

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: INVUE

Report Number: P180881

Luminaire Tested: **ICM-F03-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180881
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5744 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

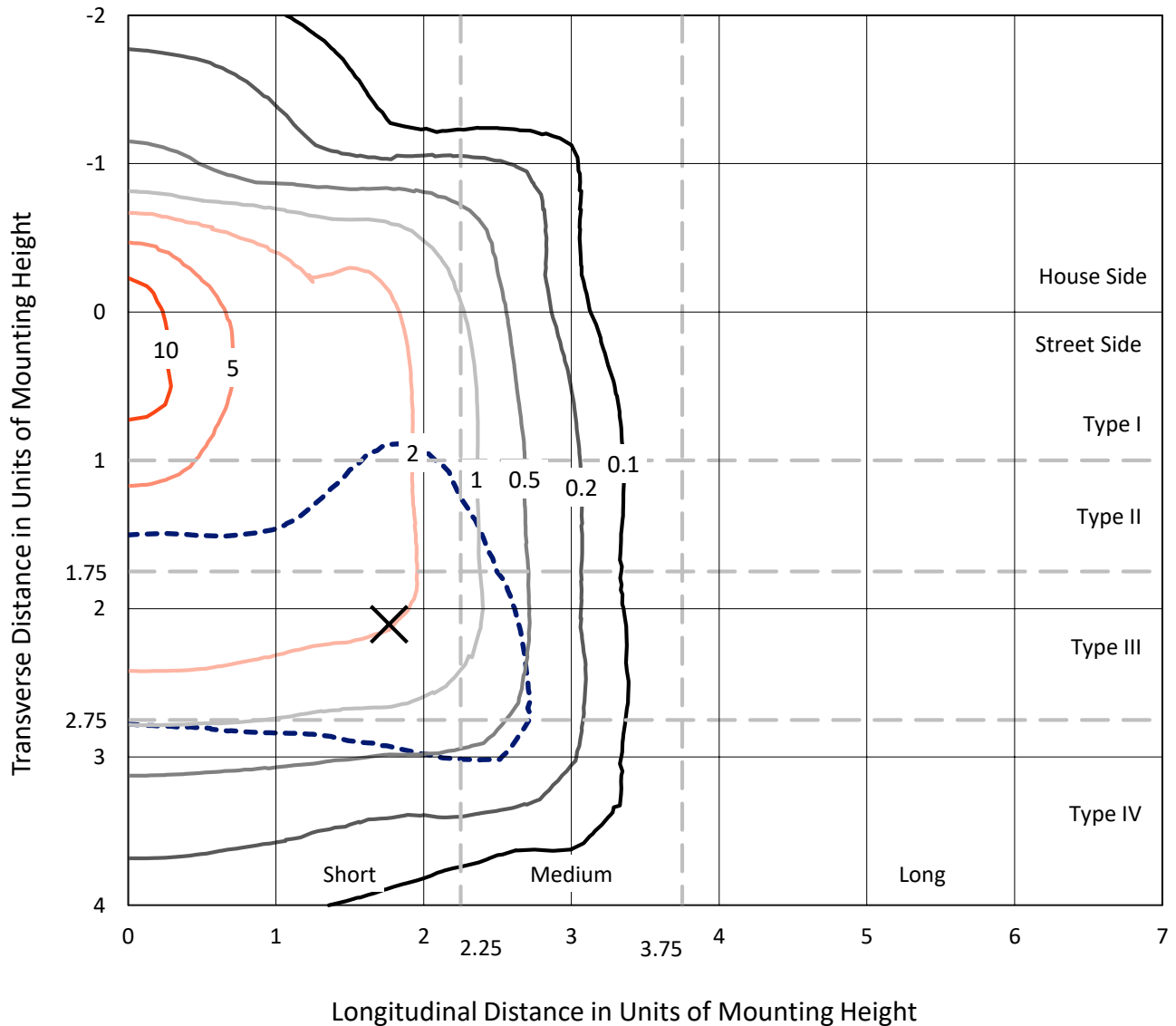
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

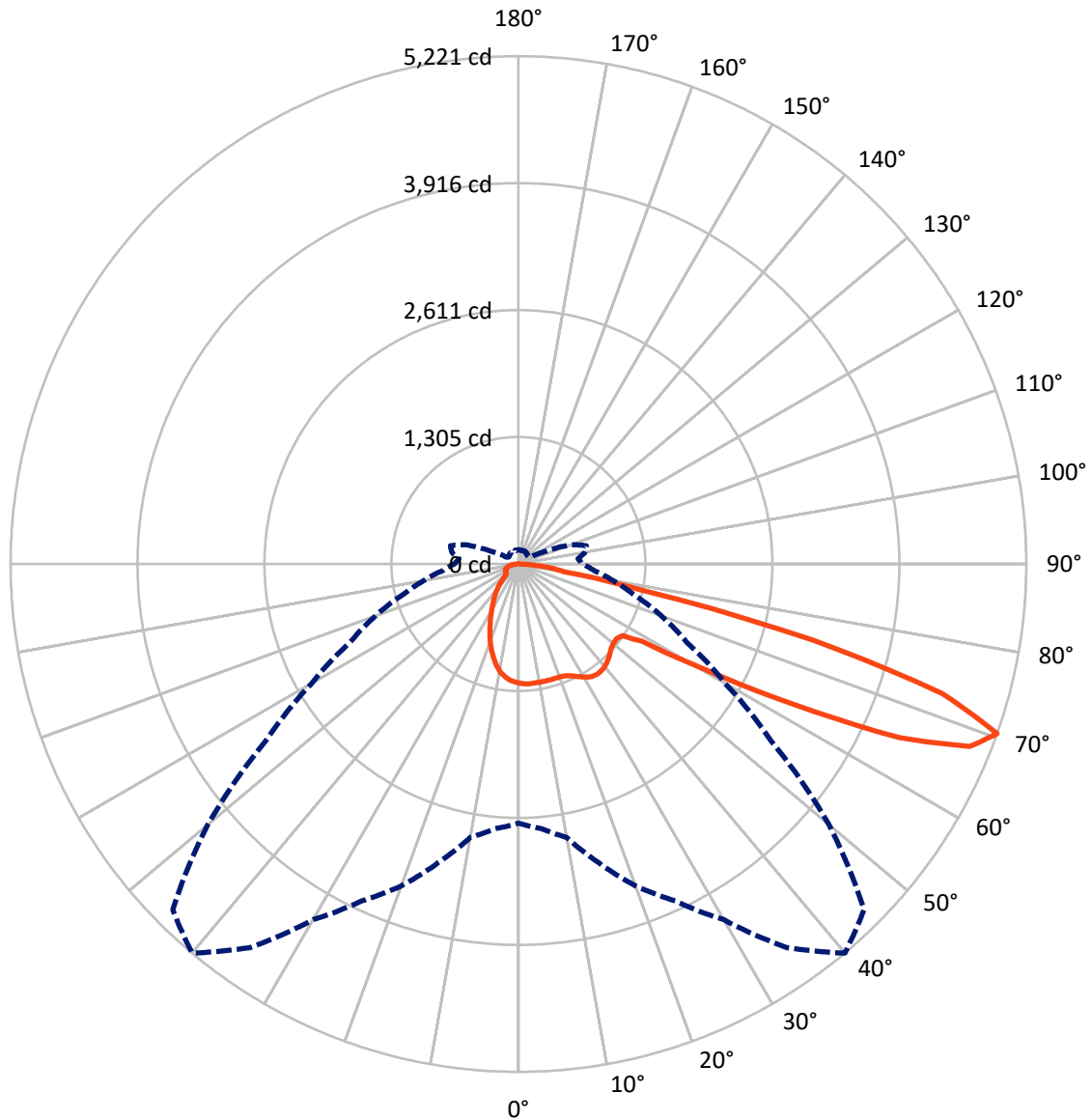
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1192.4	0.0	1192.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4551.6	0.0	4551.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	5744.0	0.0	5744.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	2.0
10°-20°	313.5	5.5
20°-30°	464.0	8.1
30°-40°	586.4	10.2
40°-50°	663.2	11.5
50°-60°	943.7	16.4
60°-70°	1757.6	30.6
70°-80°	805.5	14.0
80°-90°	95.6	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°	5744.0	100.0
0°-180°	5744.0	100.0



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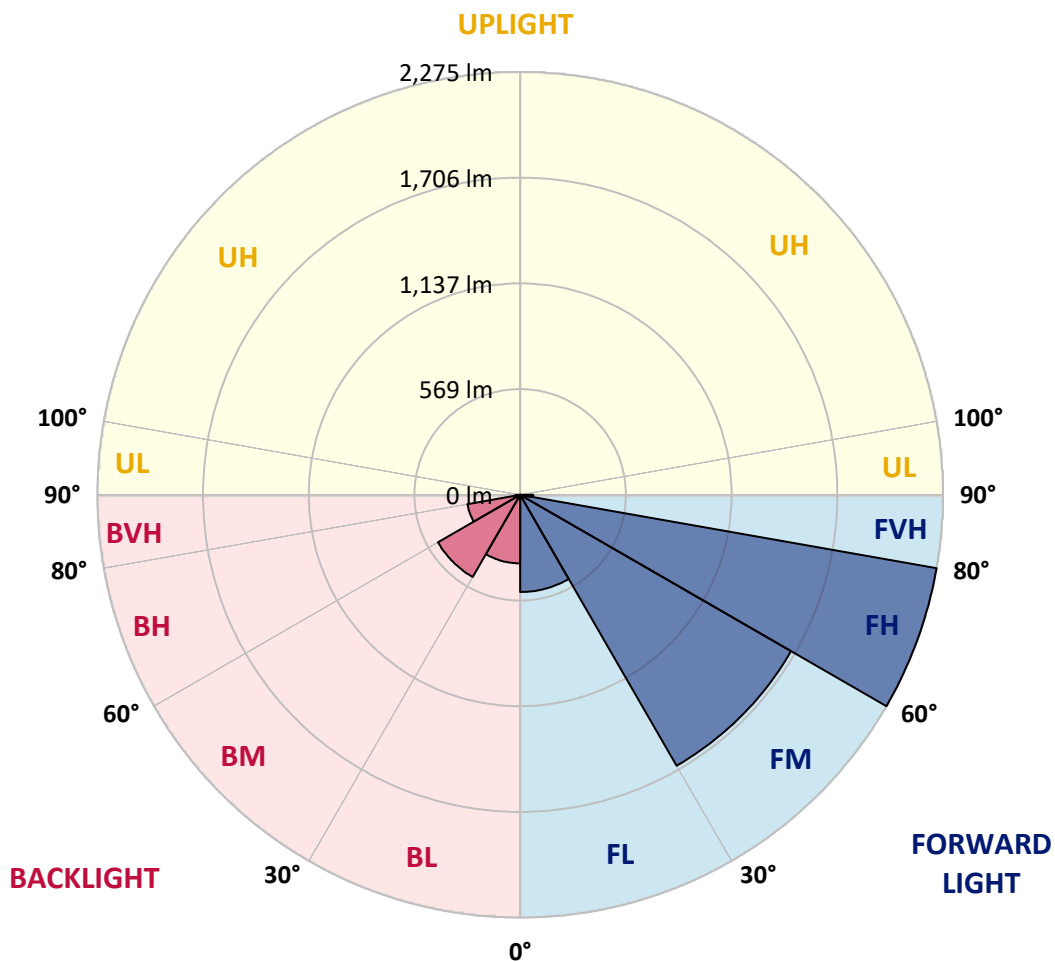
CATALOG NUMBER: ICM-F03-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.0	9.1			
FM	(30°-60°)	1682.8	29.3			
FH	(60°-80°)	2274.8	39.6			G2/5000
FVH	(80°-90°)	70.9	1.2			G1/100
BL	(0°-30°)	368.9	6.4	B1/500		
BM	(30°-60°)	510.5	8.9	B1/1000		
BH	(60°-80°)	288.3	5.0	B1/500		G1/500
BVH	(80°-90°)	24.7	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6
2.5°	1244.4	1247.6	1243.7	1243.1	1243.1	1242.4	1238.6	1238.0	1232.8	1233.4	1234.7
5°	1253.5	1254.8	1252.2	1251.5	1250.2	1247.6	1244.4	1240.6	1236.7	1232.8	1229.5
7.5°	1262.5	1261.2	1259.4	1259.4	1257.4	1253.5	1247.0	1241.8	1233.4	1228.8	1223.0
10°	1275.5	1273.6	1271.0	1269.7	1266.4	1260.7	1251.5	1244.4	1234.1	1224.9	1215.3
12.5°	1287.8	1287.2	1283.3	1281.3	1276.2	1270.3	1259.4	1248.3	1234.7	1220.5	1207.4
15°	1309.9	1307.3	1303.4	1299.5	1291.1	1283.3	1266.4	1253.5	1234.1	1215.3	1195.2
17.5°	1348.1	1343.5	1339.7	1331.3	1320.8	1307.3	1282.6	1260.7	1234.1	1206.8	1184.1
20°	1418.1	1408.4	1403.2	1392.2	1374.1	1349.4	1311.2	1275.5	1236.0	1201.0	1170.5
22.5°	1497.2	1490.7	1483.5	1476.5	1447.9	1412.3	1360.4	1307.3	1247.6	1198.4	1159.5
25°	1586.0	1577.6	1573.7	1561.3	1534.8	1494.0	1423.3	1349.4	1274.2	1208.8	1159.5
27.5°	1665.0	1662.4	1661.8	1647.5	1622.2	1574.3	1490.7	1401.9	1310.5	1230.1	1169.2
30°	1737.0	1734.4	1733.1	1725.3	1696.2	1639.1	1548.4	1448.6	1350.1	1260.0	1187.4
32.5°	1813.5	1805.0	1801.1	1786.2	1753.2	1686.4	1582.7	1479.1	1381.1	1289.1	1207.4
35°	1875.7	1868.6	1860.8	1839.4	1792.8	1713.7	1597.7	1489.4	1393.5	1305.3	1217.9
37.5°	1921.0	1914.0	1902.9	1875.7	1818.0	1722.7	1597.0	1486.1	1388.9	1302.7	1219.8
40°	1941.1	1934.1	1922.3	1888.0	1822.5	1717.5	1584.7	1471.3	1375.4	1289.1	1212.0
42.5°	1933.4	1928.2	1913.3	1880.2	1808.3	1694.2	1560.0	1443.4	1349.4	1267.1	1194.5
45°	1903.5	1899.6	1885.4	1850.4	1775.9	1656.7	1523.7	1408.4	1318.3	1239.9	1171.2
47.5°	1858.8	1857.5	1843.3	1808.9	1735.1	1619.0	1486.1	1374.1	1287.2	1213.3	1151.7
50°	1809.6	1803.1	1796.0	1764.2	1696.8	1586.6	1459.0	1352.7	1269.7	1203.5	1143.3
52.5°	1778.4	1776.6	1770.1	1741.5	1676.8	1567.8	1446.6	1344.8	1268.4	1201.6	1138.8
55°	2054.6	2059.1	1999.5	1875.7	1766.8	1619.6	1483.5	1384.4	1300.2	1232.8	1186.7
57.5°	3039.1	3019.0	2916.6	2670.9	2393.5	2027.4	1763.5	1603.5	1499.1	1510.8	1534.1
60°	3540.8	3536.9	3518.1	3422.8	3238.1	2959.4	2650.2	2295.6	2182.9	2195.2	2204.3
62.5°	3765.0	3770.8	3785.0	3749.4	3700.9	3619.8	3465.5	3323.0	3171.9	3115.6	2964.6
65°	3868.7	3879.1	3911.5	3931.6	3950.3	3964.6	4025.5	4192.8	4302.9	4096.9	3617.2
67.5°	3654.2	3704.0	3811.0	3915.4	4008.7	4141.5	4347.7	4735.8	5006.2	4752.8	4057.3
70°	2663.8	2731.8	2854.3	3177.1	3522.0	3823.3	4222.5	4813.7	5221.3	5025.6	4166.2
72.5°	1670.2	1689.0	1743.5	1862.1	2118.1	2505.0	3203.1	4089.7	4560.2	4404.0	3521.3
75°	1059.7	1066.1	1064.2	1091.4	1134.9	1219.2	1495.3	2415.5	3124.0	2880.3	1962.5
77.5°	631.3	641.0	644.9	653.3	674.1	703.9	726.5	821.9	1309.9	1271.6	712.3
80°	528.8	536.7	530.1	528.2	515.3	506.2	517.2	506.2	469.9	452.4	416.7
82.5°	280.0	279.4	277.4	296.2	334.4	364.3	387.0	381.8	345.5	294.2	249.5
85°	153.6	158.8	158.8	165.3	159.4	160.1	165.3	174.3	161.4	134.8	110.1
87.5°	12.9	20.1	16.2	20.1	27.3	19.4	18.8	18.8	16.2	11.6	10.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6
2.5°	1231.4	1230.1	1227.5	1225.6	1225.6	1222.3	1220.5	1219.2	1218.5	1215.9	1215.9
5°	1227.5	1223.0	1218.5	1215.3	1213.3	1210.1	1204.8	1202.2	1199.1	1196.5	1195.2
7.5°	1219.2	1210.7	1203.5	1198.4	1191.9	1186.7	1180.3	1174.4	1168.6	1166.0	1164.7
10°	1206.1	1195.2	1184.1	1174.4	1165.3	1156.3	1147.8	1139.4	1132.3	1127.1	1121.9
12.5°	1193.9	1177.0	1162.7	1148.5	1134.2	1123.2	1111.5	1099.3	1088.8	1079.2	1076.6
15°	1177.0	1157.6	1139.4	1121.9	1104.4	1086.2	1072.0	1058.4	1041.6	1030.5	1022.1
17.5°	1161.5	1138.1	1116.1	1095.4	1074.0	1055.2	1033.8	1015.6	998.8	982.0	969.6
20°	1144.6	1119.4	1096.0	1072.7	1049.3	1025.3	1000.8	977.4	956.7	936.6	916.5
22.5°	1129.7	1103.7	1081.1	1055.8	1029.9	1002.6	974.1	944.9	921.0	895.1	871.7
25°	1120.7	1092.1	1068.8	1044.1	1015.6	985.8	953.4	919.1	889.9	860.1	832.2
27.5°	1120.7	1083.6	1059.7	1035.1	1005.9	974.1	938.5	900.9	867.8	834.8	800.5
30°	1130.3	1084.9	1052.6	1026.6	996.8	962.5	923.0	883.4	847.1	808.2	775.2
32.5°	1139.4	1087.5	1047.4	1014.3	980.0	946.2	906.1	863.9	823.8	786.8	751.8
35°	1145.2	1087.5	1037.7	995.5	956.7	923.5	884.0	842.0	801.1	764.7	732.4
37.5°	1145.9	1082.3	1022.1	974.1	933.3	899.0	861.4	821.9	783.0	749.2	722.1
40°	1139.4	1072.0	1006.5	951.4	908.7	873.7	839.4	803.7	768.7	740.8	717.5
42.5°	1127.7	1061.0	991.6	933.3	888.6	852.3	820.6	790.1	759.6	735.6	716.2
45°	1110.2	1046.1	978.1	922.3	878.2	840.0	808.8	783.6	757.7	737.6	718.1
47.5°	1094.7	1040.9	982.6	929.4	883.4	843.8	812.1	790.7	770.6	757.0	730.4
50°	1091.4	1038.3	984.5	935.3	888.6	848.4	820.6	809.5	803.7	795.3	754.4
52.5°	1082.3	1037.7	998.8	971.5	941.8	923.0	893.8	904.1	897.7	867.8	794.0
55°	1177.7	1190.6	1226.9	1278.8	1326.7	1337.8	1334.5	1322.1	1256.8	1081.1	889.2
57.5°	1619.0	1692.3	1760.9	1791.5	1787.5	1753.2	1728.6	1678.6	1584.0	1370.1	1077.2
60°	2232.2	2243.8	2207.5	2153.8	2063.0	1987.2	1906.2	1812.8	1675.5	1466.1	1192.6
62.5°	2796.7	2639.8	2478.4	2326.8	2188.8	2068.2	1955.5	1825.1	1646.2	1427.8	1177.7
65°	3195.3	2863.5	2608.8	2391.0	2195.8	2027.4	1886.7	1717.5	1516.0	1319.0	1091.4
67.5°	3400.8	2891.9	2501.1	2197.8	1921.0	1687.7	1500.4	1335.8	1186.1	1099.9	955.4
70°	3171.3	2454.4	1910.1	1567.2	1236.0	991.0	783.0	657.2	613.8	695.4	723.4
72.5°	2363.1	1597.7	1136.2	878.9	673.4	536.7	411.5	323.4	263.2	276.1	358.4
75°	1117.4	689.6	487.4	370.7	294.9	244.4	199.6	182.8	152.9	127.1	119.3
77.5°	434.9	316.9	261.9	191.8	136.1	109.5	93.3	90.0	92.0	89.4	88.2
80°	331.2	224.3	140.7	103.1	88.8	78.4	69.4	66.8	68.1	71.3	74.5
82.5°	184.7	115.3	85.6	74.5	66.8	57.0	51.8	48.0	48.7	52.5	59.6
85°	71.3	55.7	51.2	49.3	46.0	36.9	31.7	32.4	36.9	44.1	44.1
87.5°	7.8	7.8	10.3	7.8	7.8	7.8	7.2	8.5	9.1	11.6	13.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6	1225.6
2.5°	1214.6	1214.6	1214.6	1213.3	1214.0	1211.4	1211.4	1209.4	1212.7	1210.7	1210.1
5°	1195.8	1195.2	1192.6	1192.6	1192.6	1192.6	1194.5	1189.3	1193.2	1193.2	1191.3
7.5°	1164.0	1164.0	1156.9	1160.8	1159.5	1161.5	1164.0	1161.5	1165.3	1167.9	1166.0
10°	1120.0	1120.0	1114.1	1118.7	1116.8	1121.3	1125.8	1123.2	1125.8	1129.7	1131.0
12.5°	1071.4	1068.8	1063.5	1065.5	1065.5	1068.1	1070.1	1073.3	1076.6	1081.8	1084.3
15°	1015.0	1011.1	1004.6	1004.6	1000.8	1002.1	1005.9	1007.2	1013.7	1020.8	1029.2
17.5°	957.3	947.5	940.5	932.0	925.5	930.7	935.3	938.5	943.6	954.7	960.6
20°	902.9	883.4	869.8	858.8	851.6	854.9	860.7	864.6	869.1	871.7	873.7
22.5°	849.0	827.0	808.2	794.6	783.0	786.1	783.6	781.7	784.8	776.5	775.8
25°	802.4	776.5	751.2	735.0	720.7	716.2	702.6	699.4	690.2	683.2	678.0
27.5°	768.7	735.0	707.1	688.3	665.6	648.7	631.3	613.8	604.1	592.4	586.5
30°	742.1	706.4	673.4	641.7	611.8	585.9	562.6	539.9	524.4	507.4	496.5
32.5°	717.5	684.5	644.3	600.8	560.7	531.4	501.0	475.1	450.4	428.4	412.2
35°	700.7	663.7	612.5	559.4	514.0	479.6	447.2	410.2	380.5	351.9	334.4
37.5°	691.5	646.1	583.4	524.4	473.8	434.9	394.7	351.9	315.6	289.0	262.5
40°	684.5	628.7	557.4	493.2	440.1	393.4	346.8	296.2	256.0	228.2	207.4
42.5°	676.7	609.2	534.7	468.6	409.6	355.2	298.8	245.0	206.8	187.3	178.2
45°	668.2	592.4	513.3	445.3	379.8	313.7	248.8	199.0	176.3	169.8	169.8
47.5°	666.2	581.4	497.8	422.6	346.1	265.8	202.9	171.7	165.3	166.6	169.1
50°	674.1	578.1	484.2	396.0	301.4	215.2	171.7	161.4	162.7	166.6	170.4
52.5°	692.8	580.7	469.9	359.1	248.2	177.6	158.8	158.1	162.0	167.9	171.7
55°	724.7	580.7	442.7	304.0	198.3	159.4	154.2	156.8	162.0	167.3	170.4
57.5°	792.7	574.9	394.7	243.1	166.0	152.9	152.9	156.2	160.7	166.0	168.6
60°	873.7	567.1	327.4	188.0	149.7	147.8	152.3	156.2	160.1	164.7	167.3
62.5°	878.9	547.0	259.3	155.5	141.3	144.6	151.6	156.8	158.1	161.4	164.7
65°	807.5	477.0	206.1	139.3	137.4	142.6	149.7	153.6	154.2	155.5	158.8
67.5°	707.1	388.8	166.6	131.5	133.5	139.3	143.3	146.5	148.5	151.6	152.3
70°	580.7	312.4	142.6	123.8	125.8	132.2	135.4	138.7	142.6	146.5	144.6
72.5°	411.5	243.1	125.1	115.3	118.0	123.8	127.7	130.2	133.5	137.4	134.8
75°	175.0	169.8	108.3	104.4	108.3	112.1	116.0	119.9	123.2	125.1	125.1
77.5°	89.4	99.8	93.3	93.3	95.9	99.8	103.1	107.0	108.9	110.8	113.4
80°	75.8	77.1	78.4	81.0	83.6	87.5	90.7	94.0	94.6	95.3	96.6
82.5°	62.9	65.5	66.8	70.6	72.6	73.9	75.8	75.8	77.1	77.1	75.2
85°	45.4	48.7	50.5	51.2	50.5	51.2	51.8	53.1	56.4	56.4	53.8
87.5°	12.9	12.3	15.5	16.2	17.5	20.1	22.7	27.3	28.6	29.8	29.8
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):

	165°	170°	175°	180°
0°	1225.6	1225.6	1225.6	1225.6
2.5°	1209.4	1210.7	1208.1	1208.8
5°	1191.3	1193.9	1190.6	1194.5
7.5°	1167.9	1171.8	1171.2	1170.5
10°	1134.2	1139.4	1139.4	1141.4
12.5°	1091.4	1094.7	1097.3	1098.6
15°	1033.8	1039.6	1042.8	1042.8
17.5°	964.4	968.3	970.2	967.6
20°	876.3	875.0	875.6	869.1
22.5°	774.5	776.5	770.6	771.9
25°	674.7	671.4	674.1	670.1
27.5°	578.1	578.8	571.6	574.9
30°	486.1	482.9	473.8	478.3
32.5°	397.3	388.8	379.2	373.3
35°	313.7	300.7	296.2	294.2
37.5°	246.3	232.0	227.5	222.3
40°	195.7	190.5	188.7	189.9
42.5°	175.6	175.6	176.9	177.6
45°	170.4	172.4	174.3	175.0
47.5°	171.1	173.0	175.6	176.3
50°	172.4	174.3	176.3	176.9
52.5°	173.0	173.0	174.3	175.0
55°	171.7	171.1	171.7	172.4
57.5°	169.1	167.9	168.6	170.4
60°	167.9	166.0	167.3	168.6
62.5°	164.7	164.0	165.3	166.0
65°	157.5	158.1	160.1	160.1
67.5°	151.0	151.6	152.3	152.9
70°	143.3	143.9	145.2	145.9
72.5°	134.1	136.7	138.7	141.3
75°	127.1	129.6	133.5	136.1
77.5°	114.7	116.7	121.2	124.5
80°	97.2	96.6	97.2	99.2
82.5°	74.5	74.5	73.9	73.2
85°	52.5	51.8	49.9	49.9
87.5°	28.6	27.9	27.3	26.0
90°	0.0	0.0	0.0	0.0

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