

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: P271413

Luminaire Tested: **ISC-AF-1200-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271413
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: ISC-AF-1200-LED-E1-SL3-7027
Description: IMPACT ELITE LED CYLINDER 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: 5319.6 lumens
Efficiency: N/A
Efficacy: 80.6 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

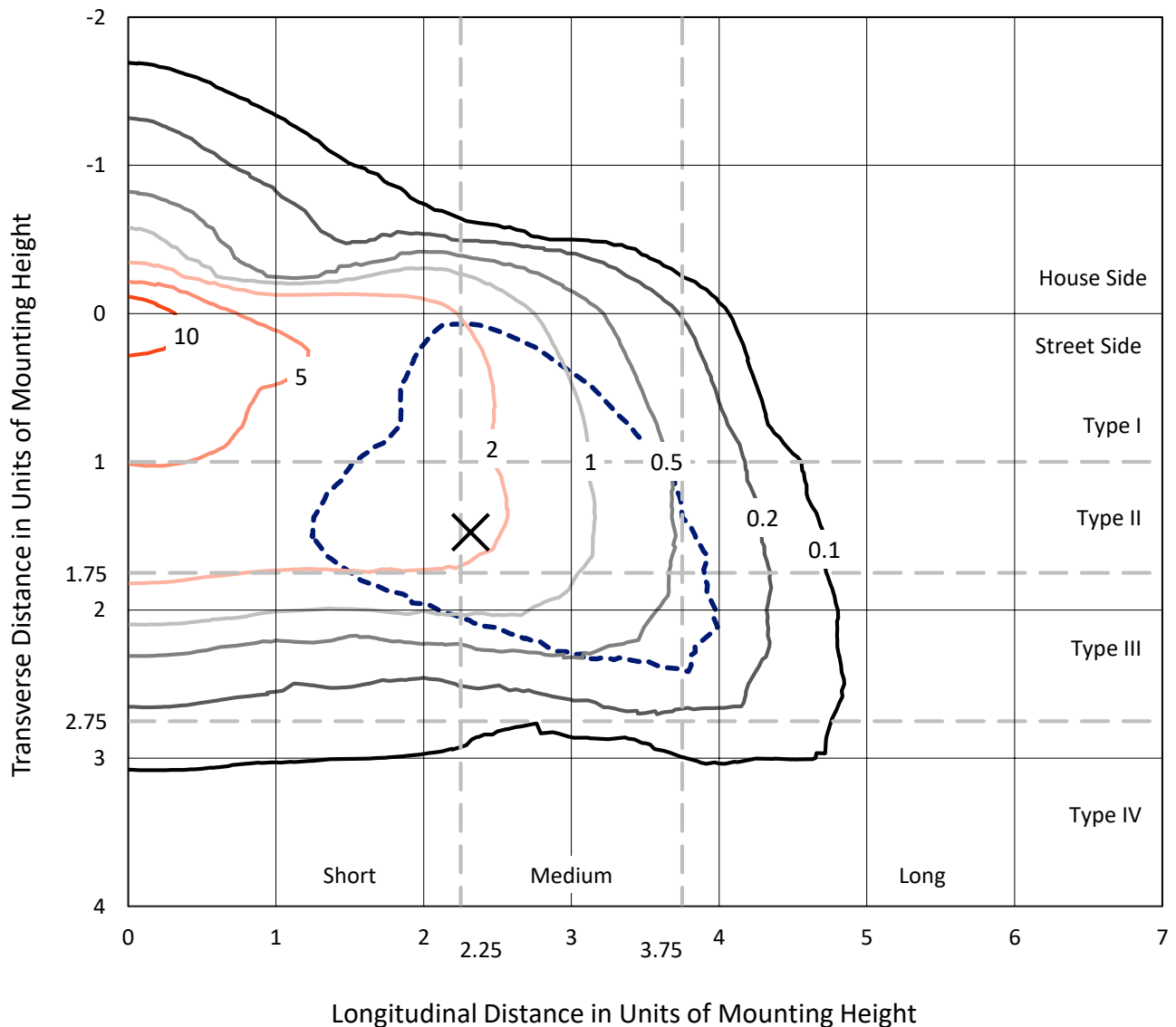
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

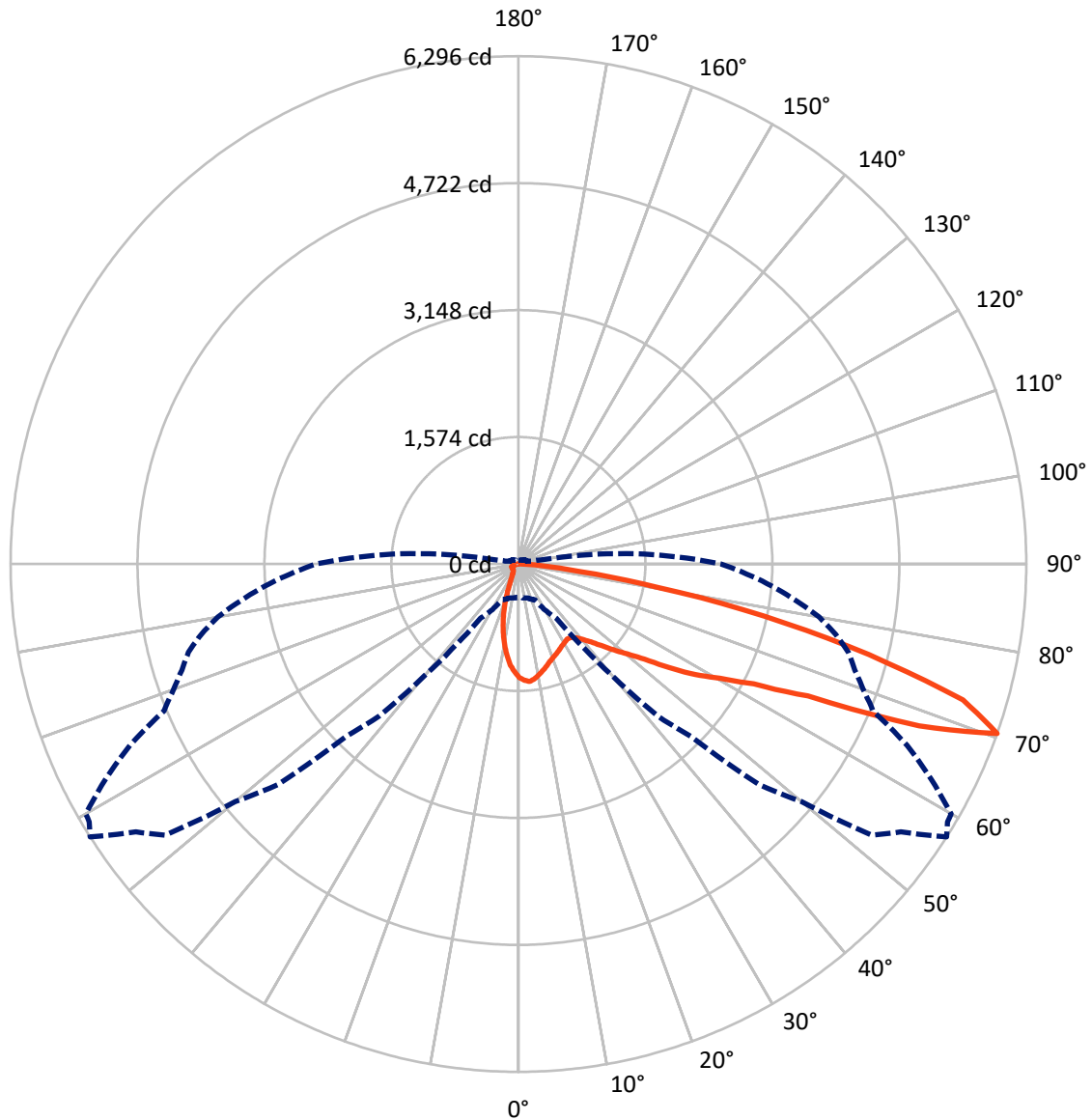
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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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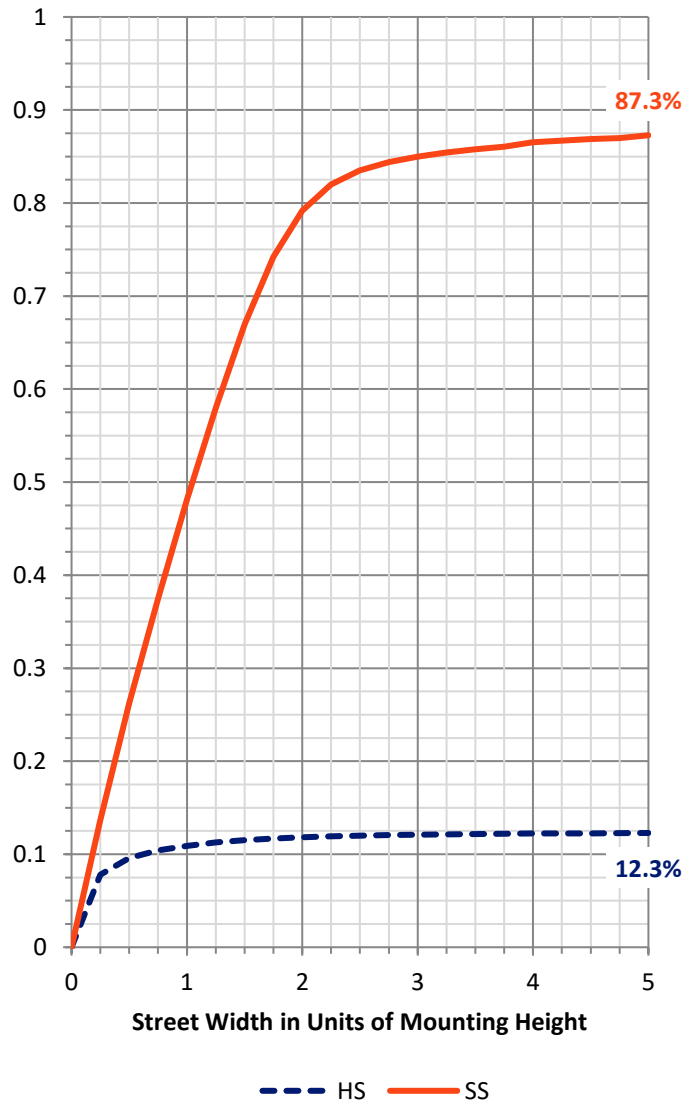
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	658.3	0.0	658.3
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	4661.3	0.0	4661.3
	% Fixture	87.6	0.0	87.6
Total	Lumens	5319.6	0.0	5319.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	2.3
10°-20°	264.0	5.0
20°-30°	331.7	6.2
30°-40°	433.5	8.1
40°-50°	650.4	12.2
50°-60°	1028.2	19.3
60°-70°	1482.0	27.9
70°-80°	917.3	17.2
80°-90°	91.0	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°	5319.6	100.0
0°-180°	5319.6	100.0



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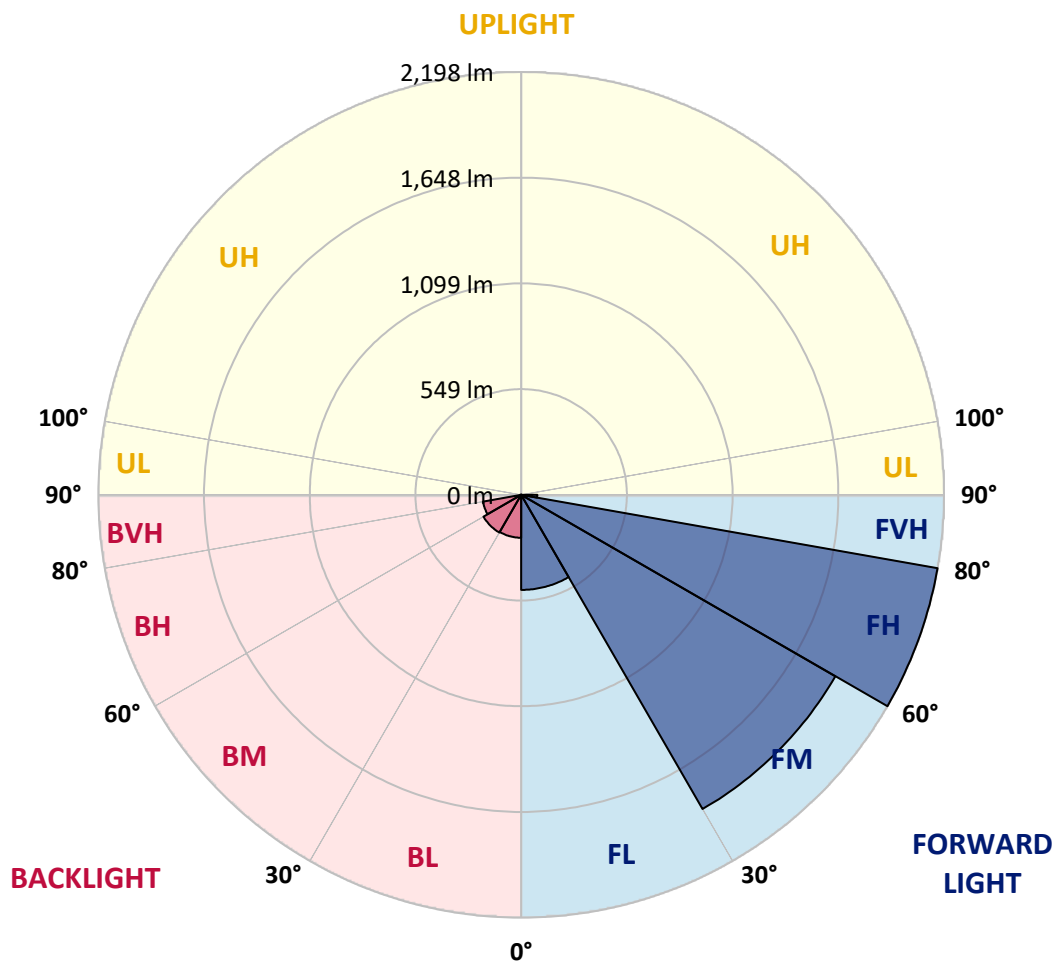
CATALOG NUMBER: ISC-AF-1200-LED-E1-SL3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.1	9.3			
FM	(30°-60°)	1885.7	35.4			
FH	(60°-80°)	2197.8	41.3			G2/5000
FVH	(80°-90°)	83.7	1.6			G1/100
BL	(0°-30°)	223.2	4.2	B1/500		
BM	(30°-60°)	226.4	4.3	B1/1000		
BH	(60°-80°)	201.5	3.8	B1/500		G1/500
BVH	(80°-90°)	7.3	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°	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1477.8	1475.9	1472.2	1464.7	1460.8	1464.7	1460.8	1455.3	1447.7	1453.3	1449.5
5°	1474.1	1477.8	1470.3	1464.7	1474.1	1477.8	1470.3	1470.3	1462.7	1470.3	1466.6
7.5°	1400.5	1402.3	1404.2	1402.3	1426.9	1426.9	1423.2	1426.9	1428.8	1432.5	1434.4
10°	1308.0	1309.9	1313.6	1319.3	1349.5	1353.3	1355.1	1359.0	1364.6	1368.4	1379.7
12.5°	1215.5	1219.3	1226.8	1245.7	1277.7	1281.5	1287.2	1292.9	1302.4	1308.0	1328.8
15°	1138.2	1139.9	1147.6	1168.3	1215.5	1224.9	1228.7	1236.2	1255.1	1255.1	1277.7
17.5°	1066.4	1070.2	1075.8	1100.3	1147.6	1162.7	1173.9	1177.8	1202.3	1208.0	1234.5
20°	1011.6	1013.6	1015.4	1038.1	1081.5	1104.2	1113.6	1128.7	1147.6	1162.7	1185.3
22.5°	981.5	983.4	979.6	989.0	1026.8	1055.1	1066.4	1081.5	1089.0	1115.4	1128.7
25°	983.4	985.2	975.8	970.1	989.0	1019.1	1028.6	1043.7	1040.0	1077.8	1077.8
27.5°	1002.1	1006.0	996.6	979.6	981.5	1006.0	1011.6	1017.3	1006.0	1043.7	1036.1
30°	1040.0	1043.7	1032.4	1019.1	998.5	1013.6	1013.6	1013.6	992.8	1024.9	1011.6
32.5°	1079.7	1083.4	1079.7	1070.2	1043.7	1047.5	1040.0	1036.1	1007.9	1034.3	1013.6
35°	1138.2	1139.9	1141.8	1141.8	1104.2	1111.7	1090.9	1079.7	1053.3	1073.9	1045.6
37.5°	1208.0	1208.0	1221.2	1226.8	1185.3	1185.3	1162.7	1147.6	1123.0	1130.6	1102.3
40°	1270.2	1276.0	1306.0	1323.0	1285.4	1270.2	1251.4	1238.1	1219.3	1219.3	1191.0
42.5°	1342.0	1353.3	1389.2	1421.2	1400.5	1377.8	1359.0	1345.8	1336.3	1334.4	1304.2
45°	1430.7	1443.8	1483.6	1513.7	1519.3	1502.3	1487.2	1474.1	1466.6	1462.7	1436.3
47.5°	1530.7	1543.8	1579.8	1615.6	1642.0	1638.3	1621.4	1608.1	1613.7	1609.9	1593.0
50°	1642.0	1649.6	1672.3	1713.8	1774.2	1787.4	1783.7	1774.2	1785.5	1785.5	1770.4
52.5°	1730.8	1736.4	1753.4	1802.4	1902.5	1932.7	1957.2	1976.1	1995.0	2006.4	1996.9
55°	1811.9	1811.9	1813.8	1876.1	2025.2	2074.3	2129.1	2168.7	2193.2	2238.5	2257.4
57.5°	1944.0	1934.6	1932.7	1998.8	2172.4	2223.3	2302.6	2359.3	2393.3	2485.7	2483.8
60°	1906.3	1910.1	1978.0	2172.4	2474.4	2519.7	2591.4	2651.9	2715.9	2783.9	2789.6
62.5°	1644.0	1653.4	1755.3	2046.0	2666.9	2902.9	3123.7	3291.7	3386.0	3446.4	3363.3
65°	1151.3	1173.9	1311.7	1666.5	2455.6	2819.8	3169.0	3557.7	3856.1	4318.4	4452.4
67.5°	573.7	590.7	613.5	873.9	1834.6	2346.0	2827.3	3357.8	3754.1	4433.6	4812.8
70°	411.4	419.0	435.9	490.7	821.1	1228.7	1794.9	2553.7	3019.9	4044.8	4580.7
72.5°	319.0	326.5	349.2	426.5	543.6	600.2	713.4	1166.4	1734.5	2793.4	3518.1
75°	247.2	258.6	290.6	385.0	522.8	555.0	560.5	602.0	687.0	1240.0	1972.4
77.5°	173.6	175.5	207.6	332.2	507.7	570.1	560.5	560.5	572.0	632.2	843.7
80°	115.2	117.0	137.8	230.2	445.4	519.0	573.7	547.3	549.2	558.7	573.7
82.5°	60.4	64.2	81.2	139.7	260.5	351.1	477.4	498.3	490.7	500.2	496.4
85°	17.0	17.0	28.3	52.8	128.4	135.9	211.4	288.7	294.5	334.1	356.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	7.5	17.0	18.9
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°	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1453.3	1445.7	1443.8	1440.2	1442.0	1436.3	1434.4	1426.9	1426.9	1423.2	1419.3
5°	1462.7	1455.3	1462.7	1449.5	1451.4	1445.7	1436.3	1436.3	1428.8	1423.2	1411.8
7.5°	1436.3	1436.3	1438.3	1430.7	1432.5	1430.7	1419.3	1417.4	1406.2	1406.2	1392.9
10°	1387.3	1387.3	1394.8	1389.2	1391.0	1389.2	1383.5	1381.6	1377.8	1377.8	1357.1
12.5°	1330.6	1342.0	1353.3	1347.5	1347.5	1351.4	1351.4	1353.3	1351.4	1349.5	1332.5
15°	1283.5	1300.5	1311.7	1309.9	1311.7	1321.1	1325.0	1326.9	1332.5	1330.6	1315.6
17.5°	1240.0	1259.0	1268.4	1276.0	1281.5	1289.1	1300.5	1306.0	1313.6	1311.7	1296.6
20°	1200.3	1217.5	1234.5	1243.8	1245.7	1260.8	1274.0	1291.0	1294.7	1298.5	1279.6
22.5°	1158.8	1173.9	1208.0	1202.3	1215.5	1243.8	1251.4	1276.0	1276.0	1289.1	1262.7
25°	1123.0	1124.9	1177.8	1168.3	1179.7	1230.6	1236.2	1279.6	1268.4	1287.2	1257.0
27.5°	1087.2	1085.2	1149.4	1138.2	1151.3	1221.2	1224.9	1285.4	1274.0	1296.6	1257.0
30°	1060.7	1055.1	1128.7	1106.0	1124.9	1211.7	1213.6	1291.0	1281.5	1311.7	1270.2
32.5°	1055.1	1045.6	1109.8	1092.8	1111.7	1202.3	1213.6	1311.7	1300.5	1338.1	1285.4
35°	1079.7	1064.5	1119.3	1104.2	1119.3	1206.1	1223.0	1343.9	1330.6	1374.0	1321.1
37.5°	1124.9	1113.6	1158.8	1143.8	1155.1	1232.5	1247.6	1385.4	1383.5	1436.3	1375.9
40°	1204.2	1192.9	1228.7	1208.0	1217.5	1289.1	1296.6	1443.8	1449.5	1513.7	1453.3
42.5°	1311.7	1292.9	1321.1	1296.6	1309.9	1374.0	1366.5	1515.6	1532.6	1621.4	1551.5
45°	1449.5	1425.0	1442.0	1415.5	1425.0	1479.8	1458.9	1611.9	1628.9	1738.3	1676.1
47.5°	1600.5	1570.3	1591.1	1557.1	1562.8	1621.4	1583.5	1727.0	1753.4	1891.2	1830.7
50°	1781.7	1742.2	1749.7	1717.6	1721.3	1779.8	1738.3	1868.6	1900.6	2053.5	2000.6
52.5°	2013.9	1957.2	1957.2	1913.9	1915.7	1974.3	1923.3	2036.5	2072.4	2227.2	2191.2
55°	2319.6	2274.4	2264.9	2219.6	2204.5	2215.8	2144.2	2223.3	2263.0	2408.4	2380.0
57.5°	2563.1	2557.5	2585.8	2521.6	2506.5	2510.2	2419.7	2425.3	2470.6	2583.9	2593.2
60°	2859.5	2868.8	2872.7	2819.8	2814.1	2761.3	2668.9	2653.8	2710.4	2787.7	2817.9
62.5°	3331.4	3321.8	3274.7	3235.1	3199.1	3057.7	3006.6	2923.6	3002.9	3046.3	3108.6
65°	4344.8	4246.6	3944.6	3971.1	3876.7	3569.1	3525.7	3357.8	3482.3	3484.2	3601.1
67.5°	5349.0	5541.5	5356.5	5360.3	5147.0	4590.2	4456.2	4122.1	4192.0	4110.8	4171.2
70°	5520.7	5790.7	6296.4	6205.9	6194.5	5766.1	5315.0	4758.2	4548.7	4375.0	4235.4
72.5°	4750.7	5020.5	5762.3	5556.6	5634.0	5764.2	5294.3	4877.1	4409.0	4188.2	3886.2
75°	3342.6	3731.4	4484.5	4376.9	4433.6	4648.7	4244.9	4195.7	3654.0	3506.8	3042.5
77.5°	1791.2	2272.4	3116.1	2984.0	3008.5	3131.2	2710.4	2623.5	2100.7	1955.4	1428.8
80°	805.9	1117.3	1749.7	1602.5	1559.0	1489.2	1096.7	864.3	528.5	351.1	243.5
82.5°	534.1	555.0	775.8	671.9	628.5	519.0	336.0	198.2	156.7	132.1	126.4
85°	358.6	328.4	326.5	288.7	268.1	211.4	156.7	98.2	81.2	67.9	62.3
87.5°	20.8	13.3	18.9	20.8	15.1	13.3	9.4	0.0	1.9	0.0	1.9
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1409.9	1409.9	1408.0	1394.8	1387.3	1383.5	1370.3	1368.4	1362.7	1360.8	1360.8
5°	1408.0	1400.5	1391.0	1372.1	1353.3	1336.3	1330.6	1317.5	1308.0	1296.6	1296.6
7.5°	1381.6	1374.0	1353.3	1325.0	1300.5	1276.0	1262.7	1243.8	1228.7	1213.6	1209.8
10°	1351.4	1340.1	1311.7	1274.0	1242.0	1198.5	1181.5	1156.9	1139.9	1117.3	1094.8
12.5°	1319.3	1311.7	1277.7	1234.5	1185.3	1130.6	1104.2	1070.2	1047.5	1021.1	987.1
15°	1306.0	1291.0	1247.6	1192.9	1132.4	1066.4	1028.6	992.8	958.9	928.6	883.3
17.5°	1289.1	1270.2	1221.2	1156.9	1081.5	1002.1	953.1	913.5	868.2	836.1	785.2
20°	1270.2	1242.0	1189.1	1111.7	1026.8	932.4	870.1	830.4	770.0	738.0	677.6
22.5°	1255.1	1219.3	1155.1	1068.3	966.4	860.7	787.1	741.8	673.8	636.1	560.5
25°	1251.4	1208.0	1130.6	1032.4	915.5	790.9	702.1	656.8	572.0	528.5	439.8
27.5°	1253.2	1202.3	1115.4	1002.1	870.1	728.5	622.9	570.1	462.4	417.2	315.1
30°	1255.1	1204.2	1100.3	975.8	828.6	664.4	539.8	477.4	349.2	309.6	219.0
32.5°	1274.0	1211.7	1096.7	955.1	790.9	600.2	445.4	388.8	247.2	224.6	162.3
35°	1296.6	1236.2	1104.2	951.2	762.5	536.0	349.2	290.6	177.4	171.8	132.1
37.5°	1343.9	1274.0	1134.3	960.6	745.5	469.9	260.5	222.7	139.7	143.5	115.2
40°	1415.5	1338.1	1183.3	989.0	743.7	403.9	192.5	173.6	120.8	124.5	105.7
42.5°	1511.8	1426.9	1259.0	1049.4	753.0	341.6	154.8	149.1	111.4	115.2	101.9
45°	1638.3	1551.5	1364.6	1126.8	779.5	290.6	135.9	135.9	107.5	111.4	100.0
47.5°	1798.7	1702.5	1494.8	1230.6	821.1	262.3	128.4	130.3	105.7	111.4	100.0
50°	1980.0	1874.2	1661.0	1364.6	885.2	254.8	130.3	130.3	107.5	111.4	100.0
52.5°	2168.7	2070.5	1840.3	1517.5	973.9	271.7	133.9	132.1	107.5	111.4	98.2
55°	2361.1	2272.4	2038.4	1696.8	1096.7	332.2	143.5	137.8	107.5	111.4	100.0
57.5°	2553.7	2491.4	2246.0	1889.3	1249.5	441.7	181.2	160.4	118.9	120.8	101.9
60°	2770.7	2725.5	2480.1	2142.2	1466.6	611.6	266.1	202.0	141.6	133.9	109.4
62.5°	3051.9	3040.7	2846.2	2506.5	1815.7	856.9	377.5	245.3	152.9	139.7	117.0
65°	3548.3	3578.6	3393.5	2933.1	2047.9	862.6	368.0	215.1	143.5	132.1	115.2
67.5°	4046.7	3957.9	3482.3	2868.8	1847.7	573.7	234.1	167.9	126.4	122.7	107.5
70°	4027.8	3786.2	3157.6	2508.3	1458.9	311.4	169.9	139.7	113.3	113.3	101.9
72.5°	3612.5	3253.9	2582.0	1985.5	973.9	198.2	143.5	122.7	103.8	101.9	94.4
75°	2719.8	2297.0	1659.0	1143.8	434.2	128.4	109.4	100.0	90.5	90.5	83.0
77.5°	1279.6	721.0	400.1	266.1	145.3	86.9	75.5	75.5	73.6	75.5	67.9
80°	173.6	156.7	133.9	117.0	88.8	60.4	54.8	56.6	54.8	56.6	50.9
82.5°	105.7	94.4	77.3	73.6	54.8	41.5	39.6	41.5	37.8	39.6	30.3
85°	50.9	45.4	35.8	34.0	28.3	24.5	20.8	24.5	18.9	20.8	13.3
87.5°	0.0	3.8	1.9	3.8	3.8	3.8	0.0	3.8	0.0	3.8	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°	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1351.4	1345.8	1343.9	1336.3	1334.4	1326.9	1325.0	1317.5	1304.2	1298.5	1289.1
5°	1279.6	1270.2	1262.7	1259.0	1243.8	1236.2	1224.9	1209.8	1181.5	1168.3	1145.7
7.5°	1179.7	1177.8	1155.1	1147.6	1128.7	1115.4	1098.4	1073.9	1032.4	1007.9	972.1
10°	1070.2	1062.7	1036.1	1021.1	996.6	977.6	955.1	919.1	855.0	804.1	749.3
12.5°	968.2	945.6	915.5	892.7	862.6	836.1	809.7	754.9	653.1	570.1	494.4
15°	862.6	828.6	796.4	758.8	726.7	685.1	655.0	583.2	449.2	347.3	300.1
17.5°	754.9	707.8	671.9	621.0	585.1	528.5	496.4	409.5	294.5	249.1	234.1
20°	641.7	579.5	539.8	477.4	441.7	369.9	345.4	283.1	226.6	209.6	205.7
22.5°	520.9	445.4	402.0	334.1	309.6	266.1	247.2	217.0	190.6	183.1	186.8
25°	394.4	313.3	285.0	236.0	226.6	203.8	196.3	181.2	167.9	167.9	173.6
27.5°	281.2	219.0	211.4	181.2	179.3	167.9	162.3	154.8	150.9	154.8	162.3
30°	205.7	166.1	166.1	149.1	149.1	141.6	139.7	135.9	135.9	143.5	150.9
32.5°	162.3	135.9	139.7	126.4	128.4	122.7	124.5	122.7	124.5	130.3	135.9
35°	135.9	117.0	122.7	111.4	115.2	109.4	113.3	113.3	117.0	118.9	120.8
37.5°	120.8	107.5	111.4	103.8	107.5	101.9	107.5	107.5	109.4	109.4	109.4
40°	111.4	100.0	105.7	98.2	103.8	98.2	103.8	103.8	101.9	100.0	101.9
42.5°	105.7	98.2	103.8	96.3	101.9	96.3	100.0	98.2	94.4	94.4	94.4
45°	103.8	96.3	100.0	94.4	98.2	92.4	96.3	94.4	88.8	86.9	90.5
47.5°	103.8	94.4	100.0	92.4	96.3	90.5	94.4	88.8	83.0	83.0	88.8
50°	103.8	94.4	100.0	92.4	96.3	88.8	90.5	84.9	77.3	79.3	86.9
52.5°	105.7	98.2	101.9	94.4	96.3	84.9	88.8	81.2	75.5	77.3	83.0
55°	107.5	98.2	101.9	90.5	92.4	84.9	84.9	81.2	75.5	75.5	81.2
57.5°	107.5	96.3	98.2	88.8	90.5	81.2	83.0	79.3	73.6	71.8	75.5
60°	111.4	100.0	100.0	86.9	88.8	79.3	81.2	77.3	71.8	67.9	69.9
62.5°	115.2	101.9	103.8	90.5	90.5	81.2	83.0	75.5	67.9	64.2	66.0
65°	115.2	101.9	103.8	92.4	92.4	83.0	83.0	75.5	64.2	60.4	60.4
67.5°	109.4	100.0	101.9	92.4	92.4	83.0	83.0	73.6	62.3	56.6	54.8
70°	105.7	96.3	98.2	86.9	88.8	79.3	79.3	69.9	58.5	52.8	49.0
72.5°	96.3	88.8	88.8	81.2	79.3	69.9	69.9	64.2	54.8	47.3	43.4
75°	83.0	75.5	73.6	66.0	66.0	60.4	58.5	52.8	45.4	39.6	37.8
77.5°	67.9	58.5	58.5	49.0	49.0	43.4	45.4	39.6	34.0	32.1	30.3
80°	49.0	39.6	39.6	32.1	32.1	26.4	28.3	26.4	24.5	24.5	22.6
82.5°	30.3	20.8	22.6	17.0	20.8	15.1	17.0	15.1	15.1	13.3	13.3
85°	15.1	7.5	11.3	5.7	9.4	1.9	5.7	3.8	3.8	3.8	3.8
87.5°	1.9	0.0	1.9	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°	1408.0	1408.0
2.5°	1279.6	1285.4
5°	1138.2	1139.9
7.5°	966.4	962.5
10°	738.0	728.5
12.5°	475.7	462.4
15°	286.9	283.1
17.5°	230.2	230.2
20°	205.7	205.7
22.5°	190.6	190.6
25°	179.3	181.2
27.5°	169.9	169.9
30°	158.6	158.6
32.5°	139.7	139.7
35°	124.5	122.7
37.5°	111.4	113.3
40°	101.9	103.8
42.5°	98.2	98.2
45°	94.4	94.4
47.5°	94.4	94.4
50°	92.4	94.4
52.5°	90.5	90.5
55°	84.9	86.9
57.5°	79.3	81.2
60°	73.6	73.6
62.5°	66.0	66.0
65°	60.4	60.4
67.5°	52.8	52.8
70°	47.3	47.3
72.5°	41.5	41.5
75°	35.8	35.8
77.5°	30.3	28.3
80°	22.6	22.6
82.5°	13.3	13.3
85°	3.8	3.8
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)