

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: P156471

Luminaire Tested: **VXS-E03-LED-E1-T4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156471
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-E03-LED-E1-T4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9302.8 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

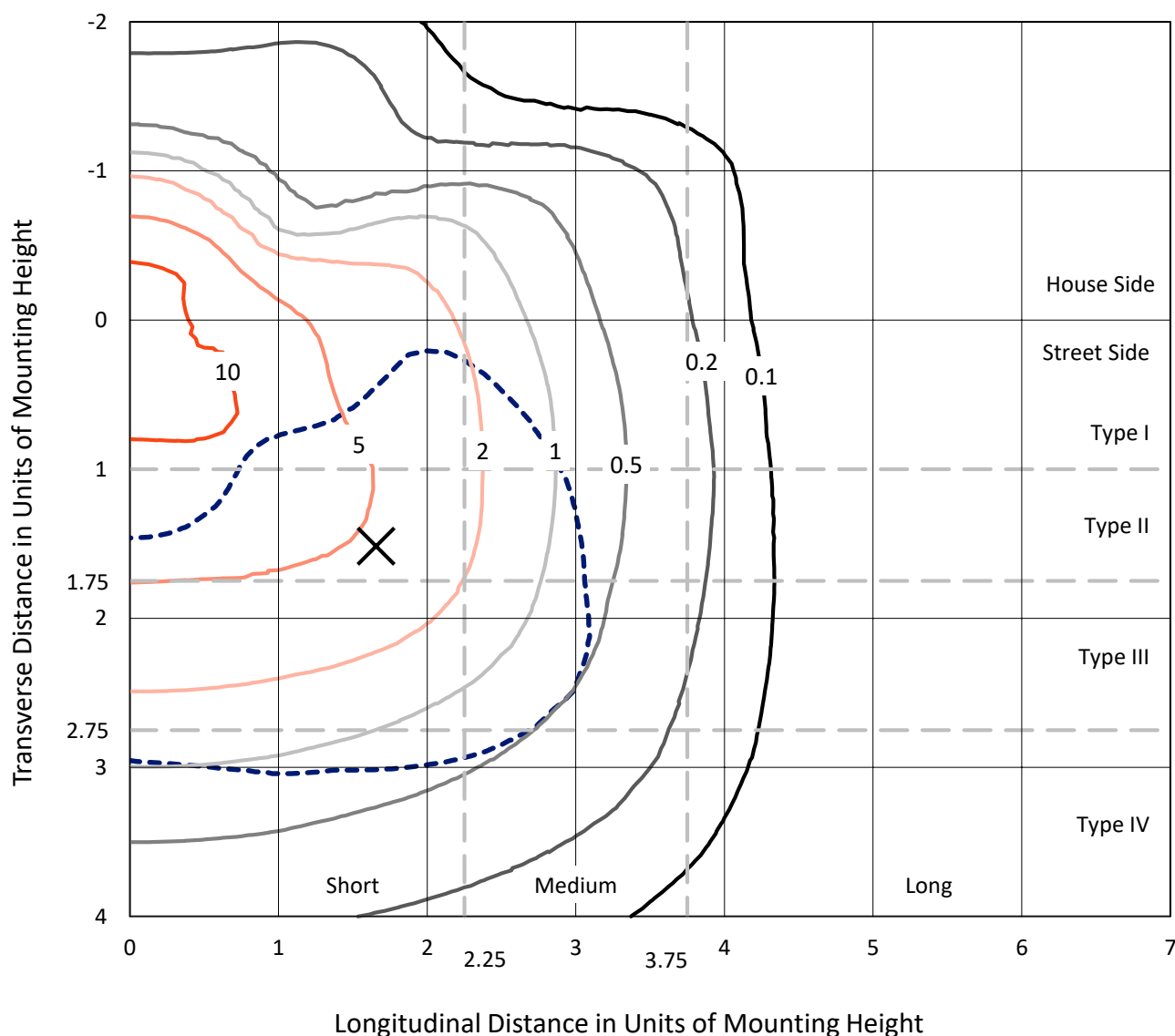


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

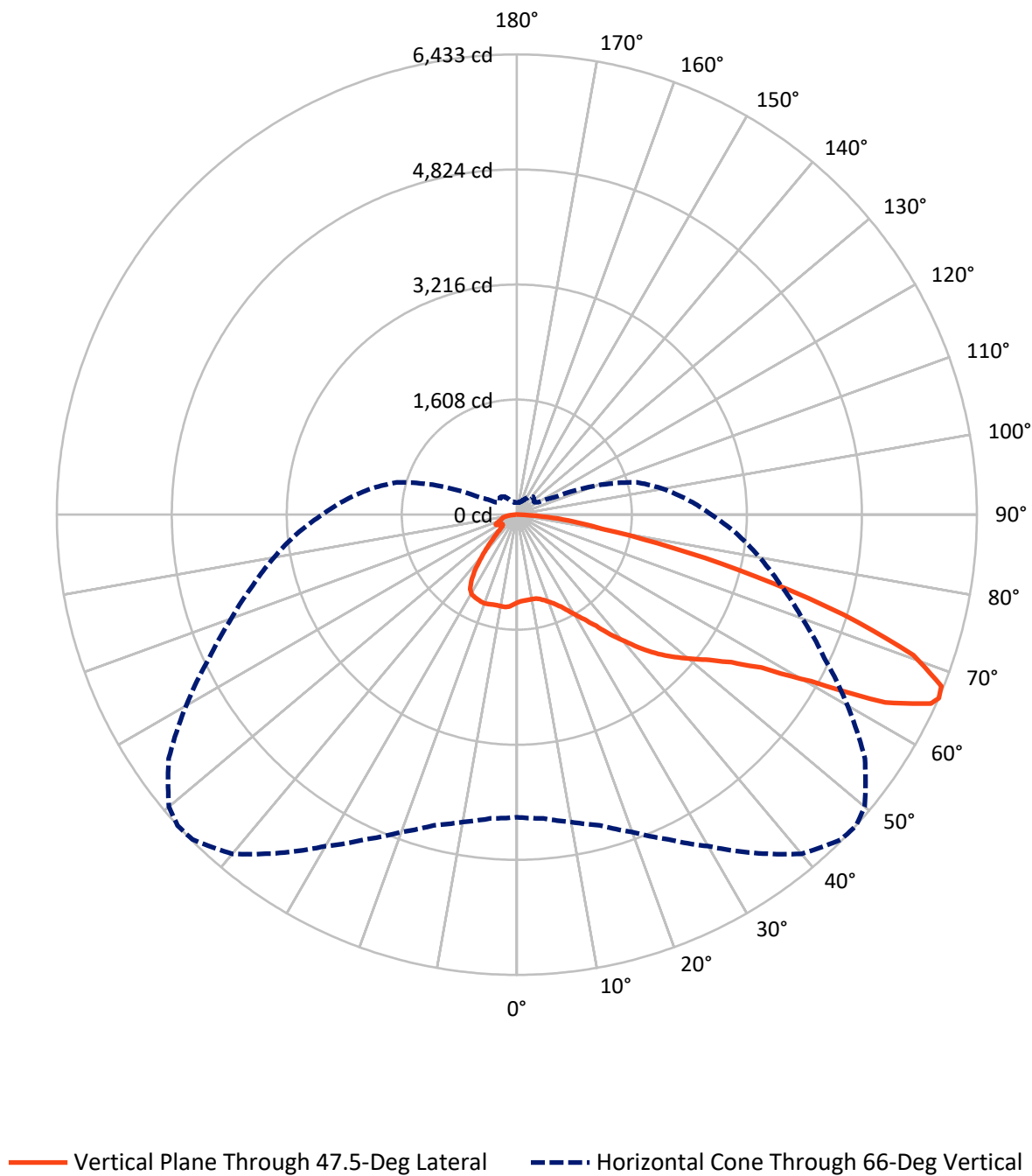


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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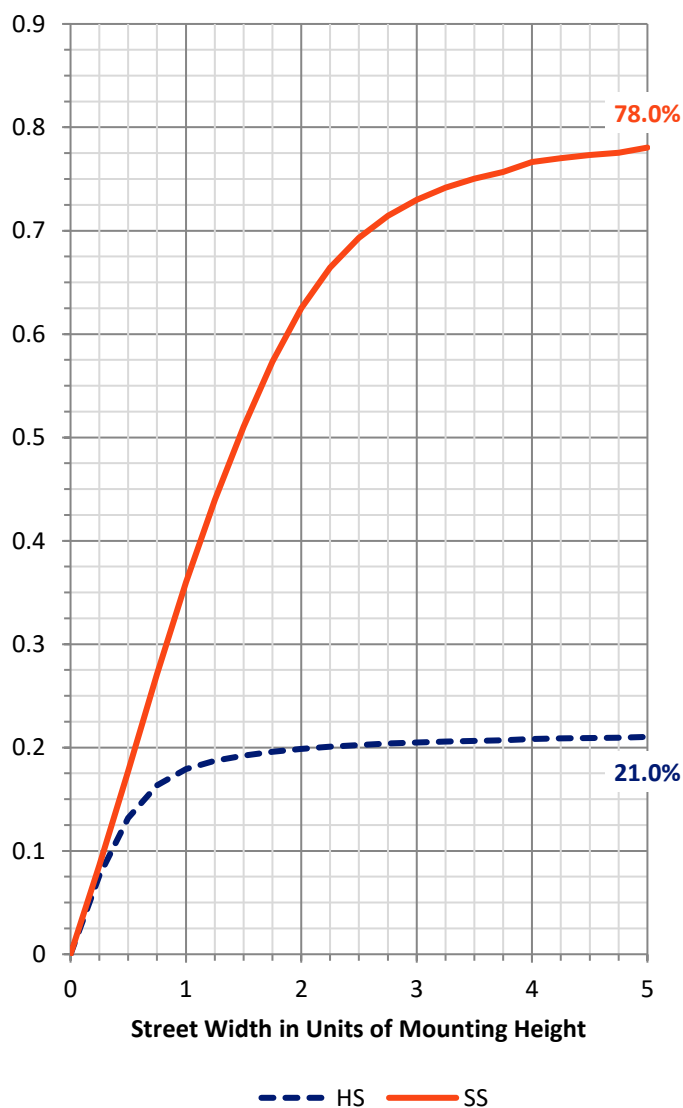
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1985.0	0.0	1985.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	7317.8	0.0	7317.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	9302.8	0.0	9302.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.3
10°-20°	361.5	3.9
20°-30°	622.7	6.7
30°-40°	942.1	10.1
40°-50°	1221.1	13.1
50°-60°	1683.5	18.1
60°-70°	2615.6	28.1
70°-80°	1521.0	16.3
80°-90°	216.3	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°	9302.8	100.0
0°-180°	9302.8	100.0

Coefficient of Utilization



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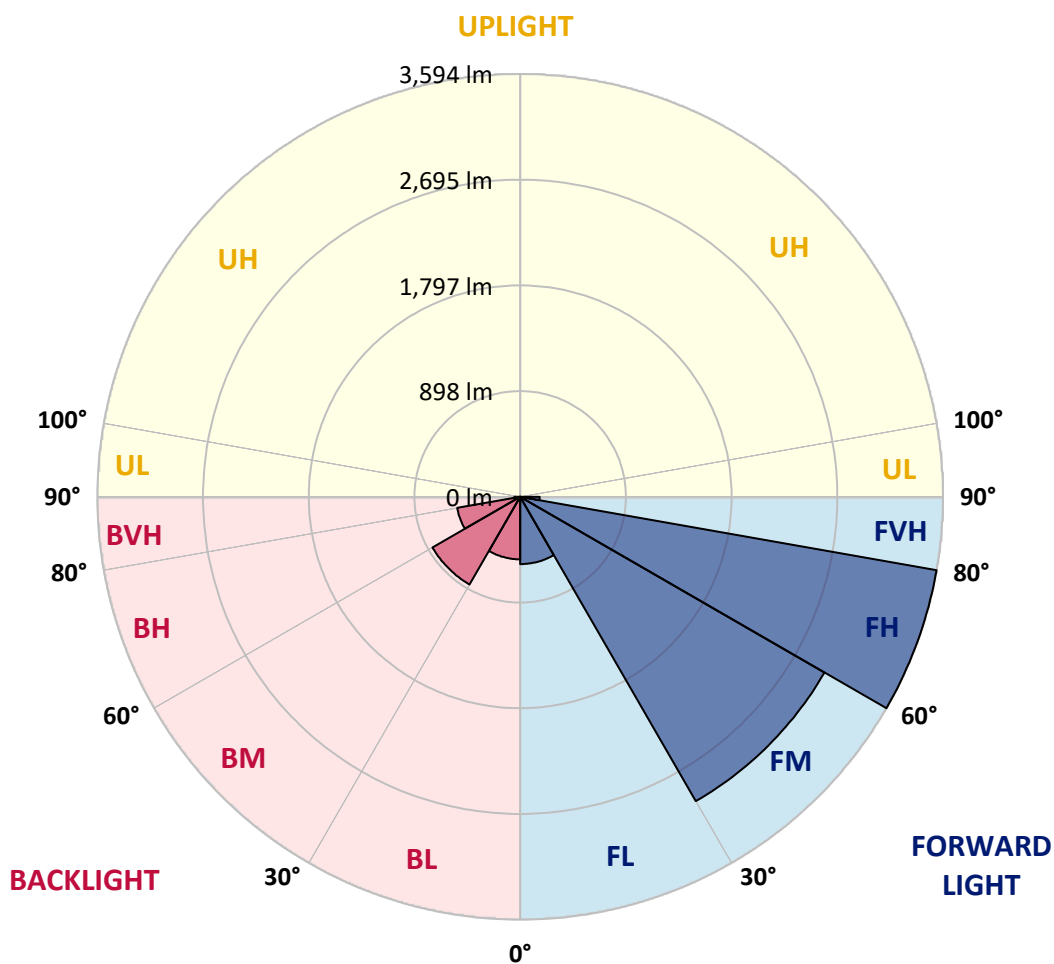
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.9	6.1			
FM	(30°-60°)	2986.2	32.1			
FH	(60°-80°)	3593.7	38.6			G2/5000
FVH	(80°-90°)	166.0	1.8			G2/225
BL	(0°-30°)	531.3	5.7	B2/1000		
BM	(30°-60°)	860.5	9.2	B1/1000		
BH	(60°-80°)	542.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	50.3	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°	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2
2.5°	1203.6	1207.8	1204.7	1205.7	1205.7	1206.7	1206.7	1207.8	1206.7	1209.7	1211.8
5°	1182.1	1184.1	1183.1	1185.2	1187.3	1191.3	1190.3	1195.4	1196.5	1199.5	1204.7
7.5°	1173.9	1171.8	1172.8	1176.0	1177.9	1180.0	1182.1	1186.2	1189.2	1196.5	1200.5
10°	1182.1	1181.0	1182.1	1184.1	1184.1	1185.2	1183.1	1187.3	1189.2	1195.4	1199.5
12.5°	1216.0	1216.0	1213.9	1213.9	1211.8	1209.7	1204.7	1201.6	1200.5	1201.6	1203.6
15°	1270.4	1268.3	1264.1	1261.0	1257.0	1249.8	1242.6	1236.5	1232.3	1226.2	1224.1
17.5°	1323.6	1320.6	1316.5	1312.4	1307.3	1300.1	1288.8	1281.6	1270.4	1263.1	1259.1
20°	1385.3	1379.1	1374.0	1368.8	1358.5	1356.5	1345.2	1333.0	1319.6	1303.1	1301.1
22.5°	1465.3	1455.0	1448.9	1445.8	1435.5	1432.4	1414.0	1396.6	1380.1	1358.5	1353.5
25°	1546.3	1536.1	1533.0	1528.9	1521.8	1517.6	1500.2	1480.6	1459.2	1429.3	1423.2
27.5°	1625.4	1626.4	1618.1	1621.2	1619.2	1612.0	1594.6	1575.0	1558.7	1523.7	1516.6
30°	1723.8	1717.7	1713.6	1719.8	1712.5	1713.6	1698.2	1688.0	1661.2	1640.7	1626.4
32.5°	1826.4	1825.5	1831.6	1835.8	1834.7	1832.6	1820.3	1810.1	1786.4	1756.7	1750.6
35°	1967.0	1973.2	1978.3	1996.8	1996.8	2010.2	1997.8	1985.5	1957.8	1921.9	1909.5
37.5°	2062.5	2064.6	2085.1	2109.6	2140.4	2169.2	2177.4	2180.5	2169.2	2142.5	2124.0
40°	2149.7	2153.8	2186.6	2224.6	2269.7	2326.2	2360.0	2375.4	2378.5	2366.2	2326.2
42.5°	2236.9	2243.1	2276.9	2332.3	2394.9	2466.7	2526.3	2564.2	2585.8	2585.8	2562.2
45°	2338.4	2346.7	2383.6	2444.1	2517.0	2607.4	2689.4	2762.3	2797.2	2799.2	2776.7
47.5°	2458.5	2465.7	2508.8	2570.4	2645.3	2736.6	2840.3	2923.4	2988.0	2992.1	2973.7
50°	2613.5	2623.7	2659.7	2715.0	2792.0	2884.4	2988.0	3103.9	3171.7	3188.1	3168.6
52.5°	2818.8	2820.7	2850.6	2901.9	2976.7	3065.0	3174.8	3300.9	3390.3	3403.6	3371.8
55°	3101.9	3098.9	3118.3	3173.8	3230.2	3299.0	3412.8	3554.4	3654.0	3674.5	3641.7
57.5°	3486.7	3483.6	3500.0	3513.4	3619.1	3685.8	3797.6	3933.1	4029.5	4089.0	4032.6
60°	4082.9	4079.8	4106.4	4184.5	4263.4	4360.9	4469.7	4631.8	4767.3	4784.8	4729.3
62.5°	4514.8	4530.3	4588.7	4680.1	4840.1	5031.0	5230.1	5443.5	5721.6	5809.8	5783.1
65°	4364.0	4394.8	4475.9	4614.4	4827.9	5091.5	5403.4	5790.4	6162.8	6371.1	6365.0
66°	4228.6	4262.5	4362.0	4495.3	4721.1	5009.4	5350.2	5771.8	6188.4	6418.2	6432.6
67.5°	3982.3	4020.3	4117.7	4275.8	4495.3	4802.2	5168.5	5627.2	6098.1	6365.9	6403.9
70°	3503.1	3546.2	3617.0	3747.4	3963.8	4237.8	4623.6	5034.1	5527.7	5834.4	5880.6
72.5°	2928.5	2966.4	3045.5	3152.2	3329.7	3502.1	3804.8	4107.5	4460.5	4810.4	4776.5
75°	2102.5	2118.9	2166.1	2282.1	2377.5	2532.4	2775.6	3023.9	3265.1	3425.2	3447.7
77.5°	1092.8	1135.9	1202.6	1330.9	1434.5	1574.1	1732.0	1918.9	2095.3	2242.1	2202.1
80°	715.2	733.7	793.2	858.9	934.8	1024.0	1129.7	1199.5	1222.1	1212.8	1222.1
82.5°	412.5	446.3	525.4	575.6	632.1	662.9	747.0	827.0	872.2	815.8	795.2
85°	52.3	67.8	213.5	268.8	307.9	354.0	379.7	427.9	399.2	357.1	435.0
87.5°	11.3	10.3	14.4	30.8	31.8	26.6	50.3	53.4	32.8	16.4	20.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2
2.5°	1213.9	1214.9	1217.0	1220.0	1222.1	1224.1	1226.2	1229.2	1231.3	1233.4	1237.5
5°	1208.7	1212.8	1217.0	1221.0	1226.2	1234.4	1239.6	1243.6	1247.8	1256.0	1259.1
7.5°	1205.7	1212.8	1219.0	1226.2	1234.4	1241.6	1250.8	1256.0	1262.1	1267.3	1273.4
10°	1203.6	1213.9	1220.0	1230.3	1239.6	1246.7	1257.0	1263.1	1270.4	1276.5	1279.6
12.5°	1207.8	1212.8	1219.0	1229.2	1240.5	1250.8	1262.1	1267.3	1273.4	1278.5	1279.6
15°	1225.2	1225.2	1226.2	1234.4	1245.7	1253.9	1263.1	1268.3	1271.3	1274.4	1274.4
17.5°	1257.0	1249.8	1244.7	1245.7	1252.8	1258.0	1263.1	1263.1	1261.0	1260.1	1258.0
20°	1293.9	1284.7	1274.4	1267.3	1265.2	1261.0	1258.0	1247.8	1239.6	1232.3	1227.3
22.5°	1347.3	1333.0	1318.5	1305.2	1292.8	1277.5	1260.1	1239.6	1220.0	1206.7	1198.4
25°	1413.0	1401.7	1384.2	1363.7	1348.3	1319.6	1297.0	1267.3	1242.6	1225.2	1210.8
27.5°	1506.3	1493.0	1476.6	1458.1	1435.5	1403.7	1376.0	1341.1	1311.4	1285.7	1267.3
30°	1622.3	1604.9	1592.5	1569.9	1554.5	1518.7	1490.9	1447.9	1390.4	1349.3	1323.6
32.5°	1741.3	1721.8	1711.5	1694.1	1676.7	1655.1	1613.1	1546.3	1472.4	1405.8	1361.7
35°	1900.3	1879.8	1861.3	1846.0	1820.3	1780.3	1743.3	1663.3	1561.8	1468.4	1394.5
37.5°	2100.4	2066.5	2020.4	1981.5	1936.3	1878.8	1822.4	1740.3	1624.4	1503.2	1404.8
40°	2313.9	2254.4	2188.7	2115.9	2037.8	1954.7	1890.1	1806.9	1676.7	1533.0	1397.5
42.5°	2536.6	2442.2	2350.8	2248.2	2139.4	2040.9	1956.8	1865.5	1715.6	1541.2	1368.8
45°	2757.1	2651.5	2513.0	2378.5	2241.0	2118.9	2024.5	1921.9	1751.6	1544.2	1330.9
47.5°	2939.8	2831.0	2673.0	2504.8	2341.6	2203.0	2092.2	1981.5	1799.8	1565.8	1321.7
50°	3132.7	3000.3	2824.9	2625.8	2441.1	2286.1	2168.2	2053.3	1867.5	1621.2	1351.4
52.5°	3343.0	3191.2	2986.0	2763.3	2561.1	2387.8	2259.5	2141.5	1953.7	1699.3	1407.8
55°	3599.6	3413.9	3191.2	2939.8	2723.3	2531.4	2389.8	2250.3	2056.3	1791.6	1478.7
57.5°	3991.5	3763.7	3513.4	3227.2	2986.9	2760.2	2590.9	2429.8	2215.3	1929.1	1575.0
60°	4700.6	4457.4	4132.1	3785.3	3503.1	3238.3	2990.1	2789.9	2526.3	2200.0	1788.5
62.5°	5716.5	5393.2	4959.2	4473.8	4104.5	3722.7	3442.6	3145.0	2817.7	2465.7	2039.9
65°	6280.8	5888.8	5308.1	4744.7	4269.6	3855.1	3499.1	3154.2	2791.0	2454.4	2098.3
66°	6350.6	5942.2	5338.9	4745.7	4247.0	3821.2	3446.7	3089.6	2718.1	2397.0	2073.8
67.5°	6321.9	5904.2	5282.4	4656.5	4149.5	3691.9	3305.1	2934.6	2564.2	2264.7	1991.7
70°	5850.9	5454.8	4844.2	4237.8	3756.6	3305.1	2935.6	2571.4	2231.8	1975.2	1774.1
72.5°	4858.7	4520.0	3989.5	3513.4	3135.8	2763.3	2450.4	2102.5	1815.1	1625.4	1506.3
75°	3507.3	3302.0	2818.8	2545.8	2214.3	1967.0	1663.3	1457.1	1250.8	1158.4	1137.9
77.5°	2215.3	1939.4	1632.5	1344.2	1105.1	916.3	713.2	605.4	504.9	494.6	597.2
80°	1121.6	1009.6	777.8	619.8	521.2	421.8	333.5	252.4	176.5	212.4	254.5
82.5°	734.7	612.5	480.2	395.0	343.7	285.3	221.7	153.9	112.8	127.3	174.4
85°	397.1	338.7	273.0	215.4	174.4	156.0	104.7	73.9	72.8	78.0	99.5
87.5°	28.7	28.7	22.6	20.5	24.7	20.5	18.4	18.4	17.4	18.4	24.7
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°	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2	1226.2
2.5°	1239.6	1242.6	1243.6	1248.8	1251.8	1253.9	1256.0	1256.0	1257.0	1260.1	1261.0
5°	1263.1	1268.3	1274.4	1278.5	1280.6	1286.7	1288.8	1288.8	1290.9	1294.9	1298.0
7.5°	1277.5	1284.7	1290.9	1292.8	1297.0	1299.1	1302.2	1304.1	1304.1	1308.3	1310.4
10°	1282.6	1286.7	1292.8	1292.8	1297.0	1297.0	1300.1	1301.1	1301.1	1305.2	1308.3
12.5°	1282.6	1284.7	1289.8	1289.8	1292.8	1293.9	1298.0	1301.1	1302.2	1307.3	1311.4
15°	1276.5	1278.5	1282.6	1283.6	1290.9	1294.9	1304.1	1310.4	1310.4	1315.4	1317.5
17.5°	1259.1	1264.1	1272.3	1280.6	1293.9	1303.1	1314.4	1319.6	1315.4	1312.4	1309.3
20°	1230.3	1239.6	1259.1	1279.6	1303.1	1315.4	1321.7	1316.5	1302.2	1287.8	1278.5
22.5°	1201.6	1220.0	1252.8	1283.6	1310.4	1318.5	1315.4	1297.0	1273.4	1256.0	1243.6
25°	1214.9	1236.5	1268.3	1296.0	1313.4	1311.4	1299.1	1273.4	1247.8	1225.2	1204.7
27.5°	1270.4	1293.9	1311.4	1320.6	1318.5	1304.1	1284.7	1256.0	1225.2	1195.4	1166.6
30°	1322.7	1334.9	1339.1	1331.9	1315.4	1291.9	1267.3	1234.4	1193.4	1156.4	1123.6
32.5°	1346.2	1333.9	1314.4	1294.9	1268.3	1247.8	1213.9	1177.9	1126.6	1082.6	1049.7
35°	1346.2	1297.0	1247.8	1206.7	1166.6	1141.0	1102.1	1053.8	1006.6	969.6	944.0
37.5°	1316.5	1222.1	1141.0	1074.3	1024.0	996.4	937.8	894.7	854.7	842.4	826.0
40°	1262.1	1122.6	1005.6	918.3	854.7	813.7	755.2	725.5	710.1	703.9	700.8
42.5°	1189.2	1011.7	855.8	748.0	679.3	633.1	594.1	575.6	574.6	573.6	573.6
45°	1111.3	892.7	710.1	581.8	521.2	480.2	461.8	454.6	460.7	459.7	460.7
47.5°	1063.0	802.4	576.7	440.2	394.0	367.4	358.1	361.1	366.3	364.2	364.2
50°	1056.9	756.3	487.4	342.7	307.9	294.5	292.4	292.4	295.5	293.5	292.4
52.5°	1079.5	749.0	441.2	294.5	266.7	255.5	253.5	252.4	251.4	245.3	240.1
55°	1118.4	765.5	427.9	282.2	253.5	241.1	238.0	236.0	231.9	223.7	214.5
57.5°	1196.5	816.8	440.2	288.3	257.5	247.3	244.2	244.2	236.0	222.7	209.3
60°	1384.2	947.0	490.5	311.9	277.1	266.7	268.8	267.8	255.5	236.0	215.4
62.5°	1626.4	1117.4	556.2	344.8	301.7	299.6	309.8	307.9	287.4	257.5	227.8
65°	1738.2	1197.5	574.6	351.9	306.8	316.1	336.6	334.5	308.8	267.8	229.8
66°	1740.3	1197.5	566.4	345.8	299.6	310.9	331.4	330.4	304.8	263.7	225.7
67.5°	1698.2	1164.7	542.8	333.5	285.3	293.5	311.9	310.9	287.4	253.5	217.5
70°	1540.2	1042.5	482.3	311.9	265.8	261.7	267.8	263.7	248.3	224.8	200.1
72.5°	1319.6	875.2	420.7	295.5	252.4	236.0	231.9	228.8	216.5	203.2	187.8
75°	1039.5	692.6	369.4	283.2	240.1	218.5	211.4	207.3	199.1	189.8	177.5
77.5°	641.3	495.6	322.2	266.7	230.9	209.3	204.1	198.0	185.7	174.4	165.2
80°	286.3	306.8	264.8	233.0	206.2	186.7	178.5	169.3	157.0	149.8	144.7
82.5°	190.9	198.0	191.9	174.4	156.0	140.6	128.3	128.3	126.2	120.1	118.0
85°	122.1	123.1	119.1	107.8	100.5	91.3	86.2	87.3	91.3	90.3	89.2
87.5°	27.7	27.7	32.8	30.8	36.0	37.9	41.0	44.1	50.3	50.3	53.4
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):

	160°	165°	170°	175°	180°
0°	1226.2	1226.2	1226.2	1226.2	1226.2
2.5°	1262.1	1264.1	1266.2	1263.1	1264.1
5°	1298.0	1297.0	1302.2	1299.1	1301.1
7.5°	1309.3	1310.4	1314.4	1314.4	1315.4
10°	1310.4	1312.4	1317.5	1320.6	1322.7
12.5°	1315.4	1319.6	1327.8	1329.8	1329.8
15°	1319.6	1321.7	1326.7	1328.8	1330.9
17.5°	1305.2	1301.1	1303.1	1304.1	1303.1
20°	1269.3	1265.2	1264.1	1260.1	1262.1
22.5°	1230.3	1219.0	1211.8	1203.6	1203.6
25°	1183.1	1165.7	1151.3	1136.9	1140.0
27.5°	1139.0	1116.4	1102.1	1092.8	1090.8
30°	1095.9	1072.3	1059.0	1047.7	1047.7
32.5°	1024.0	1007.7	990.2	983.0	982.0
35°	924.6	914.3	899.9	896.8	891.7
37.5°	812.6	809.6	797.3	796.3	791.1
40°	695.8	697.7	693.7	691.6	688.5
42.5°	578.8	589.0	586.9	585.9	583.8
45°	466.8	474.1	475.1	478.1	483.3
47.5°	367.4	369.4	371.4	370.5	371.4
50°	287.4	282.2	281.1	278.0	281.1
52.5°	231.9	223.7	219.6	215.4	213.5
55°	204.1	196.0	191.9	189.8	187.8
57.5°	197.0	188.8	182.7	178.5	177.5
60°	199.1	186.7	178.5	173.4	172.4
62.5°	204.1	187.8	176.5	171.4	170.4
65°	203.2	185.7	175.4	169.3	168.3
66°	200.1	183.6	173.4	168.3	167.3
67.5°	194.9	180.6	171.4	167.3	165.2
70°	185.7	176.5	169.3	164.1	162.2
72.5°	177.5	170.4	164.1	159.1	158.0
75°	168.3	162.2	156.0	151.8	150.9
77.5°	157.0	150.9	146.7	143.6	142.6
80°	138.5	134.4	130.4	126.2	126.2
82.5°	114.9	111.8	107.8	104.7	103.6
85°	88.3	88.3	85.2	82.1	81.0
87.5°	52.3	51.3	51.3	48.2	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)