

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: P149821

Luminaire Tested: **VXM-E03-LED-E1-SL2-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149821
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-E03-LED-E1-SL2-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9404.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-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

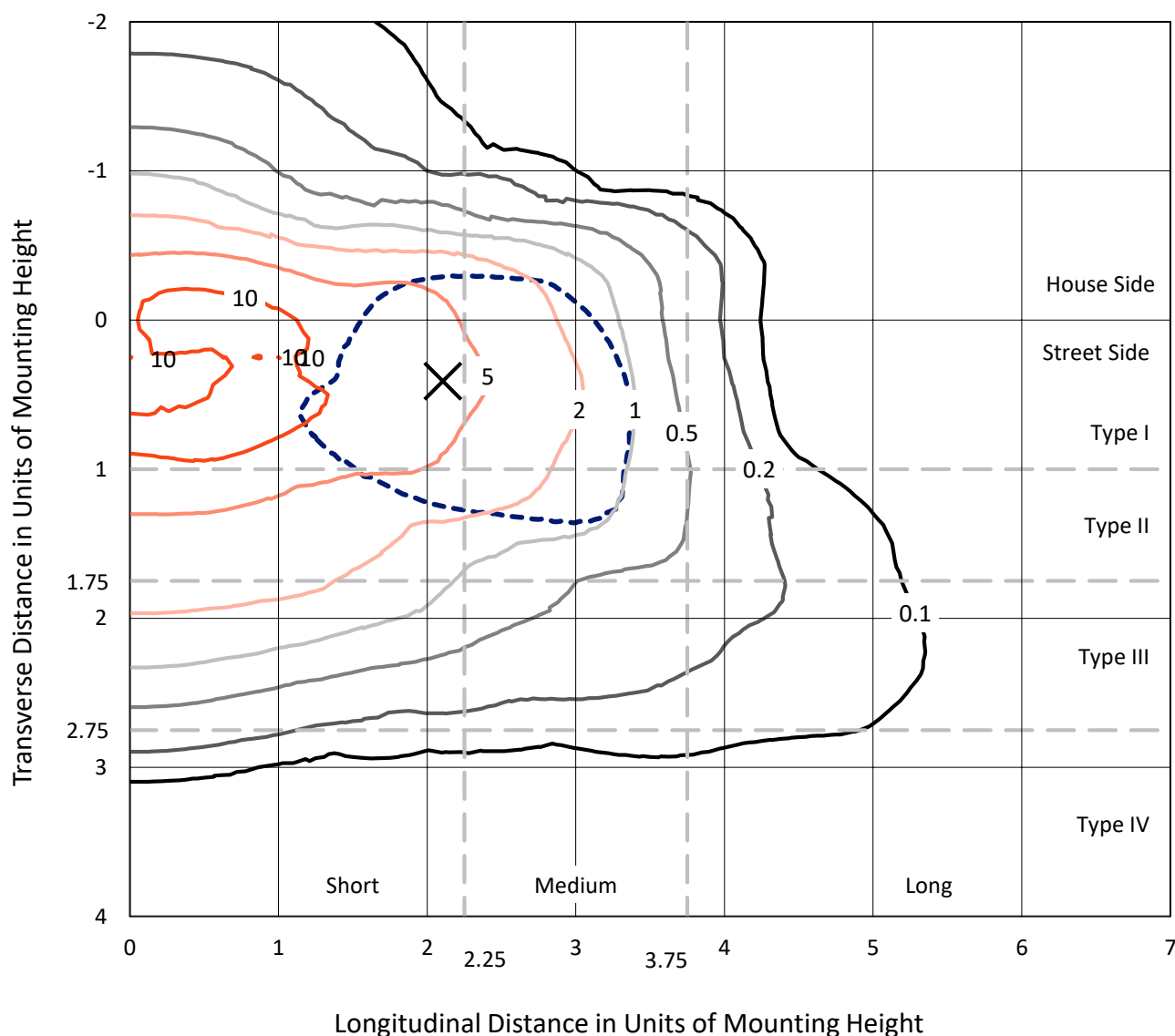


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

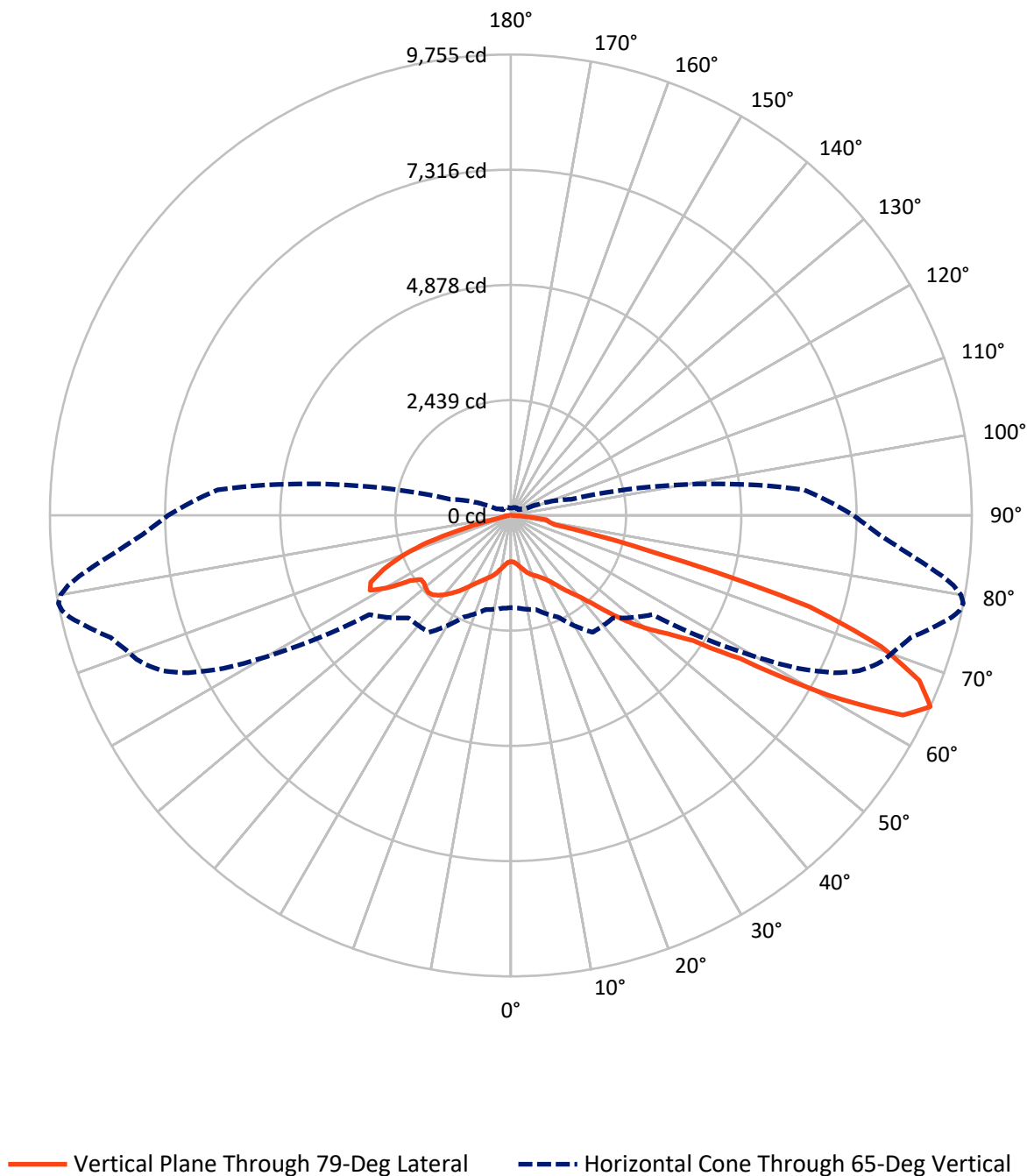


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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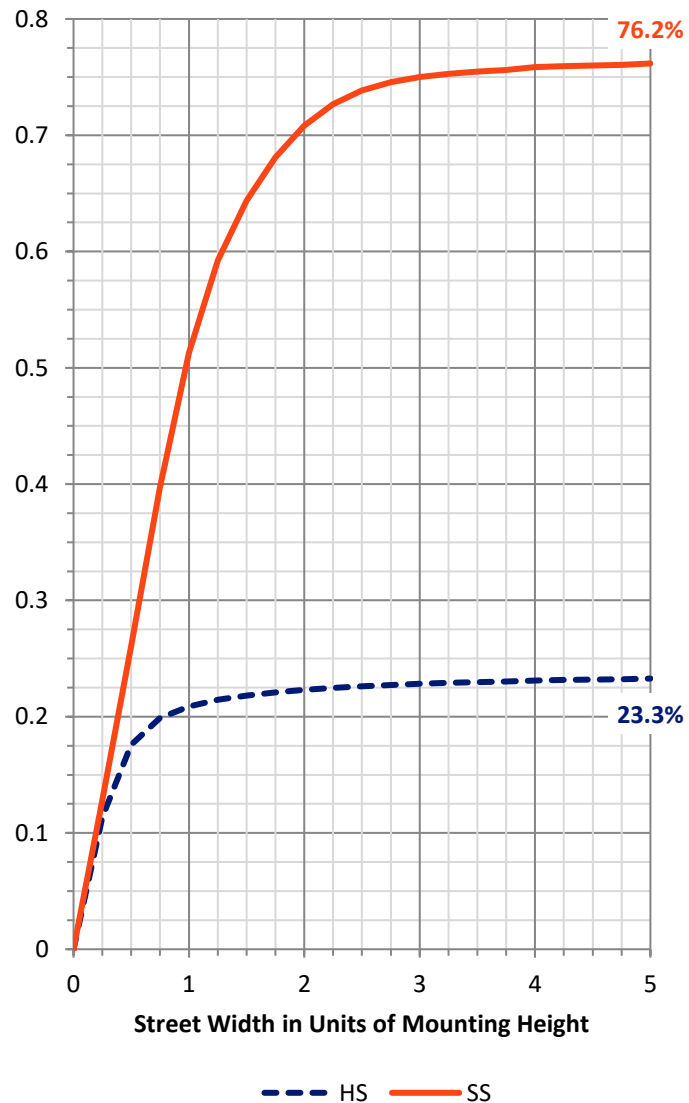
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.2	0.0	2223.2
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	7181.3	0.0	7181.3
	% Fixture	76.4	0.0	76.4
Total	Lumens	9404.6	0.0	9404.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.0
10°-20°	318.2	3.4
20°-30°	549.6	5.8
30°-40°	909.7	9.7
40°-50°	1542.8	16.4
50°-60°	2049.9	21.8
60°-70°	2648.0	28.2
70°-80°	1110.6	11.8
80°-90°	178.4	1.9
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°	9404.6	100.0
0°-180°	9404.6	100.0

Coefficient of Utilization



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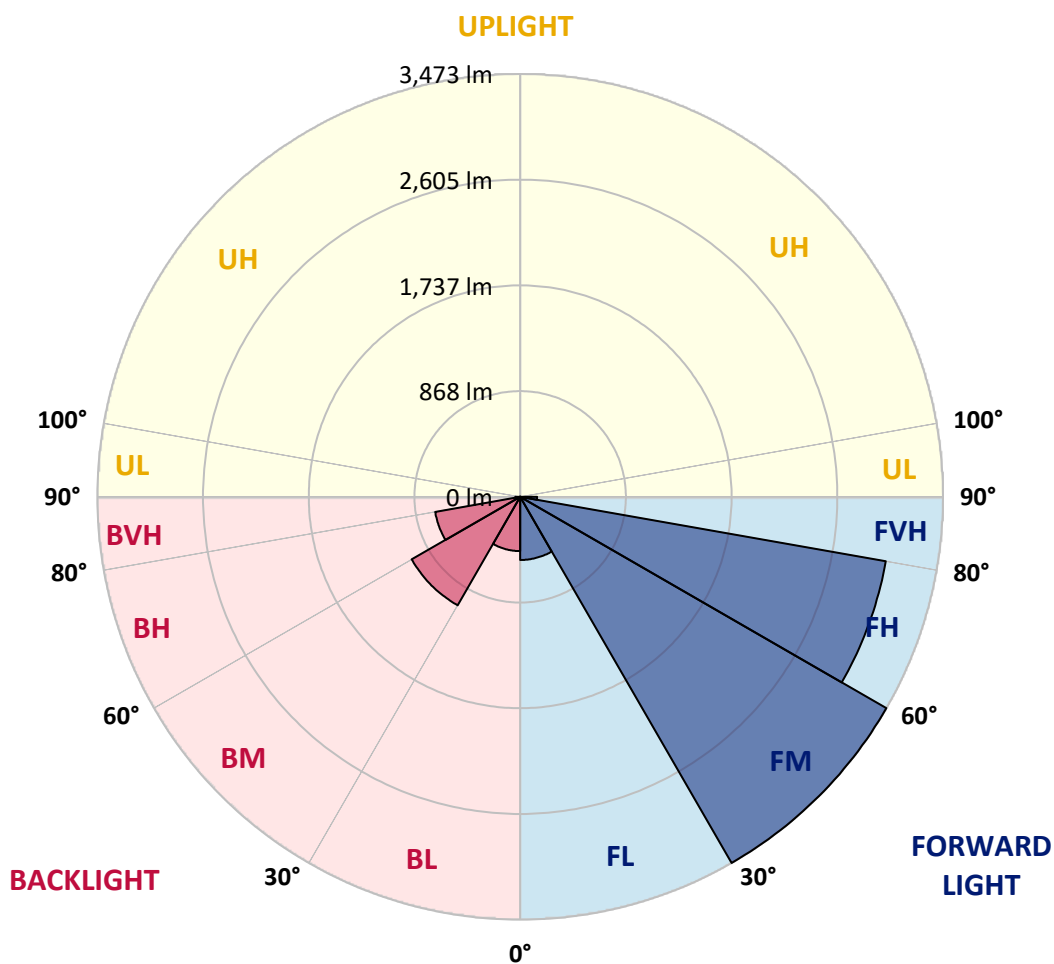
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.9	5.5			
FM	(30°-60°)	3473.4	36.9			
FH	(60°-80°)	3049.6	32.4			G2/5000
FVH	(80°-90°)	139.5	1.5			G2/225
BL	(0°-30°)	446.2	4.7	B1/500		
BM	(30°-60°)	1029.1	10.9	B2/2500		
BH	(60°-80°)	709.0	7.5	B2/1000		G2/1000
BVH	(80°-90°)	38.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
2.5°	975.8	978.9	976.9	978.9	981.0	982.0	984.0	983.0	983.0	984.0	982.0
5°	975.8	975.8	978.9	984.0	986.1	992.2	999.4	998.4	999.4	998.4	1000.5
7.5°	996.3	995.3	998.4	1004.6	1006.6	1015.8	1028.2	1030.2	1032.3	1032.3	1035.3
10°	1032.3	1031.2	1034.3	1037.4	1040.5	1047.7	1065.1	1072.3	1073.3	1074.3	1078.4
12.5°	1077.4	1076.4	1072.3	1072.3	1071.3	1084.6	1108.2	1121.5	1123.6	1127.7	1130.8
15°	1109.2	1106.1	1100.0	1095.9	1101.0	1122.6	1157.4	1172.8	1174.9	1178.0	1186.2
17.5°	1140.0	1136.9	1123.6	1113.3	1120.5	1155.4	1202.6	1219.0	1223.1	1226.2	1235.4
20°	1183.1	1181.0	1161.6	1136.9	1134.9	1180.0	1237.5	1259.0	1262.1	1266.2	1275.4
22.5°	1248.8	1239.5	1217.0	1170.8	1148.2	1194.4	1262.1	1291.9	1296.0	1300.1	1312.4
25°	1330.9	1326.8	1287.8	1217.0	1169.8	1208.8	1288.8	1325.7	1331.9	1337.0	1353.4
27.5°	1416.0	1409.9	1367.8	1275.4	1207.7	1237.5	1330.9	1372.9	1381.1	1389.3	1404.7
30°	1492.0	1489.9	1455.0	1354.5	1269.3	1291.9	1398.6	1449.9	1459.1	1469.4	1483.7
32.5°	1670.5	1671.5	1635.6	1533.0	1418.1	1390.4	1496.1	1573.0	1577.1	1589.4	1615.1
35°	2012.2	2016.3	2003.0	1921.9	1792.6	1678.7	1689.0	1764.9	1769.0	1779.3	1803.9
37.5°	2241.0	2249.2	2290.3	2315.9	2250.2	2197.9	2067.6	2037.8	2040.9	2034.8	2029.6
40°	2367.2	2379.5	2487.3	2620.7	2692.5	2693.5	2637.1	2505.7	2455.5	2441.1	2379.5
42.5°	2439.1	2459.6	2612.5	2840.3	3046.5	3188.1	3223.0	3077.3	3040.4	2974.7	2856.7
45°	2486.3	2510.9	2691.5	3003.4	3307.1	3548.3	3729.9	3665.2	3640.6	3600.6	3491.8
47.5°	2478.0	2497.5	2685.3	3058.8	3443.6	3786.3	4108.5	4175.2	4145.5	4135.2	4061.3
50°	2328.2	2345.7	2536.5	2921.3	3368.7	3876.6	4348.6	4537.4	4537.4	4556.9	4534.4
52.5°	2168.2	2182.5	2355.9	2701.7	3126.5	3788.4	4482.0	4795.0	4836.0	4869.9	4923.3
55°	2107.6	2125.1	2256.4	2551.9	2920.3	3536.0	4527.2	4987.9	5063.8	5121.3	5242.4
57.5°	2136.4	2153.8	2247.2	2470.9	2799.2	3278.4	4529.2	5247.5	5394.2	5512.2	5757.5
60°	2260.5	2276.9	2354.9	2545.8	2767.4	3129.6	4442.0	5661.0	5895.0	6116.6	6525.0
62.5°	2203.0	2223.6	2337.5	2669.9	3004.4	3016.8	4127.0	5981.2	6357.7	6685.1	7334.6
65°	1951.7	1973.2	2062.5	2373.4	3018.8	3066.0	3660.1	5987.3	6455.2	6897.5	7598.3
67.5°	1481.7	1489.9	1560.7	1810.0	2414.4	3120.4	3179.9	5278.3	5723.6	6217.2	6940.6
70°	757.3	771.6	792.2	999.4	1554.5	2578.6	2732.5	3890.0	4457.4	4967.4	5836.5
72.5°	262.7	267.8	288.3	381.7	757.3	1692.0	2391.9	2665.8	3008.5	3485.7	4492.3
75°	158.0	158.0	165.2	192.9	345.8	881.4	2128.1	2177.4	2223.6	2383.6	3042.4
77.5°	125.2	127.2	127.2	132.4	191.9	452.5	1616.1	2024.5	2030.7	2046.1	2156.9
80°	89.3	93.4	101.6	105.7	124.2	248.3	907.1	1777.2	1898.3	1956.8	2037.8
82.5°	66.7	70.8	86.2	91.3	96.5	138.5	407.4	1226.2	1446.8	1563.8	1849.0
85°	29.8	34.9	58.5	64.6	67.7	73.9	190.9	348.9	401.2	450.5	594.1
87.5°	5.1	5.1	9.2	13.3	19.5	18.5	42.1	59.5	60.5	70.8	79.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
2.5°	982.0	982.0	982.0	981.0	982.0	982.0	982.0	982.0	983.0	983.0	983.0
5°	1003.5	1001.5	1002.5	1002.5	1002.5	1001.5	1003.5	1002.5	1003.5	1006.6	1005.6
7.5°	1035.3	1037.4	1038.4	1039.4	1039.4	1039.4	1040.5	1042.5	1042.5	1045.6	1044.6
10°	1082.5	1081.5	1082.5	1085.6	1088.7	1089.7	1092.8	1091.8	1093.8	1097.9	1102.0
12.5°	1132.8	1134.9	1138.0	1141.0	1146.2	1147.2	1150.3	1151.3	1157.4	1157.4	1161.6
15°	1189.3	1190.3	1196.4	1197.5	1203.6	1205.7	1210.8	1212.9	1220.0	1221.1	1225.2
17.5°	1240.6	1242.6	1245.7	1248.8	1256.0	1259.0	1263.1	1267.2	1273.4	1275.4	1282.6
20°	1281.6	1285.7	1286.7	1292.9	1299.0	1303.2	1307.3	1311.4	1317.5	1320.6	1327.8
22.5°	1318.5	1322.6	1325.7	1330.9	1335.0	1341.1	1343.2	1350.4	1356.5	1361.6	1367.8
25°	1358.6	1364.7	1367.8	1377.0	1380.1	1386.3	1391.4	1398.6	1406.8	1412.9	1421.2
27.5°	1415.0	1424.2	1428.3	1438.6	1445.8	1448.9	1457.1	1467.3	1474.5	1481.7	1489.9
30°	1493.0	1510.4	1513.5	1520.7	1534.0	1536.1	1546.3	1554.5	1565.8	1573.0	1580.2
32.5°	1614.1	1635.6	1637.7	1645.9	1657.2	1661.3	1669.5	1678.7	1696.2	1699.2	1710.5
35°	1799.8	1809.0	1817.2	1820.3	1829.5	1834.7	1840.8	1851.1	1868.5	1866.5	1878.8
37.5°	2022.5	2025.5	2026.6	2016.3	2018.3	2009.1	2020.4	2022.5	2028.6	2033.7	2046.1
40°	2340.5	2308.7	2304.6	2280.0	2255.4	2242.0	2236.9	2216.4	2221.5	2223.6	2233.8
42.5°	2805.4	2743.8	2692.5	2657.6	2597.1	2567.3	2527.3	2495.5	2470.9	2480.1	2484.2
45°	3394.4	3306.1	3224.0	3117.3	3038.3	2981.9	2911.1	2847.4	2818.7	2805.4	2821.8
47.5°	3982.3	3904.3	3807.9	3698.1	3572.9	3479.5	3361.5	3257.9	3186.1	3159.4	3173.7
50°	4490.2	4418.4	4345.6	4280.9	4135.2	4033.6	3872.5	3738.1	3625.2	3567.8	3552.4
52.5°	4912.0	4874.0	4835.0	4780.6	4663.6	4562.1	4433.8	4301.4	4151.6	4034.6	3994.6
55°	5288.5	5311.1	5291.6	5292.7	5246.5	5181.8	5073.1	4974.6	4869.9	4737.5	4682.1
57.5°	5837.5	5970.9	5997.6	6064.3	6097.1	6132.0	6162.8	6104.3	6077.6	5979.1	5980.1
60°	6702.5	6897.5	7066.8	7220.7	7346.9	7470.0	7599.3	7656.8	7720.4	7750.2	7851.8
62.5°	7622.9	7808.7	8061.1	8267.3	8383.3	8543.4	8683.9	8775.3	8887.1	9006.1	9161.1
65°	7850.7	8074.4	8233.5	8371.0	8485.9	8571.1	8648.0	8756.8	8850.2	9039.0	9221.6
67.5°	7266.9	7445.4	7591.1	7726.6	7815.8	7887.7	7956.4	8028.2	8188.3	8359.7	8543.4
70°	6237.7	6453.2	6694.3	6869.8	6913.9	6975.5	7041.1	7134.5	7214.5	7394.1	7533.7
72.5°	5011.5	5321.4	5525.6	5768.8	5821.1	5914.5	5951.4	6024.3	6038.6	6136.1	6173.1
75°	3492.9	3847.9	4053.1	4231.7	4266.5	4215.2	4235.8	3978.2	3912.5	3859.2	3816.1
77.5°	2305.7	2401.1	2433.9	2405.2	2267.7	2160.0	2045.0	1932.2	1944.5	1853.1	1693.1
80°	2050.2	2071.7	2041.9	2013.2	1934.2	1821.3	1717.7	1612.0	1559.7	1504.3	1422.2
82.5°	1994.7	2077.9	2087.1	2052.2	1989.6	1866.5	1741.3	1584.3	1450.9	1327.8	1202.6
85°	667.0	811.6	876.3	936.8	955.3	976.9	903.0	802.4	681.3	600.3	470.0
87.5°	85.2	105.7	122.1	104.7	122.1	143.7	103.6	115.9	117.0	72.9	54.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
2.5°	984.0	983.0	983.0	983.0	982.0	983.0	983.0	983.0	983.0	983.0	982.0
5°	1006.6	1006.6	1009.7	1010.7	1008.7	1007.6	1008.7	1009.7	1009.7	1008.7	1009.7
7.5°	1048.7	1049.7	1051.8	1054.8	1052.8	1053.8	1054.8	1053.8	1056.9	1057.9	1056.9
10°	1102.0	1104.1	1109.2	1110.2	1109.2	1113.3	1114.4	1112.3	1114.4	1114.4	1118.5
12.5°	1163.6	1165.7	1171.8	1173.9	1175.9	1176.9	1180.0	1181.0	1184.1	1186.2	1189.3
15°	1230.3	1232.4	1236.5	1243.6	1245.7	1247.7	1249.8	1256.0	1257.0	1261.1	1264.2
17.5°	1286.7	1289.8	1296.0	1301.1	1304.2	1309.3	1311.4	1318.5	1320.6	1326.8	1331.9
20°	1331.9	1337.0	1342.1	1348.3	1353.4	1359.6	1361.6	1368.8	1372.9	1376.0	1382.2
22.5°	1372.9	1379.1	1386.3	1393.5	1397.6	1405.8	1408.8	1411.9	1421.2	1425.3	1431.4
25°	1426.3	1432.4	1440.7	1449.9	1454.0	1464.3	1467.3	1472.5	1482.7	1486.8	1496.1
27.5°	1499.1	1507.3	1513.5	1522.7	1527.9	1535.1	1542.2	1548.4	1557.6	1563.8	1574.0
30°	1590.5	1596.6	1606.9	1614.1	1622.3	1632.5	1640.7	1646.9	1652.0	1661.3	1672.6
32.5°	1724.9	1725.9	1729.0	1746.4	1754.6	1762.8	1774.1	1779.3	1787.5	1796.7	1809.0
35°	1892.1	1901.4	1908.6	1916.8	1926.0	1935.2	1939.3	1954.7	1961.9	1974.2	1986.5
37.5°	2058.4	2059.4	2075.8	2080.9	2089.2	2098.4	2112.8	2128.1	2146.6	2158.9	2178.4
40°	2236.9	2245.1	2265.6	2275.9	2286.2	2308.7	2320.0	2344.7	2375.4	2392.9	2425.7
42.5°	2495.5	2507.8	2544.7	2561.2	2585.8	2622.7	2646.3	2680.2	2692.5	2734.6	2750.0
45°	2834.1	2872.1	2925.4	2960.3	3004.4	3044.5	3065.0	3080.4	3098.8	3131.7	3127.6
47.5°	3200.4	3249.7	3309.2	3381.0	3409.7	3456.9	3483.6	3513.4	3497.0	3488.8	3480.5
50°	3576.0	3633.4	3712.4	3777.1	3821.2	3849.9	3872.5	3868.4	3833.5	3815.1	3763.8
52.5°	3993.6	4027.5	4102.4	4157.8	4184.5	4190.6	4185.5	4154.7	4121.9	4063.4	4002.8
55°	4633.9	4618.5	4648.3	4673.9	4665.7	4694.4	4620.6	4591.8	4510.8	4434.8	4353.8
57.5°	5935.0	5955.5	5789.3	5714.4	5701.0	5727.7	5597.4	5581.0	5385.0	5360.4	5223.9
60°	7837.4	7938.0	7807.6	7734.8	7537.8	7473.1	7327.4	7266.9	7079.1	6927.2	6735.4
62.5°	9267.8	9359.1	9413.5	9309.9	9194.9	9025.6	8805.0	8560.8	8361.7	8128.8	7925.6
65°	9397.1	9581.8	9707.0	9755.2	9674.1	9488.4	9216.5	8908.6	8603.9	8311.5	8054.9
67.5°	8792.7	8957.9	9151.8	9325.2	9335.5	9214.4	8982.5	8669.6	8317.6	7956.4	7655.8
70°	7754.3	7961.6	8130.9	8313.5	8440.7	8371.0	8255.0	7967.7	7602.4	7321.3	6975.5
72.5°	6306.4	6393.7	6434.7	6614.3	6616.3	6489.1	6407.0	6248.0	5953.5	5754.4	5490.7
75°	3682.7	3490.8	3286.6	3109.1	2964.4	2903.9	2635.0	2589.9	2409.3	2297.5	2133.3
77.5°	1518.6	1347.3	1126.7	943.0	761.4	679.3	560.3	507.9	440.2	410.4	390.9
80°	1302.1	1140.0	973.8	814.7	673.1	531.5	413.5	321.2	252.4	214.5	199.1
82.5°	1063.0	965.6	849.6	763.4	652.6	546.9	461.7	358.1	267.8	197.0	150.8
85°	383.8	315.0	253.4	232.9	185.7	152.9	128.3	109.8	90.3	71.8	63.6
87.5°	43.1	41.0	23.6	22.6	25.7	18.5	21.5	19.5	16.4	14.4	15.4
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9	978.9
2.5°	982.0	982.0	983.0	983.0	984.0	985.1	987.1	986.1	986.1	987.1	987.1
5°	1009.7	1012.8	1011.7	1011.7	1011.7	1012.8	1013.8	1009.7	1005.6	1001.5	999.4
7.5°	1057.9	1060.0	1062.0	1060.0	1062.0	1061.0	1058.9	1047.7	1034.3	1017.9	1006.6
10°	1120.5	1120.5	1122.6	1121.5	1125.6	1122.6	1116.4	1090.8	1062.0	1027.1	1001.5
12.5°	1188.2	1195.4	1192.3	1193.4	1201.6	1193.4	1179.0	1141.0	1089.7	1033.3	988.1
15°	1268.3	1271.3	1273.4	1270.3	1275.4	1268.3	1242.6	1182.1	1107.2	1028.2	961.5
17.5°	1333.9	1335.0	1336.0	1338.0	1345.2	1337.0	1292.9	1210.8	1111.3	1004.6	916.3
20°	1385.2	1390.4	1394.5	1394.5	1404.7	1392.4	1333.9	1225.2	1097.9	965.6	858.9
22.5°	1438.6	1442.7	1447.8	1448.9	1462.2	1449.9	1367.8	1222.1	1063.0	910.2	792.2
25°	1504.3	1508.4	1512.5	1517.6	1536.1	1518.6	1401.7	1209.8	1014.8	844.5	720.3
27.5°	1580.2	1589.4	1592.5	1600.7	1622.3	1595.6	1430.4	1191.3	961.5	768.6	644.4
30°	1681.8	1693.1	1697.2	1708.5	1738.2	1679.7	1446.8	1159.5	893.7	691.6	563.3
32.5°	1818.3	1833.7	1846.0	1858.3	1892.1	1763.9	1448.9	1113.3	814.7	605.4	485.3
35°	1996.8	2020.4	2029.6	2037.8	2069.7	1855.2	1439.6	1044.6	718.3	517.2	423.8
37.5°	2196.9	2220.5	2226.6	2230.8	2236.9	1933.2	1417.1	939.9	609.5	440.2	374.5
40°	2443.2	2463.7	2471.9	2465.7	2432.9	1993.7	1366.8	817.8	503.8	387.9	343.7
42.5°	2743.8	2774.6	2777.7	2750.0	2641.2	2027.6	1266.2	674.2	420.7	349.9	320.1
45°	3116.3	3114.2	3096.8	3077.3	2868.0	2014.2	1125.6	549.0	368.4	320.1	298.6
47.5°	3450.8	3415.9	3389.2	3331.8	3068.1	1936.3	944.0	454.6	336.6	297.6	280.1
50°	3724.8	3661.1	3604.7	3542.1	3216.8	1797.7	763.4	385.8	306.8	278.1	262.7
52.5°	3941.3	3864.3	3798.6	3737.1	3360.5	1643.8	625.9	335.5	278.1	258.6	243.2
55°	4279.9	4202.9	4098.3	4030.5	3580.1	1502.2	536.7	295.5	250.4	238.1	222.7
57.5°	5136.7	5069.0	4943.8	4768.3	4144.4	1448.9	486.4	264.7	227.8	220.6	208.3
60°	6632.7	6523.0	6359.8	6181.3	5291.6	1484.8	446.4	243.2	212.4	206.2	197.0
62.5°	7761.5	7568.6	7383.9	7218.7	6209.0	1483.7	394.0	226.8	201.1	198.0	188.8
65°	7807.6	7611.7	7425.9	7252.5	6229.5	1320.6	332.5	212.4	199.1	198.0	182.6
67.5°	7393.1	7180.7	7001.1	6782.6	5766.7	1032.3	266.8	203.2	207.3	205.2	180.6
70°	6715.9	6438.8	6291.1	6075.6	5075.1	722.4	219.6	206.2	224.7	218.6	183.7
72.5°	5271.1	5061.8	4837.1	4687.2	3973.1	456.6	184.7	208.3	231.9	221.6	191.9
75°	1961.9	2018.3	1926.0	1893.2	2018.3	267.8	164.2	193.9	207.3	191.9	174.4
77.5°	396.1	378.6	359.1	355.0	458.7	165.2	150.8	168.3	159.0	140.6	141.6
80°	189.8	184.7	178.5	177.5	170.3	137.5	139.6	143.7	120.1	108.8	115.9
82.5°	126.2	119.0	117.0	112.9	114.9	123.1	132.4	123.1	92.3	86.2	104.7
85°	58.5	56.4	55.4	55.4	61.6	110.8	109.8	90.3	63.6	61.6	104.7
87.5°	14.4	14.4	15.4	14.4	16.4	32.8	28.7	27.7	23.6	26.7	49.3
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):

	165°	175°	180°
0°	978.9	978.9	978.9
2.5°	986.1	987.1	986.1
5°	995.3	995.3	995.3
7.5°	995.3	992.2	991.2
10°	981.0	971.7	971.7
12.5°	956.3	940.9	938.9
15°	910.2	889.6	886.6
17.5°	851.7	824.0	818.8
20°	786.0	751.1	745.0
22.5°	714.2	674.2	671.1
25°	643.4	602.3	594.1
27.5°	564.4	524.3	520.2
30°	485.3	450.5	448.4
32.5°	418.7	397.1	393.0
35°	371.5	359.1	354.0
37.5°	340.7	331.4	330.4
40°	317.1	308.9	307.8
42.5°	297.6	290.4	289.4
45°	278.1	271.9	269.9
47.5°	258.6	252.4	251.4
50°	241.1	232.9	231.9
52.5°	224.7	216.5	214.5
55°	209.3	201.1	201.1
57.5°	196.0	187.8	186.8
60°	183.7	175.5	174.4
62.5°	174.4	164.2	163.2
65°	167.3	157.0	154.9
67.5°	163.2	150.8	147.8
70°	170.3	147.8	142.6
72.5°	171.4	144.7	137.5
75°	165.2	136.5	131.3
77.5°	144.7	122.1	117.0
80°	125.2	94.4	87.2
82.5°	119.0	77.0	66.7
85°	92.3	50.3	47.2
87.5°	52.3	27.7	22.6
90°	0.0	0.0	0.0

(END OF REPORT)