

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: P271533

Luminaire Tested: **ISS-AF-1000-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)
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-SL3-7027
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4673.8 lumens
Efficiency: N/A
Efficacy: 85.6 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

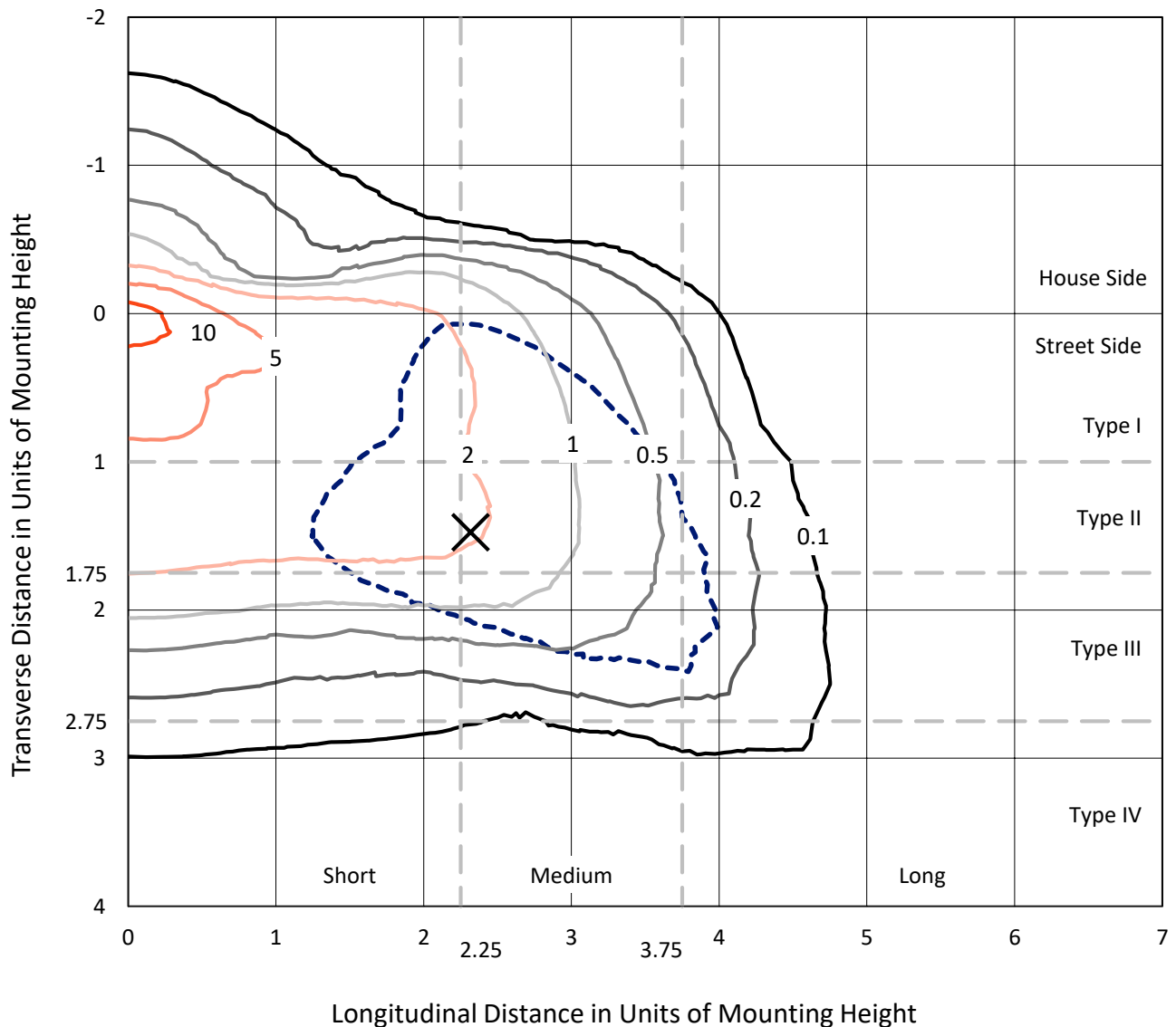
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

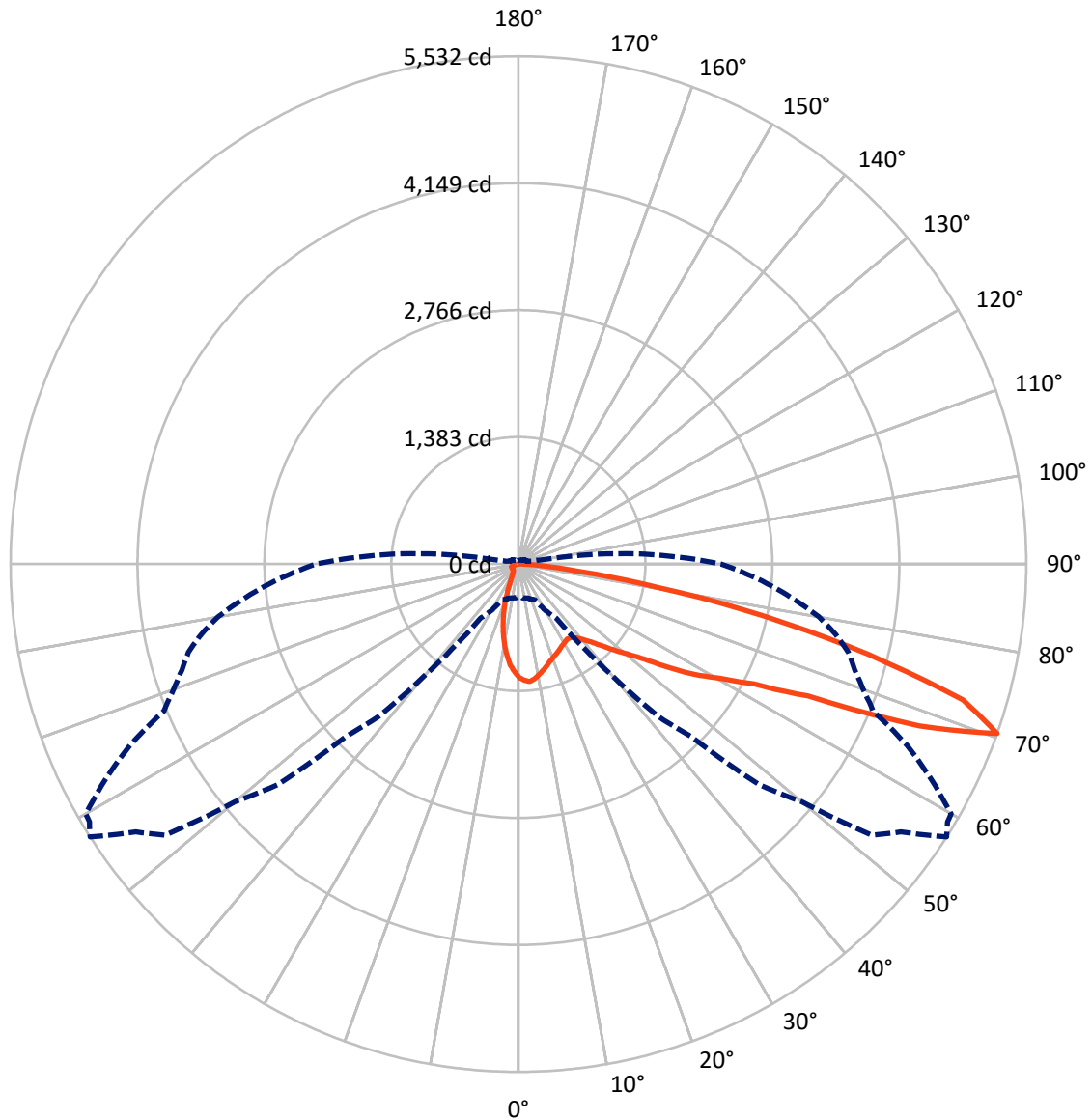
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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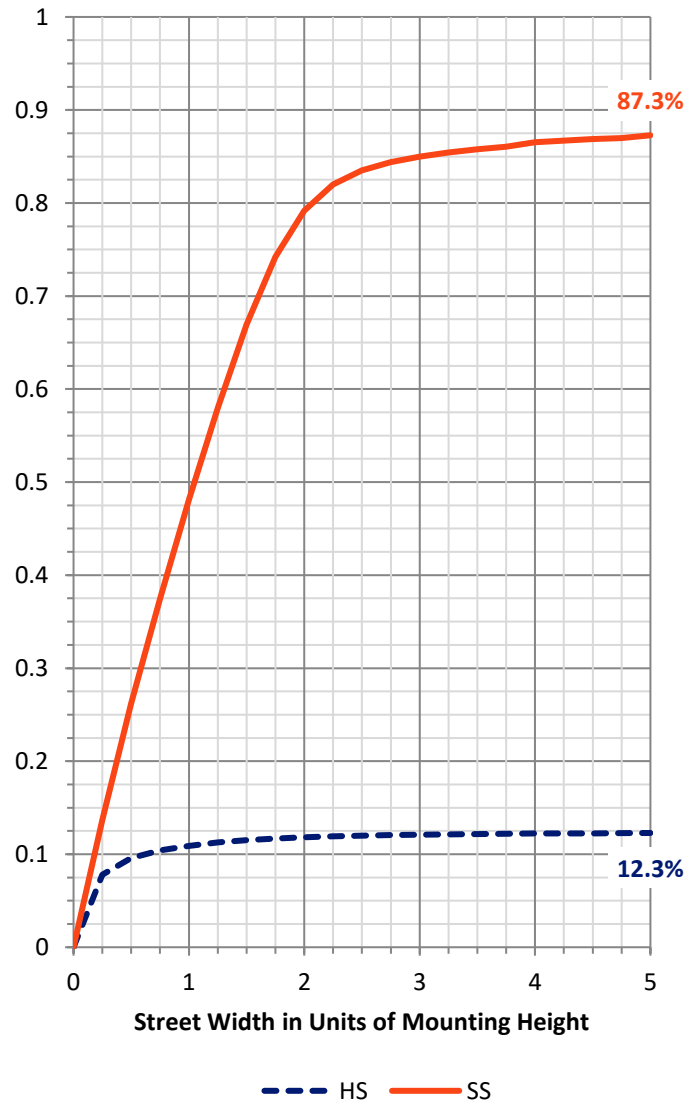
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.4	0.0	578.4
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	4095.4	0.0	4095.4
	% Fixture	87.6	0.0	87.6
Total	Lumens	4673.8	0.0	4673.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	2.3
10°-20°	231.9	5.0
20°-30°	291.4	6.2
30°-40°	380.9	8.1
40°-50°	571.4	12.2
50°-60°	903.4	19.3
60°-70°	1302.1	27.9
70°-80°	805.9	17.2
80°-90°	79.9	1.7
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°	4673.8	100.0
0°-180°	4673.8	100.0



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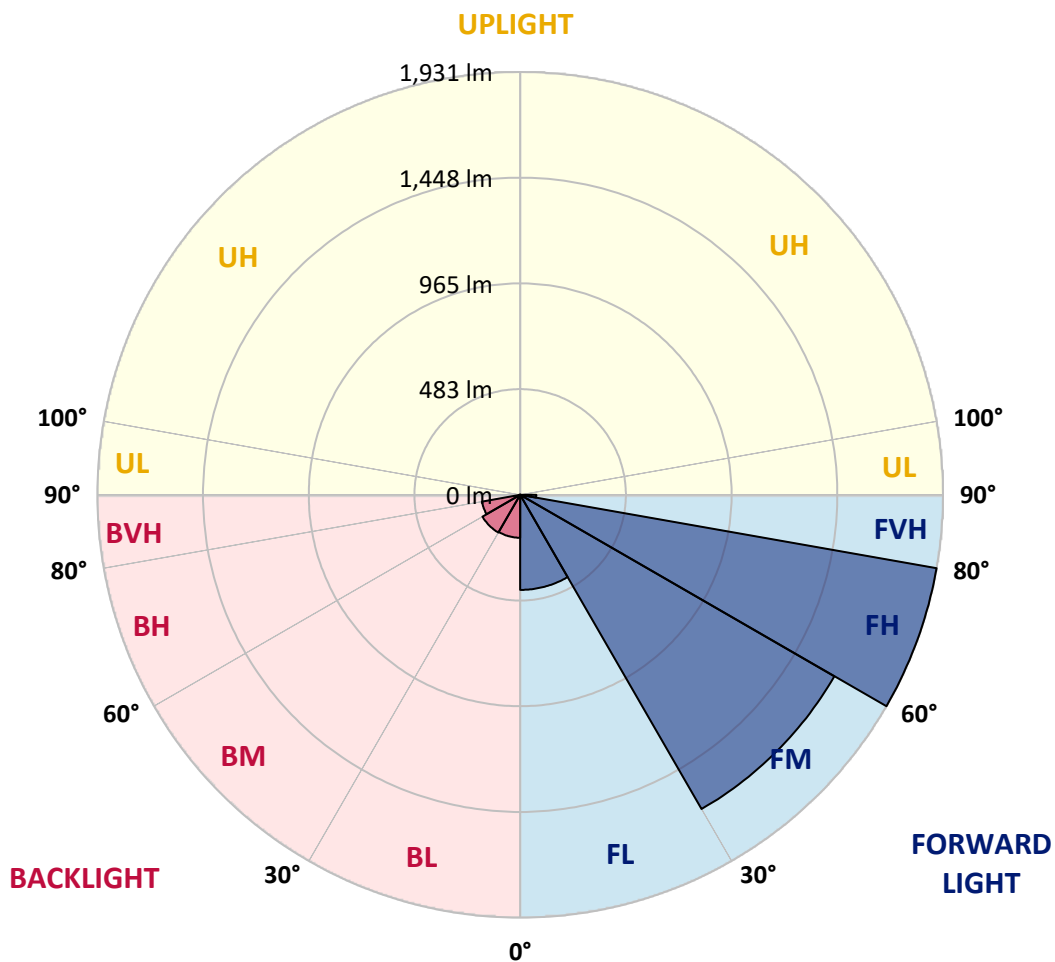
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.1	9.3			
FM	(30°-60°)	1656.8	35.4			
FH	(60°-80°)	1931.0	41.3			G2/5000
FVH	(80°-90°)	73.6	1.6			G1/100
BL	(0°-30°)	196.1	4.2	B1/500		
BM	(30°-60°)	198.9	4.3	B0/220		
BH	(60°-80°)	177.0	3.8	B1/500		G1/500
BVH	(80°-90°)	6.4	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1298.4	1296.7	1293.5	1286.8	1283.5	1286.8	1283.5	1278.6	1271.9	1276.9	1273.5
5°	1295.2	1298.4	1291.9	1286.8	1295.2	1298.4	1291.9	1291.9	1285.1	1291.9	1288.5
7.5°	1230.5	1232.1	1233.7	1232.1	1253.7	1253.7	1250.4	1253.7	1255.3	1258.6	1260.3
10°	1149.2	1150.9	1154.1	1159.2	1185.7	1189.0	1190.6	1193.9	1199.0	1202.2	1212.3
12.5°	1067.9	1071.3	1077.9	1094.5	1122.6	1125.9	1131.0	1136.0	1144.2	1149.2	1167.4
15°	999.9	1001.6	1008.3	1026.4	1067.9	1076.2	1079.5	1086.2	1102.8	1102.8	1122.6
17.5°	936.9	940.3	945.3	966.8	1008.3	1021.6	1031.4	1034.8	1056.4	1061.3	1084.5
20°	888.9	890.5	892.2	912.0	950.1	970.1	978.3	991.7	1008.3	1021.6	1041.5
22.5°	862.4	864.0	860.7	868.9	902.1	927.1	936.9	950.1	956.9	980.1	991.7
25°	864.0	865.7	857.3	852.3	868.9	895.5	903.8	917.0	913.8	946.8	946.8
27.5°	880.6	883.8	875.6	860.7	862.4	883.8	888.9	893.8	883.8	917.0	910.4
30°	913.8	917.0	907.1	895.5	877.3	890.5	890.5	890.5	872.3	900.4	888.9
32.5°	948.5	951.8	948.5	940.3	917.0	920.3	913.8	910.4	885.5	908.7	890.5
35°	999.9	1001.6	1003.2	1003.2	970.1	976.7	958.5	948.5	925.3	943.6	918.7
37.5°	1061.3	1061.3	1072.9	1077.9	1041.5	1041.5	1021.6	1008.3	986.7	993.3	968.5
40°	1116.1	1121.1	1147.6	1162.5	1129.3	1116.1	1099.4	1087.8	1071.3	1071.3	1046.3
42.5°	1179.0	1189.0	1220.4	1248.6	1230.5	1210.6	1193.9	1182.3	1174.1	1172.4	1145.9
45°	1257.0	1268.6	1303.4	1329.9	1334.9	1320.0	1306.8	1295.2	1288.5	1285.1	1262.0
47.5°	1344.9	1356.5	1388.0	1419.5	1442.7	1439.4	1424.4	1412.9	1417.9	1414.5	1399.6
50°	1442.7	1449.3	1469.3	1505.6	1558.8	1570.3	1567.0	1558.8	1568.7	1568.7	1555.4
52.5°	1520.7	1525.6	1540.5	1583.6	1671.6	1698.1	1719.6	1736.2	1752.9	1762.7	1754.5
55°	1592.0	1592.0	1593.6	1648.3	1779.4	1822.4	1870.5	1905.3	1927.0	1966.7	1983.3
57.5°	1708.0	1699.8	1698.1	1756.2	1908.7	1953.5	2023.2	2072.9	2102.8	2184.0	2182.3
60°	1674.9	1678.1	1738.0	1908.7	2174.0	2213.9	2276.8	2329.8	2386.3	2445.9	2450.9
62.5°	1444.4	1452.6	1542.2	1797.6	2343.2	2550.5	2744.4	2892.0	2975.0	3028.1	2955.1
65°	1011.5	1031.4	1152.5	1464.2	2157.4	2477.4	2784.3	3125.8	3387.9	3794.1	3911.8
67.5°	504.1	519.0	538.9	767.8	1611.9	2061.3	2484.2	2950.0	3298.4	3895.3	4228.6
70°	361.5	368.1	383.0	431.2	721.4	1079.5	1577.1	2243.7	2653.2	3553.8	4024.7
72.5°	280.2	286.9	306.8	374.8	477.6	527.3	626.8	1024.9	1524.0	2454.3	3091.1
75°	217.2	227.2	255.4	338.3	459.3	487.5	492.5	529.0	603.6	1089.5	1732.9
77.5°	152.5	154.1	182.4	291.9	446.1	500.9	492.5	492.5	502.4	555.5	741.2
80°	101.1	102.9	121.0	202.3	391.3	456.0	504.1	481.0	482.6	490.8	504.1
82.5°	53.1	56.3	71.3	122.7	228.9	308.5	419.6	437.7	431.2	439.5	436.1
85°	14.9	14.9	24.8	46.4	112.7	119.4	185.7	253.7	258.7	293.6	313.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.6	14.9	16.6
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°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1276.9	1270.2	1268.6	1265.3	1266.9	1262.0	1260.3	1253.7	1253.7	1250.4	1247.0
5°	1285.1	1278.6	1285.1	1273.5	1275.2	1270.2	1262.0	1262.0	1255.3	1250.4	1240.4
7.5°	1262.0	1262.0	1263.6	1257.0	1258.6	1257.0	1247.0	1245.4	1235.3	1235.3	1223.9
10°	1218.8	1218.8	1225.5	1220.4	1222.1	1220.4	1215.6	1213.9	1210.6	1210.6	1192.3
12.5°	1169.1	1179.0	1189.0	1184.1	1184.1	1187.3	1187.3	1189.0	1187.3	1185.7	1170.7
15°	1127.6	1142.6	1152.5	1150.9	1152.5	1160.8	1164.1	1165.8	1170.7	1169.1	1155.8
17.5°	1089.5	1106.0	1114.3	1121.1	1125.9	1132.7	1142.6	1147.6	1154.1	1152.5	1139.2
20°	1054.7	1069.6	1084.5	1092.8	1094.5	1107.7	1119.4	1134.3	1137.5	1140.8	1124.3
22.5°	1018.2	1031.4	1061.3	1056.4	1067.9	1092.8	1099.4	1121.1	1121.1	1132.7	1109.4
25°	986.7	988.3	1034.8	1026.4	1036.5	1081.2	1086.2	1124.3	1114.3	1131.0	1104.5
27.5°	955.2	953.6	1009.9	999.9	1011.5	1072.9	1076.2	1129.3	1119.4	1139.2	1104.5
30°	931.9	927.1	991.7	971.8	988.3	1064.6	1066.3	1134.3	1125.9	1152.5	1116.1
32.5°	927.1	918.7	975.1	960.2	976.7	1056.4	1066.3	1152.5	1142.6	1175.7	1129.3
35°	948.5	935.2	983.4	970.1	983.4	1059.6	1074.6	1180.7	1169.1	1207.2	1160.8
37.5°	988.3	978.3	1018.2	1004.9	1014.8	1082.9	1096.1	1217.1	1215.6	1262.0	1208.8
40°	1057.9	1048.1	1079.5	1061.3	1069.6	1132.7	1139.2	1268.6	1273.5	1329.9	1276.9
42.5°	1152.5	1136.0	1160.8	1139.2	1150.9	1207.2	1200.6	1331.6	1346.5	1424.4	1363.1
45°	1273.5	1252.0	1266.9	1243.7	1252.0	1300.0	1281.8	1416.2	1431.1	1527.3	1472.5
47.5°	1406.3	1379.7	1397.9	1368.1	1373.1	1424.4	1391.4	1517.3	1540.5	1661.7	1608.5
50°	1565.5	1530.6	1537.2	1509.1	1512.4	1563.8	1527.3	1641.7	1669.9	1804.2	1757.7
52.5°	1769.4	1719.6	1719.6	1681.4	1683.2	1734.5	1689.8	1789.2	1820.8	1956.8	1925.2
55°	2038.1	1998.2	1989.9	1950.1	1936.8	1946.9	1883.8	1953.5	1988.3	2116.0	2091.1
57.5°	2251.9	2247.0	2271.8	2215.5	2202.3	2205.5	2125.9	2130.9	2170.7	2270.2	2278.6
60°	2512.3	2520.6	2523.9	2477.4	2472.6	2426.1	2344.8	2331.6	2381.2	2449.3	2475.8
62.5°	2926.9	2918.5	2877.1	2842.2	2810.8	2686.4	2641.6	2568.6	2638.3	2676.5	2731.2
65°	3817.3	3731.1	3465.8	3489.1	3406.1	3135.8	3097.6	2950.0	3059.5	3061.2	3164.0
67.5°	4699.6	4868.7	4706.2	4709.5	4522.2	4032.9	3915.3	3621.7	3683.1	3611.7	3664.8
70°	4850.5	5087.6	5532.0	5452.4	5442.5	5066.0	4669.7	4180.5	3996.5	3843.8	3721.2
72.5°	4174.0	4411.0	5062.8	4882.0	4950.0	5064.5	4651.4	4285.1	3873.7	3679.7	3414.4
75°	2936.8	3278.5	3940.1	3845.6	3895.3	4084.3	3729.4	3686.4	3210.5	3081.1	2673.2
77.5°	1573.7	1996.6	2737.9	2621.7	2643.4	2751.1	2381.2	2305.1	1845.7	1718.0	1255.3
80°	708.0	981.7	1537.2	1407.8	1369.7	1308.4	963.4	759.4	464.3	308.5	214.0
82.5°	469.3	487.5	681.5	590.4	552.2	456.0	295.1	174.1	137.6	116.2	111.1
85°	315.0	288.5	286.9	253.7	235.4	185.7	137.6	86.2	71.3	59.6	54.8
87.5°	18.2	11.6	16.6	18.2	13.3	11.6	8.3	0.0	1.7	0.0	1.7
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°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1238.8	1238.8	1237.1	1225.5	1218.8	1215.6	1203.9	1202.2	1197.4	1195.6	1195.6
5°	1237.1	1230.5	1222.1	1205.5	1189.0	1174.1	1169.1	1157.5	1149.2	1139.2	1139.2
7.5°	1213.9	1207.2	1189.0	1164.1	1142.6	1121.1	1109.4	1092.8	1079.5	1066.3	1063.0
10°	1187.3	1177.4	1152.5	1119.4	1091.1	1053.0	1038.1	1016.5	1001.6	981.7	961.8
12.5°	1159.2	1152.5	1122.6	1084.5	1041.5	993.3	970.1	940.3	920.3	897.1	867.2
15°	1147.6	1134.3	1096.1	1048.1	995.0	936.9	903.8	872.3	842.4	815.9	776.0
17.5°	1132.7	1116.1	1072.9	1016.5	950.1	880.6	837.4	802.6	762.8	734.6	689.9
20°	1116.1	1091.1	1044.7	976.7	902.1	819.2	764.5	729.6	676.5	648.4	595.4
22.5°	1102.8	1071.3	1014.8	938.5	849.1	756.1	691.5	651.7	592.1	558.8	492.5
25°	1099.4	1061.3	993.3	907.1	804.3	694.7	616.9	577.1	502.4	464.3	386.5
27.5°	1101.1	1056.4	980.1	880.6	764.5	640.1	547.2	500.9	406.2	366.5	276.9
30°	1102.8	1057.9	966.8	857.3	728.0	583.7	474.2	419.6	306.8	272.0	192.3
32.5°	1119.4	1064.6	963.4	839.1	694.7	527.3	391.3	341.6	217.2	197.4	142.7
35°	1139.2	1086.2	970.1	835.7	670.0	470.9	306.8	255.4	155.9	150.9	116.2
37.5°	1180.7	1119.4	996.6	844.0	655.0	413.0	228.9	195.7	122.7	126.0	101.1
40°	1243.7	1175.7	1039.8	868.9	653.3	354.9	169.2	152.5	106.1	109.4	92.9
42.5°	1328.2	1253.7	1106.0	922.0	661.6	300.1	135.9	131.1	97.8	101.1	89.5
45°	1439.4	1363.1	1199.0	990.0	684.9	255.4	119.4	119.4	94.5	97.8	87.9
47.5°	1580.4	1495.8	1313.3	1081.2	721.4	230.5	112.7	114.4	92.9	97.8	87.9
50°	1739.6	1646.6	1459.3	1199.0	777.8	223.9	114.4	114.4	94.5	97.8	87.9
52.5°	1905.3	1819.2	1616.8	1333.3	855.6	238.8	117.8	116.2	94.5	97.8	86.2
55°	2074.5	1996.6	1791.0	1490.7	963.4	291.9	126.0	121.0	94.5	97.8	87.9
57.5°	2243.7	2188.9	1973.4	1660.0	1097.8	388.1	159.2	140.9	104.5	106.1	89.5
60°	2434.4	2394.5	2179.0	1882.2	1288.5	537.3	233.8	177.4	124.3	117.8	96.2
62.5°	2681.4	2671.5	2500.7	2202.3	1595.3	752.9	331.7	215.5	134.4	122.7	102.9
65°	3117.6	3144.1	2981.6	2577.0	1799.2	757.8	323.4	189.0	126.0	116.2	101.1
67.5°	3555.3	3477.4	3059.5	2520.6	1623.5	504.1	205.6	147.6	111.1	107.8	94.5
70°	3538.7	3326.5	2774.3	2203.8	1281.8	273.6	149.3	122.7	99.5	99.5	89.5
72.5°	3173.9	2858.9	2268.5	1744.5	855.6	174.1	126.0	107.8	91.2	89.5	82.9
75°	2389.6	2018.1	1457.6	1004.9	381.4	112.7	96.2	87.9	79.6	79.6	72.9
77.5°	1124.3	633.5	351.6	233.8	127.6	76.3	66.4	66.4	64.7	66.4	59.6
80°	152.5	137.6	117.8	102.9	78.0	53.1	48.1	49.8	48.1	49.8	44.7
82.5°	92.9	82.9	68.0	64.7	48.1	36.5	34.9	36.5	33.1	34.9	26.5
85°	44.7	39.7	31.5	29.8	24.8	21.6	18.2	21.6	16.6	18.2	11.6
87.5°	0.0	3.3	1.7	3.3	3.3	3.3	0.0	3.3	0.0	3.3	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°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1187.3	1182.3	1180.7	1174.1	1172.4	1165.8	1164.1	1157.5	1145.9	1140.8	1132.7
5°	1124.3	1116.1	1109.4	1106.0	1092.8	1086.2	1076.2	1063.0	1038.1	1026.4	1006.6
7.5°	1036.5	1034.8	1014.8	1008.3	991.7	980.1	965.0	943.6	907.1	885.5	854.0
10°	940.3	933.6	910.4	897.1	875.6	859.0	839.1	807.6	751.3	706.4	658.4
12.5°	850.8	830.8	804.3	784.4	757.8	734.6	711.4	663.3	573.7	500.9	434.5
15°	757.8	728.0	699.8	666.6	638.4	602.0	575.5	512.4	394.6	305.2	263.7
17.5°	663.3	621.9	590.4	545.6	514.1	464.3	436.1	359.8	258.7	218.8	205.6
20°	563.9	509.1	474.2	419.6	388.1	325.1	303.4	248.7	199.0	184.1	180.8
22.5°	457.7	391.3	353.2	293.6	272.0	233.8	217.2	190.7	167.4	160.9	164.2
25°	346.6	275.3	250.4	207.3	199.0	179.1	172.5	159.2	147.6	147.6	152.5
27.5°	247.0	192.3	185.7	159.2	157.6	147.6	142.7	135.9	132.7	135.9	142.7
30°	180.8	146.0	146.0	131.1	131.1	124.3	122.7	119.4	119.4	126.0	132.7
32.5°	142.7	119.4	122.7	111.1	112.7	107.8	109.4	107.8	109.4	114.4	119.4
35°	119.4	102.9	107.8	97.8	101.1	96.2	99.5	99.5	102.9	104.5	106.1
37.5°	106.1	94.5	97.8	91.2	94.5	89.5	94.5	94.5	96.2	96.2	96.2
40°	97.8	87.9	92.9	86.2	91.2	86.2	91.2	91.2	89.5	87.9	89.5
42.5°	92.9	86.2	91.2	84.6	89.5	84.6	87.9	86.2	82.9	82.9	82.9
45°	91.2	84.6	87.9	82.9	86.2	81.3	84.6	82.9	78.0	76.3	79.6
47.5°	91.2	82.9	87.9	81.3	84.6	79.6	82.9	78.0	72.9	72.9	78.0
50°	91.2	82.9	87.9	81.3	84.6	78.0	79.6	74.6	68.0	69.7	76.3
52.5°	92.9	86.2	89.5	82.9	84.6	74.6	78.0	71.3	66.4	68.0	72.9
55°	94.5	86.2	89.5	79.6	81.3	74.6	74.6	71.3	66.4	66.4	71.3
57.5°	94.5	84.6	86.2	78.0	79.6	71.3	72.9	69.7	64.7	63.0	66.4
60°	97.8	87.9	87.9	76.3	78.0	69.7	71.3	68.0	63.0	59.6	61.4
62.5°	101.1	89.5	91.2	79.6	79.6	71.3	72.9	66.4	59.6	56.3	58.0
65°	101.1	89.5	91.2	81.3	81.3	72.9	72.9	66.4	56.3	53.1	53.1
67.5°	96.2	87.9	89.5	81.3	81.3	72.9	72.9	64.7	54.8	49.8	48.1
70°	92.9	84.6	86.2	76.3	78.0	69.7	69.7	61.4	51.5	46.4	43.1
72.5°	84.6	78.0	78.0	71.3	69.7	61.4	61.4	56.3	48.1	41.4	38.2
75°	72.9	66.4	64.7	58.0	58.0	53.1	51.5	46.4	39.7	34.9	33.1
77.5°	59.6	51.5	51.5	43.1	43.1	38.2	39.7	34.9	29.8	28.2	26.5
80°	43.1	34.9	34.9	28.2	28.2	23.3	24.8	23.3	21.6	21.6	19.9
82.5°	26.5	18.2	19.9	14.9	18.2	13.3	14.9	13.3	13.3	11.6	11.6
85°	13.3	6.6	9.9	5.0	8.3	1.7	5.0	3.3	3.3	3.3	3.3
87.5°	1.7	0.0	1.7	0.0	0.0	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°	1237.1	1237.1
2.5°	1124.3	1129.3
5°	999.9	1001.6
7.5°	849.1	845.8
10°	648.4	640.1
12.5°	417.9	406.2
15°	252.1	248.7
17.5°	202.3	202.3
20°	180.8	180.8
22.5°	167.4	167.4
25°	157.6	159.2
27.5°	149.3	149.3
30°	139.2	139.2
32.5°	122.7	122.7
35°	109.4	107.8
37.5°	97.8	99.5
40°	89.5	91.2
42.5°	86.2	86.2
45°	82.9	82.9
47.5°	82.9	82.9
50°	81.3	82.9
52.5°	79.6	79.6
55°	74.6	76.3
57.5°	69.7	71.3
60°	64.7	64.7
62.5°	58.0	58.0
65°	53.1	53.1
67.5°	46.4	46.4
70°	41.4	41.4
72.5°	36.5	36.5
75°	31.5	31.5
77.5°	26.5	24.8
80°	19.9	19.9
82.5°	11.6	11.6
85°	3.3	3.3
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)