513.3	2502.8	2484.7	2463.6	2432.7
17.5°	2769.6	2772.4	2787.7	2817.4	2849.6	2845.6	2745.6	2736.9	2721.1	2692.5	2676.2
20°	3004.3	3015.4	2986.1	2986.1	2989.6	3005.4	2957.6	2950.6	2928.4	2913.3	2900.4
22.5°	3400.7	3413.5	3347.5	3280.4	3214.4	3166.5	3118.6	3127.4	3112.3	3101.8	3094.2
25°	3915.6	3925.6	3818.6	3705.4	3571.1	3396.0	3277.5	3272.3	3264.0	3257.7	3254.1
27.5°	4400.2	4404.2	4303.2	4137.5	3981.6	3729.9	3438.6	3432.2	3422.3	3410.1	3399.5
30°	4814.6	4813.5	4709.5	4551.4	4384.4	4106.0	3683.2	3663.4	3634.3	3600.9	3575.3
32.5°	5173.7	5171.9	5058.0	4894.1	4718.8	4478.4	4018.4	3977.4	3931.9	3867.2	3827.9
35°	5456.2	5455.0	5347.7	5176.7	4975.8	4829.3	4402.6	4352.3	4294.4	4207.5	4147.4
37.5°	5563.2	5563.2	5502.9	5386.1	5208.7	5108.3	4829.3	4768.6	4706.7	4607.9	4540.3
40°	5500.6	5501.8	5514.6	5493.0	5406.5	5329.6	5227.3	5191.2	5138.0	5049.4	4978.6
42.5°	5291.0	5297.5	5382.7	5487.1	5530.3	5518.2	5580.6	5564.2	5526.9	5458.6	5402.5
45°	5025.4	5045.3	5138.7	5336.0	5564.8	5681.1	5876.6	5878.4	5871.3	5834.5	5791.4
47.5°	4660.5	4688.6	4811.7	5078.6	5484.3	5839.3	6177.3	6193.1	6207.6	6183.8	6163.8
50°	4176.0	4209.3	4393.7	4747.5	5320.2	6003.4	6745.4	6816.5	6883.1	6874.9	6888.4
52.5°	3657.0	3696.0	3922.0	4316.0	5038.2	6041.2	7108.5	7224.6	7340.8	7435.9	7537.0
55°	3188.8	3167.8	3393.6	3808.8	4574.7	5870.2	7434.8	7574.9	7704.6	7821.3	7941.6
57.5°	2554.2	2588.6	2815.1	3225.5	3961.2	5387.3	7659.6	7864.4	8050.7	8243.9	8414.5
60°	1866.9	1901.4	2147.3	2564.1	3295.1	4655.2	7487.9	7798.5	8096.9	8392.9	8624.0
62.5°	1127.4	1153.1	1369.6	1766.5	2540.8	3787.2	6723.2	7130.7	7569.7	7923.4	8277.8
65°	701.8	716.3	796.3	1014.6	1631.7	2827.3	5493.0	5937.3	6410.1	6859.2	7227.6
67.5°	574.5	579.8	594.3	641.0	896.1	1843.6	4088.4	4481.9	4908.7	5342.9	5752.8
70°	516.6	513.1	513.1	516.0	574.5	991.3	2676.8	2933.1	3288.5	3666.3	4041.1
72.5°	466.5	462.9	456.6	447.7	468.7	604.7	1383.6	1576.9	1833.1	2168.9	2527.9
75°	419.1	414.5	406.9	395.9	410.4	456.6	664.3	745.6	870.5	1049.1	1249.4
77.5°	370.1	364.4	357.3	349.1	367.8	355.0	389.3	418.6	466.5	523.7	599.0
80°	314.6	309.5	307.1	303.0	325.1	270.3	275.1	293.0	321.1	352.0	387.1
82.5°	246.3	246.3	255.7	257.5	282.0	194.5	205.5	221.3	235.9	252.2	268.6
85°	162.4	163.5	195.0	207.2	222.4	130.8	154.1	159.4	171.0	180.4	187.3
87.5°	50.8	54.8	119.0	132.0	127.9	74.1	94.6	96.8	105.1	111.5	117.4
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°	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4
2.5°	1112.1	1105.2	1098.7	1098.2	1093.4	1087.0	1089.4	1079.5	1080.0	1074.8	1069.0
5°	1307.8	1303.0	1279.6	1273.3	1255.8	1244.7	1243.0	1219.5	1216.7	1203.2	1188.6
7.5°	1589.1	1573.9	1541.2	1525.5	1495.7	1473.5	1463.0	1432.1	1416.8	1381.9	1366.1
10°	1883.9	1864.7	1824.4	1802.2	1773.7	1738.0	1718.7	1673.8	1656.2	1624.1	1585.6
12.5°	2157.2	2137.8	2096.5	2079.5	2041.6	2003.6	1982.6	1931.8	1909.1	1857.7	1827.3
15°	2410.0	2390.7	2354.5	2337.0	2299.0	2268.1	2240.1	2189.9	2162.9	2115.1	2075.4
17.5°	2655.1	2634.6	2603.2	2587.5	2550.6	2519.1	2488.8	2441.5	2414.0	2366.1	2330.6
20°	2882.8	2867.7	2844.9	2823.9	2787.1	2758.4	2722.4	2681.4	2641.7	2606.7	2572.8
22.5°	3081.4	3075.4	3051.0	3041.7	3010.1	2985.5	2954.0	2913.8	2885.1	2840.8	2809.3
25°	3252.5	3250.6	3239.0	3236.1	3213.9	3190.5	3183.6	3150.3	3123.9	3084.8	3052.1
27.5°	3399.5	3401.3	3398.4	3406.6	3400.7	3390.2	3390.7	3379.7	3364.5	3331.8	3303.2
30°	3562.9	3553.7	3558.8	3570.6	3574.0	3575.3	3594.5	3600.9	3599.8	3578.2	3564.1
32.5°	3794.1	3772.0	3751.5	3749.7	3761.5	3766.1	3798.8	3815.8	3830.4	3835.7	3838.0
35°	4088.9	4044.6	4001.9	3979.2	3959.4	3964.6	3987.9	4015.5	4047.6	4069.7	4096.0
37.5°	4460.3	4405.9	4330.6	4277.0	4263.5	4234.3	4249.5	4271.1	4302.6	4337.0	4382.7
40°	4910.3	4828.1	4743.4	4672.3	4633.6	4580.0	4579.4	4575.2	4594.6	4626.7	4690.9
42.5°	5343.6	5270.6	5180.6	5106.0	5055.8	4983.9	4969.3	4931.4	4940.1	4968.2	5030.7
45°	5749.3	5689.1	5634.3	5547.9	5505.4	5427.6	5403.1	5358.2	5333.1	5346.0	5408.3
47.5°	6142.3	6103.8	6046.5	5990.4	5957.7	5888.3	5856.8	5824.6	5792.5	5791.4	5856.8
50°	6908.1	6887.8	6820.0	6761.6	6777.4	6692.2	6697.5	6611.0	6650.2	6654.9	6792.1
52.5°	7628.0	7699.3	7749.5	7810.8	7850.5	7858.1	7884.3	7923.4	7970.8	8064.2	8191.4
55°	8040.2	8129.5	8181.5	8228.1	8305.2	8321.5	8365.3	8417.3	8458.8	8563.8	8671.9
57.5°	8529.9	8695.9	8776.4	8850.6	8954.5	8994.1	9067.1	9123.7	9177.4	9301.8	9432.6
60°	8831.9	9033.9	9197.8	9315.2	9445.4	9538.8	9649.1	9737.8	9864.0	10012.9	10207.9
62.5°	8591.8	8888.5	9106.2	9307.6	9484.6	9663.2	9821.3	9987.1	10178.6	10404.0	10706.4
65°	7636.2	7938.1	8311.1	8520.1	8754.3	9029.8	9270.2	9538.8	9799.8	10127.9	10575.0
67.5°	6147.6	6498.3	6917.5	7128.3	7397.5	7705.1	7974.9	8302.9	8607.6	9005.1	9558.1
70°	4431.1	4884.8	5237.3	5457.5	5771.5	6088.5	6349.0	6730.7	6983.0	7390.4	7961.9
72.5°	2805.8	3163.7	3595.6	3873.0	4152.1	4473.1	4739.4	5068.5	5304.0	5675.2	6193.1
75°	1508.6	1772.4	2151.9	2415.3	2714.0	2988.5	3300.3	3520.9	3694.9	3988.6	4408.9
77.5°	707.0	867.6	1059.6	1262.2	1464.7	1676.1	1881.6	2060.3	2135.0	2303.2	2551.2
80°	429.1	481.0	537.0	599.6	684.1	752.5	843.0	908.4	913.0	966.1	1042.2
82.5°	286.6	306.0	322.9	338.7	360.2	377.2	396.4	419.1	428.5	440.8	465.3
85°	195.7	205.0	208.4	218.4	216.0	221.8	229.4	237.1	241.1	240.6	251.6
87.5°	120.3	125.0	127.3	129.6	127.9	125.6	129.0	133.0	134.2	130.8	132.0
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°	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4
2.5°	1070.2	1064.9	1059.6	1056.0	1054.9	1024.0	1010.6	1001.8	983.1	968.0	955.6
5°	1180.5	1169.4	1160.6	1150.1	1144.4	1066.0	1037.5	1017.6	984.9	965.6	948.2
7.5°	1358.0	1326.9	1308.9	1288.4	1270.9	1129.7	1082.4	1051.5	1005.9	980.2	960.4
10°	1559.4	1527.3	1498.6	1467.1	1439.7	1214.2	1145.3	1097.5	1037.5	1004.1	977.8
12.5°	1784.2	1752.7	1716.4	1676.1	1641.1	1321.8	1225.9	1157.6	1075.5	1031.1	994.2
15°	2049.8	1994.2	1950.5	1903.8	1862.9	1450.1	1320.0	1225.4	1115.7	1055.5	1006.6
17.5°	2296.6	2238.2	2178.7	2137.8	2090.6	1594.4	1414.7	1294.3	1148.9	1071.3	1008.8
20°	2537.8	2474.2	2422.8	2367.9	2318.3	1743.8	1515.6	1355.1	1170.5	1071.9	994.2
22.5°	2750.3	2710.6	2653.5	2593.9	2543.6	1893.3	1610.1	1406.3	1178.7	1058.5	968.6
25°	2992.1	2949.9	2880.0	2829.8	2773.6	2045.7	1702.9	1446.1	1174.1	1033.3	928.8
27.5°	3250.1	3203.4	3131.5	3079.0	3011.3	2203.9	1788.2	1474.7	1156.5	992.4	875.7
30°	3519.2	3476.6	3406.0	3352.8	3284.6	2371.4	1883.3	1493.9	1121.5	935.9	813.9
32.5°	3808.2	3772.5	3702.5	3647.1	3574.0	2553.1	1972.0	1499.8	1068.4	868.8	748.5
35°	4082.5	4058.1	3999.1	3947.2	3871.2	2724.6	2066.1	1496.8	1005.4	795.1	688.9
37.5°	4391.5	4376.8	4347.5	4281.6	4188.7	2957.6	2178.7	1484.5	928.3	722.1	643.4
40°	4720.7	4721.9	4690.3	4645.3	4559.0	3240.1	2313.0	1460.6	844.1	658.0	602.0
42.5°	5069.1	5087.3	5072.1	5040.0	4957.0	3524.9	2473.7	1431.4	762.4	595.4	561.0
45°	5468.5	5490.7	5514.1	5466.7	5386.1	3901.0	2684.9	1393.5	674.3	543.6	533.1
47.5°	5929.2	5964.1	5985.1	5985.8	5905.2	4366.9	3028.1	1370.8	596.0	508.5	519.6
50°	6901.1	6912.3	6962.0	7048.3	6986.4	5445.2	3627.7	1356.8	542.9	486.9	509.7
52.5°	8301.7	8423.8	8509.6	8503.7	8419.6	6129.9	3958.2	1284.3	511.5	478.7	504.9
55°	8872.1	9024.6	9183.3	9225.4	9159.9	6714.3	4270.5	1212.1	496.3	484.5	506.7
57.5°	9632.3	9889.1	10106.9	10198.5	10104.0	7462.2	4681.5	1174.1	491.6	500.4	517.9
60°	10520.2	10837.8	11123.8	11288.6	11288.6	8321.5	5107.8	1158.3	485.2	523.7	536.5
62.5°	11090.6	11557.1	11989.0	12230.2	12223.1	8920.0	5296.9	1104.6	470.5	540.1	562.2
65°	11092.9	11647.6	12198.1	12469.0	12482.9	8846.4	4984.5	975.5	443.8	542.3	587.9
67.5°	10168.2	10759.5	11401.2	11704.1	11774.3	8143.6	4314.9	802.1	399.9	519.0	597.3
70°	8587.7	9165.1	9820.2	10118.0	10242.4	6942.0	3475.5	618.3	344.0	467.7	578.0
72.5°	6765.8	7332.1	7787.9	8005.8	8102.6	5306.2	2530.9	467.1	282.0	394.0	526.0
75°	4790.1	5215.1	5457.5	5505.9	5521.1	3198.7	1537.8	347.4	232.3	306.5	444.3
77.5°	2703.5	2885.7	2866.0	2887.5	2707.8	1234.7	669.6	248.7	191.5	232.9	344.4
80°	1055.5	1088.1	1022.2	1001.8	918.8	459.5	295.5	173.5	152.9	176.2	241.1
82.5°	465.3	480.5	466.5	470.0	449.5	237.1	176.8	125.6	116.8	129.0	160.0
85°	256.2	261.0	259.8	267.3	256.2	94.6	84.1	77.1	81.7	87.6	102.8
87.5°	125.0	126.1	122.0	128.5	124.3	47.9	41.4	43.7	47.9	49.0	49.0
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°	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4
2.5°	947.0	942.2	942.9	941.7	939.4	939.4
5°	938.8	934.1	934.1	932.9	930.0	930.6
7.5°	947.0	939.4	936.5	932.4	928.3	928.3
10°	956.2	942.9	934.6	927.7	922.4	922.4
12.5°	963.3	942.2	928.8	919.4	914.2	914.2
15°	965.6	938.2	919.4	908.4	903.8	903.2
17.5°	958.0	922.4	899.7	886.7	881.0	879.3
20°	934.6	893.9	866.3	851.8	843.6	840.6
22.5°	899.7	852.9	820.8	805.7	795.1	793.5
25°	850.7	800.4	768.9	754.2	748.5	746.8
27.5°	793.5	746.8	719.8	710.5	705.2	704.6
30°	739.0	699.4	679.6	672.6	666.2	664.9
32.5°	688.3	663.2	655.7	645.7	630.5	628.8
35°	652.1	649.7	644.5	622.3	603.7	598.5
37.5°	629.9	651.5	624.7	580.8	567.5	566.3
40°	617.0	633.5	587.3	572.1	573.3	572.1
42.5°	587.9	604.7	588.5	581.5	586.1	587.3
45°	558.7	577.4	597.3	592.5	603.7	603.7
47.5°	542.3	570.3	596.7	596.7	613.1	618.8
50°	523.7	564.6	587.3	595.4	608.3	603.7
52.5°	522.5	554.7	573.8	588.5	594.3	589.1
55°	524.3	546.4	560.5	576.8	583.8	584.3
57.5°	526.5	541.8	551.1	558.7	579.8	579.8
60°	532.4	537.6	542.9	547.0	574.5	575.0
62.5°	541.8	533.7	532.4	536.5	571.5	569.3
65°	556.4	527.8	519.0	523.2	568.6	561.6
67.5°	576.3	519.0	502.1	504.9	566.3	551.1
70°	594.3	504.9	481.0	478.2	544.2	517.2
72.5°	596.0	488.7	451.8	443.1	472.9	447.1
75°	566.9	477.5	419.8	394.0	390.6	387.1
77.5°	510.9	471.2	382.4	342.2	335.1	337.5
80°	427.4	447.1	337.5	289.6	327.5	323.4
82.5°	319.3	394.6	286.6	256.2	255.7	226.0
85°	177.4	307.7	233.5	192.1	133.7	129.6
87.5°	49.6	171.0	163.5	108.5	74.1	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)