

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: P180942

Luminaire Tested: **ICS-F03-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180942
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: ICS-F03-LED-E1-SL4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6014.3 lumens
Efficiency: N/A
Efficacy: 76.8 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 (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

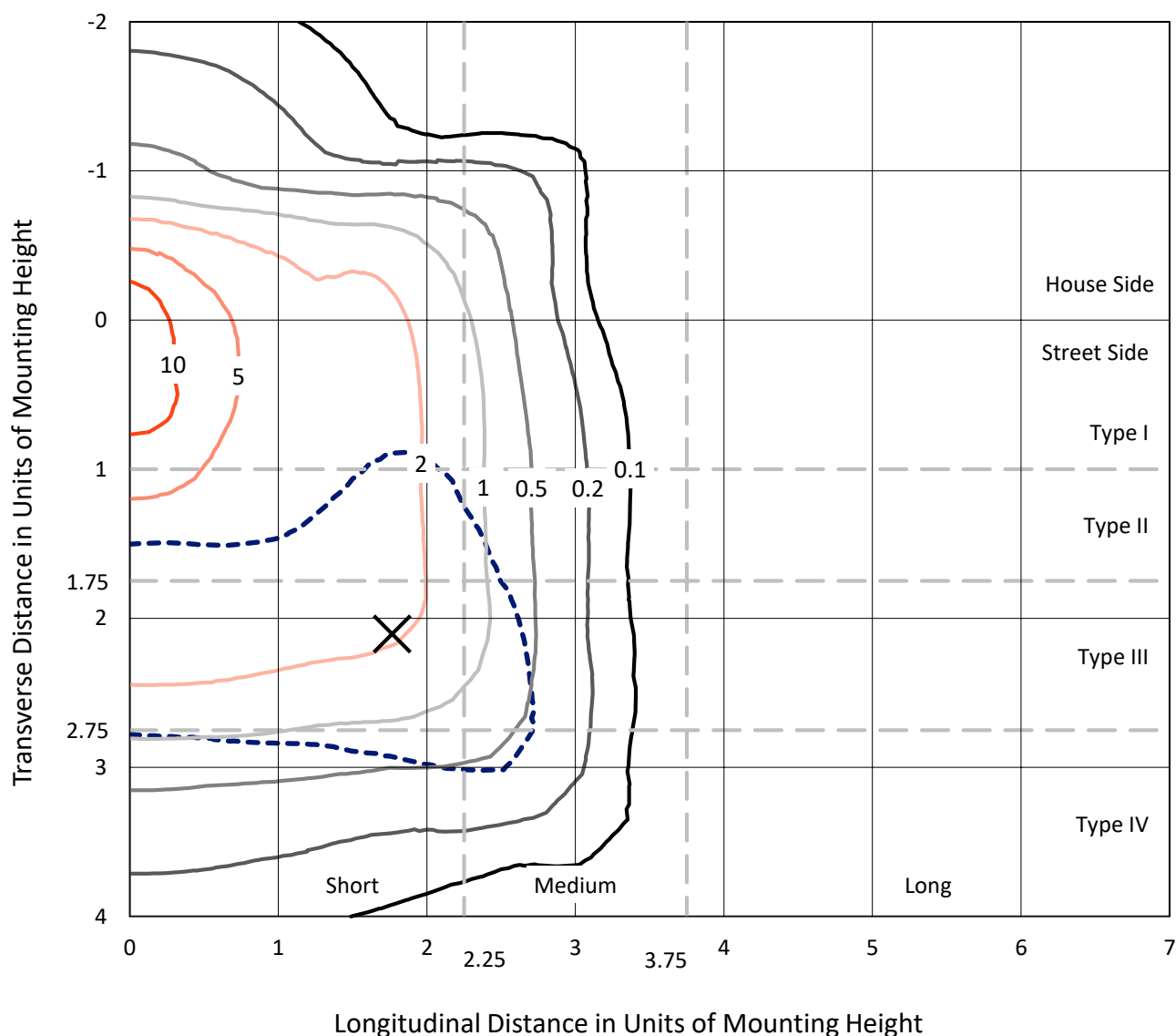


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

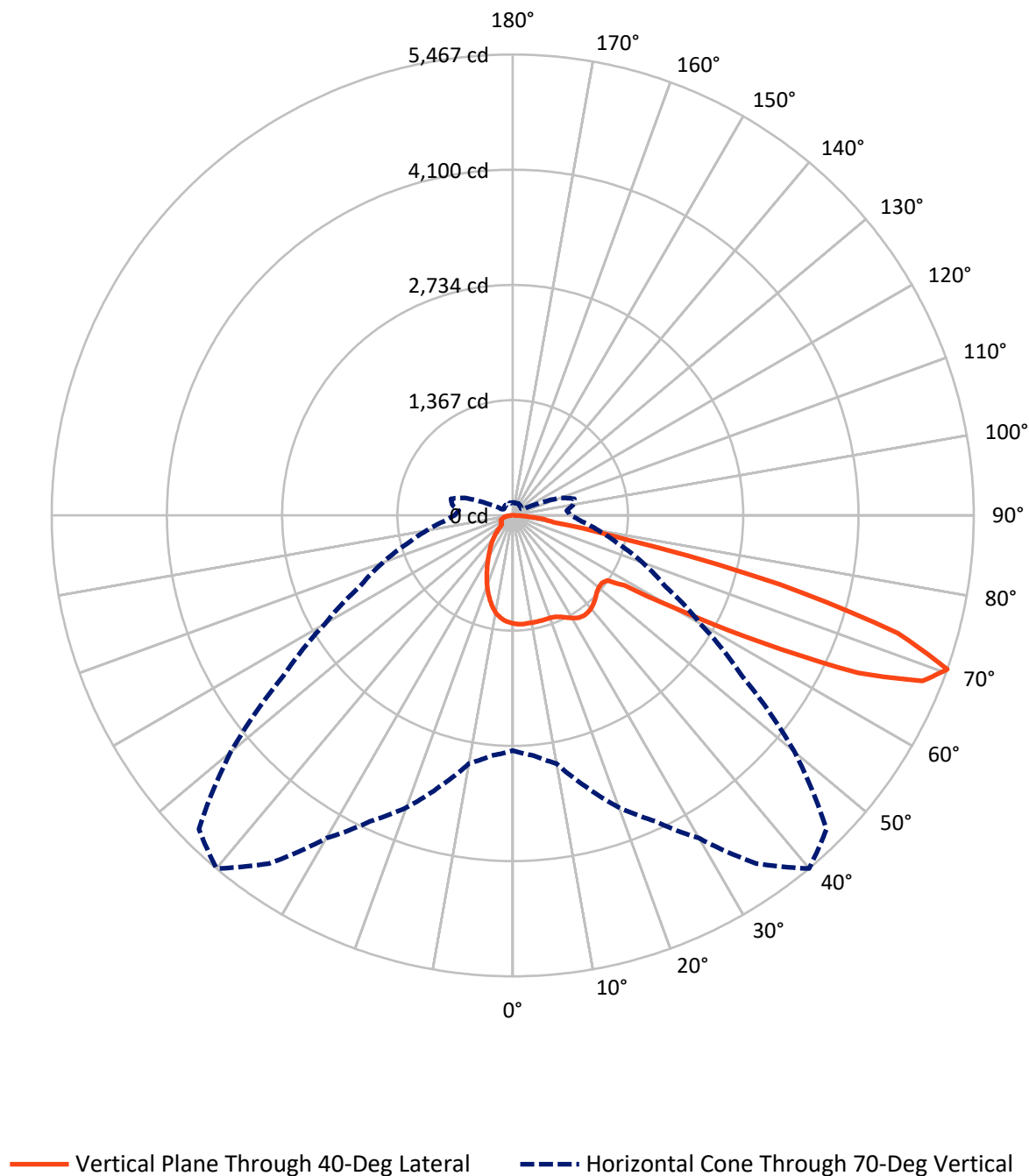


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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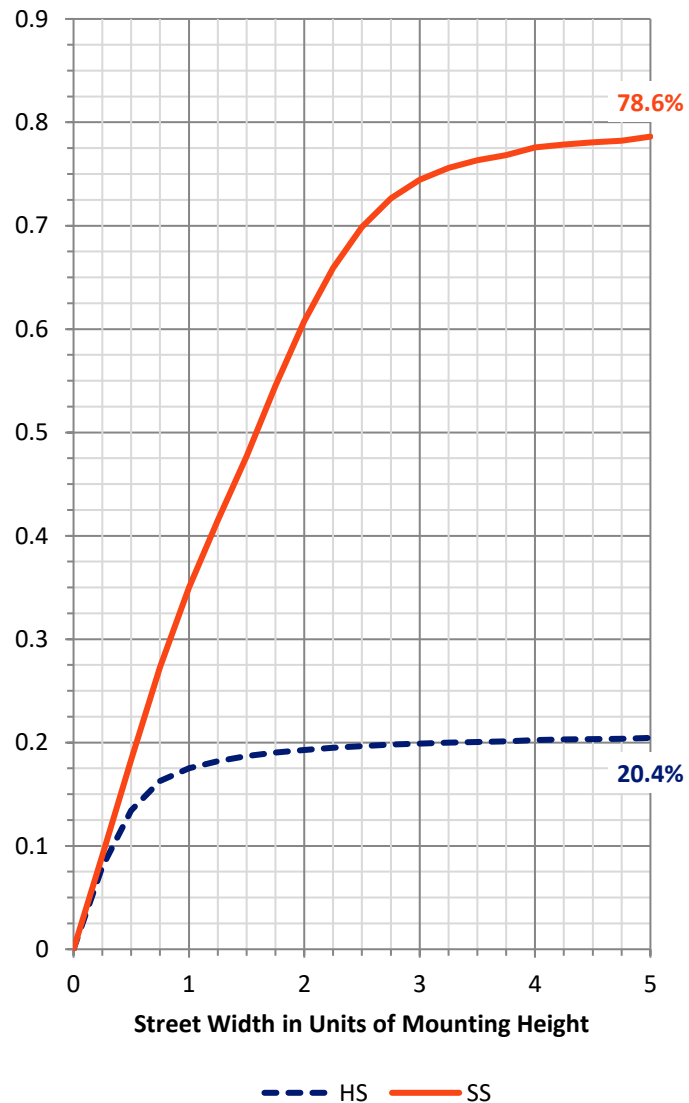
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.5	0.0	1248.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4765.8	0.0	4765.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	6014.3	0.0	6014.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	2.0
10°-20°	328.2	5.5
20°-30°	485.8	8.1
30°-40°	614.0	10.2
40°-50°	694.4	11.5
50°-60°	988.1	16.4
60°-70°	1840.3	30.6
70°-80°	843.4	14.0
80°-90°	100.1	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°	6014.3	100.0
0°-180°	6014.3	100.0

Coefficient of Utilization



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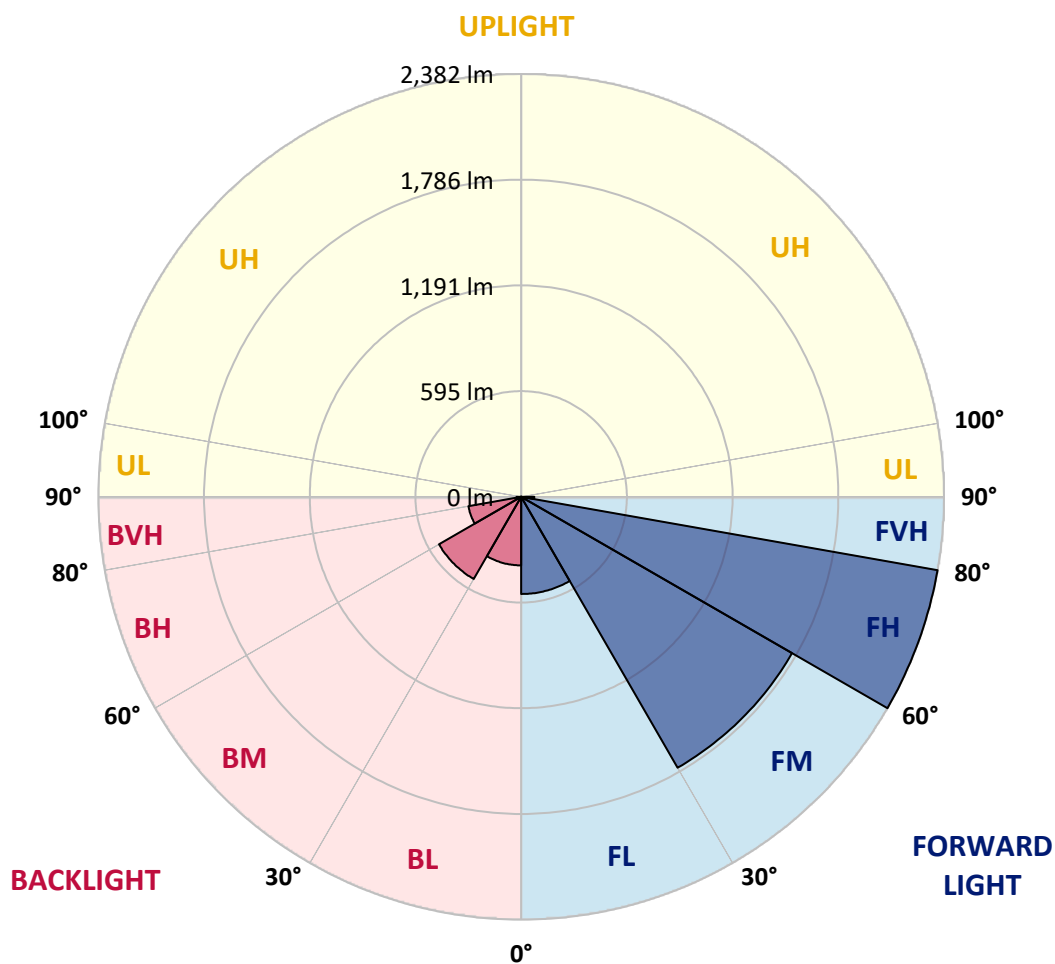
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.6	9.1			
FM	(30°-60°)	1762.0	29.3			
FH	(60°-80°)	2381.9	39.6			G2/5000
FVH	(80°-90°)	74.3	1.2			G1/100
BL	(0°-30°)	386.3	6.4	B1/500		
BM	(30°-60°)	534.5	8.9	B1/1000		
BH	(60°-80°)	301.8	5.0	B1/500		G1/500
BVH	(80°-90°)	25.9	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°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1303.0	1306.4	1302.3	1301.6	1301.6	1300.9	1296.9	1296.2	1290.8	1291.4	1292.8
5°	1312.5	1313.8	1311.1	1310.4	1309.1	1306.4	1303.0	1298.9	1294.8	1290.8	1287.4
7.5°	1322.0	1320.6	1318.6	1318.6	1316.5	1312.5	1305.7	1300.3	1291.4	1286.7	1280.6
10°	1335.5	1333.5	1330.8	1329.4	1326.0	1319.9	1310.4	1303.0	1292.1	1282.6	1272.4
12.5°	1348.4	1347.8	1343.7	1341.7	1336.2	1330.1	1318.6	1307.0	1292.8	1277.9	1264.3
15°	1371.5	1368.8	1364.7	1360.7	1351.8	1343.7	1326.0	1312.5	1292.1	1272.4	1251.4
17.5°	1411.6	1406.8	1402.7	1393.9	1383.1	1368.8	1343.0	1319.9	1292.1	1263.6	1239.9
20°	1484.8	1474.7	1469.2	1457.7	1438.7	1412.9	1372.9	1335.5	1294.1	1257.5	1225.6
22.5°	1567.6	1560.9	1553.4	1545.9	1516.1	1478.7	1424.4	1368.8	1306.4	1254.8	1214.1
25°	1660.6	1651.8	1647.7	1634.8	1607.0	1564.2	1490.3	1412.9	1334.2	1265.6	1214.1
27.5°	1743.4	1740.7	1740.0	1725.1	1698.6	1648.4	1560.9	1467.9	1372.2	1288.0	1224.3
30°	1818.7	1816.0	1814.7	1806.5	1776.0	1716.3	1621.2	1516.7	1413.6	1319.3	1243.3
32.5°	1898.8	1890.0	1885.9	1870.3	1835.7	1765.8	1657.2	1548.6	1446.2	1349.8	1264.3
35°	1964.0	1956.5	1948.3	1926.0	1877.1	1794.3	1672.8	1559.5	1459.1	1366.8	1275.1
37.5°	2011.5	2004.0	1992.5	1964.0	1903.6	1803.8	1672.1	1556.1	1454.3	1364.0	1277.2
40°	2032.5	2025.0	2012.8	1976.9	1908.3	1798.4	1659.3	1540.5	1440.1	1349.8	1269.0
42.5°	2024.4	2018.9	2003.3	1968.7	1893.4	1773.9	1633.5	1511.3	1412.9	1326.7	1250.7
45°	1993.1	1989.1	1974.1	1937.5	1859.4	1734.6	1595.5	1474.7	1380.3	1298.2	1226.3
47.5°	1946.3	1945.0	1930.0	1894.1	1816.7	1695.2	1556.1	1438.7	1347.8	1270.4	1205.9
50°	1894.7	1888.0	1880.5	1847.2	1776.7	1661.3	1527.6	1416.3	1329.4	1260.2	1197.1
52.5°	1862.2	1860.1	1853.3	1823.5	1755.6	1641.6	1514.7	1408.2	1328.1	1258.2	1192.4
55°	2151.3	2156.0	2093.6	1964.0	1849.9	1695.9	1553.4	1449.6	1361.3	1290.8	1242.6
57.5°	3182.1	3161.1	3053.8	2796.6	2506.2	2122.8	1846.6	1678.9	1569.7	1581.9	1606.3
60°	3707.4	3703.3	3683.6	3583.9	3390.4	3098.6	2774.9	2403.7	2285.6	2298.5	2308.0
62.5°	3942.2	3948.3	3963.2	3925.9	3875.0	3790.2	3628.6	3479.3	3321.2	3262.2	3104.1
65°	4050.7	4061.6	4095.5	4116.6	4136.3	4151.2	4215.0	4390.1	4505.4	4289.6	3787.4
67.5°	3826.1	3878.4	3990.4	4099.6	4197.3	4336.5	4552.3	4958.8	5241.7	4976.4	4248.2
70°	2789.2	2860.4	2988.7	3326.6	3687.7	4003.2	4421.3	5040.2	5467.1	5262.1	4362.2
72.5°	1748.8	1768.5	1825.5	1949.7	2217.8	2622.9	3353.8	4282.2	4774.8	4611.3	3687.0
75°	1109.6	1116.3	1114.3	1142.8	1188.3	1276.5	1565.6	2529.3	3271.0	3015.8	2054.9
77.5°	661.0	671.2	675.2	684.1	705.8	737.0	760.7	860.5	1371.5	1331.5	745.8
80°	553.8	561.9	555.1	553.1	539.5	530.0	541.5	530.0	492.0	473.7	436.4
82.5°	293.2	292.5	290.5	310.1	350.2	381.4	405.1	399.7	361.7	308.1	261.3
85°	160.8	166.3	166.3	173.1	166.9	167.6	173.1	182.6	169.0	141.2	115.4
87.5°	13.6	21.0	17.0	21.0	28.5	20.4	19.7	19.7	17.0	12.2	10.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1289.4	1288.0	1285.3	1283.3	1283.3	1279.9	1277.9	1276.5	1275.8	1273.1	1273.1
5°	1285.3	1280.6	1275.8	1272.4	1270.4	1267.0	1261.6	1258.9	1255.5	1252.8	1251.4
7.5°	1276.5	1267.7	1260.2	1254.8	1248.0	1242.6	1235.8	1229.7	1223.6	1220.9	1219.5
10°	1262.9	1251.4	1239.9	1229.7	1220.2	1210.7	1201.9	1193.0	1185.6	1180.1	1174.7
12.5°	1250.0	1232.4	1217.5	1202.5	1187.6	1176.1	1163.9	1151.0	1140.1	1129.9	1127.2
15°	1232.4	1212.0	1193.0	1174.7	1156.4	1137.4	1122.5	1108.2	1090.6	1079.0	1070.2
17.5°	1216.1	1191.7	1168.6	1146.9	1124.5	1104.8	1082.4	1063.4	1045.8	1028.1	1015.2
20°	1198.5	1172.0	1147.6	1123.1	1098.7	1073.6	1047.8	1023.4	1001.7	980.6	959.6
22.5°	1182.9	1155.7	1132.0	1105.5	1078.3	1049.8	1020.0	989.4	964.3	937.2	912.8
25°	1173.4	1143.5	1119.1	1093.3	1063.4	1032.2	998.3	962.3	931.8	900.5	871.4
27.5°	1173.4	1134.7	1109.6	1083.8	1053.2	1020.0	982.7	943.3	908.7	874.1	838.1
30°	1183.5	1136.0	1102.1	1075.0	1043.7	1007.8	966.4	925.0	887.0	846.3	811.6
32.5°	1193.0	1138.7	1096.7	1062.1	1026.1	990.8	948.7	904.6	862.5	823.9	787.2
35°	1199.1	1138.7	1086.5	1042.4	1001.7	967.0	925.7	881.5	838.8	800.8	766.9
37.5°	1199.8	1133.3	1070.2	1020.0	977.2	941.3	901.9	860.5	819.8	784.5	756.0
40°	1193.0	1122.5	1053.9	996.2	951.4	914.8	878.8	841.5	804.9	775.7	751.2
42.5°	1180.8	1110.9	1038.3	977.2	930.4	892.4	859.1	827.3	795.4	770.2	749.9
45°	1162.5	1095.3	1024.1	965.7	919.5	879.5	846.9	820.5	793.3	772.3	751.9
47.5°	1146.2	1089.9	1028.8	973.2	925.0	883.6	850.3	827.9	806.9	792.6	764.8
50°	1142.8	1087.2	1030.8	979.3	930.4	888.3	859.1	847.6	841.5	832.7	789.9
52.5°	1133.3	1086.5	1045.8	1017.3	986.1	966.4	935.8	946.7	939.9	908.7	831.3
55°	1233.1	1246.6	1284.6	1338.9	1389.2	1400.7	1397.3	1384.4	1315.9	1132.0	931.1
57.5°	1695.2	1771.9	1843.8	1875.7	1871.7	1835.7	1809.9	1757.7	1658.6	1434.6	1127.9
60°	2337.2	2349.4	2311.4	2255.1	2160.1	2080.7	1995.9	1898.1	1754.3	1535.1	1248.7
62.5°	2928.3	2764.1	2595.1	2436.3	2291.7	2165.5	2047.4	1911.0	1723.7	1495.0	1233.1
65°	3345.7	2998.2	2731.5	2503.5	2299.2	2122.8	1975.5	1798.4	1587.3	1381.0	1142.8
67.5°	3560.8	3028.1	2618.8	2301.2	2011.5	1767.2	1571.0	1398.7	1241.9	1151.6	1000.3
70°	3320.5	2570.0	1999.9	1640.9	1294.1	1037.6	819.8	688.1	642.7	728.2	757.4
72.5°	2474.3	1672.8	1189.6	920.2	705.1	561.9	430.9	338.6	275.5	289.1	375.3
75°	1170.0	722.1	510.3	388.2	308.8	255.8	209.0	191.4	160.2	133.0	124.9
77.5°	455.4	331.9	274.2	200.9	142.5	114.7	97.7	94.3	96.4	93.7	92.3
80°	346.8	234.8	147.3	107.9	93.0	82.1	72.6	69.9	71.3	74.6	78.0
82.5°	193.4	120.8	89.6	78.0	69.9	59.7	54.3	50.2	50.9	55.0	62.4
85°	74.6	58.4	53.6	51.6	48.2	38.7	33.3	33.9	38.7	46.1	46.1
87.5°	8.1	8.1	10.9	8.1	8.1	8.1	7.5	8.8	9.5	12.2	14.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3	1283.3
2.5°	1271.8	1271.8	1271.8	1270.4	1271.1	1268.4	1268.4	1266.3	1269.7	1267.7	1267.0
5°	1252.1	1251.4	1248.7	1248.7	1248.7	1248.7	1250.7	1245.3	1249.4	1249.4	1247.3
7.5°	1218.8	1218.8	1211.4	1215.4	1214.1	1216.1	1218.8	1216.1	1220.2	1222.9	1220.9
10°	1172.7	1172.7	1166.6	1171.3	1169.3	1174.0	1178.8	1176.1	1178.8	1182.9	1184.2
12.5°	1121.8	1119.1	1113.6	1115.7	1115.7	1118.4	1120.4	1123.8	1127.2	1132.6	1135.3
15°	1062.7	1058.7	1051.9	1051.9	1047.8	1049.2	1053.2	1054.6	1061.4	1068.8	1077.7
17.5°	1002.3	992.2	984.7	975.9	969.1	974.5	979.3	982.7	988.1	999.6	1005.7
20°	945.3	925.0	910.7	899.2	891.7	895.1	901.2	905.3	910.0	912.8	914.8
22.5°	889.0	865.9	846.3	832.0	819.8	823.2	820.5	818.4	821.8	813.0	812.3
25°	840.1	813.0	786.5	769.6	754.6	749.9	735.6	732.2	722.7	715.3	709.8
27.5°	804.9	769.6	740.4	720.7	697.0	679.3	661.0	642.7	632.5	620.3	614.2
30°	777.0	739.7	705.1	671.8	640.6	613.5	589.1	565.3	549.0	531.4	519.8
32.5°	751.2	716.6	674.6	629.1	587.0	556.5	524.6	497.4	471.6	448.6	431.6
35°	733.6	694.9	641.3	585.7	538.2	502.2	468.3	429.6	398.4	368.5	350.2
37.5°	724.1	676.6	610.8	549.0	496.1	455.4	413.3	368.5	330.5	302.7	274.8
40°	716.6	658.3	583.6	516.4	460.8	411.9	363.1	310.1	268.1	238.9	217.2
42.5°	708.5	637.9	559.9	490.7	428.9	371.9	312.8	256.5	216.5	196.1	186.6
45°	699.7	620.3	537.5	466.2	397.7	328.5	260.6	208.3	184.6	177.8	177.8
47.5°	697.6	608.7	521.2	442.5	362.4	278.2	212.4	179.8	173.1	174.4	177.1
50°	705.8	605.3	506.9	414.6	315.6	225.3	179.8	169.0	170.3	174.4	178.5
52.5°	725.5	608.1	492.0	376.0	259.9	185.9	166.3	165.6	169.7	175.8	179.8
55°	758.7	608.1	463.5	318.3	207.7	166.9	161.5	164.2	169.7	175.1	178.5
57.5°	830.0	601.9	413.3	254.5	173.7	160.2	160.2	163.6	168.3	173.7	176.4
60°	914.8	593.8	342.7	196.8	156.8	154.7	159.5	163.6	167.6	172.4	175.1
62.5°	920.2	572.8	271.5	162.9	147.9	151.3	158.8	164.2	165.6	169.0	172.4
65°	845.6	499.5	215.8	145.9	143.9	149.3	156.8	160.8	161.5	162.9	166.3
67.5°	740.4	407.2	174.4	137.8	139.8	145.9	150.0	153.4	155.4	158.8	159.5
70°	608.1	327.1	149.3	129.6	131.7	138.4	141.8	145.2	149.3	153.4	151.3
72.5°	430.9	254.5	131.0	120.8	123.5	129.6	133.7	136.4	139.8	143.9	141.2
75°	183.2	177.8	113.3	109.3	113.3	117.4	121.5	125.5	128.9	131.0	131.0
77.5°	93.7	104.5	97.7	97.7	100.4	104.5	107.9	112.0	114.0	116.0	118.8
80°	79.4	80.8	82.1	84.8	87.5	91.6	95.0	98.4	99.1	99.8	101.1
82.5°	65.8	68.5	69.9	74.0	76.0	77.4	79.4	79.4	80.8	80.8	78.7
85°	47.5	50.9	52.9	53.6	52.9	53.6	54.3	55.6	59.0	59.0	56.3
87.5°	13.6	12.9	16.3	17.0	18.3	21.0	23.8	28.5	29.9	31.2	31.2
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°	1283.3	1283.3	1283.3	1283.3
2.5°	1266.3	1267.7	1265.0	1265.6
5°	1247.3	1250.0	1246.6	1250.7
7.5°	1222.9	1227.0	1226.3	1225.6
10°	1187.6	1193.0	1193.0	1195.1
12.5°	1142.8	1146.2	1148.9	1150.3
15°	1082.4	1088.5	1091.9	1091.9
17.5°	1009.8	1013.9	1015.9	1013.2
20°	917.5	916.2	916.8	910.0
22.5°	811.0	813.0	806.9	808.2
25°	706.5	703.1	705.8	701.7
27.5°	605.3	606.0	598.6	601.9
30°	509.0	505.6	496.1	500.8
32.5°	416.0	407.2	397.0	390.9
35°	328.5	314.9	310.1	308.1
37.5°	257.9	242.9	238.2	232.8
40°	204.9	199.5	197.5	198.8
42.5°	183.9	183.9	185.3	185.9
45°	178.5	180.5	182.6	183.2
47.5°	179.2	181.2	183.9	184.6
50°	180.5	182.6	184.6	185.3
52.5°	181.2	181.2	182.6	183.2
55°	179.8	179.2	179.8	180.5
57.5°	177.1	175.8	176.4	178.5
60°	175.8	173.7	175.1	176.4
62.5°	172.4	171.7	173.1	173.7
65°	164.9	165.6	167.6	167.6
67.5°	158.1	158.8	159.5	160.2
70°	150.0	150.7	152.0	152.7
72.5°	140.5	143.2	145.2	147.9
75°	133.0	135.7	139.8	142.5
77.5°	120.1	122.2	126.9	130.3
80°	101.8	101.1	101.8	103.8
82.5°	78.0	78.0	77.4	76.7
85°	55.0	54.3	52.3	52.3
87.5°	29.9	29.2	28.5	27.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)