

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: P227975

Luminaire Tested: **ISS-AF-1200-LED-E1-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1200-LED-E1-T4W
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6732 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Non-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

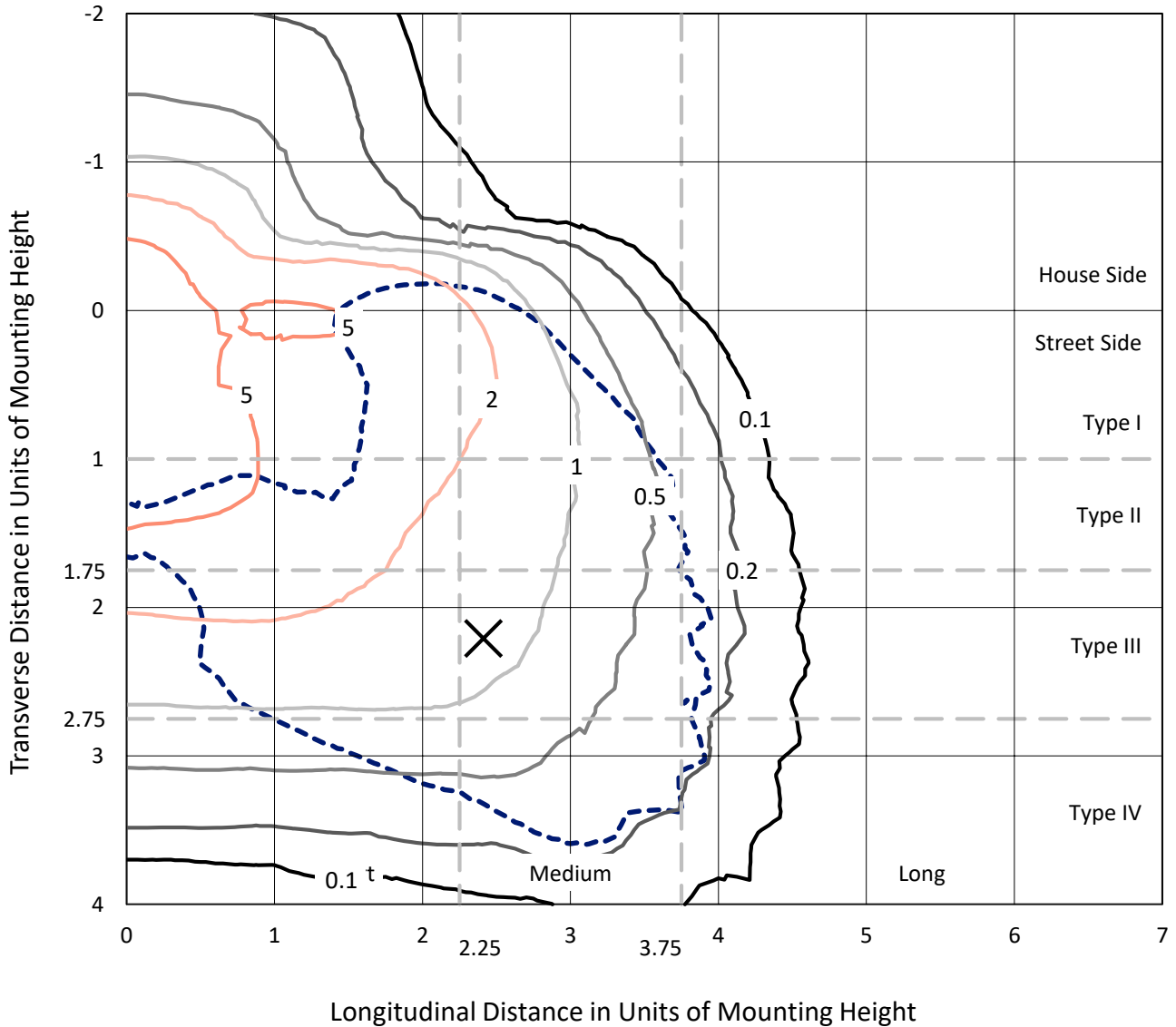


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

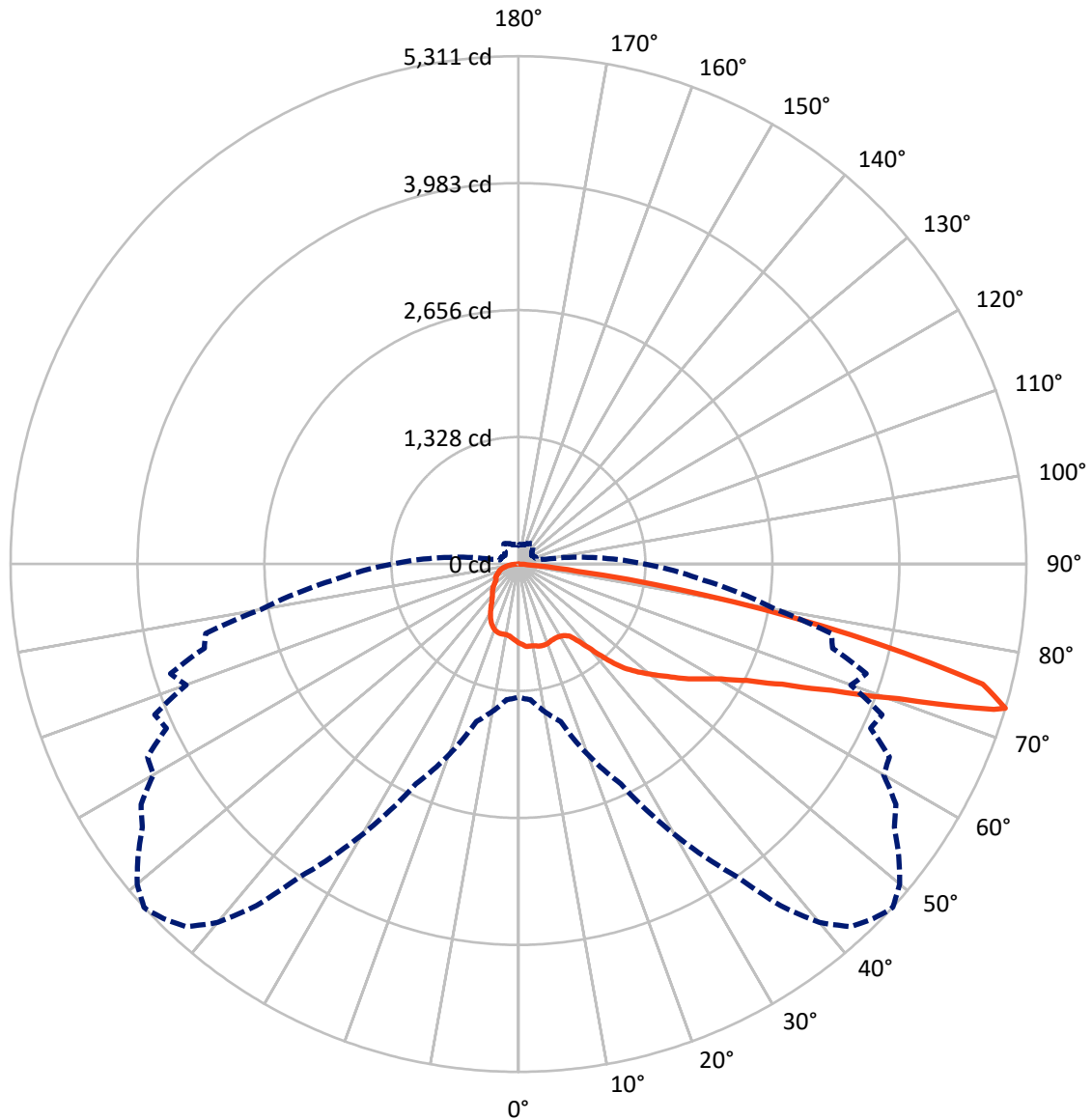


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.0	0.0	1345.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5387.0	0.0	5387.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	6732.0	0.0	6732.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.2
10°-20°	234.2	3.5
20°-30°	360.1	5.3
30°-40°	525.3	7.8
40°-50°	866.1	12.9
50°-60°	1356.0	20.1
60°-70°	1839.5	27.3
70°-80°	1362.1	20.2
80°-90°	110.0	1.6
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°	6732.0	100.0
0°-180°	6732.0	100.0



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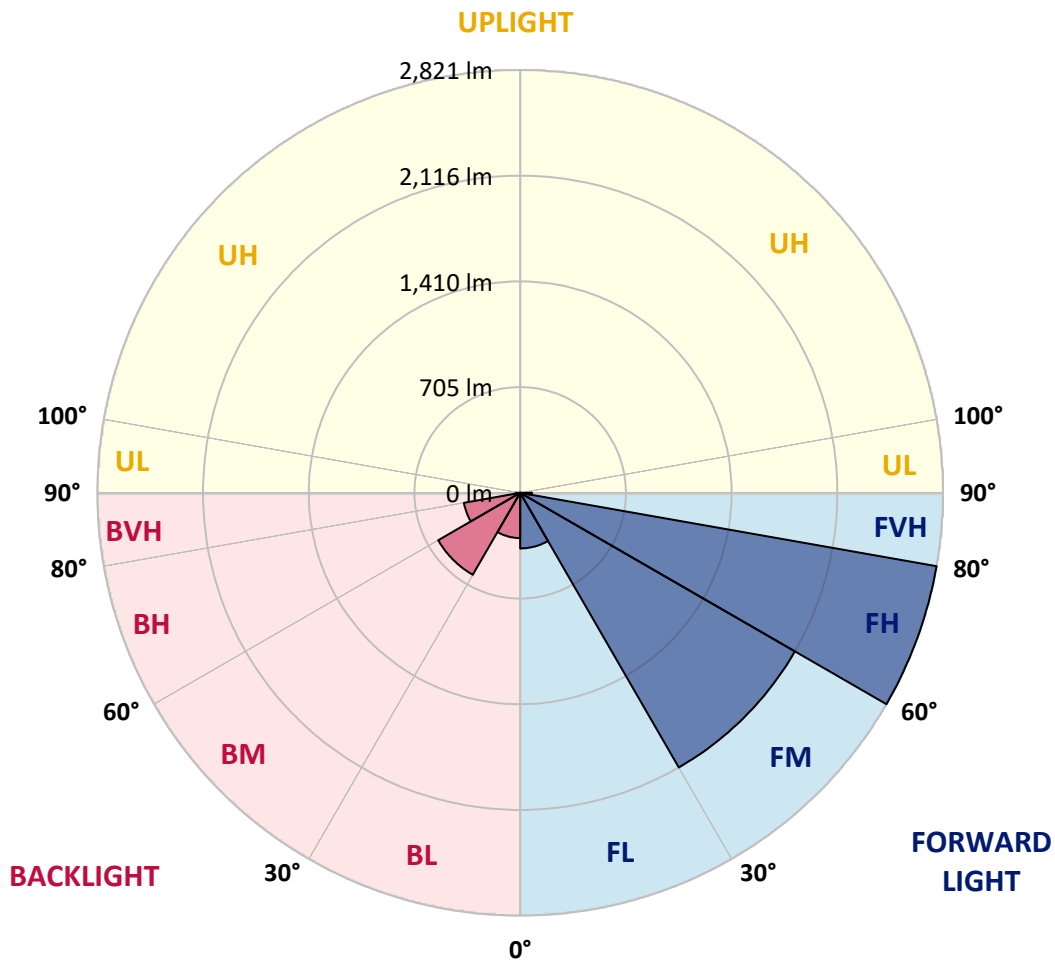
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.1	5.5			
FM	(30°-60°)	2115.8	31.4			
FH	(60°-80°)	2820.7	41.9			G2/5000
FVH	(80°-90°)	79.4	1.2			G1/100
BL	(0°-30°)	301.9	4.5	B1/500		
BM	(30°-60°)	631.6	9.4	B1/1000		
BH	(60°-80°)	380.9	5.7	B1/500		G1/500
BVH	(80°-90°)	30.7	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	875.5	873.4	866.7	864.5	857.8	853.3	851.1	848.9	855.6	851.1	844.4
5°	931.2	926.7	917.8	904.5	891.1	882.3	880.0	875.5	875.5	871.1	866.7
7.5°	971.2	968.9	955.5	935.6	913.4	897.8	888.9	882.3	884.4	880.0	866.7
10°	1008.9	1004.4	982.2	957.8	924.4	906.7	895.6	884.4	893.3	886.7	868.9
12.5°	1037.8	1033.4	1002.3	971.2	933.3	913.4	902.2	895.6	904.5	900.0	880.0
15°	1053.3	1048.9	1017.8	980.0	940.0	917.8	913.4	908.9	915.5	906.7	888.9
17.5°	1044.4	1044.4	1015.6	975.6	942.2	920.0	913.4	908.9	917.8	908.9	888.9
20°	1011.2	1015.6	995.6	953.4	928.9	913.4	906.7	897.8	906.7	897.8	884.4
22.5°	968.9	973.3	962.3	924.4	906.7	895.6	893.3	884.4	891.1	884.4	871.1
25°	931.2	931.2	926.7	893.3	891.1	882.3	884.4	880.0	884.4	875.5	866.7
27.5°	933.3	933.3	915.5	882.3	880.0	880.0	880.0	880.0	882.3	875.5	866.7
30°	1064.5	1068.9	1017.8	924.4	891.1	886.7	888.9	886.7	888.9	886.7	875.5
32.5°	1262.2	1262.2	1213.4	1068.9	951.1	922.3	911.1	908.9	902.2	900.0	891.1
35°	1457.8	1455.6	1406.8	1246.7	1097.8	1042.3	1006.7	973.3	957.8	942.2	926.7
37.5°	1622.3	1615.6	1608.9	1426.7	1271.1	1206.7	1164.5	1115.6	1084.5	1057.8	1022.2
40°	1775.6	1786.7	1811.1	1593.3	1444.5	1384.5	1342.3	1280.0	1248.9	1215.6	1173.3
42.5°	1986.8	2002.3	2004.5	1773.4	1602.2	1562.3	1528.9	1482.3	1448.9	1408.9	1371.2
45°	2191.2	2193.4	2200.1	1966.7	1795.6	1744.5	1720.1	1675.6	1633.3	1582.3	1551.2
47.5°	2331.2	2324.6	2353.4	2189.0	2022.3	1964.5	1929.0	1862.3	1797.8	1733.4	1686.7
50°	2502.3	2495.7	2495.7	2442.3	2284.6	2217.9	2155.7	2031.2	1962.3	1882.3	1815.6
52.5°	2653.4	2629.0	2644.5	2675.6	2560.1	2475.6	2366.7	2226.8	2135.6	2037.8	1953.4
55°	2860.1	2733.4	2769.0	2877.9	2833.5	2702.3	2557.9	2408.9	2304.5	2193.4	2115.7
57.5°	2789.0	2702.3	2806.8	2997.9	2995.7	2873.5	2751.2	2568.9	2464.5	2360.0	2264.5
60°	2533.4	2577.8	2804.5	3080.1	3091.3	2995.7	2895.7	2726.8	2644.5	2535.7	2440.0
62.5°	2335.6	2400.0	2711.2	3073.5	3200.1	3111.2	3029.0	2929.0	2871.2	2780.1	2682.3
65°	2324.6	2362.3	2664.6	3066.8	3353.4	3306.8	3269.0	3222.3	3211.2	3144.6	3031.2
67.5°	2431.2	2466.7	2744.6	3237.8	3580.1	3560.2	3615.7	3606.8	3655.7	3622.4	3529.0
70°	2222.3	2242.3	2584.5	3297.9	4097.9	4186.8	4311.2	4304.6	4409.0	4329.0	4220.2
72.5°	1560.1	1600.1	1902.3	2724.5	4109.0	4584.6	4873.5	5117.9	5231.3	5251.3	5200.2
73°	1393.4	1424.5	1704.5	2537.8	3997.9	4504.6	4893.5	5144.6	5244.7	5306.9	5311.3
75°	484.5	500.0	744.5	1537.8	3195.7	3931.2	4431.2	4657.9	4633.5	4815.7	5015.7
77.5°	155.6	157.7	193.3	397.8	1542.3	2440.0	2997.9	3206.7	3086.8	3284.6	3551.3
80°	95.5	100.0	126.6	180.0	404.5	740.0	1253.4	1568.9	1504.5	1689.0	1973.4
82.5°	57.8	60.0	77.7	111.1	162.2	180.0	235.6	320.0	393.3	473.3	620.0
85°	26.7	28.8	37.7	51.1	66.7	68.8	66.7	62.2	71.1	82.2	95.5
87.5°	0.0	0.0	2.3	4.4	2.3	0.0	0.0	0.0	0.0	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	851.1	844.4	844.4	835.5	840.0	831.1	835.5	826.6	831.1	820.0	826.6
5°	864.5	853.3	853.3	840.0	842.3	826.6	833.4	815.6	824.5	804.4	817.8
7.5°	871.1	851.1	860.0	835.5	846.7	820.0	833.4	804.4	822.2	791.2	813.3
10°	880.0	851.1	866.7	840.0	853.3	822.2	840.0	804.4	826.6	788.9	808.9
12.5°	893.3	862.2	875.5	844.4	862.2	826.6	844.4	808.9	831.1	788.9	813.3
15°	902.2	871.1	884.4	853.3	866.7	826.6	848.9	806.7	831.1	786.6	813.3
17.5°	900.0	871.1	884.4	848.9	864.5	824.5	846.7	804.4	826.6	780.0	808.9
20°	891.1	866.7	875.5	844.4	857.8	817.8	837.8	795.5	820.0	773.4	802.3
22.5°	880.0	855.6	866.7	837.8	851.1	811.1	828.9	791.2	815.6	769.0	795.5
25°	873.4	853.3	860.0	831.1	848.9	813.3	831.1	788.9	815.6	769.0	800.0
27.5°	871.1	853.3	866.7	840.0	855.6	824.5	842.3	804.4	826.6	777.9	808.9
30°	884.4	868.9	880.0	857.8	871.1	840.0	857.8	822.2	844.4	797.8	833.4
32.5°	900.0	884.4	895.6	875.5	895.6	864.5	886.7	851.1	877.8	831.1	864.5
35°	933.3	915.5	931.2	908.9	931.2	906.7	931.2	893.3	926.7	880.0	915.5
37.5°	1020.1	971.2	986.7	962.3	984.5	953.4	995.6	957.8	995.6	951.1	1000.0
40°	1157.8	1071.1	1086.7	1035.6	1068.9	1022.2	1073.4	1044.4	1095.6	1040.0	1102.2
42.5°	1337.8	1255.6	1240.0	1162.3	1191.1	1135.6	1186.7	1135.6	1204.5	1151.1	1229.0
45°	1502.3	1415.6	1391.1	1315.6	1335.6	1262.2	1326.7	1255.6	1346.7	1284.5	1382.3
47.5°	1637.8	1535.7	1515.6	1429.0	1464.5	1395.6	1475.6	1400.0	1511.2	1448.9	1562.3
50°	1762.2	1635.6	1631.2	1537.8	1597.8	1528.9	1642.2	1591.2	1700.0	1637.8	1771.1
52.5°	1904.5	1744.5	1766.7	1682.2	1777.9	1720.1	1851.1	1777.9	1920.1	1853.4	2000.1
55°	2055.6	1886.7	1944.5	1893.4	2006.7	1969.0	2080.1	2013.4	2153.4	2086.7	2242.3
57.5°	2222.3	2077.8	2180.1	2155.7	2255.6	2209.0	2333.5	2273.4	2413.4	2357.9	2513.4
60°	2440.0	2344.5	2444.5	2442.3	2528.9	2526.8	2606.8	2571.2	2704.6	2680.1	2822.3
62.5°	2722.3	2646.8	2753.5	2724.5	2829.0	2811.2	2909.0	2909.0	3004.5	3037.9	3180.1
65°	3102.3	3002.4	3129.0	3084.5	3189.0	3193.4	3255.6	3266.8	3382.4	3420.1	3542.4
67.5°	3617.9	3502.4	3602.3	3517.9	3637.9	3631.3	3684.6	3706.8	3722.3	3813.5	3826.8
70°	4360.1	4186.8	4277.9	4162.4	4184.6	4200.1	4100.2	4173.4	3995.6	4140.2	3944.6
72.5°	5162.4	4964.6	4806.8	4691.3	4462.4	4429.1	4137.9	4200.1	3822.4	3946.9	3551.3
73°	5204.7	5013.5	4800.2	4680.2	4409.0	4373.5	4062.3	4115.7	3697.9	3815.7	3400.1
75°	4731.2	4782.4	4269.1	4318.0	3846.8	3902.4	3415.6	3477.9	2964.5	3053.4	2517.9
77.5°	3189.0	3360.1	2784.6	3000.1	2415.6	2631.2	1971.2	1991.2	1453.4	1357.9	922.3
80°	1580.0	1726.7	1224.5	1337.8	897.8	882.3	537.8	446.7	380.0	388.9	400.0
82.5°	455.6	513.3	317.8	315.6	224.4	213.4	213.4	226.7	231.1	257.8	251.1
85°	86.6	104.4	91.1	122.2	108.8	120.0	111.1	128.9	120.0	148.9	128.9
87.5°	2.3	0.0	2.3	6.6	6.6	15.5	11.2	17.8	17.8	31.1	28.8
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	817.8	828.9	824.5	820.0	815.6	813.3	804.4	808.9	797.8	806.7	797.8
5°	800.0	813.3	806.7	797.8	793.4	788.9	773.4	784.5	766.7	782.3	769.0
7.5°	780.0	802.3	795.5	786.6	777.9	773.4	742.3	766.7	740.0	762.2	740.0
10°	773.4	797.8	788.9	777.9	769.0	764.5	726.7	755.6	726.7	751.2	722.2
12.5°	769.0	797.8	784.5	773.4	764.5	757.8	715.6	751.2	713.4	748.9	715.6
15°	764.5	797.8	780.0	766.7	757.8	751.2	706.7	746.7	704.5	744.5	706.7
17.5°	760.1	791.2	775.6	760.1	751.2	746.7	697.8	740.0	695.6	740.0	702.3
20°	753.4	784.5	766.7	751.2	742.3	735.6	686.7	731.1	684.5	729.0	686.7
22.5°	744.5	777.9	762.2	746.7	737.9	726.7	673.3	720.1	671.2	715.6	675.6
25°	746.7	782.3	762.2	746.7	733.4	722.2	664.5	715.6	660.0	704.5	660.0
27.5°	757.8	788.9	769.0	755.6	737.9	724.5	664.5	711.2	655.6	693.4	646.7
30°	780.0	811.1	793.4	773.4	757.8	740.0	675.6	713.4	655.6	680.1	633.3
32.5°	817.8	846.7	828.9	813.3	795.5	769.0	697.8	724.5	660.0	671.2	622.3
35°	866.7	902.2	893.3	882.3	860.0	813.3	735.6	740.0	668.9	662.3	606.7
37.5°	946.7	995.6	993.4	991.1	966.7	882.3	777.9	771.1	677.8	655.6	586.7
40°	1051.2	1108.9	1124.5	1140.1	1088.9	964.4	826.6	802.3	682.2	642.2	555.6
42.5°	1173.3	1251.2	1297.8	1326.7	1233.4	1055.6	882.3	837.8	682.2	622.3	520.1
45°	1324.5	1415.6	1504.5	1535.7	1393.4	1153.4	940.0	866.7	673.3	591.2	473.3
47.5°	1509.0	1615.6	1737.8	1753.4	1566.8	1257.8	980.0	886.7	644.5	548.9	431.2
50°	1713.4	1842.3	2022.3	2011.2	1751.2	1366.8	1006.7	900.0	593.3	500.0	380.0
52.5°	1942.3	2104.5	2360.0	2309.0	1975.6	1502.3	1031.1	917.8	531.1	442.2	328.9
55°	2229.0	2422.3	2742.3	2633.4	2224.5	1651.1	1066.7	920.0	448.9	373.4	291.1
57.5°	2537.8	2744.6	3153.5	2955.6	2457.8	1766.7	1051.2	848.9	366.7	315.6	262.2
60°	2909.0	3160.1	3564.6	3255.6	2653.4	1806.7	942.2	700.0	313.3	284.5	248.9
62.5°	3324.6	3573.5	3902.4	3464.5	2764.5	1740.0	700.0	484.5	268.9	253.4	228.9
65°	3766.8	4002.4	4064.6	3482.3	2691.2	1446.8	433.3	317.8	233.3	226.7	211.1
67.5°	4173.4	4195.7	3911.3	3193.4	2335.6	1008.9	295.5	253.4	215.5	213.4	204.5
70°	4277.9	3893.5	3251.2	2486.8	1686.7	600.1	240.0	220.0	206.6	206.6	200.0
72.5°	3573.5	2964.5	2173.4	1506.7	920.0	320.0	204.5	200.0	195.6	195.6	191.1
73°	3351.2	2731.2	1946.8	1315.6	777.9	286.6	200.0	195.6	193.3	191.1	188.9
75°	2226.8	1715.6	1104.5	666.7	362.2	206.6	177.8	177.8	175.5	177.8	175.5
77.5°	857.8	646.7	426.7	286.6	206.6	162.2	151.1	153.3	151.1	155.6	153.3
80°	377.8	373.4	282.2	202.2	151.1	122.2	122.2	122.2	124.5	126.6	126.6
82.5°	257.8	217.8	166.6	124.5	91.1	88.9	91.1	91.1	93.3	95.5	93.3
85°	142.2	120.0	88.9	55.5	48.9	60.0	60.0	60.0	57.8	57.8	55.5
87.5°	44.4	33.3	24.4	6.6	11.2	11.2	15.5	13.3	13.3	15.5	15.5
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6	826.6
2.5°	806.7	800.0	806.7	795.5	804.4	795.5	802.3	802.3	800.0	800.0	800.0
5°	780.0	769.0	780.0	773.4	780.0	771.1	777.9	780.0	782.3	788.9	786.6
7.5°	760.1	737.9	762.2	740.0	760.1	740.0	757.8	760.1	766.7	775.6	782.3
10°	751.2	722.2	751.2	724.5	748.9	726.7	748.9	751.2	757.8	769.0	780.0
12.5°	746.7	715.6	746.7	720.1	746.7	724.5	746.7	753.4	757.8	766.7	780.0
15°	742.3	711.2	746.7	717.8	746.7	724.5	748.9	753.4	760.1	769.0	780.0
17.5°	740.0	704.5	742.3	715.6	742.3	720.1	746.7	746.7	755.6	766.7	773.4
20°	731.1	697.8	731.1	704.5	731.1	711.2	733.4	733.4	742.3	746.7	757.8
22.5°	717.8	682.2	713.4	689.0	713.4	693.4	711.2	711.2	717.8	724.5	731.1
25°	697.8	664.5	691.1	668.9	686.7	668.9	682.2	680.1	684.5	689.0	693.4
27.5°	675.6	642.2	664.5	640.1	651.1	633.3	642.2	637.8	640.1	642.2	644.5
30°	651.1	617.8	628.9	606.7	608.9	591.2	595.6	588.9	586.7	584.5	580.0
32.5°	624.5	588.9	588.9	566.7	562.2	546.7	546.7	537.8	531.1	522.2	513.3
35°	591.2	560.1	544.4	526.7	517.8	502.3	500.0	488.9	473.3	457.8	448.9
37.5°	557.8	522.2	500.0	482.2	473.3	462.3	460.0	451.1	433.3	415.5	402.2
40°	513.3	477.8	453.4	446.7	440.0	431.2	433.3	422.3	404.5	384.4	373.4
42.5°	468.9	437.8	417.8	415.5	411.1	408.9	411.1	402.2	382.3	364.5	351.1
45°	431.2	400.0	380.0	377.8	375.5	384.4	386.7	384.4	362.2	344.4	326.6
47.5°	393.3	355.6	342.3	337.8	340.0	353.3	357.8	364.5	344.4	324.5	300.0
50°	348.9	313.3	308.9	304.4	306.7	317.8	328.9	342.3	324.5	295.5	262.2
52.5°	308.9	277.8	280.0	275.6	280.0	288.9	297.8	320.0	297.8	268.9	253.4
55°	277.8	253.4	257.8	253.4	257.8	268.9	275.6	293.4	293.4	286.6	273.3
57.5°	255.5	237.8	242.2	237.8	244.5	253.4	260.0	297.8	320.0	302.3	275.6
60°	242.2	226.7	228.9	224.4	228.9	242.2	255.5	300.0	335.5	300.0	280.0
62.5°	222.2	208.9	206.6	206.6	211.1	233.3	240.0	280.0	331.1	297.8	282.2
65°	208.9	197.7	195.6	193.3	197.7	213.4	220.0	260.0	320.0	282.2	255.5
67.5°	202.2	193.3	188.9	184.4	188.9	202.2	208.9	244.5	302.3	268.9	240.0
70°	195.6	186.7	184.4	180.0	182.2	191.1	200.0	224.4	286.6	253.4	224.4
72.5°	186.7	177.8	175.5	168.9	171.1	180.0	184.4	211.1	266.7	237.8	208.9
73°	184.4	175.5	173.4	166.6	168.9	175.5	180.0	206.6	262.2	235.6	206.6
75°	173.4	164.5	162.2	157.7	160.0	160.0	164.5	188.9	248.9	222.2	193.3
77.5°	153.3	146.7	144.4	140.0	137.8	135.5	142.2	166.6	226.7	200.0	155.6
80°	126.6	120.0	117.7	108.8	108.8	108.8	117.7	142.2	168.9	144.4	120.0
82.5°	93.3	88.9	88.9	82.2	80.0	77.7	84.5	97.8	133.3	113.3	93.3
85°	55.5	53.3	55.5	48.9	51.1	48.9	55.5	68.8	73.3	57.8	44.4
87.5°	13.3	15.5	15.5	15.5	13.3	13.3	11.2	8.9	0.0	0.0	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):

	175°	180°
0°	826.6	826.6
2.5°	797.8	795.5
5°	786.6	786.6
7.5°	782.3	782.3
10°	784.5	784.5
12.5°	784.5	788.9
15°	791.2	788.9
17.5°	784.5	784.5
20°	766.7	771.1
22.5°	742.3	742.3
25°	702.3	704.5
27.5°	649.0	653.4
30°	582.3	586.7
32.5°	506.7	511.2
35°	446.7	448.9
37.5°	406.7	406.7
40°	373.4	373.4
42.5°	342.3	340.0
45°	311.1	306.7
47.5°	280.0	277.8
50°	253.4	253.4
52.5°	257.8	257.8
55°	277.8	277.8
57.5°	280.0	277.8
60°	304.4	302.3
62.5°	317.8	324.5
65°	277.8	268.9
67.5°	264.4	251.1
70°	237.8	217.8
72.5°	211.1	200.0
73°	204.5	195.6
75°	182.2	177.8
77.5°	137.8	135.5
80°	115.6	113.3
82.5°	77.7	73.3
85°	33.3	31.1
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)