

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: P156484

Luminaire Tested: **VXS-F04-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F04-LED-E1-T4-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9114.4 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

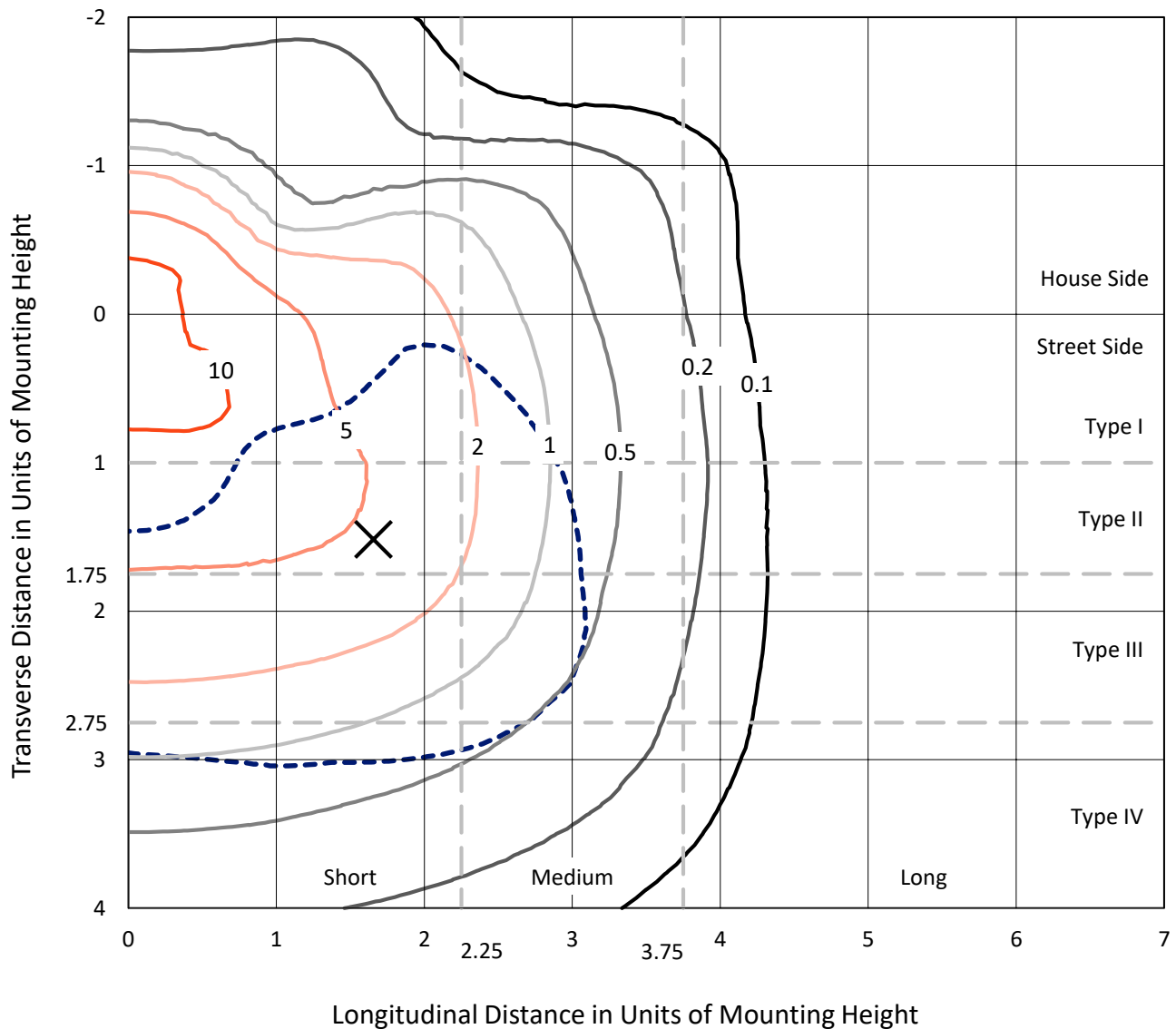


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

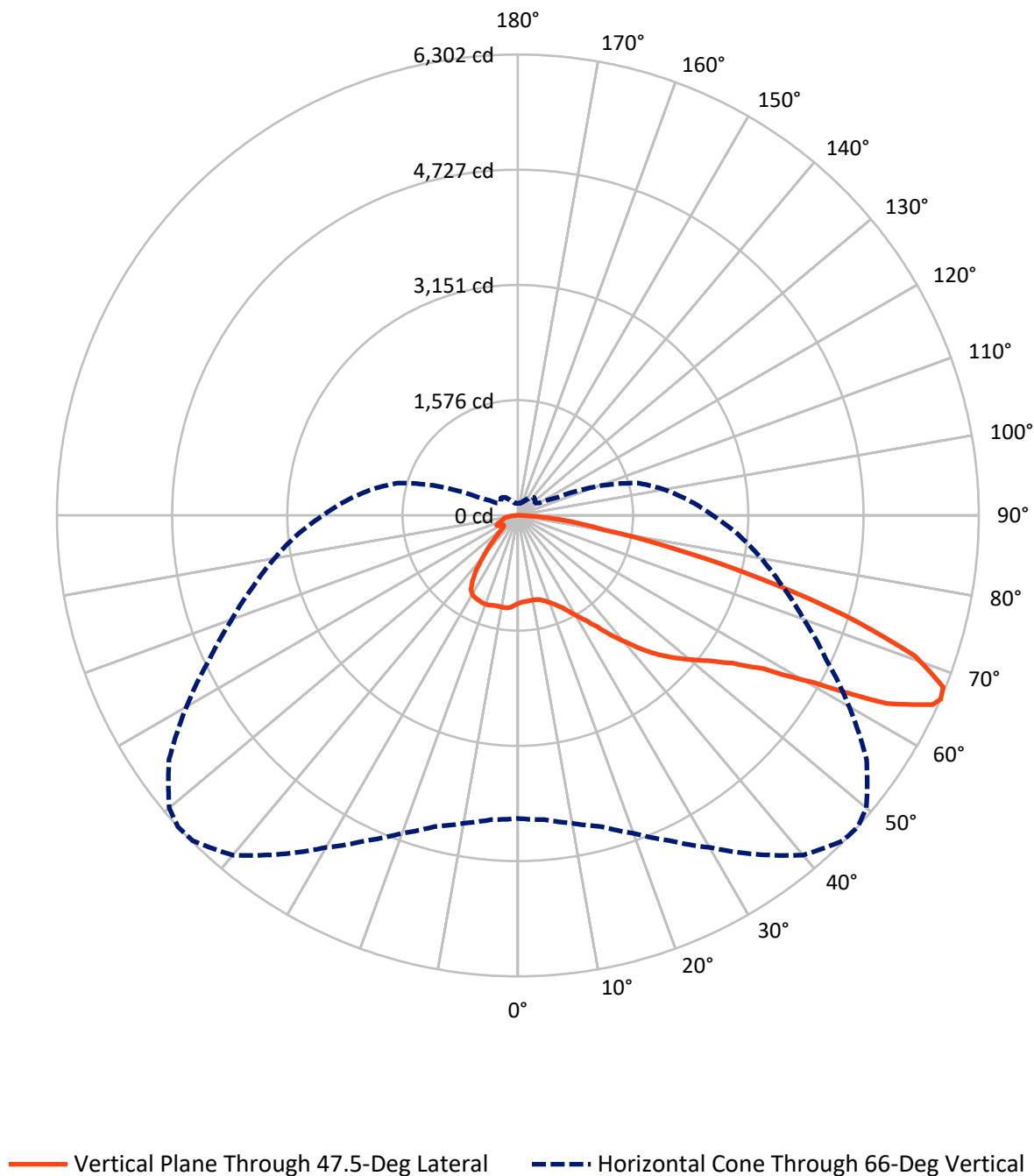


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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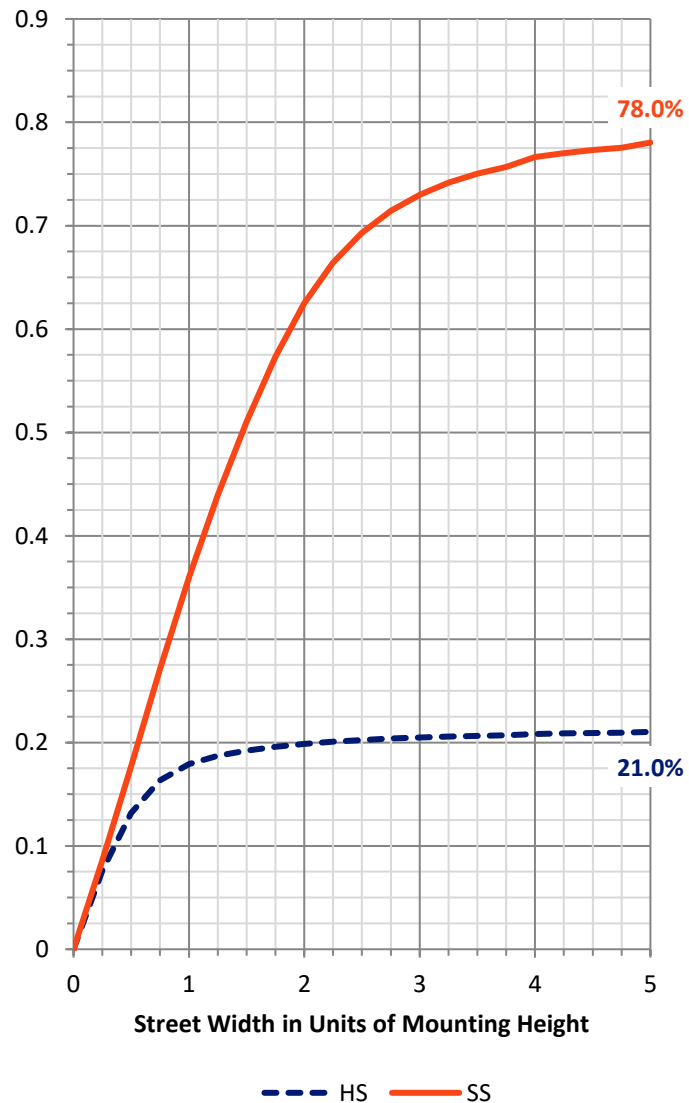
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1944.8	0.0	1944.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7169.6	0.0	7169.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	9114.4	0.0	9114.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	1.3
10°-20°	354.2	3.9
20°-30°	610.1	6.7
30°-40°	923.0	10.1
40°-50°	1196.3	13.1
50°-60°	1649.4	18.1
60°-70°	2562.6	28.1
70°-80°	1490.2	16.3
80°-90°	211.9	2.3
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°	9114.4	100.0
0°-180°	9114.4	100.0

Coefficient of Utilization



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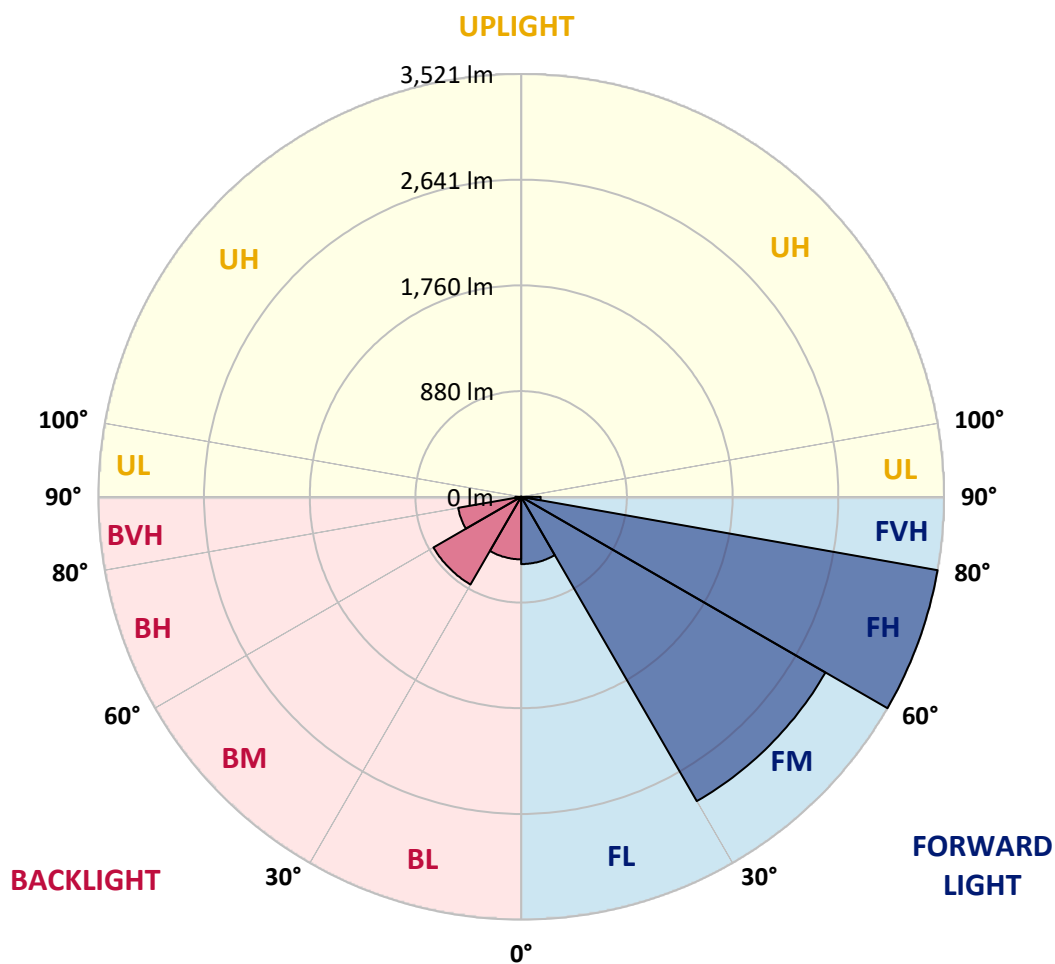
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.4	6.1			
FM	(30°-60°)	2925.7	32.1			
FH	(60°-80°)	3520.9	38.6			G2/5000
FVH	(80°-90°)	162.6	1.8			G2/225
BL	(0°-30°)	520.6	5.7	B2/1000		
BM	(30°-60°)	843.1	9.2	B1/1000		
BH	(60°-80°)	531.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	49.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3
2.5°	1179.3	1183.3	1180.2	1181.2	1181.2	1182.3	1182.3	1183.3	1182.3	1185.3	1187.3
5°	1158.1	1160.1	1159.2	1161.1	1163.1	1167.2	1166.2	1171.2	1172.2	1175.2	1180.2
7.5°	1150.1	1148.1	1149.1	1152.1	1154.1	1156.2	1158.1	1162.2	1165.2	1172.2	1176.3
10°	1158.1	1157.1	1158.1	1160.1	1160.1	1161.1	1159.2	1163.1	1165.2	1171.2	1175.2
12.5°	1191.3	1191.3	1189.3	1189.3	1187.3	1185.3	1180.2	1177.2	1176.3	1177.2	1179.3
15°	1244.6	1242.6	1238.5	1235.5	1231.5	1224.5	1217.4	1211.4	1207.4	1201.3	1199.4
17.5°	1296.9	1293.9	1289.8	1285.8	1280.8	1273.8	1262.7	1255.6	1244.6	1237.5	1233.6
20°	1357.2	1351.2	1346.1	1341.1	1331.1	1329.0	1318.0	1305.9	1292.8	1276.8	1274.7
22.5°	1435.6	1425.6	1419.5	1416.5	1406.4	1403.4	1385.4	1368.3	1352.1	1331.1	1326.0
25°	1515.0	1505.0	1502.0	1497.9	1490.9	1486.8	1469.7	1450.7	1429.5	1400.4	1394.4
27.5°	1592.4	1593.5	1585.4	1588.4	1586.4	1579.4	1562.3	1543.2	1527.0	1493.0	1485.9
30°	1688.9	1682.9	1678.9	1685.0	1677.9	1678.9	1663.8	1653.8	1627.7	1607.6	1593.5
32.5°	1789.4	1788.5	1794.5	1798.5	1797.5	1795.5	1783.4	1773.4	1750.3	1721.1	1715.1
35°	1927.3	1933.3	1938.2	1956.4	1956.4	1969.4	1957.4	1945.3	1918.1	1883.0	1870.9
37.5°	2020.7	2022.7	2042.8	2066.9	2097.1	2125.3	2133.3	2136.3	2125.3	2099.1	2081.0
40°	2106.1	2110.2	2142.4	2179.6	2223.7	2279.1	2312.2	2327.4	2330.4	2318.2	2279.1
42.5°	2191.6	2197.6	2230.8	2285.1	2346.4	2416.8	2475.1	2512.3	2533.4	2533.4	2510.3
45°	2291.1	2299.2	2335.3	2394.7	2466.0	2554.5	2634.9	2706.3	2740.5	2742.5	2720.4
47.5°	2408.8	2415.8	2458.0	2518.3	2591.7	2681.2	2782.7	2864.1	2927.5	2931.5	2913.5
50°	2560.5	2570.6	2605.8	2660.1	2735.4	2826.0	2927.5	3041.1	3107.5	3123.5	3104.5
52.5°	2761.7	2763.6	2792.7	2843.1	2916.5	3002.9	3110.5	3234.1	3321.6	3334.6	3303.5
55°	3039.1	3036.1	3055.2	3109.4	3164.8	3232.1	3343.7	3482.5	3580.0	3600.1	3567.9
57.5°	3416.1	3413.1	3429.1	3442.3	3545.8	3611.1	3720.7	3853.4	3947.9	4006.2	3950.9
60°	4000.2	3997.2	4023.3	4099.7	4177.1	4272.6	4379.2	4538.0	4670.8	4687.9	4633.6
62.5°	4423.4	4438.5	4495.9	4585.3	4742.1	4929.1	5124.1	5333.3	5605.7	5692.1	5666.0
65°	4275.6	4305.8	4385.2	4520.9	4730.1	4988.4	5294.0	5673.1	6038.0	6242.1	6236.1
66°	4142.9	4176.2	4273.7	4404.4	4625.5	4908.0	5241.8	5654.9	6063.1	6288.3	6302.4
67.5°	3901.7	3938.9	4034.4	4189.2	4404.4	4704.9	5063.8	5513.2	5974.6	6237.0	6274.2
70°	3432.2	3474.4	3543.7	3671.4	3883.5	4152.0	4529.9	4932.1	5415.6	5716.3	5761.6
72.5°	2869.2	2906.4	2983.8	3088.4	3262.3	3431.2	3727.8	4024.4	4370.2	4713.0	4679.8
75°	2059.9	2076.0	2122.3	2235.9	2329.3	2481.1	2719.4	2962.7	3199.0	3355.8	3377.9
77.5°	1070.7	1112.8	1178.2	1303.9	1405.5	1542.2	1697.0	1880.0	2052.8	2196.7	2157.4
80°	700.7	718.8	777.1	841.5	915.9	1003.3	1106.8	1175.2	1197.3	1188.3	1197.3
82.5°	404.1	437.3	514.7	563.9	619.3	649.4	731.9	810.3	854.5	799.3	779.2
85°	51.3	66.3	209.1	263.4	301.6	346.8	372.0	419.2	391.1	349.8	426.2
87.5°	11.1	10.1	14.1	30.2	31.2	26.1	49.2	52.2	32.1	16.1	20.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3
2.5°	1189.3	1190.3	1192.3	1195.3	1197.3	1199.4	1201.3	1204.4	1206.4	1208.4	1212.4
5°	1184.2	1188.3	1192.3	1196.4	1201.3	1209.4	1214.4	1218.4	1222.5	1230.5	1233.6
7.5°	1181.2	1188.3	1194.3	1201.3	1209.4	1216.5	1225.5	1230.5	1236.6	1241.6	1247.6
10°	1179.3	1189.3	1195.3	1205.4	1214.4	1221.5	1231.5	1237.5	1244.6	1250.7	1253.7
12.5°	1183.3	1188.3	1194.3	1204.4	1215.4	1225.5	1236.6	1241.6	1247.6	1252.6	1253.7
15°	1200.3	1200.3	1201.3	1209.4	1220.4	1228.5	1237.5	1242.6	1245.6	1248.6	1248.6
17.5°	1231.5	1224.5	1219.5	1220.4	1227.5	1232.5	1237.5	1237.5	1235.5	1234.5	1232.5
20°	1267.7	1258.7	1248.6	1241.6	1239.6	1235.5	1232.5	1222.5	1214.4	1207.4	1202.4
22.5°	1320.0	1305.9	1291.8	1278.8	1266.7	1251.6	1234.5	1214.4	1195.3	1182.3	1174.2
25°	1384.4	1373.3	1356.2	1336.1	1321.0	1292.8	1270.8	1241.6	1217.4	1200.3	1186.3
27.5°	1475.9	1462.8	1446.6	1428.6	1406.4	1375.2	1348.2	1314.0	1284.8	1259.7	1241.6
30°	1589.4	1572.3	1560.3	1538.1	1523.1	1487.9	1460.7	1418.5	1362.2	1322.0	1296.9
32.5°	1706.0	1686.9	1676.9	1659.8	1642.7	1621.6	1580.4	1515.0	1442.6	1377.3	1334.1
35°	1861.9	1841.8	1823.6	1808.6	1783.4	1744.2	1708.1	1629.6	1530.2	1438.7	1366.2
37.5°	2057.9	2024.8	1979.5	1941.2	1897.1	1840.7	1785.5	1705.1	1591.4	1472.8	1376.3
40°	2267.0	2208.7	2144.4	2073.0	1996.6	1915.1	1851.8	1770.4	1642.7	1502.0	1369.2
42.5°	2485.2	2392.6	2303.2	2202.7	2096.1	1999.6	1917.2	1827.7	1680.9	1509.9	1341.1
45°	2701.3	2597.7	2462.1	2330.4	2195.6	2076.0	1983.5	1883.0	1716.1	1513.1	1303.9
47.5°	2880.2	2773.7	2618.9	2454.0	2294.2	2158.4	2049.8	1941.2	1763.3	1534.1	1294.8
50°	3069.2	2939.6	2767.7	2572.6	2391.7	2239.9	2124.2	2011.6	1829.7	1588.4	1324.0
52.5°	3275.3	3126.5	2925.5	2707.4	2509.3	2339.4	2213.7	2098.1	1914.1	1664.8	1379.3
55°	3526.6	3344.8	3126.5	2880.2	2668.1	2480.1	2341.5	2204.7	2014.7	1755.3	1448.7
57.5°	3910.7	3687.6	3442.3	3161.8	2926.5	2704.4	2538.4	2380.6	2170.5	1890.1	1543.2
60°	4605.4	4367.2	4048.4	3708.6	3432.2	3172.8	2929.5	2733.5	2475.1	2155.4	1752.3
62.5°	5600.6	5283.9	4858.8	4383.2	4021.3	3647.4	3372.8	3081.3	2760.6	2415.8	1998.5
65°	6153.6	5769.5	5200.5	4648.6	4183.1	3777.0	3428.2	3090.4	2734.5	2404.8	2055.9
66°	6222.0	5821.9	5230.7	4649.6	4161.0	3743.8	3376.9	3027.0	2663.1	2348.4	2031.7
67.5°	6193.8	5784.7	5175.4	4562.2	4065.5	3617.2	3238.1	2875.2	2512.3	2218.8	1951.3
70°	5732.3	5344.4	4746.1	4152.0	3680.5	3238.1	2876.3	2519.4	2186.6	1935.2	1738.2
72.5°	4760.2	4428.5	3908.7	3442.3	3072.2	2707.4	2400.7	2059.9	1778.4	1592.4	1475.9
75°	3436.2	3235.1	2761.7	2494.2	2169.5	1927.3	1629.6	1427.6	1225.5	1135.0	1114.9
77.5°	2170.5	1900.1	1599.5	1317.0	1082.7	897.7	698.7	593.2	494.6	484.6	585.1
80°	1098.9	989.2	762.1	607.3	510.7	413.2	326.7	247.4	173.0	208.1	249.3
82.5°	719.8	600.2	470.5	387.0	336.8	279.5	217.1	150.8	110.6	124.7	170.9
85°	389.0	331.7	267.5	211.1	170.9	152.8	102.6	72.3	71.4	76.4	97.5
87.5°	28.2	28.2	22.1	20.1	24.1	20.1	18.1	18.1	17.1	18.1	24.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3	1201.3
2.5°	1214.4	1217.4	1218.4	1223.5	1226.5	1228.5	1230.5	1230.5	1231.5	1234.5	1235.5
5°	1237.5	1242.6	1248.6	1252.6	1254.6	1260.7	1262.7	1262.7	1264.7	1268.7	1271.7
7.5°	1251.6	1258.7	1264.7	1266.7	1270.8	1272.7	1275.8	1277.7	1277.7	1281.8	1283.8
10°	1256.7	1260.7	1266.7	1266.7	1270.8	1270.8	1273.8	1274.7	1274.7	1278.8	1281.8
12.5°	1256.7	1258.7	1263.7	1263.7	1266.7	1267.7	1271.7	1274.7	1275.8	1280.8	1284.8
15°	1250.7	1252.6	1256.7	1257.6	1264.7	1268.7	1277.7	1283.8	1283.8	1288.8	1290.9
17.5°	1233.6	1238.5	1246.6	1254.6	1267.7	1276.8	1287.8	1292.8	1288.8	1285.8	1282.8
20°	1205.4	1214.4	1233.6	1253.7	1276.8	1288.8	1294.8	1289.8	1275.8	1261.7	1252.6
22.5°	1177.2	1195.3	1227.5	1257.6	1283.8	1291.8	1288.8	1270.8	1247.6	1230.5	1218.4
25°	1190.3	1211.4	1242.6	1269.7	1286.8	1284.8	1272.7	1247.6	1222.5	1200.3	1180.2
27.5°	1244.6	1267.7	1284.8	1293.9	1291.8	1277.7	1258.7	1230.5	1200.3	1171.2	1143.0
30°	1295.9	1307.9	1311.9	1304.9	1288.8	1265.7	1241.6	1209.4	1169.2	1133.0	1100.8
32.5°	1319.0	1306.9	1287.8	1268.7	1242.6	1222.5	1189.3	1154.1	1103.8	1060.6	1028.5
35°	1319.0	1270.8	1222.5	1182.3	1143.0	1117.9	1079.7	1032.4	986.2	950.1	924.9
37.5°	1289.8	1197.3	1117.9	1052.5	1003.3	976.2	918.9	876.7	837.4	825.4	809.3
40°	1236.6	1099.8	985.2	899.8	837.4	797.2	739.9	710.8	695.6	689.6	686.6
42.5°	1165.2	991.3	838.4	732.8	665.5	620.3	582.1	563.9	563.0	562.0	562.0
45°	1088.8	874.6	695.6	570.1	510.7	470.5	452.4	445.4	451.4	450.4	451.4
47.5°	1041.6	786.1	565.0	431.3	386.0	359.9	350.9	353.9	358.9	356.9	356.9
50°	1035.4	740.9	477.5	335.8	301.6	288.5	286.5	286.5	289.5	287.6	286.5
52.5°	1057.6	733.9	432.3	288.5	261.3	250.4	248.3	247.4	246.3	240.3	235.2
55°	1095.9	749.9	419.2	276.5	248.3	236.3	233.3	231.2	227.3	219.2	210.2
57.5°	1172.2	800.2	431.3	282.5	252.3	242.3	239.3	239.3	231.2	218.1	205.1
60°	1356.2	927.9	480.5	305.6	271.4	261.3	263.4	262.4	250.4	231.2	211.1
62.5°	1593.5	1094.8	544.9	337.8	295.5	293.6	303.6	301.6	281.5	252.3	223.2
65°	1703.0	1173.3	563.0	344.9	300.6	309.6	329.7	327.8	302.6	262.4	225.2
66°	1705.1	1173.3	554.9	338.8	293.6	304.7	324.8	323.7	298.5	258.3	221.1
67.5°	1663.8	1141.0	531.8	326.7	279.5	287.6	305.6	304.7	281.5	248.3	213.2
70°	1509.0	1021.5	472.5	305.6	260.4	256.4	262.4	258.3	243.3	220.2	196.1
72.5°	1292.8	857.5	412.2	289.5	247.4	231.2	227.3	224.1	212.1	199.1	183.9
75°	1018.4	678.5	361.9	277.5	235.2	214.1	207.0	203.1	195.0	186.0	173.9
77.5°	628.3	485.6	315.6	261.3	226.2	205.1	200.1	194.0	182.0	170.9	161.9
80°	280.5	300.6	259.4	228.2	202.1	183.0	174.9	165.9	153.8	146.7	141.8
82.5°	186.9	194.0	188.0	170.9	152.8	137.7	125.7	125.7	123.6	117.6	115.6
85°	119.6	120.6	116.6	105.6	98.5	89.4	84.5	85.5	89.4	88.5	87.5
87.5°	27.2	27.2	32.1	30.2	35.2	37.2	40.2	43.2	49.2	49.2	52.2
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):

	160°	165°	170°	175°	180°
0°	1201.3	1201.3	1201.3	1201.3	1201.3
2.5°	1236.6	1238.5	1240.6	1237.5	1238.5
5°	1271.7	1270.8	1275.8	1272.7	1274.7
7.5°	1282.8	1283.8	1287.8	1287.8	1288.8
10°	1283.8	1285.8	1290.9	1293.9	1295.9
12.5°	1288.8	1292.8	1300.9	1302.9	1302.9
15°	1292.8	1294.8	1299.9	1301.9	1303.9
17.5°	1278.8	1274.7	1276.8	1277.7	1276.8
20°	1243.6	1239.6	1238.5	1234.5	1236.6
22.5°	1205.4	1194.3	1187.3	1179.3	1179.3
25°	1159.2	1142.1	1128.0	1113.9	1116.9
27.5°	1116.0	1093.8	1079.7	1070.7	1068.7
30°	1073.7	1050.6	1037.5	1026.4	1026.4
32.5°	1003.3	987.3	970.2	963.1	962.1
35°	905.8	895.8	881.7	878.7	873.7
37.5°	796.2	793.2	781.1	780.1	775.1
40°	681.7	683.6	679.6	677.6	674.6
42.5°	567.0	577.1	575.0	574.0	572.0
45°	457.4	464.5	465.5	468.5	473.5
47.5°	359.9	361.9	363.9	362.9	363.9
50°	281.5	276.5	275.4	272.4	275.4
52.5°	227.3	219.2	215.1	211.1	209.1
55°	200.1	192.0	188.0	186.0	183.9
57.5°	193.1	185.0	179.0	174.9	173.9
60°	195.0	183.0	174.9	169.9	168.9
62.5°	200.1	183.9	173.0	167.9	166.8
65°	199.1	182.0	171.9	165.9	164.9
66°	196.1	180.0	169.9	164.9	163.8
67.5°	191.0	176.9	167.9	163.8	161.9
70°	182.0	173.0	165.9	160.8	158.9
72.5°	173.9	166.8	160.8	155.9	154.8
75°	164.9	158.9	152.8	148.8	147.8
77.5°	153.8	147.8	143.7	140.7	139.7
80°	135.8	131.7	127.7	123.6	123.6
82.5°	112.6	109.5	105.6	102.6	101.6
85°	86.4	86.4	83.4	80.4	79.4
87.5°	51.3	50.3	50.3	47.3	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)