

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: P228110

Luminaire Tested: **ISS-AF-1000-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-SL2
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5595.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

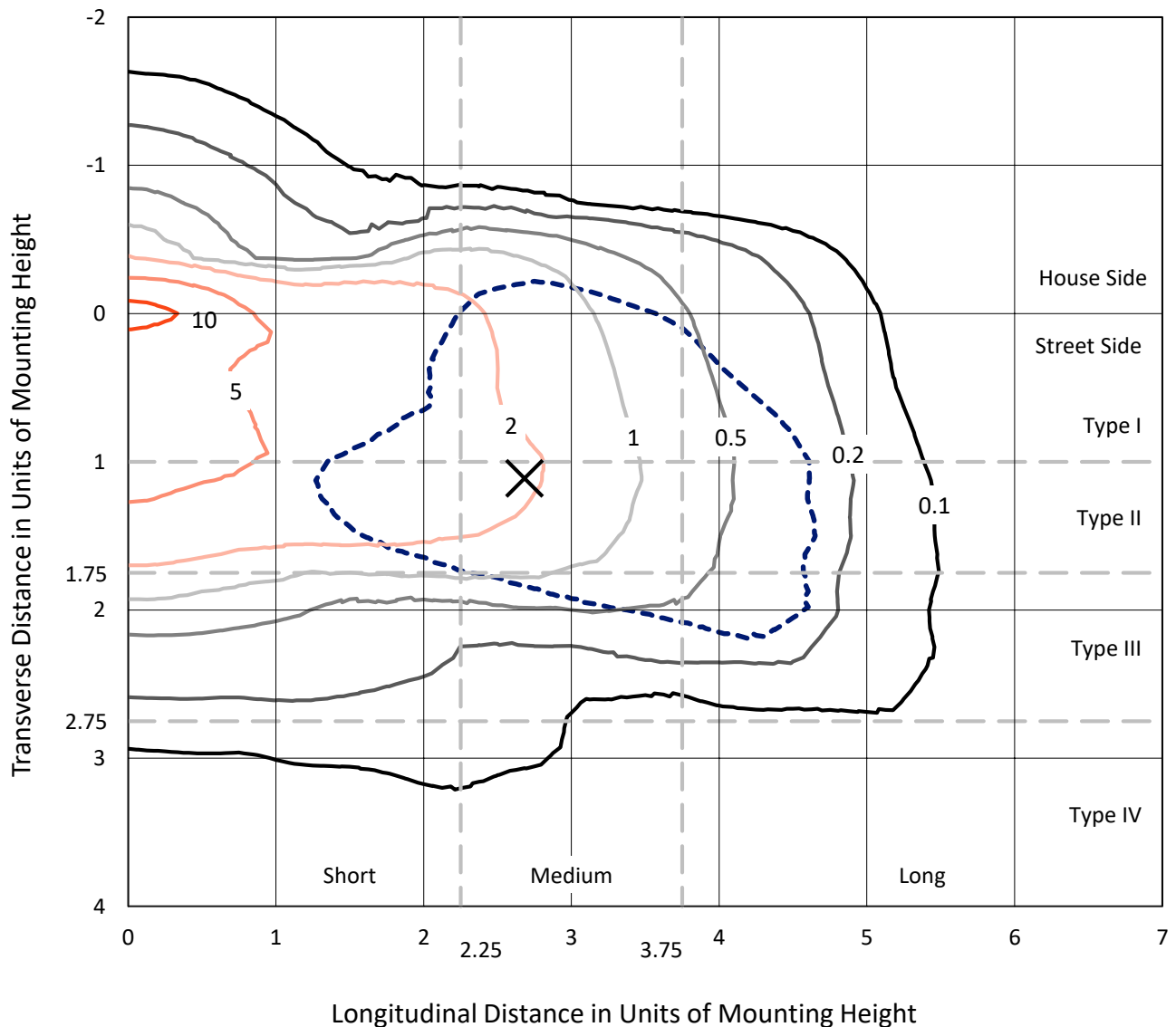
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

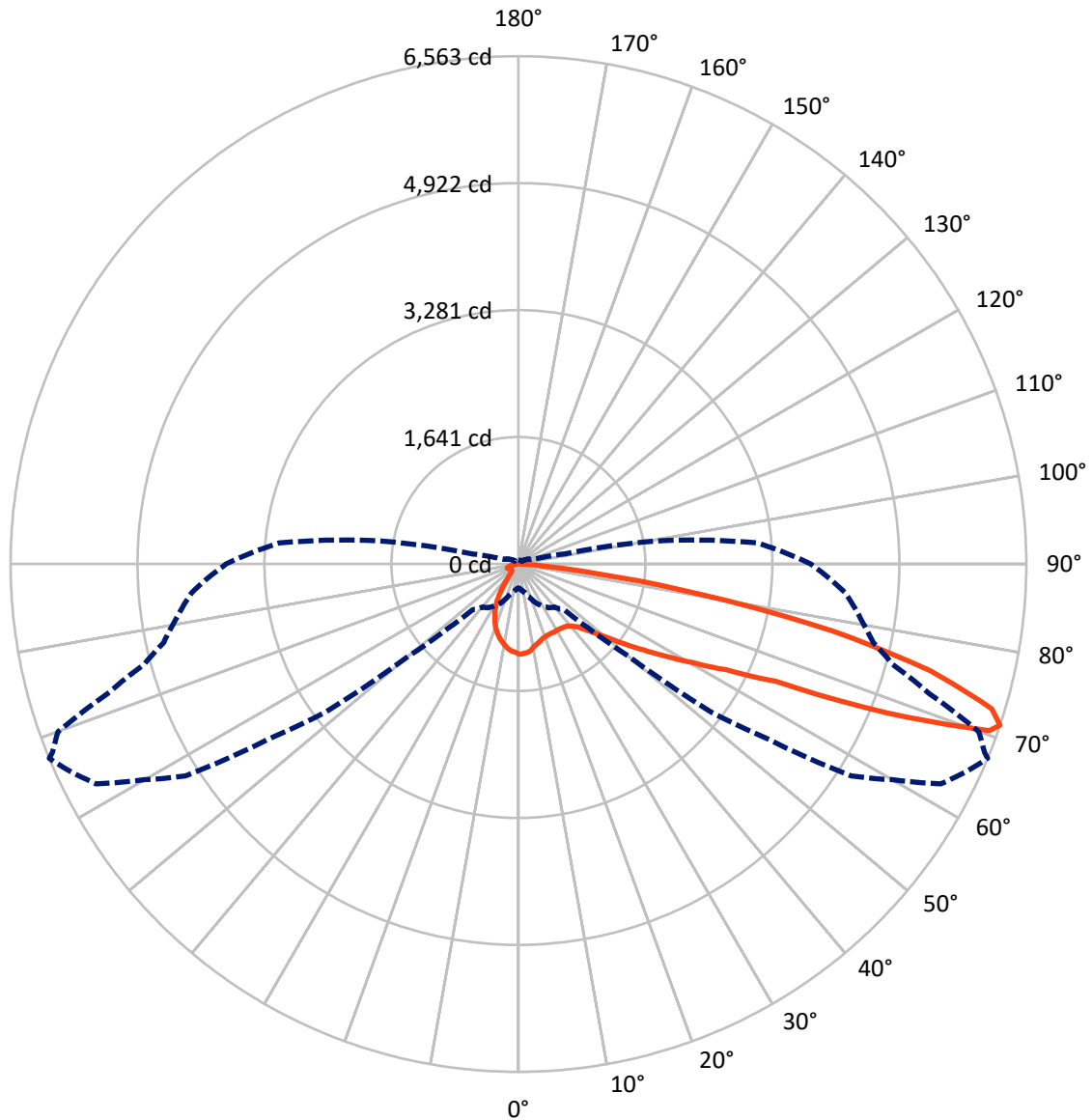


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.9	0.0	942.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4652.6	0.0	4652.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	5595.5	0.0	5595.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.8
10°-20°	243.4	4.4
20°-30°	331.0	5.9
30°-40°	452.4	8.1
40°-50°	681.7	12.2
50°-60°	1080.4	19.3
60°-70°	1430.3	25.6
70°-80°	1139.4	20.4
80°-90°	135.1	2.4
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°	5595.5	100.0
0°-180°	5595.5	100.0

Coefficient of Utilization



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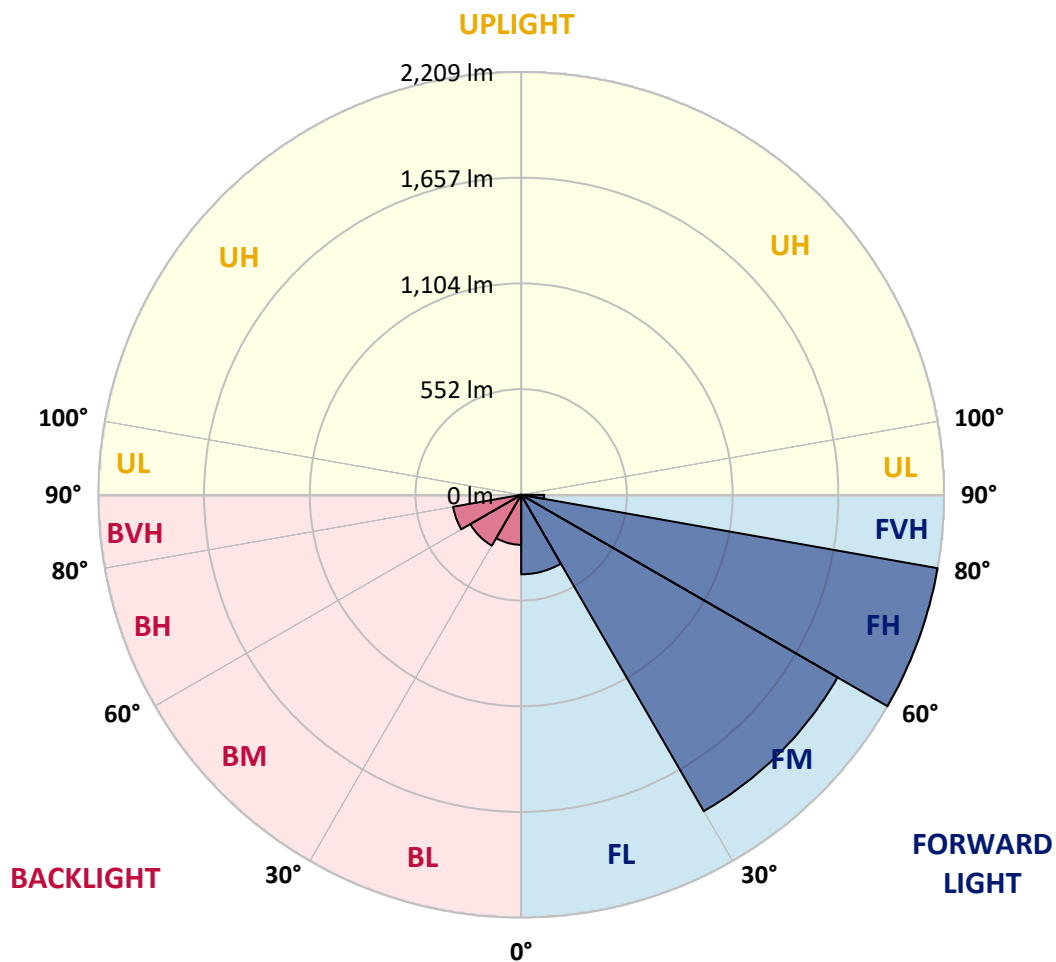
CATALOG NUMBER: ISS-AF-1000-LED-E1-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.2	7.4			
FM (30°-60°)	1908.2	34.1			
FH (60°-80°)	2208.8	39.5			G2/5000
FVH (80°-90°)	120.5	2.2			G2/225
BL (0°-30°)	261.0	4.7	B1/500		
BM (30°-60°)	306.4	5.5	B1/1000		
BH (60°-80°)	360.9	6.4	B1/500		G1/500
BVH (80°-90°)	14.6	0.3			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°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1144.6	1140.7	1140.7	1146.5	1156.2	1148.5	1154.3	1154.3	1156.2	1162.2	1164.1
5°	1060.6	1052.7	1060.6	1068.4	1089.9	1086.0	1091.8	1097.7	1109.4	1111.3	1127.0
7.5°	984.4	980.5	986.3	1002.0	1029.3	1021.5	1029.3	1037.2	1050.8	1056.7	1072.3
10°	925.8	919.9	927.7	939.5	966.8	964.8	968.7	978.6	994.2	998.1	1017.6
12.5°	882.8	882.8	886.7	902.3	925.8	923.8	935.6	941.4	955.1	959.0	980.5
15°	861.3	855.5	863.3	877.0	900.4	900.4	908.2	914.1	933.6	935.6	955.1
17.5°	841.8	843.7	845.8	861.3	882.8	878.9	888.7	892.6	914.1	910.2	933.6
20°	841.8	845.8	843.7	853.6	869.2	861.3	873.1	875.0	898.5	892.6	918.0
22.5°	865.2	869.2	863.3	861.3	867.3	861.3	867.3	871.1	888.7	884.8	908.2
25°	906.2	914.1	906.2	892.6	886.7	871.1	875.0	880.9	894.6	884.8	906.2
27.5°	970.7	976.6	962.9	949.2	921.9	904.3	898.5	896.5	912.2	896.5	914.1
30°	1044.9	1052.7	1041.1	1015.7	976.6	947.3	935.6	929.8	939.5	916.1	933.6
32.5°	1125.0	1132.8	1125.0	1105.5	1052.7	1009.8	994.2	980.5	988.3	957.1	964.8
35°	1207.1	1214.9	1222.7	1211.0	1142.6	1093.7	1068.4	1056.7	1054.8	1015.7	1017.6
37.5°	1279.3	1287.2	1312.5	1324.2	1261.7	1195.3	1171.9	1146.5	1148.5	1093.7	1093.7
40°	1367.2	1377.0	1410.2	1437.6	1396.5	1316.4	1289.1	1261.7	1261.7	1189.5	1191.4
42.5°	1486.3	1498.1	1519.6	1556.7	1543.0	1461.0	1431.7	1394.6	1398.5	1312.5	1310.6
45°	1654.3	1662.2	1662.2	1685.6	1687.6	1609.4	1589.9	1552.7	1560.6	1451.3	1457.1
47.5°	1873.1	1863.3	1824.2	1837.9	1853.6	1771.5	1754.0	1730.5	1740.2	1623.1	1634.8
50°	2076.2	2068.4	1988.3	1992.2	2048.9	1964.9	1959.1	1929.7	1943.4	1826.2	1843.8
52.5°	2152.4	2138.7	2058.7	2101.7	2259.8	2212.9	2222.7	2209.1	2216.8	2091.8	2087.9
55°	2066.5	2066.5	2017.7	2095.7	2418.1	2443.4	2523.5	2554.7	2588.0	2463.0	2435.6
57.5°	1828.2	1843.8	1851.6	1990.3	2392.7	2502.0	2654.4	2787.1	2957.1	2949.3	2990.3
60°	1433.7	1461.0	1505.9	1732.5	2283.2	2463.0	2660.2	2859.5	3093.8	3244.2	3466.9
62.5°	1005.9	1029.3	1066.4	1222.7	1964.9	2273.5	2558.7	2865.3	3164.2	3400.5	3693.5
65°	683.6	707.1	785.2	871.1	1185.6	1634.8	2070.4	2578.1	3033.3	3472.7	3867.3
67.5°	492.2	505.8	566.4	711.0	789.1	871.1	1033.2	1630.9	2191.5	3076.2	3652.4
70°	369.2	382.8	437.5	597.7	693.4	714.8	753.9	859.4	1002.0	1728.6	2484.4
71°	308.6	328.2	394.6	562.5	689.5	707.1	724.7	787.2	834.0	1222.7	1843.8
72.5°	216.8	230.5	293.0	519.6	662.2	703.2	744.2	742.3	738.3	834.0	1115.2
75°	138.7	138.7	138.7	293.0	707.1	681.7	697.2	781.2	738.3	701.2	734.4
77.5°	109.4	107.4	101.6	146.5	552.7	691.4	732.4	753.9	794.9	732.4	699.2
80°	82.0	80.1	80.1	91.8	255.8	447.2	619.2	687.5	716.8	779.3	711.0
82.5°	43.0	43.0	46.9	54.7	95.7	156.2	320.3	527.3	589.8	593.7	599.7
85°	13.7	11.8	15.7	25.4	41.0	50.7	89.8	212.9	316.4	382.8	404.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	7.8	13.7	17.6
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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1158.2	1166.1	1160.2	1168.0	1158.2	1169.9	1160.2	1166.1	1168.0	1160.2	1169.9
5°	1117.3	1140.7	1132.8	1150.4	1142.6	1158.2	1150.4	1166.1	1166.1	1160.2	1173.8
7.5°	1066.4	1089.9	1091.8	1109.4	1109.4	1128.9	1128.9	1144.6	1152.4	1152.4	1171.9
10°	1015.7	1037.2	1041.1	1060.6	1064.5	1087.9	1087.9	1109.4	1125.0	1130.9	1154.3
12.5°	976.6	1003.9	1003.9	1025.4	1021.5	1056.7	1060.6	1080.1	1095.7	1109.4	1140.7
15°	953.2	978.6	978.6	1000.0	996.1	1031.2	1037.2	1056.7	1080.1	1087.9	1130.9
17.5°	929.8	955.1	949.2	978.6	976.6	1015.7	1011.7	1041.1	1060.6	1072.3	1121.2
20°	910.2	939.5	935.6	964.8	957.1	1000.0	1000.0	1029.3	1048.8	1058.7	1115.2
22.5°	900.4	931.7	923.8	953.2	947.3	990.2	990.2	1019.6	1041.1	1056.7	1113.3
25°	900.4	927.7	919.9	953.2	943.4	990.2	988.3	1017.6	1039.1	1052.7	1115.2
27.5°	904.3	931.7	925.8	957.1	949.2	990.2	994.2	1019.6	1041.1	1056.7	1119.2
30°	918.0	943.4	929.8	959.0	953.2	992.3	990.2	1017.6	1039.1	1058.7	1119.2
32.5°	947.3	961.0	943.4	968.7	957.1	996.1	996.1	1015.7	1041.1	1064.5	1119.2
35°	988.3	998.1	970.7	988.3	966.8	1005.9	1003.9	1025.4	1044.9	1064.5	1123.1
37.5°	1046.9	1058.7	1015.7	1031.2	996.1	1027.3	1019.6	1044.9	1064.5	1076.2	1142.6
40°	1134.8	1138.7	1082.1	1093.7	1044.9	1072.3	1052.7	1087.9	1097.7	1105.5	1171.9
42.5°	1242.2	1246.2	1173.8	1181.7	1119.2	1142.6	1109.4	1146.5	1160.2	1158.2	1230.5
45°	1375.1	1377.0	1295.0	1300.8	1228.6	1248.1	1207.1	1238.3	1248.1	1242.2	1316.4
47.5°	1519.6	1535.2	1443.4	1451.3	1375.1	1384.8	1334.0	1369.2	1369.2	1363.3	1439.5
50°	1711.0	1734.4	1627.0	1638.7	1550.8	1558.7	1500.1	1537.2	1533.2	1517.6	1603.6
52.5°	1949.2	1970.7	1857.5	1873.1	1779.3	1783.2	1711.0	1754.0	1742.2	1716.8	1816.5
55°	2240.3	2242.2	2136.7	2150.4	2056.6	2050.8	1961.0	2013.7	1996.2	1961.0	2052.8
57.5°	2707.1	2650.5	2476.7	2472.7	2371.2	2363.3	2248.1	2312.6	2283.2	2209.1	2330.2
60°	3459.1	3476.7	3033.3	2964.9	2775.5	2740.3	2588.0	2662.1	2627.0	2505.9	2625.1
62.5°	3882.9	4162.2	4134.9	3888.7	3400.5	3267.6	3009.8	3097.7	3005.9	2828.2	2939.6
65°	4197.4	4576.3	4795.1	5031.4	4812.6	4269.6	3660.2	3783.3	3558.6	3220.8	3328.2
67.5°	4314.6	4771.7	5232.6	5568.5	5797.1	5838.1	5133.0	5166.1	4613.4	3937.6	3951.2
70°	3701.2	4375.2	5277.5	5703.3	6156.4	6379.1	6453.3	6418.1	6060.7	5103.6	4738.4
71°	3136.8	3953.2	5097.8	5572.4	6152.5	6367.4	6562.6	6496.2	6330.2	5566.6	5006.0
72.5°	2125.1	3150.5	4572.4	5174.0	5947.4	6103.6	6396.6	6279.5	6244.3	5912.2	5256.0
75°	1000.0	1570.3	2974.6	3884.9	5033.3	5183.7	5490.4	5345.8	5254.1	5367.3	5000.1
77.5°	736.3	857.4	1632.8	2414.2	3660.2	3873.1	4136.8	3959.1	3841.9	3955.1	3699.3
80°	669.9	673.8	845.8	1273.5	2183.7	2310.6	2410.2	2265.7	2087.9	2080.2	1843.8
82.5°	617.2	584.0	548.8	673.8	1119.2	1064.5	984.4	912.2	709.0	568.4	410.2
85°	392.6	429.7	390.7	369.2	445.3	367.2	291.0	279.3	197.2	132.8	123.1
87.5°	27.3	31.2	37.1	43.0	52.8	43.0	27.3	33.2	19.5	0.0	9.7
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°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1156.2	1166.1	1169.9	1168.0	1164.1	1160.2	1146.5	1156.2	1142.6	1152.4	1140.7
5°	1162.2	1175.8	1177.7	1173.8	1169.9	1162.2	1138.7	1152.4	1136.7	1144.6	1127.0
7.5°	1160.2	1181.7	1183.7	1179.7	1171.9	1158.2	1134.8	1144.6	1119.2	1125.0	1101.6
10°	1150.4	1181.7	1183.7	1173.8	1162.2	1140.7	1113.3	1117.3	1091.8	1091.8	1060.6
12.5°	1140.7	1177.7	1187.5	1173.8	1154.3	1125.0	1093.7	1089.9	1060.6	1058.7	1023.5
15°	1140.7	1181.7	1195.3	1177.7	1148.5	1107.4	1070.3	1062.5	1029.3	1019.6	980.5
17.5°	1138.7	1181.7	1201.3	1177.7	1142.6	1089.9	1043.0	1035.2	992.3	976.6	931.7
20°	1136.7	1185.6	1205.1	1173.8	1125.0	1068.4	1015.7	1000.0	953.2	927.7	875.0
22.5°	1134.8	1193.4	1209.0	1169.9	1113.3	1041.1	986.3	959.0	904.3	871.1	808.6
25°	1144.6	1203.2	1211.0	1166.1	1095.7	1011.7	953.2	916.1	855.5	812.5	738.3
27.5°	1148.5	1212.9	1214.9	1158.2	1074.2	980.5	918.0	867.3	798.8	746.1	662.2
30°	1160.2	1214.9	1209.0	1142.6	1048.8	941.4	877.0	814.5	738.3	669.9	570.3
32.5°	1164.1	1220.7	1205.1	1125.0	1023.5	902.3	830.1	757.8	666.0	585.9	464.8
35°	1171.9	1224.7	1201.3	1115.2	996.1	861.3	781.2	699.2	593.7	492.2	353.5
37.5°	1183.7	1242.2	1211.0	1111.3	982.4	826.2	726.6	638.7	507.8	388.7	234.4
40°	1212.9	1277.4	1228.6	1117.3	972.7	796.9	673.8	576.2	410.2	287.1	162.1
42.5°	1271.5	1337.9	1273.5	1146.5	978.6	771.5	619.2	509.7	310.6	205.1	134.7
45°	1359.4	1416.1	1347.7	1195.3	1002.0	757.8	568.4	441.4	222.7	164.1	123.1
47.5°	1488.3	1543.0	1457.1	1273.5	1043.0	752.0	515.7	369.2	171.9	148.4	119.2
50°	1658.2	1722.8	1615.2	1396.5	1119.2	757.8	459.0	300.7	150.4	144.5	117.2
52.5°	1867.2	1929.7	1822.3	1578.2	1244.2	791.0	398.4	261.8	142.6	142.6	115.3
55°	2103.6	2191.5	2086.0	1830.2	1437.6	863.3	361.3	248.1	142.6	144.5	113.2
57.5°	2382.9	2457.1	2363.3	2072.3	1670.0	982.4	365.2	261.8	142.6	144.5	111.3
60°	2656.3	2748.2	2640.6	2380.9	1935.6	1162.2	445.3	332.0	148.4	150.4	111.3
62.5°	2941.5	3011.8	2923.9	2650.5	2236.4	1384.8	605.5	480.5	171.9	177.8	119.2
65°	3254.0	3369.2	3277.4	3052.8	2662.1	1740.2	910.2	720.8	253.9	207.0	130.8
67.5°	3795.0	3841.9	3797.0	3591.9	3160.2	2033.2	1084.0	732.4	253.9	201.2	146.5
70°	4527.5	4422.0	4220.8	3838.0	3213.0	1824.2	777.3	447.2	216.8	191.4	154.3
71°	4697.4	4535.3	4238.4	3777.5	3103.6	1646.5	603.5	353.5	203.2	187.5	154.3
72.5°	4800.9	4558.7	4109.5	3599.7	2888.7	1296.9	398.4	277.3	185.6	177.8	148.4
75°	4666.1	4218.9	3629.0	3115.3	2365.3	673.8	250.0	210.9	158.3	154.3	128.9
77.5°	3705.1	3312.6	2677.8	2263.7	1521.5	298.8	179.7	160.2	125.0	121.1	99.6
80°	1728.6	1386.7	812.5	697.2	478.5	175.7	123.1	109.4	89.8	85.9	70.3
82.5°	314.5	236.3	183.6	177.8	160.2	103.5	72.2	66.4	56.7	54.7	44.9
85°	107.4	103.5	78.2	78.2	80.1	54.7	41.0	39.1	29.3	29.3	19.5
87.5°	1.9	9.7	9.7	13.7	11.8	9.7	3.9	5.8	1.9	5.8	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°	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1150.4	1134.8	1148.5	1134.8	1142.6	1127.0	1136.7	1130.9	1130.9	1125.0	1121.2
5°	1132.8	1113.3	1123.1	1107.4	1115.2	1091.8	1097.7	1087.9	1068.4	1056.7	1041.1
7.5°	1107.4	1078.2	1086.0	1062.5	1068.4	1037.2	1043.0	1025.4	988.3	964.8	941.4
10°	1062.5	1035.2	1037.2	1007.8	1005.9	974.7	968.7	945.3	890.7	851.6	820.3
12.5°	1017.6	986.3	982.4	947.3	941.4	904.3	896.5	859.4	779.3	703.2	654.3
15°	970.7	931.7	919.9	882.8	861.3	830.1	808.6	753.9	638.7	539.1	474.6
17.5°	918.0	867.3	849.7	806.7	775.4	728.5	697.2	623.1	474.6	367.2	322.2
20°	849.7	794.9	763.7	709.0	668.0	611.3	572.2	476.6	316.4	261.8	255.8
22.5°	773.5	709.0	669.9	601.6	550.8	490.2	427.7	322.2	224.6	212.9	220.8
25°	693.4	613.3	562.5	478.5	410.2	339.8	281.2	214.8	183.6	181.7	193.3
27.5°	597.7	505.8	433.6	334.0	271.5	216.8	191.4	169.9	156.2	158.3	169.9
30°	492.2	373.1	296.9	209.0	181.7	158.3	154.3	146.5	140.7	144.5	152.3
32.5°	367.2	238.2	191.4	150.4	148.4	134.7	138.7	134.7	132.8	134.7	140.7
35°	248.1	158.3	150.4	128.9	132.8	123.1	128.9	126.9	125.0	125.0	128.9
37.5°	171.9	130.8	134.7	119.2	125.0	117.2	123.1	121.1	119.2	117.2	119.2
40°	142.6	119.2	125.0	113.2	119.2	111.3	117.2	115.3	113.2	109.4	109.4
42.5°	130.8	113.2	119.2	107.4	115.3	105.5	113.2	109.4	105.5	101.6	103.5
45°	126.9	109.4	115.3	103.5	111.3	101.6	107.4	105.5	97.7	95.7	97.7
47.5°	123.1	107.4	113.2	101.6	107.4	97.7	103.5	99.6	91.8	89.8	91.8
50°	121.1	103.5	109.4	97.7	103.5	95.7	99.6	95.7	87.9	85.9	85.9
52.5°	119.2	101.6	107.4	93.7	99.6	87.9	93.7	89.8	82.0	80.1	80.1
55°	119.2	99.6	103.5	89.8	95.7	84.0	87.9	84.0	80.1	76.2	76.2
57.5°	117.2	95.7	101.6	85.9	89.8	80.1	84.0	80.1	74.3	72.2	72.2
60°	117.2	93.7	99.6	84.0	87.9	76.2	80.1	76.2	70.3	68.3	68.3
62.5°	123.1	97.7	101.6	85.9	87.9	76.2	78.2	72.2	66.4	66.4	64.4
65°	134.7	109.4	109.4	89.8	89.8	76.2	78.2	70.3	62.5	62.5	62.5
67.5°	146.5	121.1	119.2	95.7	93.7	76.2	76.2	66.4	58.6	58.6	58.6
70°	154.3	126.9	123.1	97.7	93.7	74.3	72.2	62.5	54.7	54.7	54.7
71°	152.3	126.9	121.1	95.7	89.8	70.3	70.3	60.6	52.8	52.8	50.7
72.5°	144.5	119.2	113.2	89.8	85.9	66.4	66.4	56.7	48.8	48.8	46.9
75°	123.1	101.6	95.7	76.2	72.2	58.6	56.7	46.9	43.0	41.0	41.0
77.5°	95.7	80.1	74.3	60.6	58.6	46.9	44.9	39.1	35.2	35.2	33.2
80°	68.3	56.7	52.8	41.0	37.1	31.2	33.2	29.3	27.3	27.3	25.4
82.5°	41.0	29.3	29.3	23.4	25.4	19.5	21.5	21.5	19.5	15.7	15.7
85°	21.5	13.7	17.6	9.7	13.7	5.8	9.7	7.8	7.8	5.8	5.8
87.5°	3.9	0.0	1.9	0.0	1.9	0.0	0.0	0.0	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°	1166.1	1166.1
2.5°	1109.4	1111.3
5°	1033.2	1037.2
7.5°	923.8	929.8
10°	793.0	796.9
12.5°	625.0	625.0
15°	437.5	441.4
17.5°	306.7	308.6
20°	257.8	259.7
22.5°	230.5	232.4
25°	205.1	207.0
27.5°	177.8	179.7
30°	160.2	162.1
32.5°	144.5	146.5
35°	130.8	130.8
37.5°	121.1	121.1
40°	111.3	111.3
42.5°	105.5	105.5
45°	99.6	99.6
47.5°	93.7	93.7
50°	87.9	89.8
52.5°	82.0	82.0
55°	76.2	76.2
57.5°	70.3	72.2
60°	66.4	66.4
62.5°	62.5	62.5
65°	60.6	60.6
67.5°	56.7	56.7
70°	52.8	52.8
71°	50.7	50.7
72.5°	46.9	46.9
75°	41.0	39.1
77.5°	33.2	33.2
80°	25.4	23.4
82.5°	15.7	13.7
85°	5.8	3.9
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)