

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: P228244

Luminaire Tested: **ISS-AF-1000-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228244
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-SL3-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4762 lumens
Efficiency: N/A
Efficacy: 87.2 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

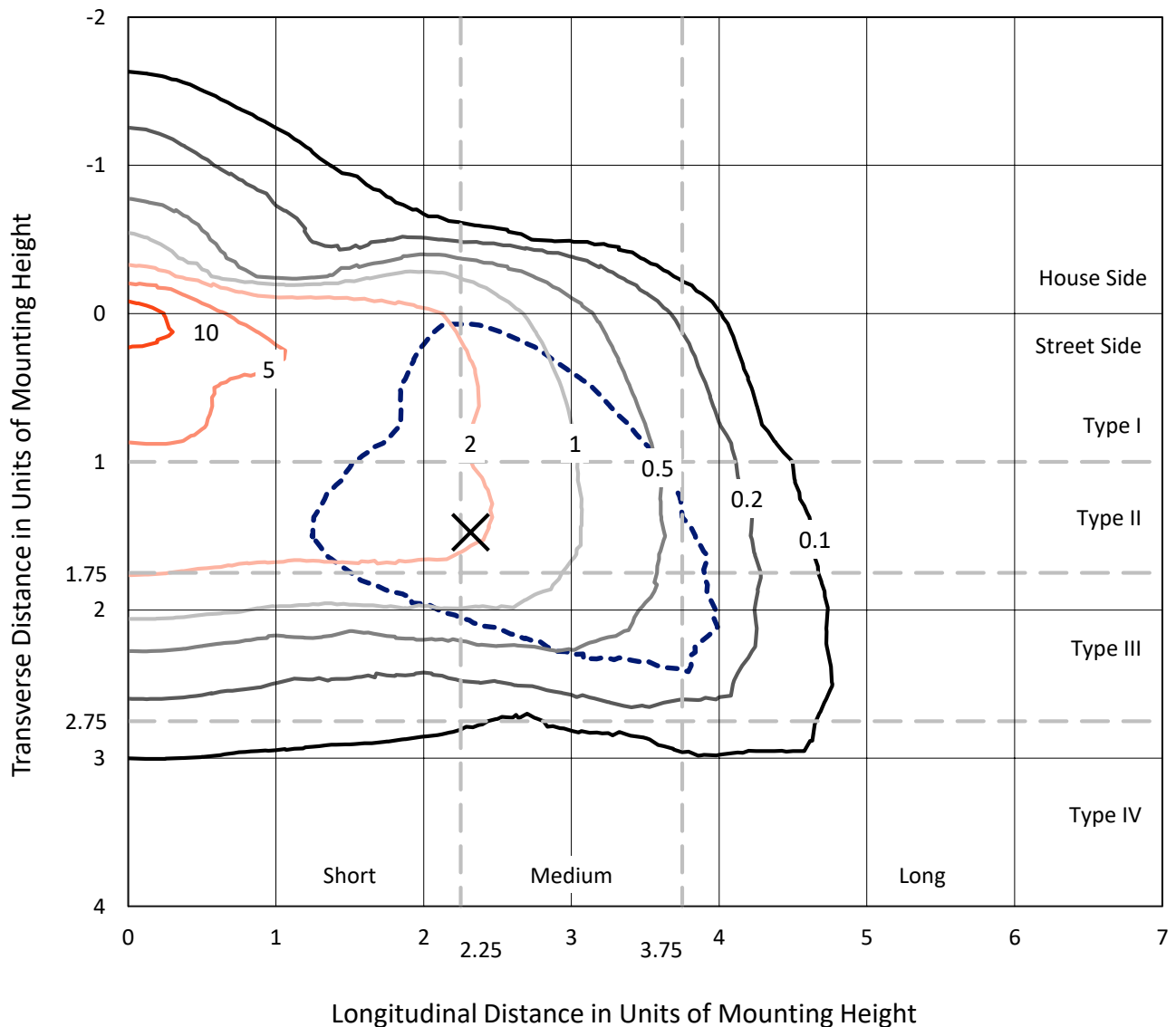
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

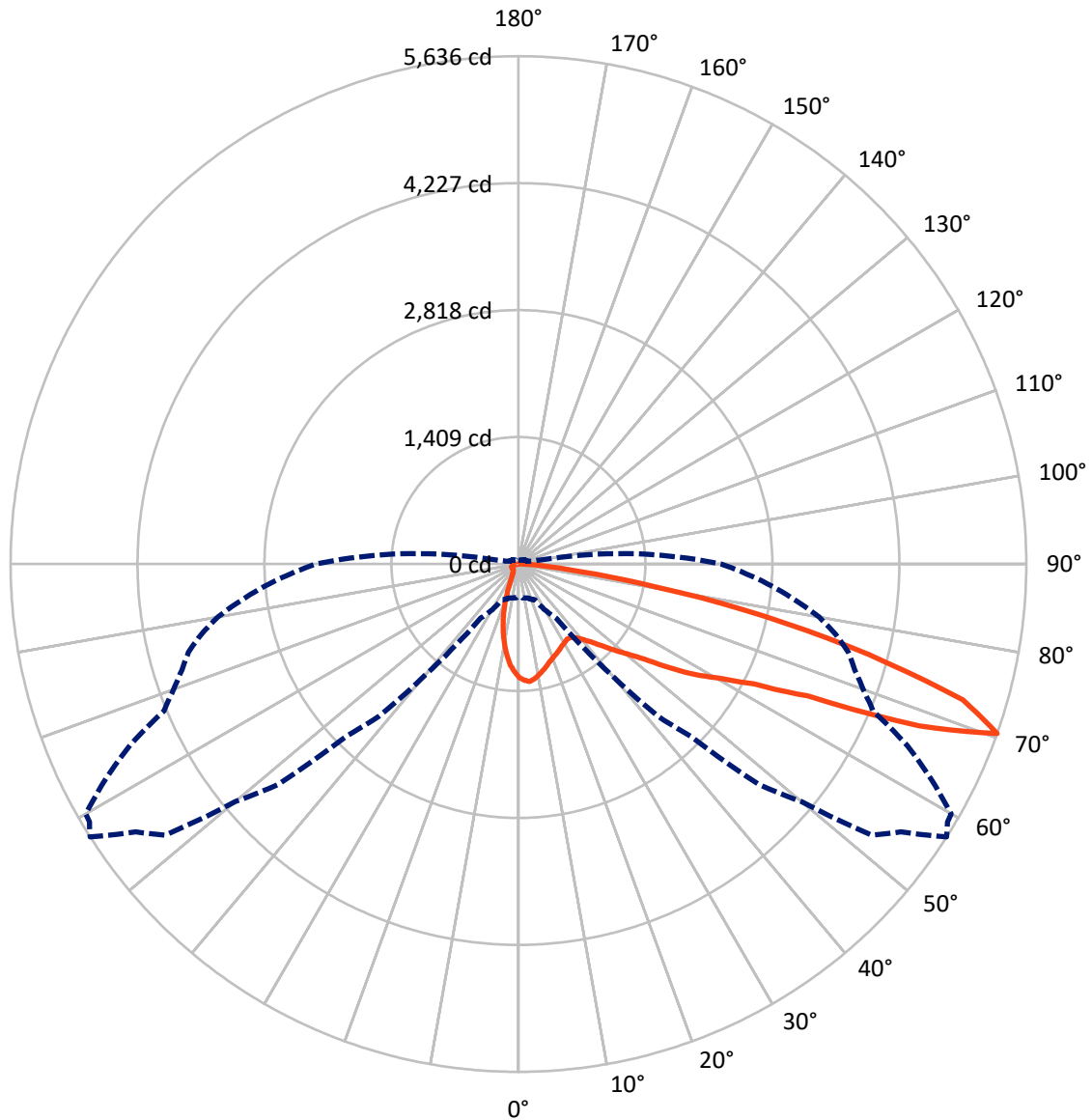
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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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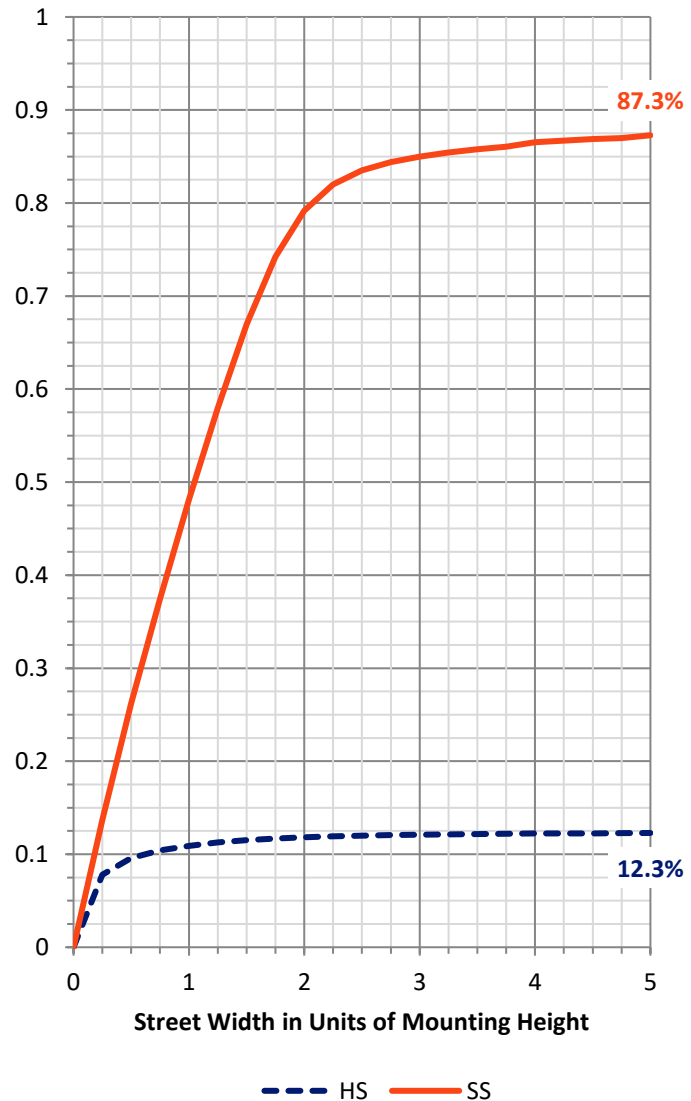
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	589.3	0.0	589.3
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	4172.7	0.0	4172.7
	% Fixture	87.6	0.0	87.6
Total	Lumens	4762.0	0.0	4762.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	2.3
10°-20°	236.3	5.0
20°-30°	296.9	6.2
30°-40°	388.1	8.1
40°-50°	582.2	12.2
50°-60°	920.4	19.3
60°-70°	1326.7	27.9
70°-80°	821.1	17.2
80°-90°	81.4	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°	4762.0	100.0
0°-180°	4762.0	100.0



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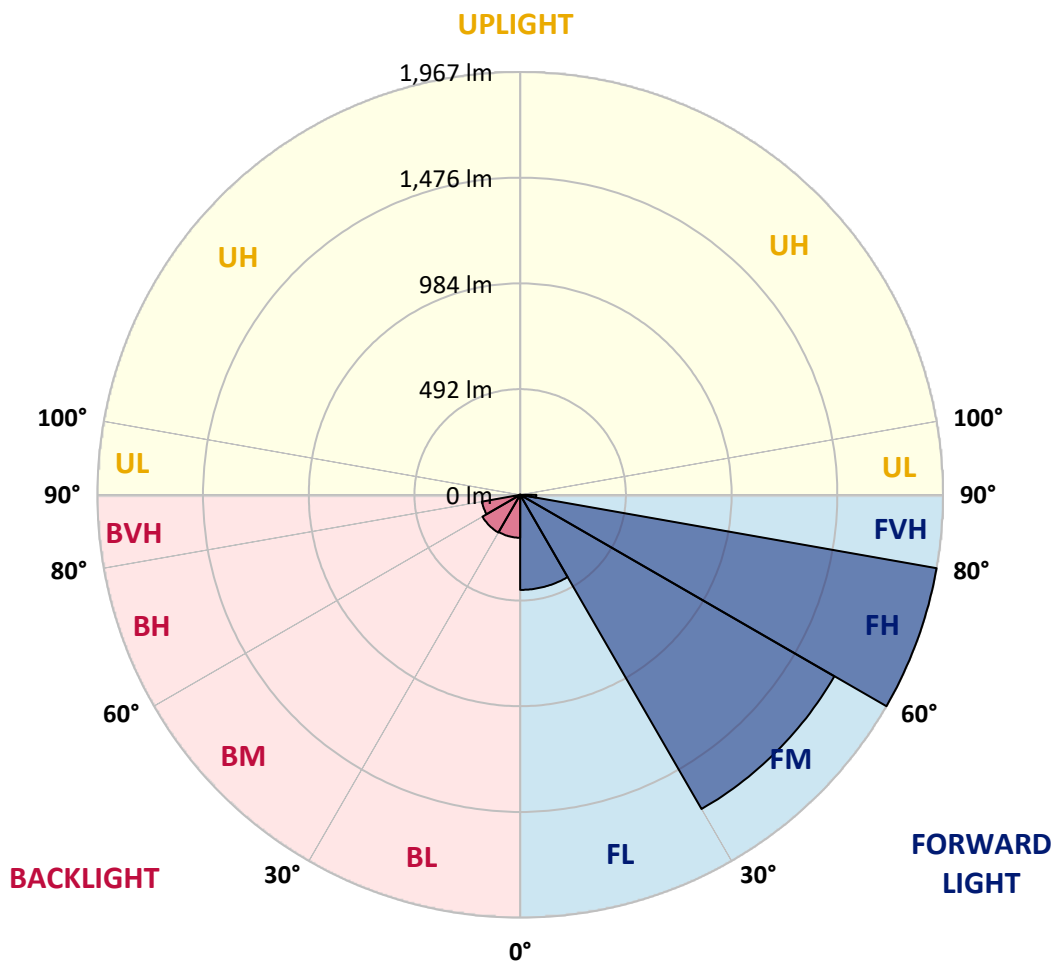
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.3	9.3			
FM	(30°-60°)	1688.1	35.4			
FH	(60°-80°)	1967.4	41.3			G2/5000
FVH	(80°-90°)	74.9	1.6			G1/100
BL	(0°-30°)	199.8	4.2	B1/500		
BM	(30°-60°)	202.6	4.3	B0/220		
BH	(60°-80°)	180.4	3.8	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1322.9	1321.2	1317.9	1311.1	1307.7	1311.1	1307.7	1302.7	1295.9	1301.0	1297.6
5°	1319.6	1322.9	1316.2	1311.1	1319.6	1322.9	1316.2	1316.2	1309.4	1316.2	1312.8
7.5°	1253.7	1255.4	1257.0	1255.4	1277.3	1277.3	1273.9	1277.3	1279.0	1282.4	1284.1
10°	1170.9	1172.6	1175.9	1181.0	1208.0	1211.4	1213.1	1216.5	1221.6	1224.9	1235.1
12.5°	1088.1	1091.5	1098.2	1115.1	1143.8	1147.2	1152.3	1157.4	1165.8	1170.9	1189.5
15°	1018.8	1020.5	1027.3	1045.8	1088.1	1096.5	1099.9	1106.7	1123.6	1123.6	1143.8
17.5°	954.6	958.0	963.1	985.0	1027.3	1040.8	1050.9	1054.3	1076.3	1081.3	1105.0
20°	905.6	907.3	909.0	929.3	968.1	988.4	996.8	1010.4	1027.3	1040.8	1061.1
22.5°	878.6	880.3	876.9	885.3	919.1	944.5	954.6	968.1	974.9	998.5	1010.4
25°	880.3	882.0	873.5	868.4	885.3	912.4	920.8	934.3	931.0	964.7	964.7
27.5°	897.2	900.5	892.1	876.9	878.6	900.5	905.6	910.7	900.5	934.3	927.6
30°	931.0	934.3	924.2	912.4	893.8	907.3	907.3	907.3	888.7	917.4	905.6
32.5°	966.4	969.8	966.4	958.0	934.3	937.7	931.0	927.6	902.2	925.9	907.3
35°	1018.8	1020.5	1022.2	1022.2	988.4	995.2	976.6	966.4	942.8	961.4	936.0
37.5°	1081.3	1081.3	1093.2	1098.2	1061.1	1061.1	1040.8	1027.3	1005.3	1012.1	986.7
40°	1137.1	1142.2	1169.2	1184.4	1150.6	1137.1	1120.2	1108.4	1091.5	1091.5	1066.1
42.5°	1201.3	1211.4	1243.5	1272.2	1253.7	1233.4	1216.5	1204.7	1196.2	1194.5	1167.5
45°	1280.7	1292.5	1328.0	1355.0	1360.1	1344.9	1331.4	1319.6	1312.8	1309.4	1285.8
47.5°	1370.2	1382.1	1414.2	1446.3	1469.9	1466.5	1451.3	1439.5	1444.6	1441.2	1426.0
50°	1469.9	1476.7	1497.0	1534.1	1588.2	1600.0	1596.6	1588.2	1598.3	1598.3	1584.8
52.5°	1549.3	1554.4	1569.6	1613.5	1703.1	1730.1	1752.1	1769.0	1785.9	1796.0	1787.6
55°	1622.0	1622.0	1623.7	1679.4	1812.9	1856.8	1905.8	1941.3	1963.3	2003.8	2020.7
57.5°	1740.3	1731.8	1730.1	1789.3	1944.7	1990.3	2061.3	2112.0	2142.4	2225.2	2223.5
60°	1706.5	1709.8	1770.7	1944.7	2215.0	2255.6	2319.8	2373.8	2431.3	2492.1	2497.2
62.5°	1471.6	1480.1	1571.3	1831.5	2387.4	2598.6	2796.2	2946.6	3031.1	3085.2	3010.8
65°	1030.6	1050.9	1174.3	1491.9	2198.1	2524.2	2836.8	3184.8	3451.8	3865.7	3985.7
67.5°	513.6	528.8	549.1	782.3	1642.3	2100.1	2531.0	3005.7	3360.6	3968.8	4308.4
70°	368.3	375.1	390.3	439.3	735.0	1099.9	1606.8	2286.0	2703.3	3620.8	4100.6
72.5°	285.5	292.3	312.6	381.8	486.6	537.3	638.7	1044.2	1552.7	2500.6	3149.4
75°	221.3	231.5	260.2	344.7	468.0	496.7	501.8	539.0	615.0	1110.0	1765.6
77.5°	155.4	157.1	185.9	297.4	454.5	510.3	501.8	501.8	511.9	566.0	755.2
80°	103.1	104.8	123.3	206.1	398.7	464.6	513.6	490.0	491.7	500.1	513.6
82.5°	54.1	57.4	72.7	125.0	233.2	314.3	427.5	446.0	439.3	447.7	444.4
85°	15.2	15.2	25.3	47.3	114.9	121.6	189.2	258.5	263.6	299.1	319.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	6.8	15.2	16.9
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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1301.0	1294.2	1292.5	1289.1	1290.8	1285.8	1284.1	1277.3	1277.3	1273.9	1270.6
5°	1309.4	1302.7	1309.4	1297.6	1299.3	1294.2	1285.8	1285.8	1279.0	1273.9	1263.8
7.5°	1285.8	1285.8	1287.5	1280.7	1282.4	1280.7	1270.6	1268.9	1258.7	1258.7	1246.9
10°	1241.8	1241.8	1248.6	1243.5	1245.2	1243.5	1238.5	1236.8	1233.4	1233.4	1214.8
12.5°	1191.1	1201.3	1211.4	1206.4	1206.4	1209.7	1209.7	1211.4	1209.7	1208.0	1192.8
15°	1148.9	1164.1	1174.3	1172.6	1174.3	1182.7	1186.1	1187.8	1192.8	1191.1	1177.6
17.5°	1110.0	1126.9	1135.4	1142.2	1147.2	1154.0	1164.1	1169.2	1175.9	1174.3	1160.7
20°	1074.6	1089.8	1105.0	1113.4	1115.1	1128.6	1140.5	1155.7	1159.0	1162.4	1145.5
22.5°	1037.4	1050.9	1081.3	1076.3	1088.1	1113.4	1120.2	1142.2	1142.2	1154.0	1130.3
25°	1005.3	1007.0	1054.3	1045.8	1056.0	1101.6	1106.7	1145.5	1135.4	1152.3	1125.3
27.5°	973.2	971.5	1028.9	1018.8	1030.6	1093.2	1096.5	1150.6	1140.5	1160.7	1125.3
30°	949.5	944.5	1010.4	990.1	1007.0	1084.7	1086.4	1155.7	1147.2	1174.3	1137.1
32.5°	944.5	936.0	993.5	978.3	995.2	1076.3	1086.4	1174.3	1164.1	1197.9	1150.6
35°	966.4	952.9	1001.9	988.4	1001.9	1079.6	1094.8	1203.0	1191.1	1230.0	1182.7
37.5°	1007.0	996.8	1037.4	1023.9	1034.0	1103.3	1116.8	1240.1	1238.5	1285.8	1231.7
40°	1077.9	1067.8	1099.9	1081.3	1089.8	1154.0	1160.7	1292.5	1297.6	1355.0	1301.0
42.5°	1174.3	1157.4	1182.7	1160.7	1172.6	1230.0	1223.2	1356.7	1371.9	1451.3	1388.8
45°	1297.6	1275.6	1290.8	1267.2	1275.6	1324.6	1306.0	1442.9	1458.1	1556.1	1500.3
47.5°	1432.8	1405.7	1424.3	1393.9	1399.0	1451.3	1417.6	1546.0	1569.6	1693.0	1638.9
50°	1595.0	1559.5	1566.2	1537.5	1540.9	1593.3	1556.1	1672.7	1701.4	1838.3	1790.9
52.5°	1802.8	1752.1	1752.1	1713.2	1714.9	1767.3	1721.7	1823.0	1855.1	1993.7	1961.6
55°	2076.5	2035.9	2027.5	1986.9	1973.4	1983.6	1919.4	1990.3	2025.8	2155.9	2130.5
57.5°	2294.4	2289.4	2314.7	2257.3	2243.8	2247.1	2166.0	2171.1	2211.6	2313.0	2321.5
60°	2559.7	2568.1	2571.5	2524.2	2519.2	2471.8	2389.1	2375.5	2426.2	2495.5	2522.5
62.5°	2982.1	2973.6	2931.4	2895.9	2863.8	2737.1	2691.5	2617.1	2688.1	2727.0	2782.7
65°	3889.4	3801.5	3531.2	3554.9	3470.4	3195.0	3156.1	3005.7	3117.3	3118.9	3223.7
67.5°	4788.2	4960.6	4795.0	4798.4	4607.5	4109.0	3989.1	3690.0	3752.5	3679.9	3734.0
70°	4942.0	5183.6	5636.4	5555.3	5545.2	5161.6	4757.8	4259.4	4071.9	3916.4	3791.4
72.5°	4252.7	4494.3	5158.3	4974.1	5043.4	5160.0	4739.2	4365.9	3946.8	3749.2	3478.8
75°	2992.2	3340.3	4014.4	3918.1	3968.8	4161.4	3799.8	3755.9	3271.0	3139.2	2723.6
77.5°	1603.4	2034.2	2789.5	2671.2	2693.2	2803.0	2426.2	2348.5	1880.5	1750.4	1279.0
80°	721.4	1000.2	1566.2	1434.4	1395.6	1333.1	981.6	773.8	473.1	314.3	218.0
82.5°	478.1	496.7	694.4	601.5	562.6	464.6	300.7	177.4	140.2	118.3	113.2
85°	321.0	294.0	292.3	258.5	239.9	189.2	140.2	87.9	72.7	60.8	55.8
87.5°	18.6	11.8	16.9	18.6	13.5	11.8	8.4	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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1262.1	1262.1	1260.4	1248.6	1241.8	1238.5	1226.6	1224.9	1219.9	1218.2	1218.2
5°	1260.4	1253.7	1245.2	1228.3	1211.4	1196.2	1191.1	1179.3	1170.9	1160.7	1160.7
7.5°	1236.8	1230.0	1211.4	1186.1	1164.1	1142.2	1130.3	1113.4	1099.9	1086.4	1083.0
10°	1209.7	1199.6	1174.3	1140.5	1111.7	1072.9	1057.7	1035.7	1020.5	1000.2	980.0
12.5°	1181.0	1174.3	1143.8	1105.0	1061.1	1012.1	988.4	958.0	937.7	914.1	883.6
15°	1169.2	1155.7	1116.8	1067.8	1013.7	954.6	920.8	888.7	858.3	831.3	790.7
17.5°	1154.0	1137.1	1093.2	1035.7	968.1	897.2	853.2	817.8	777.2	748.5	702.9
20°	1137.1	1111.7	1064.4	995.2	919.1	834.6	778.9	743.4	689.3	660.6	606.6
22.5°	1123.6	1091.5	1034.0	956.3	865.1	770.4	704.6	664.0	603.2	569.4	501.8
25°	1120.2	1081.3	1012.1	924.2	819.4	707.9	628.5	588.0	511.9	473.1	393.7
27.5°	1121.9	1076.3	998.5	897.2	778.9	652.2	557.6	510.3	413.9	373.4	282.2
30°	1123.6	1077.9	985.0	873.5	741.7	594.7	483.2	427.5	312.6	277.1	196.0
32.5°	1140.5	1084.7	981.6	854.9	707.9	537.3	398.7	348.1	221.3	201.1	145.3
35°	1160.7	1106.7	988.4	851.5	682.6	479.8	312.6	260.2	158.8	153.8	118.3
37.5°	1203.0	1140.5	1015.4	860.0	667.4	420.7	233.2	199.4	125.0	128.4	103.1
40°	1267.2	1197.9	1059.4	885.3	665.7	361.6	172.3	155.4	108.1	111.5	94.6
42.5°	1353.3	1277.3	1126.9	939.4	674.1	305.8	138.5	133.5	99.7	103.1	91.2
45°	1466.5	1388.8	1221.6	1008.7	697.8	260.2	121.6	121.6	96.3	99.7	89.5
47.5°	1610.2	1524.0	1338.1	1101.6	735.0	234.9	114.9	116.6	94.6	99.7	89.5
50°	1772.4	1677.7	1486.8	1221.6	792.4	228.1	116.6	116.6	96.3	99.7	89.5
52.5°	1941.3	1853.5	1647.3	1358.4	871.8	243.3	120.0	118.3	96.3	99.7	87.9
55°	2113.7	2034.2	1824.7	1518.9	981.6	297.4	128.4	123.3	96.3	99.7	89.5
57.5°	2286.0	2230.2	2010.6	1691.3	1118.5	395.4	162.2	143.6	106.4	108.1	91.2
60°	2480.3	2439.7	2220.1	1917.7	1312.8	547.4	238.2	180.8	126.7	120.0	98.0
62.5°	2732.0	2721.9	2547.9	2243.8	1625.4	767.1	337.9	219.6	136.9	125.0	104.8
65°	3176.4	3203.4	3037.8	2625.6	1833.2	772.1	329.5	192.6	128.4	118.3	103.1
67.5°	3622.4	3543.0	3117.3	2568.1	1654.1	513.6	209.5	150.4	113.2	109.8	96.3
70°	3605.5	3389.3	2826.7	2245.4	1306.0	278.8	152.1	125.0	101.4	101.4	91.2
72.5°	3233.8	2912.8	2311.3	1777.4	871.8	177.4	128.4	109.8	92.9	91.2	84.5
75°	2434.7	2056.2	1485.1	1023.9	388.6	114.9	98.0	89.5	81.1	81.1	74.3
77.5°	1145.5	645.4	358.2	238.2	130.1	77.7	67.6	67.6	65.9	67.6	60.8
80°	155.4	140.2	120.0	104.8	79.4	54.1	49.0	50.7	49.0	50.7	45.6
82.5°	94.6	84.5	69.3	65.9	49.0	37.2	35.5	37.2	33.8	35.5	27.0
85°	45.6	40.5	32.1	30.4	25.3	22.0	18.6	22.0	16.9	18.6	11.8
87.5°	0.0	3.4	1.7	3.4	3.4	3.4	0.0	3.4	0.0	3.4	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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1209.7	1204.7	1203.0	1196.2	1194.5	1187.8	1186.1	1179.3	1167.5	1162.4	1154.0
5°	1145.5	1137.1	1130.3	1126.9	1113.4	1106.7	1096.5	1083.0	1057.7	1045.8	1025.6
7.5°	1056.0	1054.3	1034.0	1027.3	1010.4	998.5	983.3	961.4	924.2	902.2	870.1
10°	958.0	951.2	927.6	914.1	892.1	875.2	854.9	822.8	765.4	719.8	670.8
12.5°	866.8	846.5	819.4	799.2	772.1	748.5	724.8	675.8	584.6	510.3	442.7
15°	772.1	741.7	713.0	679.2	650.5	613.3	586.3	522.1	402.1	310.9	268.6
17.5°	675.8	633.6	601.5	555.9	523.8	473.1	444.4	366.6	263.6	223.0	209.5
20°	574.5	518.7	483.2	427.5	395.4	331.2	309.2	253.4	202.7	187.5	184.2
22.5°	466.3	398.7	359.9	299.1	277.1	238.2	221.3	194.3	170.6	163.9	167.3
25°	353.1	280.5	255.1	211.2	202.7	182.5	175.7	162.2	150.4	150.4	155.4
27.5°	251.7	196.0	189.2	162.2	160.5	150.4	145.3	138.5	135.2	138.5	145.3
30°	184.2	148.7	148.7	133.5	133.5	126.7	125.0	121.6	121.6	128.4	135.2
32.5°	145.3	121.6	125.0	113.2	114.9	109.8	111.5	109.8	111.5	116.6	121.6
35°	121.6	104.8	109.8	99.7	103.1	98.0	101.4	101.4	104.8	106.4	108.1
37.5°	108.1	96.3	99.7	92.9	96.3	91.2	96.3	96.3	98.0	98.0	98.0
40°	99.7	89.5	94.6	87.9	92.9	87.9	92.9	92.9	91.2	89.5	91.2
42.5°	94.6	87.9	92.9	86.2	91.2	86.2	89.5	87.9	84.5	84.5	84.5
45°	92.9	86.2	89.5	84.5	87.9	82.8	86.2	84.5	79.4	77.7	81.1
47.5°	92.9	84.5	89.5	82.8	86.2	81.1	84.5	79.4	74.3	74.3	79.4
50°	92.9	84.5	89.5	82.8	86.2	79.4	81.1	76.0	69.3	71.0	77.7
52.5°	94.6	87.9	91.2	84.5	86.2	76.0	79.4	72.7	67.6	69.3	74.3
55°	96.3	87.9	91.2	81.1	82.8	76.0	76.0	72.7	67.6	67.6	72.7
57.5°	96.3	86.2	87.9	79.4	81.1	72.7	74.3	71.0	65.9	64.2	67.6
60°	99.7	89.5	89.5	77.7	79.4	71.0	72.7	69.3	64.2	60.8	62.5
62.5°	103.1	91.2	92.9	81.1	81.1	72.7	74.3	67.6	60.8	57.4	59.1
65°	103.1	91.2	92.9	82.8	82.8	74.3	74.3	67.6	57.4	54.1	54.1
67.5°	98.0	89.5	91.2	82.8	82.8	74.3	74.3	65.9	55.8	50.7	49.0
70°	94.6	86.2	87.9	77.7	79.4	71.0	71.0	62.5	52.4	47.3	43.9
72.5°	86.2	79.4	79.4	72.7	71.0	62.5	62.5	57.4	49.0	42.2	38.9
75°	74.3	67.6	65.9	59.1	59.1	54.1	52.4	47.3	40.5	35.5	33.8
77.5°	60.8	52.4	52.4	43.9	43.9	38.9	40.5	35.5	30.4	28.7	27.0
80°	43.9	35.5	35.5	28.7	28.7	23.7	25.3	23.7	22.0	22.0	20.3
82.5°	27.0	18.6	20.3	15.2	18.6	13.5	15.2	13.5	13.5	11.8	11.8
85°	13.5	6.8	10.1	5.1	8.4	1.7	5.1	3.4	3.4	3.4	3.4
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°	1260.4	1260.4
2.5°	1145.5	1150.6
5°	1018.8	1020.5
7.5°	865.1	861.7
10°	660.6	652.2
12.5°	425.8	413.9
15°	256.8	253.4
17.5°	206.1	206.1
20°	184.2	184.2
22.5°	170.6	170.6
25°	160.5	162.2
27.5°	152.1	152.1
30°	141.9	141.9
32.5°	125.0	125.0
35°	111.5	109.8
37.5°	99.7	101.4
40°	91.2	92.9
42.5°	87.9	87.9
45°	84.5	84.5
47.5°	84.5	84.5
50°	82.8	84.5
52.5°	81.1	81.1
55°	76.0	77.7
57.5°	71.0	72.7
60°	65.9	65.9
62.5°	59.1	59.1
65°	54.1	54.1
67.5°	47.3	47.3
70°	42.2	42.2
72.5°	37.2	37.2
75°	32.1	32.1
77.5°	27.0	25.3
80°	20.3	20.3
82.5°	11.8	11.8
85°	3.4	3.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)