

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: P155438

Luminaire Tested: **VXS-E04-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P155438
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-E04-LED-E1-T3-8030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10411.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 97.2
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



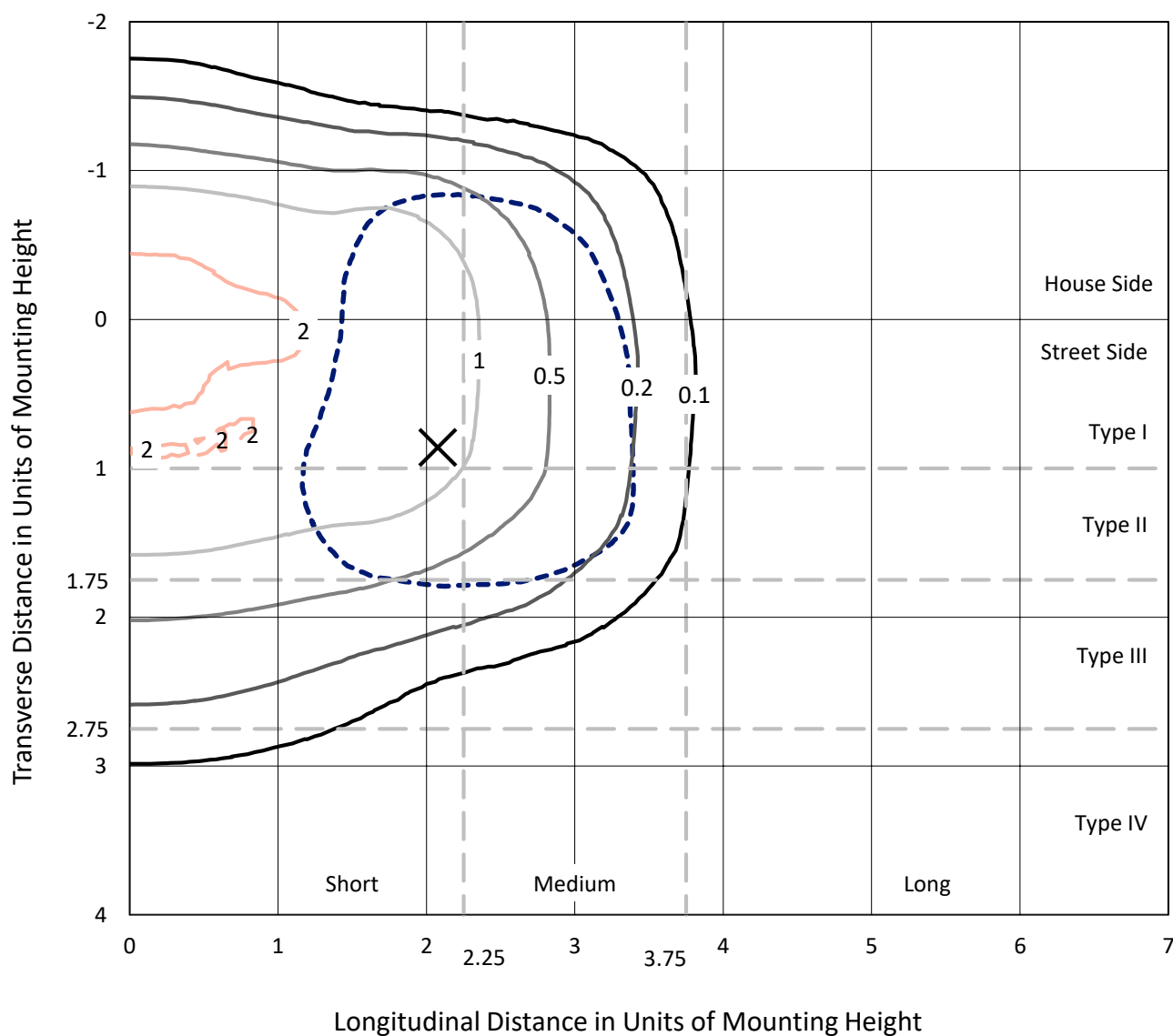
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

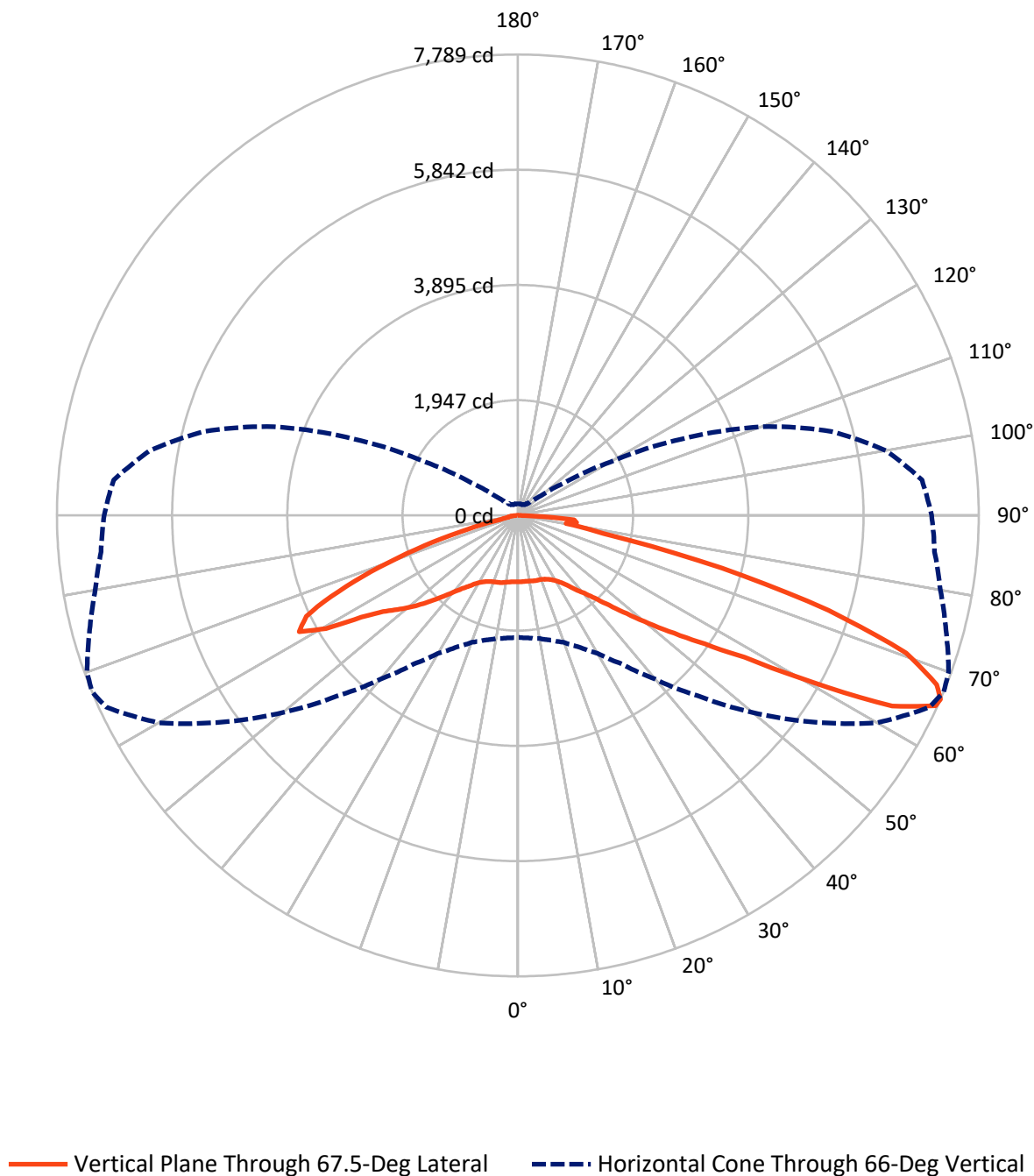


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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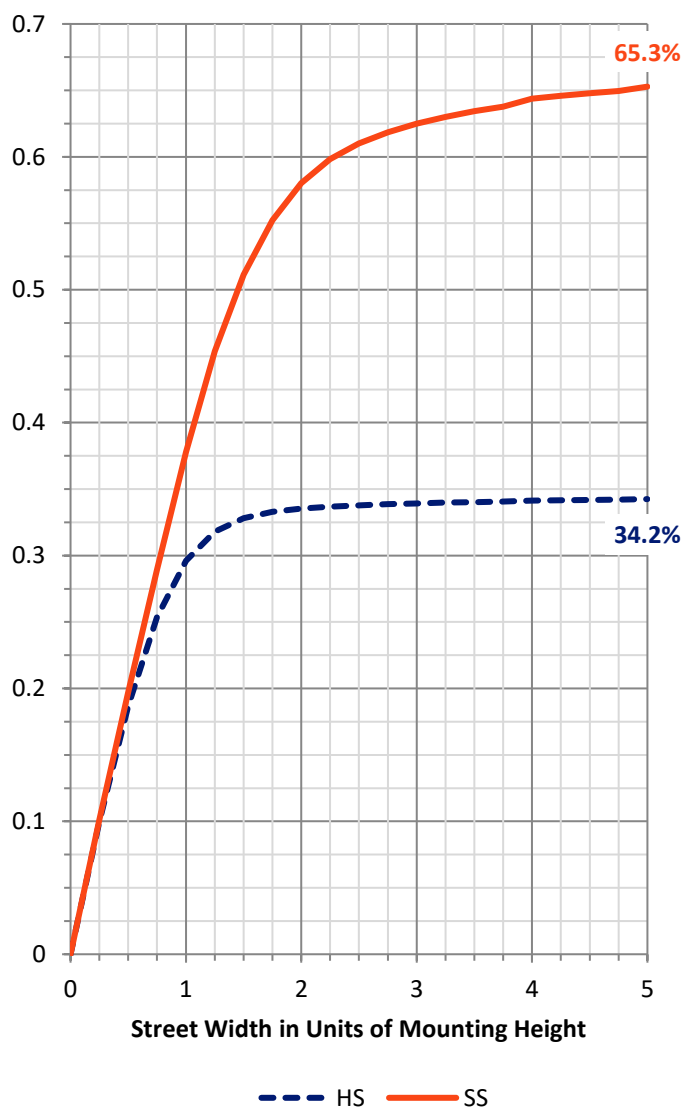
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.3	0.0	3595.3
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	6815.9	0.0	6815.9
	% Fixture	65.5	0.0	65.5
Total	Lumens	10411.2	0.0	10411.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.0
10°-20°	317.1	3.0
20°-30°	545.1	5.2
30°-40°	885.0	8.5
40°-50°	1477.5	14.2
50°-60°	2326.6	22.3
60°-70°	3172.5	30.5
70°-80°	1373.4	13.2
80°-90°	206.5	2.0
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°	10411.2	100.0
0°-180°	10411.2	100.0

Coefficient of Utilization



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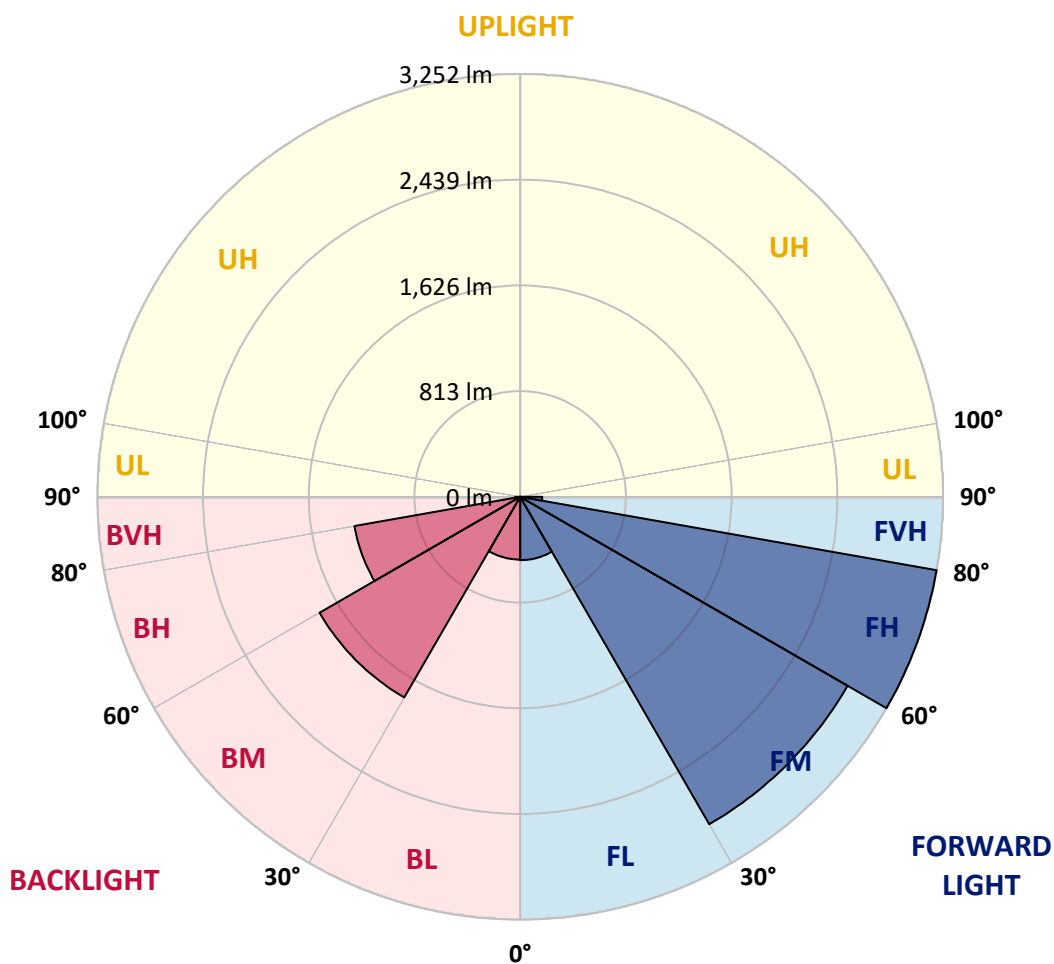
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.1	4.7			
FM	(30°-60°)	2907.5	27.9			
FH	(60°-80°)	3251.8	31.2			G2/5000
FVH	(80°-90°)	169.6	1.6			G2/225
BL	(0°-30°)	482.6	4.6	B1/500		
BM	(30°-60°)	1781.6	17.1	B2/2500		
BH	(60°-80°)	1294.1	12.4	B3/2500		G3/2500
BVH	(80°-90°)	36.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1126.4	1131.0	1126.4	1127.6	1128.7	1127.6	1126.4	1126.4	1123.1	1125.3	1127.6
5°	1122.0	1125.3	1124.1	1125.3	1126.4	1125.3	1124.1	1125.3	1123.1	1124.1	1127.6
7.5°	1116.3	1115.2	1116.3	1118.5	1120.8	1120.8	1120.8	1122.0	1120.8	1120.8	1124.1
10°	1099.5	1100.5	1102.8	1106.2	1107.4	1110.7	1110.7	1114.1	1115.2	1117.4	1122.0
12.5°	1078.0	1079.2	1081.5	1083.7	1089.3	1094.9	1094.9	1102.8	1106.2	1111.8	1119.7
15°	1062.3	1063.4	1065.7	1068.0	1072.4	1078.0	1081.5	1090.5	1096.1	1106.2	1117.4
17.5°	1071.3	1070.2	1072.4	1073.6	1073.6	1078.0	1078.0	1084.8	1091.6	1100.5	1115.2
20°	1097.2	1097.2	1099.5	1099.5	1098.3	1100.5	1096.1	1096.1	1097.2	1101.7	1111.8
22.5°	1123.1	1122.0	1126.4	1128.7	1129.8	1133.2	1128.7	1127.6	1122.0	1118.5	1122.0
25°	1147.9	1146.7	1152.3	1155.8	1161.3	1164.7	1164.7	1164.7	1160.2	1154.6	1151.2
27.5°	1186.1	1186.1	1191.7	1195.1	1199.6	1206.3	1209.7	1209.7	1210.9	1203.0	1197.3
30°	1250.3	1251.4	1252.4	1257.0	1261.5	1263.7	1268.2	1271.6	1275.0	1270.5	1261.5
32.5°	1326.7	1320.0	1320.0	1326.7	1332.3	1339.2	1341.3	1345.9	1352.6	1349.2	1348.2
35°	1417.9	1415.6	1413.4	1415.6	1422.4	1430.3	1439.3	1447.2	1442.7	1449.4	1446.0
37.5°	1553.0	1555.2	1556.3	1556.3	1555.2	1557.4	1562.0	1569.8	1567.6	1569.8	1574.3
40°	1775.8	1767.9	1760.0	1761.1	1749.8	1752.1	1734.1	1742.0	1743.1	1735.2	1738.7
42.5°	1998.5	2003.1	2006.4	2015.4	2007.6	2003.1	1986.2	1986.2	1977.2	1969.3	1967.0
45°	2239.4	2248.4	2249.5	2267.6	2260.7	2275.4	2287.8	2284.4	2269.7	2268.6	2252.8
47.5°	2431.8	2446.4	2462.2	2483.6	2500.4	2533.1	2571.4	2590.5	2601.8	2610.8	2592.7
50°	2575.9	2582.6	2623.1	2656.9	2694.0	2748.1	2800.9	2869.5	2924.7	2950.6	2975.3
52.5°	2653.5	2670.4	2714.3	2767.2	2832.4	2913.5	2999.0	3108.2	3202.7	3265.7	3322.0
55°	2670.4	2687.3	2736.8	2804.4	2893.2	3002.4	3125.0	3273.6	3415.3	3536.9	3655.0
57.5°	2623.1	2642.3	2695.1	2772.7	2877.4	3010.3	3164.4	3359.1	3554.9	3751.8	3926.2
60°	2536.5	2560.1	2608.5	2685.0	2800.9	2950.6	3135.1	3379.4	3653.9	3955.5	4289.7
62.5°	2393.6	2418.3	2463.3	2547.8	2667.0	2832.4	3046.2	3350.1	3738.3	4213.2	4806.2
65°	2164.0	2175.2	2230.4	2316.0	2421.7	2604.0	2839.2	3206.0	3711.3	4371.9	5188.8
66°	2060.4	2079.6	2113.4	2182.0	2283.3	2454.3	2690.7	3063.1	3608.9	4316.7	5178.8
67.5°	1898.4	1913.1	1935.5	1981.7	2043.6	2169.6	2393.6	2745.8	3296.1	4037.6	4963.8
70°	1534.9	1541.7	1572.1	1587.9	1609.2	1650.9	1731.9	1934.4	2363.2	3059.8	4006.1
72.5°	1046.5	1065.7	1098.3	1143.3	1201.9	1258.1	1296.4	1322.3	1414.5	1825.3	2669.2
75°	767.5	787.8	829.3	889.0	991.4	1108.4	1229.9	1286.2	1248.0	1195.1	1486.5
77.5°	445.6	472.6	507.6	564.9	659.5	814.7	1022.9	1207.5	1332.3	1340.2	1272.7
80°	188.0	191.3	212.6	242.0	300.4	409.6	571.7	837.2	1114.1	1300.8	1344.8
82.5°	42.8	52.8	67.6	79.9	97.9	135.0	200.3	333.1	602.1	944.1	1231.1
85°	15.8	15.8	21.3	31.5	36.0	40.5	52.8	84.4	144.0	265.6	553.7
87.5°	0.0	1.1	2.3	2.3	4.5	5.6	9.0	12.3	11.3	10.2	33.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1125.3	1124.1	1122.0	1122.0	1122.0	1122.0	1119.7	1120.8	1118.5	1119.7	1119.7
5°	1124.1	1124.1	1123.1	1120.8	1122.0	1122.0	1123.1	1120.8	1120.8	1122.0	1120.8
7.5°	1124.1	1123.1	1123.1	1123.1	1124.1	1123.1	1124.1	1124.1	1124.1	1125.3	1125.3
10°	1124.1	1124.1	1126.4	1127.6	1127.6	1128.7	1132.1	1132.1	1133.2	1134.3	1136.6
12.5°	1125.3	1129.8	1133.2	1136.6	1137.7	1140.0	1145.6	1145.6	1147.9	1151.2	1152.3
15°	1126.4	1133.2	1140.0	1142.2	1144.5	1148.9	1154.6	1156.8	1160.2	1163.6	1165.8
17.5°	1125.3	1134.3	1142.2	1145.6	1148.9	1154.6	1161.3	1163.6	1168.1	1172.5	1177.1
20°	1124.1	1136.6	1148.9	1153.5	1157.9	1165.8	1174.8	1180.4	1185.0	1191.7	1196.2
22.5°	1131.0	1145.6	1162.5	1169.2	1177.1	1187.3	1199.6	1206.3	1212.0	1218.8	1222.1
25°	1152.3	1163.6	1183.8	1195.1	1205.2	1222.1	1239.0	1246.8	1253.6	1259.3	1260.3
27.5°	1188.3	1191.7	1216.5	1231.1	1245.7	1272.7	1293.0	1298.7	1311.0	1315.5	1314.4
30°	1246.8	1241.2	1261.5	1284.0	1305.4	1342.5	1367.3	1381.9	1393.2	1393.2	1384.1
32.5°	1331.3	1322.3	1327.9	1353.8	1378.5	1432.5	1461.8	1480.9	1488.8	1486.5	1467.5
35°	1441.6	1436.0	1432.5	1452.7	1492.1	1555.2	1593.5	1603.6	1616.0	1613.7	1588.9
37.5°	1572.1	1567.6	1567.6	1591.2	1629.4	1722.9	1764.5	1771.3	1770.2	1752.1	1706.0
40°	1726.2	1724.0	1713.9	1727.4	1760.0	1881.6	1937.8	1946.8	1934.4	1905.2	1851.2
42.5°	1948.0	1934.4	1902.9	1910.8	1935.5	2053.7	2126.8	2151.6	2139.3	2109.9	2022.2
45°	2237.1	2222.5	2169.6	2162.9	2176.4	2279.9	2374.4	2380.1	2377.8	2340.6	2237.1
47.5°	2577.0	2554.5	2498.2	2480.2	2475.8	2571.4	2662.5	2671.5	2665.9	2610.8	2472.3
50°	2945.0	2912.3	2875.2	2862.8	2844.8	2913.5	3005.7	3006.8	2984.4	2907.9	2778.4
52.5°	3337.7	3326.4	3319.7	3307.4	3299.5	3359.1	3415.3	3381.6	3347.9	3268.0	3155.4
55°	3733.8	3780.0	3827.3	3831.7	3845.2	3909.3	3908.3	3816.0	3791.2	3747.4	3636.0
57.5°	4154.7	4325.7	4474.3	4520.4	4565.4	4684.7	4673.5	4582.3	4550.8	4496.8	4404.5
60°	4727.5	5188.8	5617.6	5720.0	5790.9	5933.8	5920.3	5779.7	5844.9	5840.4	5721.1
62.5°	5529.8	6297.3	6939.9	7097.4	7146.9	7162.7	7077.1	6925.2	6989.3	7061.3	6694.5
65°	6073.4	6975.9	7635.3	7756.8	7763.6	7575.6	7385.5	7206.5	7190.8	7128.9	6604.6
66°	6085.7	7009.6	7671.3	7789.4	7747.9	7491.3	7250.5	7070.4	6992.7	6856.6	6313.1
67.5°	5867.5	6799.2	7511.5	7636.5	7545.3	7181.8	6849.8	6618.0	6466.1	6245.5	5766.1
70°	4927.8	5851.7	6729.4	6962.4	6991.6	6449.2	5988.9	5716.6	5511.8	5209.1	4796.2
72.5°	3664.0	4499.1	5273.3	5496.1	5609.7	5176.5	4788.3	4581.1	4300.9	3982.5	3688.8
75°	2296.8	2886.4	3405.2	3561.7	3454.7	3119.4	2886.4	2799.8	2524.1	2333.9	2200.0
77.5°	1313.3	1497.8	1539.5	1479.8	1353.8	1036.4	737.1	545.8	473.8	524.4	578.4
80°	1281.8	1174.8	936.3	823.7	746.1	513.2	301.6	207.0	172.1	176.7	191.3
82.5°	1388.6	1489.9	1226.6	1000.4	839.5	567.2	312.8	166.5	112.5	132.7	149.6
85°	902.5	1255.9	1131.0	953.2	772.0	485.0	257.7	86.6	57.4	75.4	103.5
87.5°	91.2	100.1	85.5	116.0	86.6	40.5	20.2	12.3	11.3	13.5	20.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1120.8	1120.8	1122.0	1123.1	1124.1	1125.3	1125.3	1125.3	1125.3	1127.6	1126.4
5°	1123.1	1125.3	1127.6	1128.7	1131.0	1131.0	1134.3	1133.2	1133.2	1136.6	1137.7
7.5°	1127.6	1131.0	1135.4	1134.3	1138.9	1137.7	1140.0	1140.0	1136.6	1137.7	1135.4
10°	1137.7	1142.2	1144.5	1141.0	1142.2	1137.7	1136.6	1131.0	1124.1	1120.8	1116.3
12.5°	1154.6	1159.1	1159.1	1153.5	1146.7	1136.6	1128.7	1116.3	1106.2	1100.5	1094.9
15°	1169.2	1173.7	1172.5	1163.6	1153.5	1137.7	1126.4	1111.8	1097.2	1088.2	1082.6
17.5°	1180.4	1182.7	1179.4	1166.9	1155.8	1141.0	1129.8	1114.1	1097.2	1085.9	1075.9
20°	1197.3	1195.1	1187.3	1171.5	1159.1	1145.6	1136.6	1123.1	1103.9	1089.3	1074.7
22.5°	1222.1	1213.1	1198.4	1181.6	1169.2	1156.8	1147.9	1133.2	1114.1	1096.1	1079.2
25°	1254.7	1236.7	1216.5	1198.4	1187.3	1173.7	1163.6	1147.9	1127.6	1107.4	1087.0
27.5°	1302.0	1270.5	1244.6	1228.8	1216.5	1199.6	1187.3	1166.9	1145.6	1122.0	1099.5
30°	1354.9	1312.1	1287.4	1275.0	1261.5	1243.5	1224.4	1198.4	1173.7	1147.9	1120.8
32.5°	1423.5	1371.8	1348.2	1335.8	1317.7	1295.2	1272.7	1243.5	1208.6	1174.8	1142.2
35°	1513.6	1460.6	1436.0	1416.8	1392.0	1362.8	1330.2	1290.8	1243.5	1198.4	1156.8
37.5°	1610.4	1553.0	1529.3	1509.0	1471.9	1433.7	1387.6	1330.2	1266.0	1206.3	1154.6
40°	1733.0	1680.1	1649.7	1614.8	1571.0	1504.6	1432.5	1349.2	1267.2	1194.0	1133.2
42.5°	1888.3	1835.4	1790.4	1735.2	1658.8	1556.3	1453.9	1345.9	1246.8	1163.6	1098.3
45°	2094.2	2030.1	1952.4	1855.6	1731.9	1588.9	1455.0	1324.5	1208.6	1116.3	1046.5
47.5°	2346.3	2248.4	2121.2	1958.0	1780.2	1597.9	1437.0	1281.8	1148.9	1048.8	971.2
50°	2645.6	2491.5	2282.2	2042.5	1805.0	1584.5	1392.0	1217.6	1064.6	957.6	865.4
52.5°	2987.8	2735.6	2427.4	2103.2	1803.9	1539.5	1315.5	1120.8	954.3	835.0	747.3
55°	3389.4	3014.7	2577.0	2148.2	1772.3	1456.2	1198.4	984.7	818.1	707.9	626.8
57.5°	3978.0	3467.2	2838.0	2218.0	1709.3	1327.9	1039.8	821.5	675.2	570.6	501.9
60°	5053.8	4222.2	3308.4	2358.7	1612.5	1140.0	854.1	647.0	524.4	440.0	393.9
62.5°	5864.0	4806.2	3562.8	2327.2	1417.9	908.1	633.6	471.5	386.0	328.6	299.4
65°	5748.2	4625.1	3291.6	2004.2	1111.8	640.3	420.8	320.7	265.6	238.5	221.7
66°	5485.9	4388.7	3056.4	1803.9	961.0	532.2	346.6	268.9	228.4	209.3	198.0
67.5°	4988.5	3949.8	2635.5	1478.7	738.2	386.0	261.0	212.6	185.7	177.8	169.9
70°	4146.8	3149.7	1850.1	860.8	377.0	214.9	165.4	148.5	141.8	140.6	138.4
72.5°	3177.9	2229.2	1089.3	407.4	195.9	142.9	128.3	122.7	120.4	120.4	121.6
75°	1948.0	1252.4	481.7	199.2	137.3	120.4	113.7	111.4	110.3	111.4	110.3
77.5°	650.5	398.3	205.9	150.8	124.9	111.4	106.9	104.7	104.7	104.7	104.7
80°	199.2	173.3	157.5	139.6	118.1	105.8	99.1	97.9	99.1	100.1	96.8
82.5°	149.6	141.8	132.7	123.8	106.9	94.5	92.2	92.2	92.2	88.9	84.4
85°	110.3	109.1	90.1	84.4	78.8	78.8	78.8	78.8	75.4	69.7	65.3
87.5°	20.2	19.2	20.2	21.3	31.5	33.8	33.8	36.0	39.4	37.1	37.1
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):

	160°	165°	170°	175°	180°
0°	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1126.4	1125.3	1128.7	1126.4	1127.6
5°	1136.6	1135.4	1137.7	1135.4	1138.9
7.5°	1133.2	1131.0	1129.8	1131.0	1132.1
10°	1109.5	1107.4	1106.2	1105.1	1106.2
12.5°	1089.3	1084.8	1084.8	1082.6	1083.7
15°	1074.7	1071.3	1070.2	1068.0	1069.0
17.5°	1068.0	1062.3	1060.1	1057.8	1057.8
20°	1063.4	1056.7	1053.3	1051.1	1049.9
22.5°	1063.4	1053.3	1048.8	1046.5	1045.4
25°	1068.0	1055.5	1048.8	1045.4	1044.2
27.5°	1076.9	1061.1	1053.3	1048.8	1048.8
30°	1092.6	1072.4	1061.1	1055.5	1054.4
32.5°	1108.4	1081.5	1065.7	1059.0	1056.7
35°	1116.3	1081.5	1062.3	1051.1	1048.8
37.5°	1107.4	1066.8	1043.2	1026.3	1022.9
40°	1079.2	1036.4	1010.6	994.8	992.5
42.5°	1042.1	1000.4	970.1	958.8	955.4
45°	991.4	941.9	911.5	895.8	896.9
47.5°	904.8	854.1	827.2	812.4	814.7
50°	802.4	752.8	729.2	713.5	716.8
52.5°	689.8	644.8	622.3	614.4	612.1
55°	571.7	536.8	521.0	512.0	508.6
57.5°	463.6	438.9	427.7	416.4	417.5
60°	365.7	353.4	349.9	337.6	336.5
62.5°	288.1	280.2	276.8	267.9	268.9
65°	218.3	216.1	218.3	212.6	214.9
66°	196.9	198.0	198.0	194.7	196.9
67.5°	169.9	172.1	175.5	172.1	174.4
70°	140.6	142.9	145.2	145.2	145.2
72.5°	122.7	124.9	126.0	126.0	126.0
75°	112.5	113.7	114.8	112.5	112.5
77.5°	105.8	105.8	103.5	102.4	101.2
80°	95.6	94.5	91.2	88.9	88.9
82.5°	79.9	77.6	75.4	72.0	72.0
85°	60.7	58.5	56.3	51.8	49.5
87.5°	31.5	32.6	31.5	25.9	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)