

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: P228365

Luminaire Tested: **ISS-AF-1200-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
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-SL4
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5951.5 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

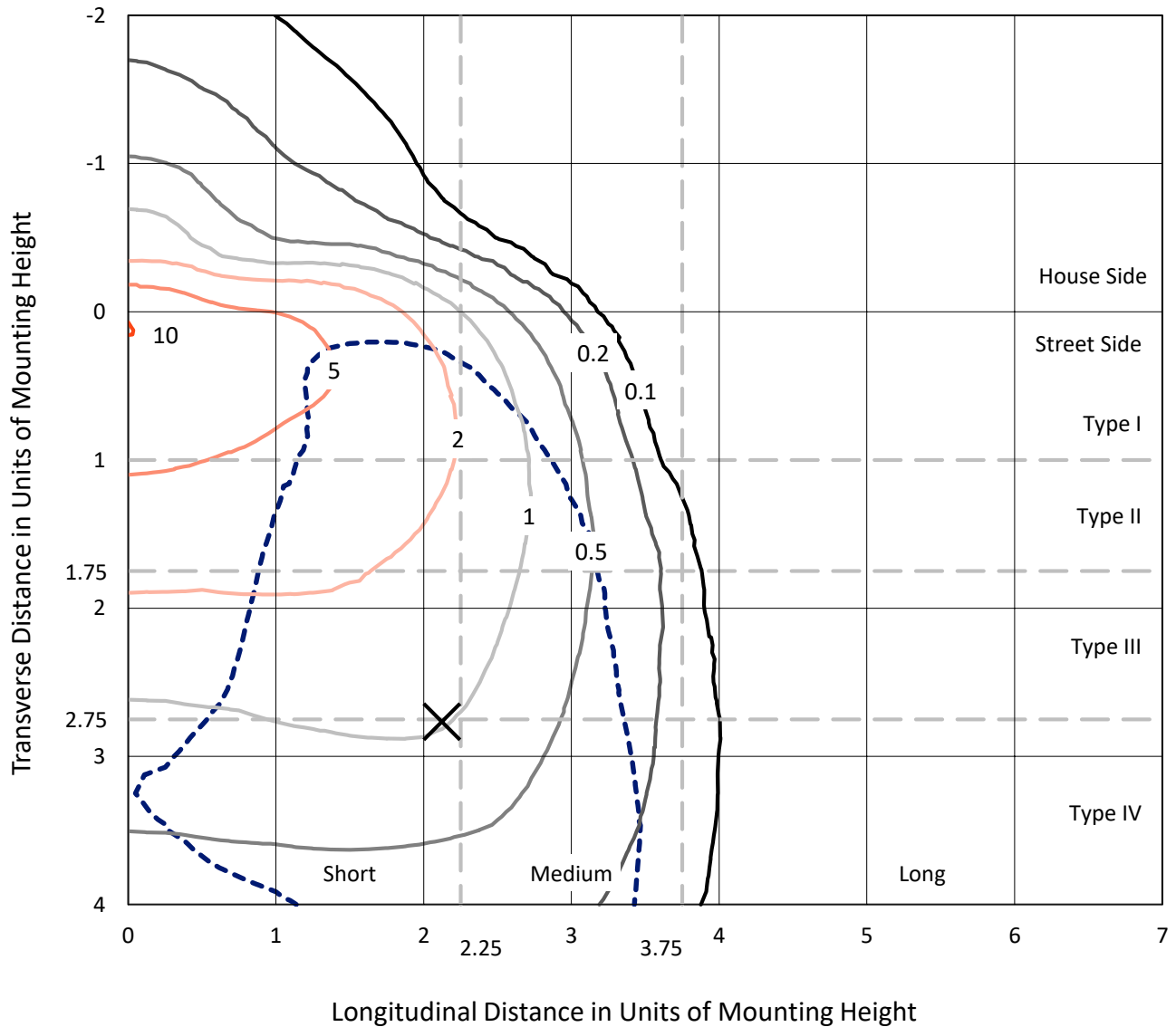
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

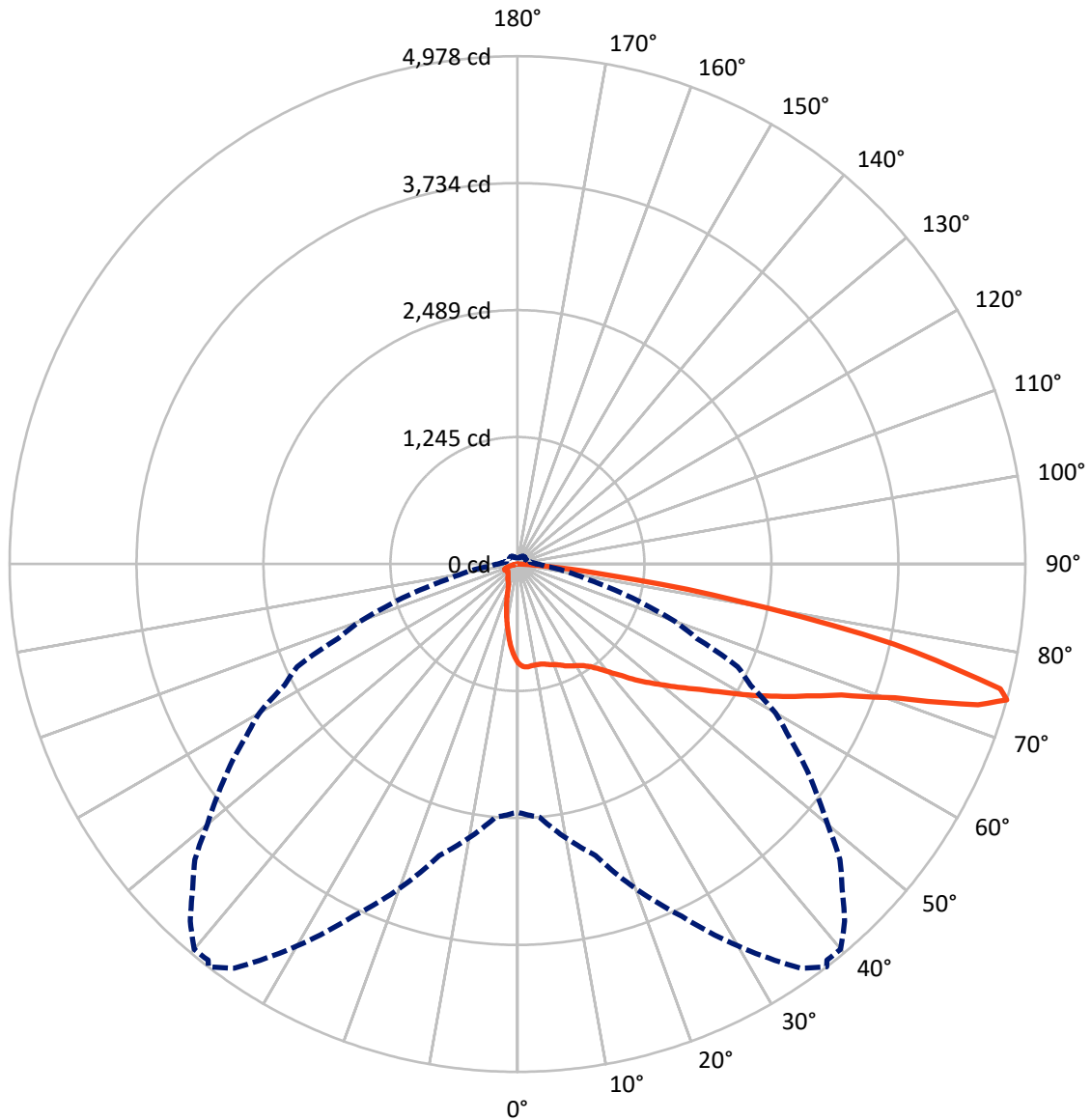
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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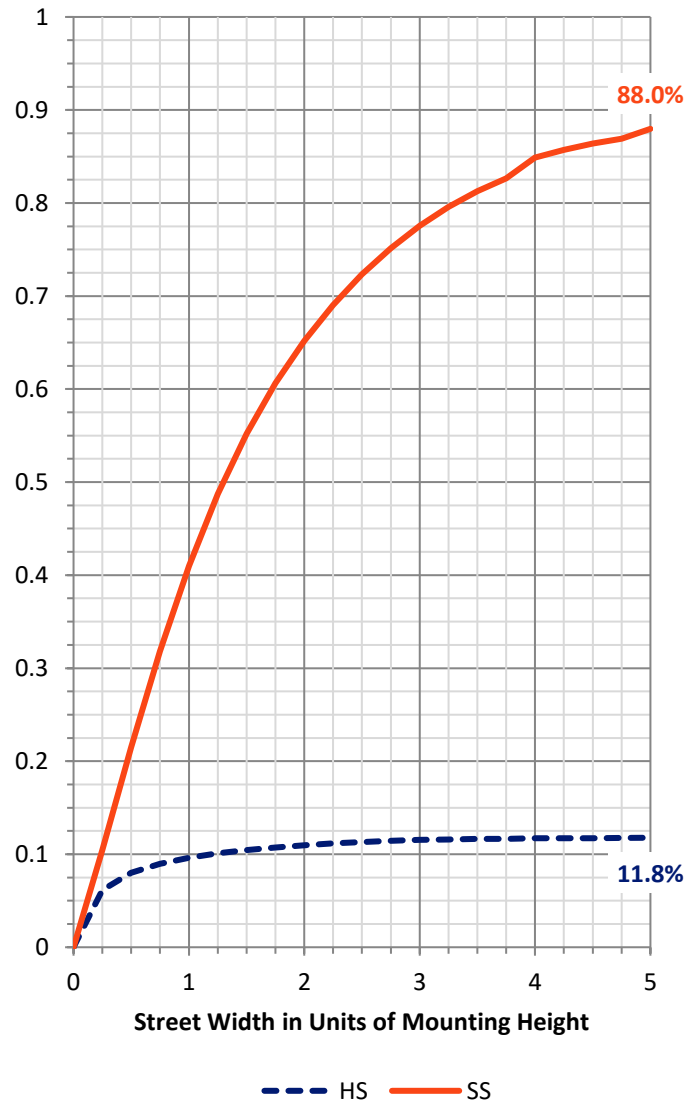
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.6	0.0	705.6
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	5245.8	0.0	5245.8
	% Fixture	88.1	0.0	88.1
Total	Lumens	5951.5	0.0	5951.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.4
10°-20°	215.4	3.6
20°-30°	333.8	5.6
30°-40°	495.1	8.3
40°-50°	761.6	12.8
50°-60°	1125.8	18.9
60°-70°	1500.6	25.2
70°-80°	1295.3	21.8
80°-90°	139.3	2.3
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°	5951.5	100.0
0°-180°	5951.5	100.0

Coefficient of Utilization



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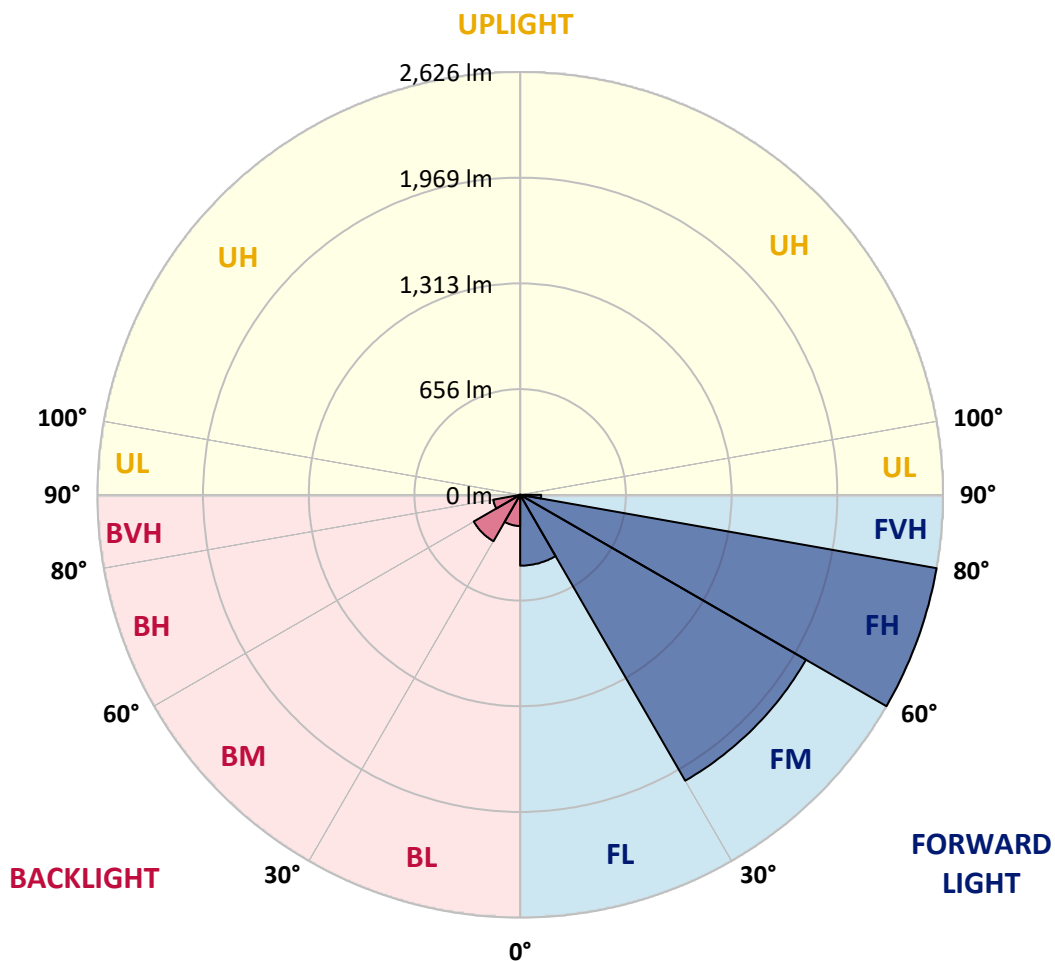
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.0	7.4			
FM (30°-60°)	2049.9	34.4			
FH (60°-80°)	2625.8	44.1			G2/5000
FVH (80°-90°)	130.2	2.2			G2/225
BL (0°-30°)	193.7	3.3	B1/500		
BM (30°-60°)	332.6	5.6	B1/1000		
BH (60°-80°)	170.1	2.9	B1/500		G1/500
BVH (80°-90°)	9.2	0.2			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	1026.7	1024.5	1020.1	1017.8	1013.4	1006.8	1013.4	1004.5	1000.0	1004.5	995.6
5°	1044.5	1042.3	1037.9	1029.0	1024.5	1013.4	1020.1	1008.9	1006.8	1011.2	1000.0
7.5°	1046.8	1042.3	1035.6	1024.5	1020.1	1006.8	1011.2	997.9	993.4	997.9	991.2
10°	1040.1	1037.9	1031.2	1013.4	1008.9	1004.5	1002.3	993.4	991.2	989.0	986.7
12.5°	1029.0	1029.0	1024.5	1017.8	1015.7	1006.8	1008.9	1000.0	1002.3	997.9	993.4
15°	1024.5	1022.3	1026.7	1031.2	1031.2	1017.8	1026.7	1020.1	1015.7	1017.8	1011.2
17.5°	1020.1	1022.3	1037.9	1046.8	1051.2	1037.9	1051.2	1037.9	1029.0	1040.1	1029.0
20°	1017.8	1024.5	1051.2	1071.2	1073.4	1051.2	1073.4	1051.2	1051.2	1064.6	1044.5
22.5°	1029.0	1040.1	1077.9	1100.1	1104.6	1075.6	1102.3	1073.4	1073.4	1084.5	1064.6
25°	1064.6	1075.6	1117.9	1142.3	1137.8	1106.7	1131.2	1102.3	1100.1	1113.4	1086.8
27.5°	1111.2	1126.8	1166.8	1189.0	1173.4	1131.2	1166.8	1124.5	1124.5	1144.6	1109.0
30°	1177.9	1189.0	1224.6	1226.7	1206.8	1155.6	1195.6	1149.0	1142.3	1177.9	1133.4
32.5°	1251.2	1260.1	1286.8	1271.2	1242.4	1189.0	1235.6	1180.1	1177.9	1215.7	1164.5
35°	1329.0	1337.9	1346.8	1320.1	1293.4	1235.6	1286.8	1231.2	1229.0	1271.2	1222.3
37.5°	1409.0	1409.0	1409.0	1377.9	1360.1	1304.6	1351.2	1306.8	1302.3	1346.8	1300.1
40°	1473.5	1477.9	1471.2	1442.4	1433.5	1393.5	1433.5	1393.5	1400.1	1440.1	1402.4
42.5°	1526.8	1531.3	1533.5	1509.1	1518.0	1495.7	1526.8	1497.9	1500.2	1544.6	1522.4
45°	1580.2	1577.9	1595.7	1589.1	1615.6	1617.9	1635.7	1624.5	1629.0	1662.4	1655.7
47.5°	1635.7	1624.5	1644.6	1673.4	1722.3	1737.9	1749.0	1753.4	1771.2	1786.8	1802.3
50°	1689.0	1677.9	1691.2	1755.7	1833.5	1866.8	1869.0	1891.2	1911.3	1933.5	1964.6
52.5°	1744.6	1735.7	1749.0	1840.2	1964.6	2011.3	2004.6	2042.4	2071.3	2095.7	2146.9
55°	1802.3	1793.5	1806.8	1942.4	2104.6	2169.1	2162.4	2215.7	2271.3	2280.2	2338.0
57.5°	1858.0	1846.8	1884.6	2062.4	2271.3	2369.1	2338.0	2420.2	2473.6	2469.1	2549.1
60°	1917.9	1909.0	1969.1	2209.1	2480.2	2606.9	2560.2	2669.1	2706.9	2691.4	2766.9
62.5°	1975.7	1973.5	2073.5	2380.2	2733.5	2855.8	2813.6	2909.2	2935.8	2915.8	2953.6
65°	2029.0	2042.4	2186.9	2551.3	2978.0	3118.1	3060.3	3155.8	3186.9	3171.4	3235.8
67.5°	2117.9	2133.6	2326.9	2769.1	3280.3	3424.7	3375.8	3475.9	3522.5	3518.1	3589.2
70°	2249.1	2278.0	2533.5	3078.1	3740.3	3924.8	3898.2	4020.3	4133.6	4124.8	4195.9
72.5°	2478.0	2524.6	2873.6	3558.1	4496.0	4720.4	4689.3	4758.2	4738.2	4576.0	4444.8
74°	2433.5	2491.3	2958.1	3809.3	4836.0	4978.2	4927.0	4929.3	4747.1	4500.4	4289.2
75°	2271.3	2331.3	2835.8	3778.1	4811.6	4889.3	4816.0	4724.8	4504.9	4253.7	3993.7
77.5°	1558.0	1635.7	2084.7	3051.4	3873.7	3767.0	3749.2	3575.8	3284.7	3002.5	2669.1
80°	797.8	853.4	1077.9	1595.7	2298.0	2191.3	2226.9	2086.8	1844.6	1640.1	1300.1
82.5°	191.1	204.5	317.8	617.9	995.6	911.1	924.5	817.8	677.8	553.4	428.9
85°	100.0	113.3	155.6	171.1	262.3	271.2	264.4	255.5	208.9	175.5	153.3
87.5°	0.0	0.0	0.0	4.4	2.3	0.0	2.3	0.0	0.0	2.3	4.4
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	1002.3	997.9	1002.3	989.0	995.6	984.5	989.0	977.8	982.3	973.4	975.7
5°	1006.8	995.6	1002.3	991.2	993.4	984.5	982.3	977.8	975.7	968.9	964.5
7.5°	995.6	986.7	984.5	980.1	973.4	975.7	966.8	964.5	957.9	957.9	944.5
10°	984.5	986.7	973.4	977.8	966.8	968.9	953.4	957.9	946.7	955.6	935.6
12.5°	993.4	995.6	984.5	991.2	971.2	975.7	962.3	968.9	953.4	964.5	940.1
15°	1013.4	1011.2	1006.8	1006.8	986.7	995.6	980.1	984.5	968.9	982.3	955.6
17.5°	1031.2	1029.0	1022.3	1020.1	1006.8	1008.9	993.4	1002.3	984.5	995.6	968.9
20°	1051.2	1040.1	1037.9	1035.6	1020.1	1020.1	1008.9	1013.4	995.6	1008.9	977.8
22.5°	1066.7	1057.8	1055.7	1046.8	1035.6	1040.1	1024.5	1026.7	1008.9	1022.3	995.6
25°	1091.2	1080.1	1080.1	1066.7	1060.1	1057.8	1048.9	1055.7	1037.9	1046.8	1022.3
27.5°	1124.5	1100.1	1109.0	1095.7	1091.2	1089.0	1084.5	1089.0	1075.6	1082.3	1057.8
30°	1155.6	1124.5	1137.8	1120.1	1129.0	1120.1	1126.8	1120.1	1120.1	1120.1	1109.0
32.5°	1197.9	1160.1	1186.7	1160.1	1177.9	1164.5	1186.7	1173.4	1182.3	1180.1	1175.7
35°	1257.9	1213.4	1251.2	1215.7	1246.8	1229.0	1260.1	1253.4	1271.2	1262.3	1271.2
37.5°	1337.9	1291.3	1335.7	1302.3	1340.1	1313.5	1357.9	1353.5	1391.2	1377.9	1391.2
40°	1437.9	1404.6	1437.9	1413.4	1453.4	1442.4	1489.0	1491.3	1533.5	1526.8	1542.4
42.5°	1549.1	1524.6	1558.0	1544.6	1584.6	1593.5	1646.8	1660.1	1700.1	1711.3	1713.4
45°	1669.0	1664.5	1691.2	1704.5	1744.6	1771.2	1817.9	1851.2	1895.7	1920.2	1915.7
47.5°	1809.1	1826.8	1844.6	1877.9	1913.5	1969.1	2015.7	2058.0	2109.1	2124.7	2131.3
50°	1966.8	1997.9	2013.5	2060.2	2095.7	2164.7	2229.1	2282.4	2338.0	2331.3	2335.8
52.5°	2133.6	2173.6	2195.8	2251.3	2298.0	2378.0	2433.5	2484.6	2553.6	2535.8	2529.1
55°	2318.0	2378.0	2395.8	2457.9	2497.9	2580.2	2629.1	2718.0	2746.9	2729.1	2691.4
57.5°	2513.6	2584.7	2604.6	2689.1	2709.1	2798.0	2840.2	2900.3	2924.7	2895.8	2846.9
60°	2735.8	2800.2	2815.8	2891.4	2918.1	3000.2	3031.4	3084.7	3102.5	3031.4	2962.5
62.5°	2958.1	3024.7	3033.6	3100.3	3127.0	3198.1	3233.6	3264.7	3255.8	3151.4	3064.8
65°	3211.3	3275.8	3298.1	3364.7	3380.3	3433.6	3462.5	3427.0	3406.9	3249.2	3151.4
67.5°	3613.7	3682.5	3691.4	3707.0	3704.7	3678.1	3664.7	3542.5	3453.6	3162.5	3022.5
70°	4142.5	4091.5	3991.5	3875.9	3791.5	3640.3	3551.4	3300.2	3113.6	2786.9	2551.3
72.5°	4238.2	4071.4	3824.8	3627.0	3422.5	3184.8	2993.6	2613.5	2351.4	2009.1	1760.2
74°	3967.0	3695.9	3435.9	3158.1	2922.5	2575.8	2382.5	1902.4	1642.3	1295.7	993.4
75°	3640.3	3322.5	3029.2	2675.8	2455.8	2040.2	1858.0	1340.1	1080.1	769.0	517.8
77.5°	2322.4	1942.4	1662.4	1253.4	1082.3	746.8	546.7	340.0	251.1	220.0	191.1
80°	1042.3	742.3	588.9	406.7	340.0	260.0	220.0	177.8	162.2	142.2	135.5
82.5°	333.4	266.7	253.4	226.7	226.7	182.2	155.6	122.2	111.1	95.5	86.6
85°	144.4	135.5	140.0	128.9	131.1	100.0	80.0	60.0	60.0	42.2	37.7
87.5°	4.4	0.0	2.3	0.0	4.4	0.0	2.3	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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	966.8	971.2	968.9	960.0	957.9	951.2	935.6	937.8	928.9	935.6	924.5
5°	957.9	955.6	946.7	935.6	924.5	911.1	900.1	895.6	886.7	882.3	875.6
7.5°	944.5	935.6	920.0	902.3	886.7	869.0	860.1	844.5	840.0	824.5	822.2
10°	940.1	924.5	906.7	884.5	857.8	831.1	829.0	802.3	800.0	775.6	769.0
12.5°	949.0	928.9	906.7	880.0	848.9	811.2	811.2	771.2	769.0	735.6	724.6
15°	966.8	942.3	913.4	882.3	842.3	795.7	793.4	746.8	742.3	702.3	689.0
17.5°	982.3	949.0	922.3	880.0	833.4	780.1	769.0	722.3	713.4	666.8	649.0
20°	993.4	955.6	924.5	875.6	817.8	755.7	740.1	691.2	671.2	624.5	600.1
22.5°	1006.8	971.2	928.9	873.4	808.9	735.6	702.3	657.9	628.9	580.0	546.7
25°	1026.7	995.6	944.5	880.0	802.3	715.7	671.2	624.5	584.5	535.6	486.7
27.5°	1057.8	1026.7	966.8	888.9	800.0	695.6	646.7	588.9	540.0	486.7	431.2
30°	1102.3	1069.0	1004.5	913.4	802.3	680.1	620.0	557.8	500.0	437.8	380.0
32.5°	1160.1	1133.4	1053.4	940.1	811.2	666.8	595.6	524.5	453.4	393.3	342.3
35°	1240.1	1222.3	1122.3	991.2	833.4	660.0	571.1	493.4	413.4	353.3	297.8
37.5°	1357.9	1333.4	1222.3	1064.6	869.0	655.6	553.4	455.6	380.0	315.6	268.9
40°	1506.8	1473.5	1340.1	1153.5	924.5	657.9	537.9	426.7	351.2	282.2	244.5
42.5°	1684.6	1635.7	1484.6	1262.3	980.1	662.3	529.0	400.1	328.9	255.5	226.7
45°	1884.6	1829.0	1655.7	1397.9	1060.1	673.4	522.2	377.8	308.9	235.6	215.5
47.5°	2080.2	2024.6	1831.3	1533.5	1142.3	693.4	526.7	364.5	295.5	224.4	202.2
50°	2271.3	2213.6	1986.9	1655.7	1213.4	720.1	544.5	366.7	293.4	220.0	195.6
52.5°	2440.2	2369.1	2120.2	1751.3	1264.6	737.9	560.1	373.4	295.5	217.8	193.3
55°	2609.1	2518.0	2226.9	1826.8	1295.7	740.1	560.1	375.6	297.8	217.8	191.1
57.5°	2735.8	2631.3	2309.1	1871.3	1306.8	729.0	546.7	364.5	284.5	215.5	186.7
60°	2815.8	2704.7	2366.9	1900.1	1291.3	682.3	475.6	322.2	251.1	200.0	173.4
62.5°	2882.5	2769.1	2384.6	1851.2	1160.1	542.3	371.1	262.3	208.9	177.8	160.0
65°	2898.0	2762.5	2260.2	1635.7	906.7	375.6	268.9	206.6	171.1	157.8	144.4
67.5°	2662.4	2500.2	1900.1	1280.1	617.9	257.8	200.0	168.9	146.7	140.0	135.5
70°	2164.7	1986.9	1391.2	837.9	344.4	180.0	153.3	140.0	126.6	126.6	120.0
72.5°	1395.7	1211.2	713.4	357.8	175.5	137.8	124.5	120.0	108.9	111.1	104.4
74°	713.4	555.6	291.1	188.9	144.4	122.2	111.1	108.9	97.8	100.0	93.3
75°	362.2	286.7	204.5	157.8	133.4	115.6	102.2	102.2	88.9	91.1	84.5
77.5°	168.9	162.2	140.0	124.5	113.3	97.8	84.5	82.2	68.8	73.3	64.4
80°	117.7	117.7	108.9	104.4	93.3	80.0	64.4	64.4	51.1	53.3	46.6
82.5°	66.7	62.2	62.2	71.1	73.3	60.0	46.6	44.5	37.7	37.7	31.1
85°	28.8	33.3	40.0	48.9	53.3	46.6	33.3	31.1	20.0	20.0	11.2
87.5°	0.0	2.3	2.3	4.4	8.9	8.9	0.0	4.4	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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2	971.2
2.5°	928.9	917.9	924.5	913.4	917.9	906.7	911.1	904.5	897.8	888.9	886.7
5°	869.0	860.1	857.8	846.7	848.9	840.0	831.1	820.1	806.7	789.0	782.3
7.5°	802.3	800.0	784.5	777.9	769.0	760.1	744.5	726.7	700.1	675.7	660.0
10°	744.5	737.9	715.7	704.5	691.2	680.1	657.9	633.4	595.6	557.8	537.9
12.5°	695.6	686.7	657.9	644.5	624.5	611.2	584.5	553.4	500.0	446.7	422.3
15°	655.6	642.3	609.0	588.9	562.3	548.9	520.1	475.6	411.1	355.6	322.2
17.5°	609.0	591.2	555.6	531.1	504.5	480.1	451.1	404.5	331.1	280.0	246.7
20°	557.8	535.6	497.9	464.5	435.6	413.4	384.5	337.8	264.4	224.4	206.6
22.5°	504.5	468.9	435.6	406.7	373.4	351.2	322.2	280.0	224.4	202.2	195.6
25°	449.0	408.9	375.6	346.7	315.6	295.5	271.2	237.8	204.5	197.8	197.8
27.5°	393.3	353.3	322.2	293.4	266.7	253.4	231.1	208.9	193.3	195.6	197.8
30°	342.3	302.3	273.3	251.1	226.7	217.8	200.0	186.7	184.4	191.1	193.3
32.5°	297.8	262.3	235.6	217.8	197.8	193.3	177.8	171.1	177.8	186.7	184.4
35°	260.0	231.1	204.5	193.3	175.5	173.4	162.2	157.8	166.6	177.8	177.8
37.5°	231.1	204.5	184.4	175.5	162.2	160.0	151.1	146.7	153.3	168.9	173.4
40°	206.6	191.1	171.1	162.2	153.3	148.9	144.4	140.0	142.2	162.2	164.5
42.5°	191.1	180.0	162.2	157.8	146.7	144.4	137.8	133.4	135.5	151.1	157.8
45°	180.0	171.1	155.6	153.3	142.2	140.0	133.4	128.9	131.1	144.4	151.1
47.5°	171.1	162.2	148.9	144.4	137.8	135.5	131.1	126.6	126.6	140.0	146.7
50°	166.6	157.8	144.4	140.0	133.4	131.1	126.6	122.2	124.5	135.5	140.0
52.5°	164.5	153.3	142.2	135.5	131.1	126.6	122.2	117.7	120.0	131.1	135.5
55°	164.5	151.1	142.2	135.5	128.9	122.2	120.0	113.3	117.7	126.6	133.4
57.5°	164.5	151.1	142.2	135.5	131.1	124.5	120.0	115.6	117.7	126.6	133.4
60°	160.0	148.9	144.4	137.8	135.5	128.9	126.6	122.2	122.2	133.4	144.4
62.5°	153.3	146.7	144.4	140.0	140.0	135.5	135.5	131.1	131.1	144.4	155.6
65°	144.4	140.0	142.2	140.0	140.0	140.0	137.8	137.8	137.8	148.9	162.2
67.5°	135.5	133.4	135.5	135.5	137.8	135.5	137.8	135.5	135.5	146.7	160.0
70°	122.2	122.2	124.5	122.2	124.5	124.5	126.6	126.6	126.6	133.4	146.7
72.5°	106.7	104.4	106.7	104.4	108.9	104.4	108.9	111.1	108.9	111.1	117.7
74°	95.5	93.3	95.5	93.3	97.8	93.3	95.5	95.5	93.3	75.6	64.4
75°	86.6	84.5	86.6	84.5	88.9	84.5	88.9	86.6	82.2	55.5	53.3
77.5°	68.8	62.2	68.8	62.2	66.7	60.0	64.4	55.5	42.2	40.0	40.0
80°	51.1	44.5	48.9	42.2	40.0	31.1	33.3	31.1	28.8	31.1	31.1
82.5°	31.1	22.2	26.7	20.0	24.4	17.8	22.2	20.0	17.8	17.8	17.8
85°	15.5	11.2	15.5	8.9	13.3	8.9	11.2	11.2	6.6	6.6	6.6
87.5°	2.3	0.0	4.4	0.0	4.4	0.0	2.3	2.3	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°	971.2	971.2
2.5°	880.0	882.3
5°	771.2	777.9
7.5°	651.2	655.6
10°	524.5	529.0
12.5°	404.5	408.9
15°	304.4	300.0
17.5°	233.3	228.9
20°	197.8	197.8
22.5°	193.3	191.1
25°	195.6	193.3
27.5°	195.6	193.3
30°	191.1	188.9
32.5°	184.4	182.2
35°	177.8	177.8
37.5°	173.4	175.5
40°	166.6	168.9
42.5°	160.0	162.2
45°	153.3	155.6
47.5°	146.7	146.7
50°	137.8	137.8
52.5°	135.5	135.5
55°	135.5	135.5
57.5°	140.0	140.0
60°	153.3	155.6
62.5°	180.0	182.2
65°	206.6	211.1
67.5°	208.9	215.5
70°	202.2	208.9
72.5°	140.0	140.0
74°	62.2	60.0
75°	53.3	51.1
77.5°	40.0	40.0
80°	28.8	26.7
82.5°	15.5	15.5
85°	4.4	4.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)