

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: P152151

Luminaire Tested: **VXS-E02-LED-E1-SL4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152151
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: VXS-E02-LED-E1-SL4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6062.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

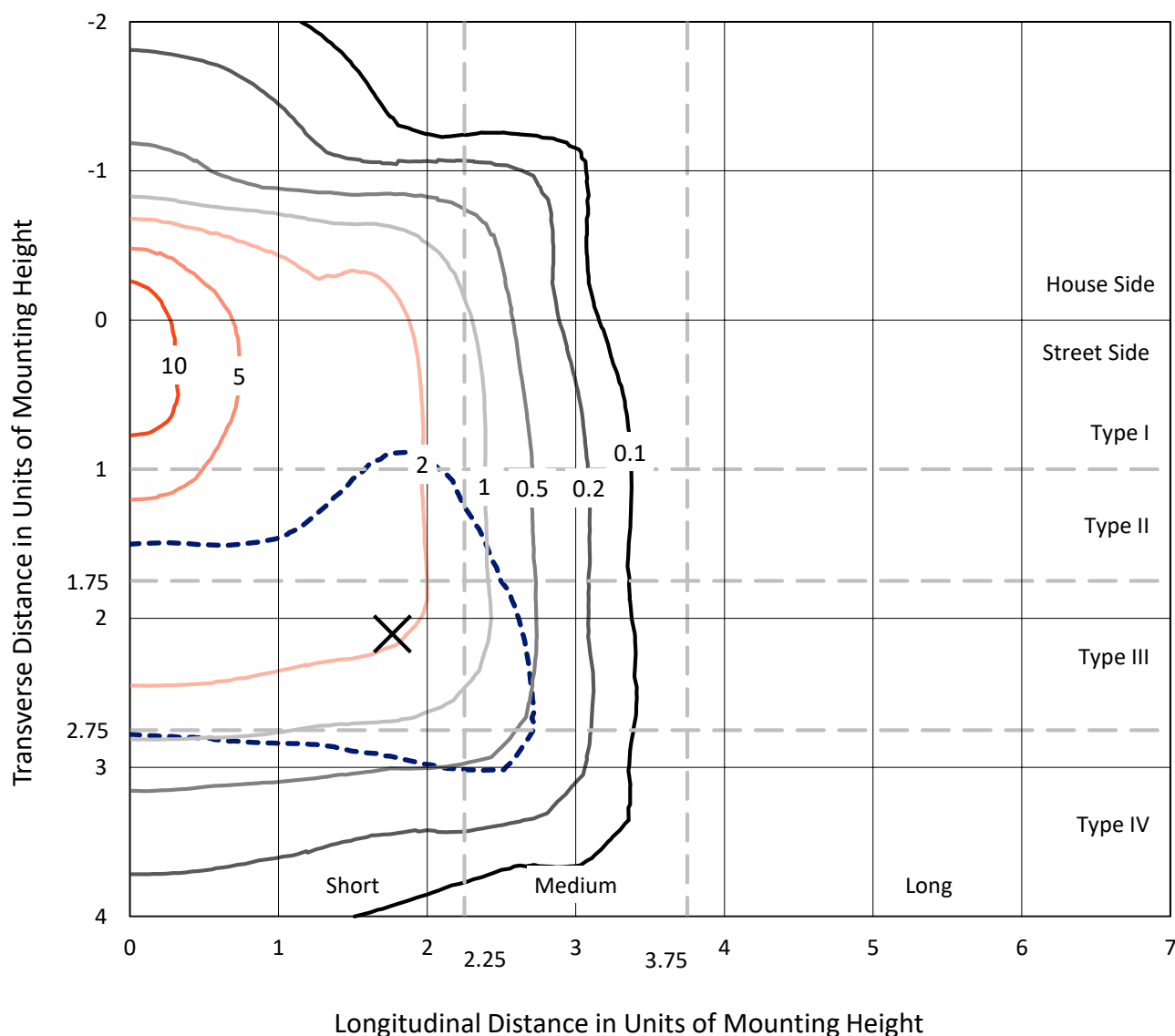


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

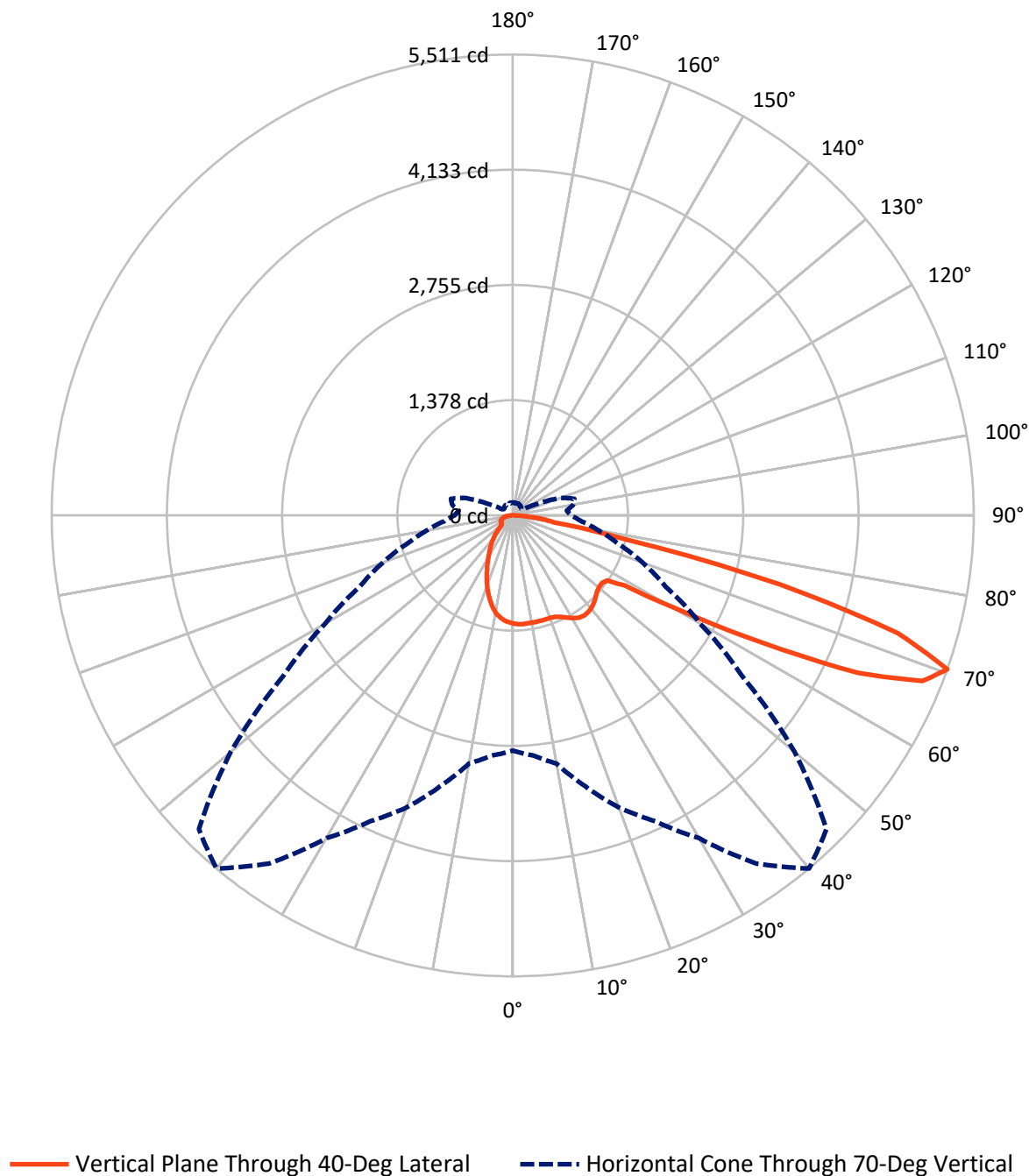


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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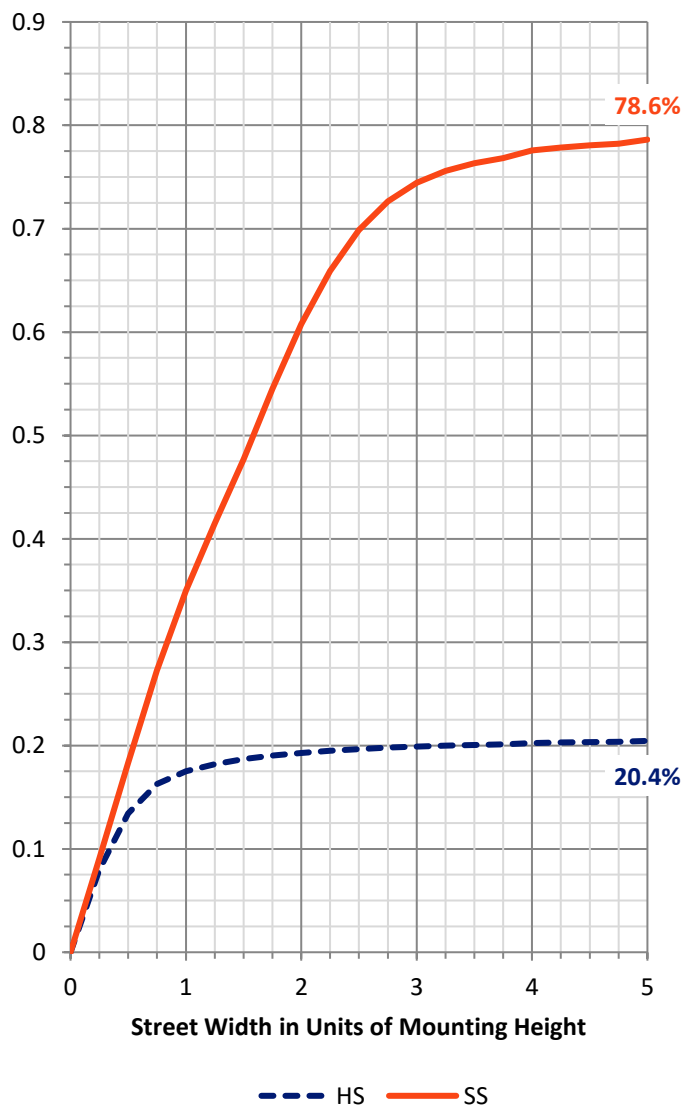
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1258.5	0.0	1258.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4804.0	0.0	4804.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	6062.5	0.0	6062.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	2.0
10°-20°	330.8	5.5
20°-30°	489.7	8.1
30°-40°	618.9	10.2
40°-50°	700.0	11.5
50°-60°	996.0	16.4
60°-70°	1855.0	30.6
70°-80°	850.2	14.0
80°-90°	100.9	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°	6062.5	100.0
0°-180°	6062.5	100.0

Coefficient of Utilization



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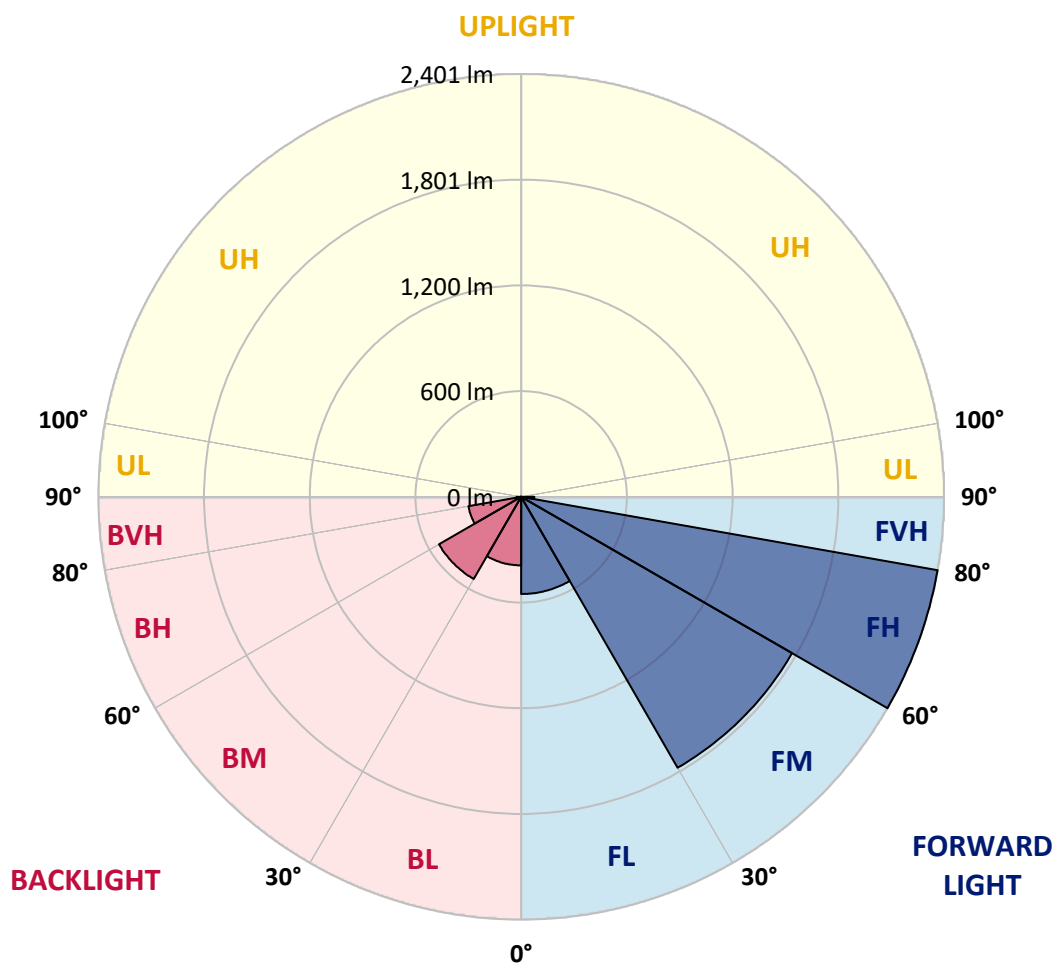
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.0	9.1			
FM	(30°-60°)	1776.1	29.3			
FH	(60°-80°)	2401.0	39.6			G2/5000
FVH	(80°-90°)	74.9	1.2			G1/100
BL	(0°-30°)	389.4	6.4	B1/500		
BM	(30°-60°)	538.8	8.9	B1/1000		
BH	(60°-80°)	304.2	5.0	B1/500		G1/500
BVH	(80°-90°)	26.1	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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1313.4	1316.8	1312.7	1312.0	1312.0	1311.4	1307.3	1306.5	1301.1	1301.8	1303.1
5°	1323.0	1324.4	1321.7	1320.9	1319.6	1316.8	1313.4	1309.3	1305.2	1301.1	1297.7
7.5°	1332.5	1331.2	1329.1	1329.1	1327.0	1323.0	1316.2	1310.7	1301.8	1297.0	1290.9
10°	1346.2	1344.2	1341.5	1340.1	1336.7	1330.5	1320.9	1313.4	1302.5	1292.8	1282.6
12.5°	1359.3	1358.5	1354.5	1352.4	1346.9	1340.8	1329.1	1317.5	1303.1	1288.1	1274.4
15°	1382.5	1379.8	1375.6	1371.6	1362.7	1354.5	1336.7	1323.0	1302.5	1282.6	1261.5
17.5°	1422.9	1418.0	1414.0	1405.1	1394.1	1379.8	1353.8	1330.5	1302.5	1273.8	1249.8
20°	1496.8	1486.5	1481.0	1469.4	1450.3	1424.2	1383.8	1346.2	1304.6	1267.6	1235.4
22.5°	1580.2	1573.4	1565.8	1558.3	1528.2	1490.6	1435.9	1379.8	1316.8	1264.9	1223.8
25°	1673.9	1665.1	1660.9	1647.9	1619.9	1576.8	1502.2	1424.2	1344.9	1275.8	1223.8
27.5°	1757.4	1754.6	1754.0	1738.9	1712.2	1661.7	1573.4	1479.7	1383.2	1298.3	1234.1
30°	1833.3	1830.6	1829.2	1821.0	1790.3	1730.1	1634.2	1528.9	1424.9	1329.8	1253.3
32.5°	1914.0	1905.2	1901.0	1885.3	1850.4	1780.0	1670.5	1561.0	1457.7	1360.6	1274.4
35°	1979.7	1972.1	1963.9	1941.3	1892.1	1808.7	1686.2	1572.0	1470.8	1377.7	1285.4
37.5°	2027.6	2020.1	2008.4	1979.7	1918.9	1818.2	1685.6	1568.6	1466.0	1375.0	1287.5
40°	2048.8	2041.2	2028.9	1992.7	1923.6	1812.7	1672.5	1552.8	1451.6	1360.6	1279.2
42.5°	2040.6	2035.1	2019.4	1984.5	1908.6	1788.2	1646.5	1523.4	1424.2	1337.3	1260.7
45°	2009.1	2005.0	1989.9	1953.1	1874.4	1748.5	1608.3	1486.5	1391.4	1308.6	1236.2
47.5°	1961.9	1960.5	1945.5	1909.2	1831.3	1708.8	1568.6	1450.3	1358.5	1280.6	1215.5
50°	1909.9	1903.1	1895.5	1862.1	1790.9	1674.6	1539.8	1427.7	1340.1	1270.4	1206.7
52.5°	1877.1	1875.0	1868.2	1838.1	1769.7	1654.7	1526.8	1419.5	1338.8	1268.3	1201.9
55°	2168.5	2173.3	2110.4	1979.7	1864.8	1709.5	1565.8	1461.1	1372.2	1301.1	1252.5
57.5°	3207.6	3186.4	3078.3	2819.1	2526.3	2139.8	1861.3	1692.4	1582.3	1594.6	1619.2
60°	3737.1	3733.0	3713.2	3612.5	3417.6	3123.4	2797.2	2423.0	2303.9	2317.0	2326.5
62.5°	3973.8	3979.9	3994.9	3957.3	3906.0	3820.5	3657.7	3507.3	3347.9	3288.3	3128.9
65°	4083.2	4094.2	4128.4	4149.5	4169.4	4184.5	4248.8	4425.3	4541.6	4324.0	3817.8
67.5°	3856.8	3909.4	4022.4	4132.4	4231.0	4371.2	4588.7	4998.5	5283.7	5016.3	4282.3
70°	2811.5	2883.3	3012.6	3353.3	3717.2	4035.3	4456.7	5080.6	5510.9	5304.2	4397.2
72.5°	1762.8	1782.7	1840.1	1965.3	2235.5	2643.9	3380.7	4316.5	4813.2	4648.3	3716.6
75°	1118.4	1125.3	1123.2	1152.0	1197.8	1286.7	1578.1	2549.5	3297.2	3040.0	2071.4
77.5°	666.3	676.6	680.6	689.5	711.4	742.9	766.8	867.4	1382.5	1342.2	751.8
80°	558.2	566.4	559.6	557.5	543.8	534.3	545.9	534.3	496.0	477.5	439.9
82.5°	295.5	294.8	292.7	312.6	353.0	384.5	408.4	402.9	364.6	310.6	263.3
85°	162.2	167.6	167.6	174.4	168.3	169.0	174.4	184.0	170.4	142.3	116.3
87.5°	13.7	21.2	17.1	21.2	28.7	20.5	19.8	19.8	17.1	12.3	11.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1299.7	1298.3	1295.6	1293.6	1293.6	1290.2	1288.1	1286.7	1286.0	1283.3	1283.3
5°	1295.6	1290.9	1286.0	1282.6	1280.6	1277.2	1271.7	1268.9	1265.5	1262.8	1261.5
7.5°	1286.7	1277.8	1270.4	1264.9	1258.0	1252.5	1245.7	1239.6	1233.4	1230.7	1229.2
10°	1273.1	1261.5	1249.8	1239.6	1229.9	1220.4	1211.5	1202.6	1195.0	1189.6	1184.1
12.5°	1260.1	1242.3	1227.3	1212.1	1197.1	1185.5	1173.2	1160.2	1149.2	1139.0	1136.3
15°	1242.3	1221.8	1202.6	1184.1	1165.7	1146.5	1131.5	1117.1	1099.3	1087.7	1078.8
17.5°	1225.8	1201.2	1177.9	1156.1	1133.5	1113.7	1091.1	1071.9	1054.2	1036.4	1023.4
20°	1208.1	1181.3	1156.8	1132.1	1107.5	1082.2	1056.2	1031.6	1009.6	988.5	967.3
22.5°	1192.3	1165.0	1141.0	1114.3	1086.9	1058.2	1028.2	997.4	972.0	944.7	920.1
25°	1182.8	1152.6	1128.1	1102.1	1071.9	1040.5	1006.2	970.1	939.3	907.8	878.3
27.5°	1182.8	1143.7	1118.4	1092.4	1061.7	1028.2	990.6	950.9	916.0	881.0	844.9
30°	1193.1	1145.2	1110.9	1083.5	1052.1	1015.9	974.1	932.4	894.1	853.1	818.1
32.5°	1202.6	1147.9	1105.5	1070.6	1034.3	998.8	956.4	911.9	869.4	830.5	793.5
35°	1208.7	1147.9	1095.2	1050.8	1009.6	974.8	933.1	888.6	845.5	807.3	773.0
37.5°	1209.4	1142.4	1078.8	1028.2	985.1	948.8	909.1	867.4	826.3	790.8	762.1
40°	1202.6	1131.5	1062.4	1004.2	959.1	922.2	885.9	848.3	811.3	781.9	757.3
42.5°	1190.3	1119.8	1046.6	985.1	937.8	899.6	866.0	833.9	801.8	776.4	755.9
45°	1171.8	1104.0	1032.2	973.5	926.9	886.5	853.7	827.0	799.7	778.4	757.9
47.5°	1155.4	1098.7	1037.1	980.9	932.4	890.7	857.1	834.6	813.4	799.0	771.0
50°	1152.0	1095.9	1039.1	987.2	937.8	895.4	866.0	854.4	848.3	839.4	796.3
52.5°	1142.4	1095.2	1054.2	1025.4	994.0	974.1	943.3	954.3	947.5	916.0	838.0
55°	1243.0	1256.7	1294.9	1349.6	1400.3	1411.9	1408.5	1395.5	1326.4	1141.0	938.5
57.5°	1708.8	1786.1	1858.7	1890.8	1886.6	1850.4	1824.5	1771.7	1671.9	1446.1	1136.9
60°	2356.0	2368.3	2329.9	2273.2	2177.4	2097.4	2011.8	1913.4	1768.3	1547.4	1258.7
62.5°	2951.8	2786.2	2615.9	2455.9	2310.2	2182.9	2063.8	1926.3	1737.5	1507.0	1243.0
65°	3372.4	3022.2	2753.4	2523.5	2317.6	2139.8	1991.3	1812.7	1600.0	1392.1	1152.0
67.5°	3589.3	3052.3	2639.8	2319.7	2027.6	1781.3	1583.6	1409.8	1251.8	1160.8	1008.3
70°	3347.2	2590.6	2016.0	1654.1	1304.6	1045.9	826.3	693.7	647.8	734.0	763.4
72.5°	2494.1	1686.2	1199.2	927.6	710.8	566.4	434.4	341.3	277.7	291.4	378.3
75°	1179.4	727.9	514.4	391.3	311.3	257.9	210.7	193.0	161.5	134.1	125.9
77.5°	459.0	334.5	276.4	202.5	143.6	115.6	98.5	95.1	97.1	94.4	93.1
80°	349.5	236.7	148.4	108.8	93.7	82.8	73.2	70.5	71.8	75.2	78.7
82.5°	194.9	121.8	90.3	78.7	70.5	60.2	54.7	50.6	51.3	55.4	62.9
85°	75.2	58.9	54.1	52.0	48.6	39.0	33.5	34.2	39.0	46.5	46.5
87.5°	8.2	8.2	11.0	8.2	8.2	8.2	7.6	8.9	9.5	12.3	14.4
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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1282.0	1282.0	1282.0	1280.6	1281.2	1278.5	1278.5	1276.5	1279.9	1277.8	1277.2
5°	1262.1	1261.5	1258.7	1258.7	1258.7	1258.7	1260.7	1255.2	1259.4	1259.4	1257.3
7.5°	1228.6	1228.6	1221.0	1225.2	1223.8	1225.8	1228.6	1225.8	1229.9	1232.7	1230.7
10°	1182.1	1182.1	1176.0	1180.7	1178.7	1183.4	1188.2	1185.5	1188.2	1192.3	1193.7
12.5°	1130.8	1128.1	1122.6	1124.7	1124.7	1127.4	1129.4	1132.8	1136.3	1141.8	1144.5
15°	1071.3	1067.2	1060.3	1060.3	1056.2	1057.6	1061.7	1063.0	1069.8	1077.4	1086.3
17.5°	1010.4	1000.1	992.5	983.7	976.9	982.3	987.2	990.6	996.0	1007.7	1013.8
20°	953.0	932.4	918.0	906.4	898.9	902.3	908.4	912.5	917.3	920.1	922.2
22.5°	896.2	872.8	853.1	838.7	826.3	829.7	827.0	825.0	828.4	819.5	818.9
25°	846.8	819.5	792.8	775.8	760.7	755.9	741.6	738.1	728.5	721.0	715.5
27.5°	811.3	775.8	746.3	726.5	702.6	684.8	666.3	647.8	637.5	625.3	619.1
30°	783.2	745.6	710.8	677.2	645.8	618.4	593.8	569.8	553.4	535.6	524.0
32.5°	757.3	722.4	680.0	634.1	591.7	560.9	528.8	501.5	475.4	452.1	435.0
35°	739.5	700.5	646.4	590.4	542.5	506.2	472.0	433.1	401.6	371.4	353.0
37.5°	729.9	682.0	615.6	553.4	500.1	459.0	416.6	371.4	333.2	305.1	277.1
40°	722.4	663.5	588.3	520.6	464.5	415.2	366.0	312.6	270.3	240.8	218.9
42.5°	714.2	643.0	564.4	494.6	432.3	374.9	315.3	258.5	218.2	197.7	188.1
45°	705.3	625.3	541.8	469.9	400.8	331.1	262.7	210.1	186.1	179.3	179.3
47.5°	703.2	613.6	525.4	446.0	365.3	280.5	214.1	181.2	174.4	175.9	178.5
50°	711.4	610.2	511.0	417.9	318.1	227.2	181.2	170.4	171.7	175.9	179.9
52.5°	731.3	613.0	496.0	379.0	262.0	187.5	167.6	166.9	171.0	177.2	181.2
55°	764.8	613.0	467.3	320.8	209.3	168.3	162.8	165.6	171.0	176.5	179.9
57.5°	836.6	606.7	416.6	256.5	175.1	161.5	161.5	164.9	169.6	175.1	177.8
60°	922.2	598.5	345.5	198.3	158.0	156.0	160.7	164.9	169.0	173.8	176.5
62.5°	927.6	577.3	273.7	164.1	149.1	152.5	160.1	165.6	166.9	170.4	173.8
65°	852.3	503.5	217.5	147.0	145.0	150.5	158.0	162.2	162.8	164.1	167.6
67.5°	746.3	410.5	175.9	138.9	140.9	147.0	151.2	154.6	156.7	160.1	160.7
70°	613.0	329.7	150.5	130.7	132.7	139.6	143.0	146.4	150.5	154.6	152.5
72.5°	434.4	256.5	132.0	121.8	124.5	130.7	134.7	137.5	140.9	145.0	142.3
75°	184.7	179.3	114.2	110.2	114.2	118.3	122.5	126.5	129.9	132.0	132.0
77.5°	94.4	105.4	98.5	98.5	101.2	105.4	108.8	112.8	114.9	117.0	119.7
80°	80.0	81.5	82.8	85.5	88.3	92.3	95.8	99.2	99.9	100.5	102.0
82.5°	66.3	69.1	70.5	74.6	76.6	78.0	80.0	80.0	81.5	81.5	79.4
85°	47.9	51.3	53.4	54.1	53.4	54.1	54.7	56.1	59.5	59.5	56.8
87.5°	13.7	13.0	16.4	17.1	18.4	21.2	23.9	28.7	30.1	31.5	31.5
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°	1293.6	1293.6	1293.6	1293.6
2.5°	1276.5	1277.8	1275.1	1275.8
5°	1257.3	1260.1	1256.7	1260.7
7.5°	1232.7	1236.8	1236.2	1235.4
10°	1197.1	1202.6	1202.6	1204.7
12.5°	1152.0	1155.4	1158.1	1159.5
15°	1091.1	1097.2	1100.6	1100.6
17.5°	1017.9	1022.0	1024.0	1021.3
20°	924.9	923.5	924.1	917.3
22.5°	817.5	819.5	813.4	814.7
25°	712.1	708.7	711.4	707.4
27.5°	610.2	610.9	603.3	606.7
30°	513.1	509.6	500.1	504.9
32.5°	419.4	410.5	400.2	394.0
35°	331.1	317.4	312.6	310.6
37.5°	259.9	244.9	240.1	234.6
40°	206.6	201.1	199.1	200.4
42.5°	185.4	185.4	186.7	187.5
45°	179.9	182.0	184.0	184.7
47.5°	180.6	182.7	185.4	186.1
50°	182.0	184.0	186.1	186.7
52.5°	182.7	182.7	184.0	184.7
55°	181.2	180.6	181.2	182.0
57.5°	178.5	177.2	177.8	179.9
60°	177.2	175.1	176.5	177.8
62.5°	173.8	173.1	174.4	175.1
65°	166.2	166.9	169.0	169.0
67.5°	159.4	160.1	160.7	161.5
70°	151.2	151.8	153.3	153.9
72.5°	141.6	144.4	146.4	149.1
75°	134.1	136.8	140.9	143.6
77.5°	121.0	123.1	127.9	131.3
80°	102.6	102.0	102.6	104.7
82.5°	78.7	78.7	78.0	77.3
85°	55.4	54.7	52.6	52.6
87.5°	30.1	29.4	28.7	27.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)