

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: P227789

Luminaire Tested: **ISC-AF-1200-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-1200-LED-E1-T3
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6727.9 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): 120
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

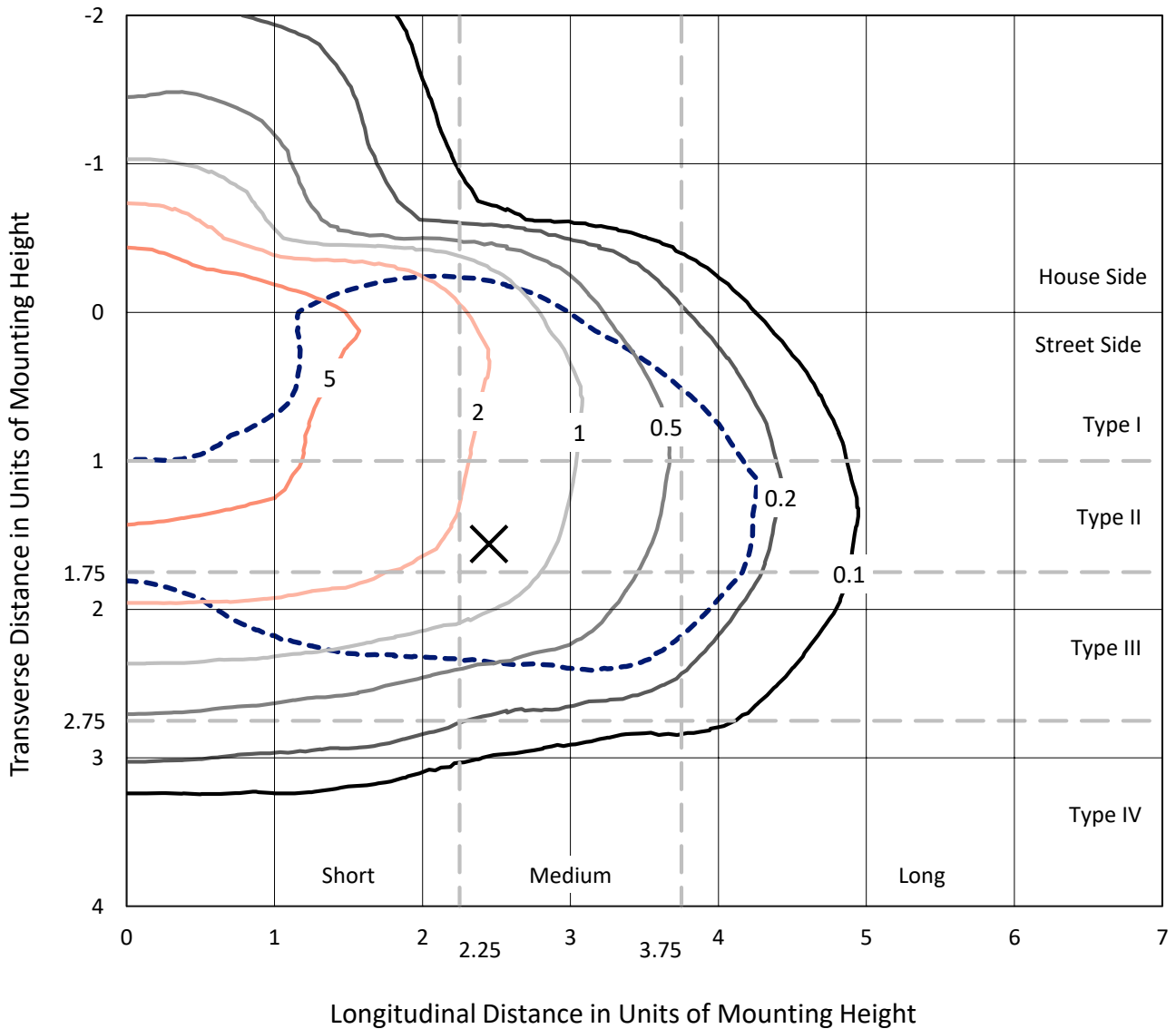


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

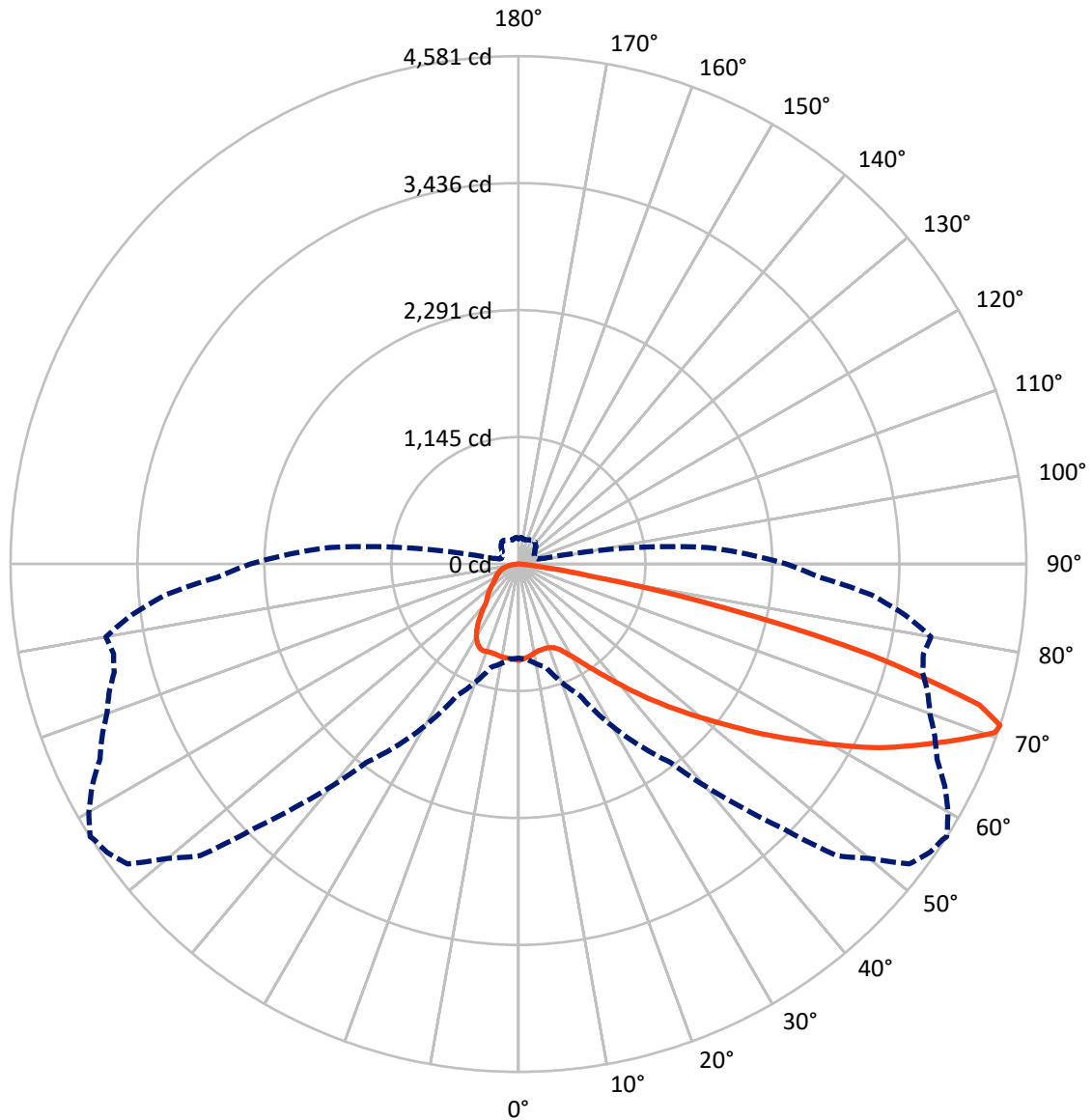


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1464.7	0.0	1464.7
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	5263.2	0.0	5263.2
	% Fixture	78.2	0.0	78.2
Total	Lumens	6727.9	0.0	6727.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.2
10°-20°	235.7	3.5
20°-30°	391.3	5.8
30°-40°	622.9	9.3
40°-50°	1011.9	15.0
50°-60°	1517.2	22.6
60°-70°	1810.0	26.9
70°-80°	977.6	14.5
80°-90°	79.6	1.2
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°	6727.9	100.0
0°-180°	6727.9	100.0



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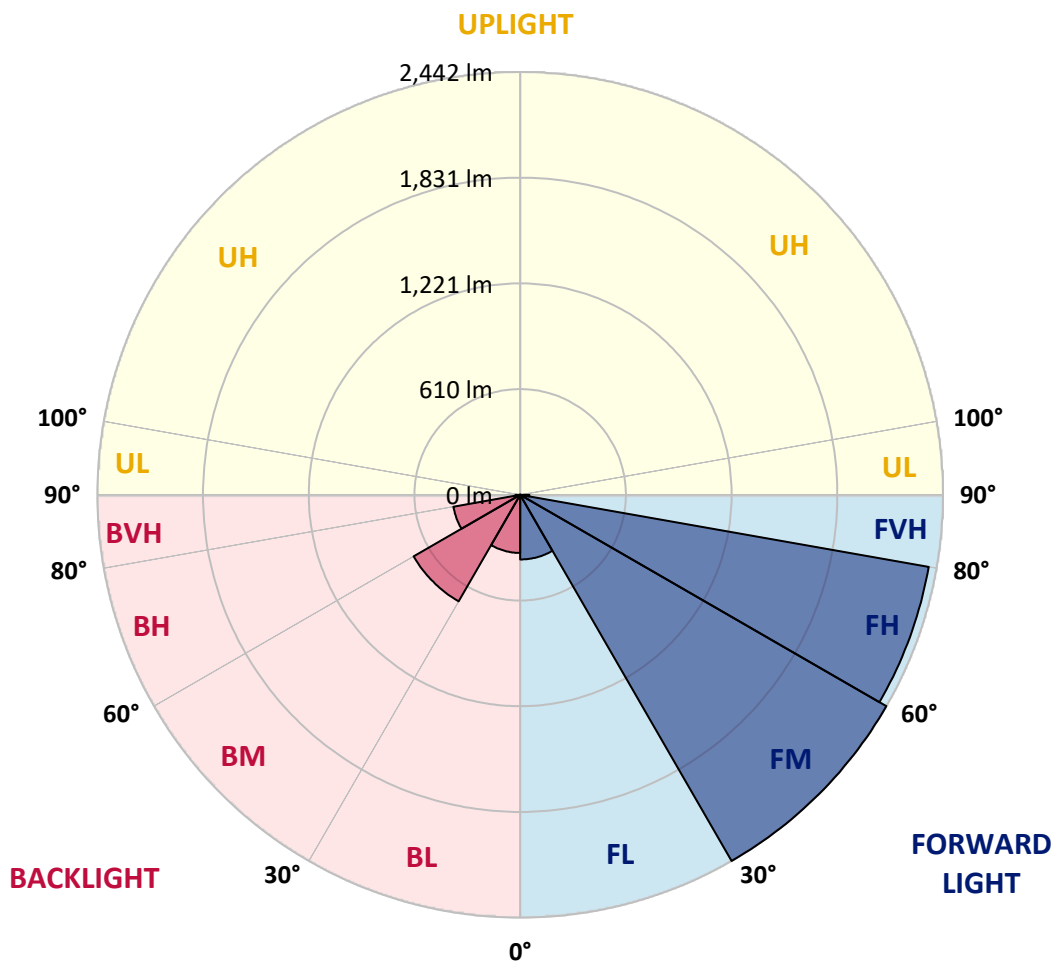
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.3	5.5			
FM	(30°-60°)	2441.8	36.3			
FH	(60°-80°)	2395.8	35.6			G2/5000
FVH	(80°-90°)	52.4	0.8			G1/100
BL	(0°-30°)	335.5	5.0	B1/500		
BM	(30°-60°)	710.2	10.6	B1/1000		
BH	(60°-80°)	391.8	5.8	B1/500		G1/500
BVH	(80°-90°)	27.1	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	869.1	867.0	864.7	864.7	864.7	862.4	855.8	858.1	864.7	860.3	867.0
5°	867.0	862.4	860.3	860.3	860.3	853.6	851.4	849.2	862.4	851.4	860.3
7.5°	842.5	842.5	838.0	842.5	846.9	840.3	835.9	838.0	849.2	838.0	849.2
10°	824.7	820.2	818.1	818.1	822.5	813.6	809.2	813.6	827.0	813.6	829.1
12.5°	818.1	820.2	813.6	813.6	811.4	800.3	800.3	800.3	811.4	800.3	813.6
15°	829.1	827.0	820.2	815.8	809.2	800.3	798.0	800.3	809.2	795.8	811.4
17.5°	844.7	844.7	833.6	822.5	815.8	806.9	806.9	802.5	809.2	800.3	811.4
20°	884.8	878.0	862.4	844.7	827.0	822.5	813.6	813.6	818.1	809.2	815.8
22.5°	953.6	946.9	920.2	886.9	858.1	846.9	842.5	840.3	835.9	831.4	831.4
25°	1044.7	1033.7	1002.5	962.5	913.6	904.7	895.8	889.1	873.6	873.6	862.4
27.5°	1142.5	1131.5	1098.1	1053.6	993.6	980.3	969.1	960.2	933.6	933.6	913.6
30°	1253.7	1240.3	1200.3	1151.4	1082.6	1078.1	1062.5	1049.2	1013.6	1011.4	984.7
32.5°	1382.6	1364.8	1324.8	1260.4	1187.0	1189.3	1164.8	1155.9	1109.2	1111.4	1075.8
35°	1529.3	1509.4	1469.4	1384.9	1309.3	1315.9	1293.7	1278.2	1220.4	1220.4	1182.5
37.5°	1684.9	1684.9	1633.9	1536.1	1444.9	1460.5	1433.8	1418.2	1360.4	1369.3	1309.3
40°	1858.3	1869.4	1813.9	1702.7	1609.4	1616.1	1596.0	1578.2	1509.4	1524.9	1460.5
42.5°	2040.6	2060.6	2011.7	1896.1	1791.7	1813.9	1780.5	1762.7	1689.4	1722.8	1647.2
45°	2305.1	2309.6	2218.5	2107.3	2020.6	2040.6	1993.9	1987.3	1896.1	1931.7	1856.1
47.5°	2471.9	2460.7	2394.0	2327.3	2276.3	2316.3	2274.0	2262.9	2158.4	2182.9	2076.2
50°	2585.2	2591.9	2540.8	2534.1	2543.0	2618.5	2611.9	2589.7	2465.2	2447.4	2314.0
52.5°	2687.5	2658.5	2649.6	2711.9	2807.5	2896.4	2932.0	2903.1	2767.5	2718.6	2589.7
55°	2669.7	2627.4	2674.1	2825.3	3014.2	3152.0	3156.5	3136.5	3014.2	2994.3	2854.2
57.5°	2549.6	2558.5	2654.1	2869.8	3189.9	3332.1	3356.6	3332.1	3232.1	3249.8	3134.3
60°	2383.0	2400.8	2551.9	2829.7	3329.9	3452.2	3463.3	3492.1	3425.5	3472.1	3392.1
62.5°	2134.0	2158.4	2351.8	2729.7	3232.1	3414.4	3516.6	3583.3	3570.0	3676.7	3634.4
65°	1960.6	1960.6	2149.5	2614.2	3136.5	3376.6	3529.9	3654.4	3672.2	3841.2	3825.6
67.5°	1638.3	1649.4	1811.6	2291.8	3020.9	3292.1	3523.2	3734.5	3841.2	4107.9	4121.3
70°	1133.6	1142.5	1249.2	1636.0	2440.8	2671.9	3012.0	3356.6	3676.7	4079.0	4287.9
71°	849.2	860.3	964.7	1304.9	2067.3	2258.5	2611.9	2969.7	3372.2	3894.5	4130.2
72.5°	415.7	422.4	524.6	838.0	1438.2	1682.8	1887.2	2229.5	2656.4	3254.3	3587.7
75°	193.4	195.6	217.9	302.3	549.0	653.6	744.7	964.7	1229.3	1753.8	2158.4
77.5°	142.3	142.3	155.6	197.8	284.5	289.0	284.5	291.2	351.2	502.4	755.8
80°	104.4	104.4	113.3	133.4	188.9	188.9	182.3	184.5	177.8	184.5	209.0
82.5°	68.9	68.9	73.3	80.0	115.6	115.6	111.2	111.2	106.7	104.4	113.3
85°	40.0	42.2	44.5	37.7	48.9	46.6	42.2	46.6	44.5	40.0	48.9
87.5°	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	2.3	0.0	2.3
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):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	858.1	864.7	864.7	855.8	862.4	855.8	860.3	853.6	860.3	849.2	862.4
5°	851.4	858.1	858.1	844.7	858.1	844.7	855.8	840.3	855.8	838.0	855.8
7.5°	833.6	849.2	849.2	831.4	846.9	833.6	846.9	831.4	844.7	824.7	846.9
10°	813.6	829.1	831.4	813.6	831.4	815.8	835.9	815.8	835.9	813.6	838.0
12.5°	800.3	818.1	822.5	802.5	824.7	804.7	829.1	806.9	829.1	804.7	833.6
15°	798.0	813.6	818.1	800.3	820.2	798.0	827.0	800.3	829.1	802.5	835.9
17.5°	800.3	813.6	818.1	798.0	818.1	800.3	824.7	802.5	829.1	804.7	835.9
20°	806.9	815.8	815.8	804.7	820.2	804.7	824.7	802.5	831.4	809.2	838.0
22.5°	827.0	829.1	829.1	820.2	829.1	818.1	833.6	818.1	838.0	820.2	846.9
25°	860.3	858.1	853.6	851.4	853.6	846.9	855.8	844.7	864.7	849.2	875.9
27.5°	918.1	909.2	904.7	904.7	902.4	904.7	904.7	900.3	909.2	904.7	922.5
30°	989.2	973.6	967.0	973.6	964.7	973.6	971.4	969.1	978.0	973.6	989.2
32.5°	1082.6	1055.9	1051.4	1064.8	1047.0	1062.5	1049.2	1055.9	1062.5	1066.9	1075.8
35°	1191.4	1160.3	1155.9	1169.2	1149.2	1171.5	1155.9	1164.8	1169.2	1180.4	1187.0
37.5°	1320.4	1282.6	1275.9	1293.7	1267.0	1291.5	1269.3	1296.0	1289.2	1304.9	1311.5
40°	1476.0	1431.5	1416.0	1440.4	1409.3	1429.3	1407.1	1436.0	1429.3	1460.5	1467.1
42.5°	1667.2	1602.7	1587.1	1611.6	1564.9	1571.6	1553.8	1587.1	1582.7	1625.0	1631.6
45°	1865.0	1787.2	1765.0	1789.4	1736.0	1749.5	1722.8	1758.4	1756.1	1789.4	1816.1
47.5°	2085.1	1989.4	1960.6	1987.3	1922.8	1938.4	1911.7	1949.4	1951.7	1989.4	2016.1
50°	2314.0	2214.0	2176.2	2200.7	2140.6	2151.8	2125.1	2171.7	2169.6	2220.6	2240.7
52.5°	2563.0	2460.7	2431.9	2442.9	2371.8	2385.1	2362.9	2420.7	2407.4	2438.5	2478.5
55°	2838.6	2720.8	2687.5	2720.8	2636.3	2654.1	2625.2	2678.6	2656.4	2696.4	2707.4
57.5°	3120.9	3005.3	2978.6	3003.1	2923.1	2936.5	2898.6	2943.1	2925.3	2952.0	2969.7
60°	3421.1	3316.5	3289.9	3316.5	3238.8	3241.0	3176.5	3223.2	3196.5	3229.9	3223.2
62.5°	3707.8	3618.9	3612.1	3650.0	3552.2	3541.0	3463.3	3496.7	3458.8	3481.0	3454.4
65°	3952.3	3901.1	3910.0	3941.2	3854.5	3827.8	3738.9	3756.7	3701.1	3701.1	3667.8
67.5°	4272.4	4216.8	4216.8	4243.5	4134.6	4065.6	3943.4	3927.8	3836.7	3818.9	3741.1
70°	4539.1	4554.7	4536.9	4559.2	4430.2	4290.2	4127.9	4050.1	3930.1	3872.3	3781.1
71°	4443.6	4532.5	4563.6	4581.4	4474.7	4334.7	4165.7	4065.6	3950.0	3872.3	3774.5
72.5°	4010.1	4225.7	4348.0	4348.0	4361.4	4272.4	4110.1	4001.2	3870.0	3767.8	3676.7
75°	2809.7	3160.9	3318.8	3301.0	3416.6	3456.6	3470.0	3423.2	3349.9	3203.2	3138.7
77.5°	1251.5	1649.4	1887.2	1889.5	2014.0	2122.8	2209.6	2300.7	2267.4	2196.2	2191.8
80°	284.5	515.7	660.2	666.9	780.2	880.2	940.3	1031.4	1042.5	940.3	882.5
82.5°	122.2	144.4	164.5	162.2	200.1	240.1	284.5	308.9	297.9	246.7	233.4
85°	51.1	66.7	71.1	66.7	82.2	91.1	106.7	108.9	126.7	113.3	120.0
87.5°	0.0	2.3	2.3	0.0	4.4	0.0	4.4	2.3	11.2	4.4	13.3
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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	853.6	864.7	853.6	864.7	858.1	864.7	862.4	864.7	853.6	864.7	851.4
5°	838.0	855.8	840.3	853.6	840.3	855.8	855.8	855.8	840.3	858.1	842.5
7.5°	824.7	844.7	824.7	844.7	831.4	846.9	846.9	853.6	835.9	855.8	833.6
10°	811.4	835.9	811.4	840.3	818.1	842.5	844.7	849.2	824.7	851.4	829.1
12.5°	804.7	835.9	806.9	835.9	809.2	842.5	844.7	849.2	822.5	855.8	827.0
15°	804.7	838.0	806.9	838.0	809.2	842.5	846.9	851.4	822.5	858.1	827.0
17.5°	804.7	838.0	811.4	840.3	813.6	844.7	849.2	853.6	827.0	858.1	831.4
20°	811.4	842.5	815.8	846.9	820.2	851.4	853.6	860.3	831.4	860.3	835.9
22.5°	827.0	853.6	831.4	860.3	840.3	864.7	867.0	873.6	851.4	875.9	855.8
25°	853.6	882.5	864.7	886.9	875.9	895.8	900.3	900.3	891.4	906.9	900.3
27.5°	909.2	931.4	918.1	938.0	931.4	946.9	946.9	949.2	955.8	960.2	967.0
30°	980.3	995.8	991.4	1002.5	1004.7	1013.6	1013.6	1026.9	1053.6	1026.9	1024.8
32.5°	1075.8	1084.7	1087.0	1091.5	1100.3	1107.0	1115.9	1131.5	1153.7	1091.5	1071.4
35°	1193.7	1195.9	1202.6	1209.2	1224.8	1229.3	1258.1	1247.1	1247.1	1149.2	1107.0
37.5°	1322.6	1322.6	1340.4	1340.4	1378.2	1380.4	1409.3	1351.5	1318.2	1191.4	1129.2
40°	1484.9	1482.7	1502.7	1507.1	1558.3	1560.5	1556.0	1429.3	1358.2	1202.6	1118.1
42.5°	1656.1	1662.7	1689.4	1698.3	1736.0	1749.5	1693.8	1482.7	1376.0	1195.9	1080.3
45°	1842.7	1856.1	1889.5	1913.9	1953.9	1938.4	1805.0	1507.1	1355.9	1155.9	1007.0
47.5°	2047.2	2060.6	2087.3	2134.0	2151.8	2134.0	1896.1	1516.0	1324.8	1093.6	900.3
50°	2254.0	2276.3	2314.0	2380.7	2389.6	2345.1	2007.2	1549.4	1300.4	1029.2	778.1
52.5°	2487.4	2509.6	2554.1	2665.2	2643.0	2551.9	2138.4	1611.6	1307.0	989.2	673.5
55°	2734.1	2765.2	2852.0	2960.9	2911.9	2769.7	2282.9	1702.7	1333.7	946.9	557.9
57.5°	2994.3	3027.5	3141.0	3269.9	3174.3	2983.1	2429.6	1773.9	1347.0	860.3	431.3
60°	3252.1	3298.8	3445.5	3552.2	3403.3	3165.4	2560.8	1820.5	1311.5	695.8	333.5
62.5°	3487.8	3563.2	3727.7	3785.5	3547.7	3281.0	2631.8	1787.2	1167.0	480.2	268.9
65°	3654.4	3752.2	3859.0	3852.2	3521.1	3243.2	2578.6	1633.9	869.1	317.8	228.9
67.5°	3725.6	3816.7	3841.2	3727.7	3329.9	3076.5	2387.4	1315.9	500.1	237.8	200.1
70°	3752.2	3830.0	3692.2	3418.8	2956.4	2667.4	1951.7	838.0	273.4	193.4	173.4
71°	3741.1	3778.9	3516.6	3196.5	2718.6	2416.3	1711.6	638.0	233.4	180.0	164.5
72.5°	3589.9	3536.6	3132.1	2776.4	2305.1	1998.3	1331.5	402.3	191.2	162.2	153.3
75°	2934.2	2694.1	2305.1	1969.5	1569.3	1256.0	722.4	206.7	153.3	140.0	133.4
77.5°	1918.3	1709.4	1389.3	1129.2	858.1	651.3	295.6	142.3	122.2	117.8	115.6
80°	684.7	549.0	415.7	364.6	275.7	226.7	144.4	108.9	95.5	97.8	95.5
82.5°	193.4	177.8	153.3	142.3	124.5	122.2	93.4	82.2	75.6	80.0	77.8
85°	95.5	82.2	60.0	57.8	44.5	51.1	46.6	55.5	48.9	51.1	46.6
87.5°	6.6	8.9	2.3	6.6	0.0	6.6	8.9	11.2	2.3	8.9	6.6
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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	867.0	858.1	869.1	858.1	869.1	862.4	869.1	862.4	869.1	873.6	873.6
5°	862.4	846.9	867.0	855.8	869.1	858.1	867.0	860.3	871.3	875.9	880.2
7.5°	860.3	844.7	864.7	849.2	869.1	853.6	867.0	858.1	871.3	875.9	884.8
10°	858.1	838.0	864.7	842.5	867.0	851.4	867.0	853.6	869.1	873.6	875.9
12.5°	858.1	835.9	864.7	840.3	867.0	844.7	864.7	844.7	867.0	864.7	858.1
15°	860.3	831.4	864.7	835.9	864.7	838.0	862.4	835.9	858.1	851.4	846.9
17.5°	860.3	831.4	862.4	833.6	860.3	835.9	855.8	831.4	851.4	849.2	842.5
20°	864.7	835.9	862.4	842.5	862.4	838.0	853.6	831.4	846.9	833.6	806.9
22.5°	878.0	858.1	878.0	858.1	867.0	844.7	851.4	824.7	822.5	800.3	758.0
25°	909.2	900.3	895.8	871.3	864.7	835.9	827.0	795.8	784.7	751.4	693.6
27.5°	949.2	929.1	902.4	873.6	844.7	809.2	784.7	760.3	735.8	693.6	620.2
30°	975.9	946.9	891.4	851.4	798.0	769.2	726.9	700.2	664.6	611.3	540.1
32.5°	993.6	949.2	864.7	818.1	746.9	709.1	653.6	624.6	573.5	522.4	471.3
35°	998.1	940.3	829.1	778.1	684.7	642.4	569.1	538.0	489.1	453.5	433.4
37.5°	980.3	909.2	773.6	706.9	604.7	555.8	486.8	464.6	435.7	422.4	413.5
40°	944.7	849.2	686.9	609.1	504.6	466.8	431.3	431.3	415.7	409.0	393.4
42.5°	880.2	760.3	575.7	500.1	429.0	422.4	402.3	411.2	400.1	395.7	373.5
45°	780.2	633.5	464.6	420.1	386.8	391.3	377.9	386.8	380.1	377.9	351.2
47.5°	651.3	504.6	391.3	375.6	353.4	360.1	349.0	360.1	353.4	355.7	335.6
50°	520.2	409.0	346.8	337.9	322.3	326.7	320.1	331.2	329.0	337.9	326.7
52.5°	415.7	349.0	308.9	302.3	293.4	295.6	293.4	304.5	306.8	324.6	324.6
55°	344.5	300.1	277.8	275.7	266.8	268.9	271.2	282.3	291.2	313.4	324.6
57.5°	295.6	268.9	253.4	251.2	246.7	249.0	253.4	266.8	275.7	304.5	329.0
60°	260.0	244.5	233.4	233.4	228.9	233.4	237.8	251.2	262.3	295.6	320.1
62.5°	233.4	222.3	215.6	217.9	215.6	220.0	224.5	237.8	251.2	282.3	306.8
65°	209.0	202.2	197.8	200.1	200.1	206.7	211.1	224.5	235.6	264.5	295.6
67.5°	188.9	184.5	182.3	184.5	186.7	193.4	200.1	209.0	217.9	244.5	280.1
70°	173.4	168.9	168.9	168.9	171.1	177.8	186.7	191.2	200.1	228.9	262.3
71°	164.5	162.2	162.2	162.2	164.5	171.1	180.0	184.5	193.4	222.3	253.4
72.5°	153.3	153.3	155.6	153.3	157.8	160.1	168.9	173.4	184.5	213.4	242.3
75°	135.6	135.6	137.8	137.8	142.3	142.3	148.9	153.3	166.7	191.2	217.9
77.5°	120.0	120.0	124.5	122.2	122.2	117.8	126.7	131.1	142.3	166.7	193.4
80°	102.3	100.0	104.4	97.8	95.5	91.1	97.8	104.4	122.2	137.8	142.3
82.5°	80.0	73.3	75.6	68.9	68.9	64.4	71.1	73.3	84.5	100.0	108.9
85°	48.9	40.0	44.5	37.7	42.2	37.7	40.0	42.2	51.1	62.2	60.0
87.5°	11.2	6.6	8.9	2.3	6.6	0.0	6.6	2.3	6.6	2.3	0.0
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):

	155°	165°	175°	180°
0°	869.1	869.1	869.1	869.1
2.5°	878.0	875.9	878.0	875.9
5°	889.1	889.1	891.4	893.6
7.5°	891.4	895.8	900.3	898.0
10°	875.9	871.3	875.9	871.3
12.5°	851.4	846.9	851.4	851.4
15°	849.2	846.9	849.2	849.2
17.5°	833.6	822.5	818.1	815.8
20°	789.1	769.2	764.7	758.0
22.5°	726.9	698.0	689.1	682.4
25°	651.3	611.3	595.8	586.9
27.5°	569.1	529.1	513.5	513.5
30°	504.6	473.5	457.9	457.9
32.5°	457.9	440.2	429.0	431.3
35°	420.1	409.0	402.3	404.6
37.5°	395.7	377.9	362.3	362.3
40°	371.2	349.0	329.0	329.0
42.5°	349.0	326.7	313.4	311.2
45°	326.7	311.2	300.1	297.9
47.5°	315.7	302.3	291.2	289.0
50°	311.2	297.9	282.3	282.3
52.5°	315.7	304.5	275.7	275.7
55°	324.6	317.8	275.7	271.2
57.5°	315.7	304.5	277.8	271.2
60°	295.6	277.8	273.4	268.9
62.5°	282.3	264.5	273.4	271.2
65°	271.2	257.9	277.8	273.4
67.5°	260.0	246.7	277.8	268.9
70°	246.7	233.4	253.4	237.8
71°	240.1	224.5	240.1	226.7
72.5°	228.9	211.1	215.6	206.7
75°	206.7	188.9	184.5	182.3
77.5°	171.1	151.2	144.4	142.3
80°	131.1	117.8	117.8	111.2
82.5°	97.8	86.6	84.5	73.3
85°	51.1	40.0	33.3	33.3
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)