

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: P154329

Luminaire Tested: **VXM-E03-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154329
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
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-T2-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8395.1 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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



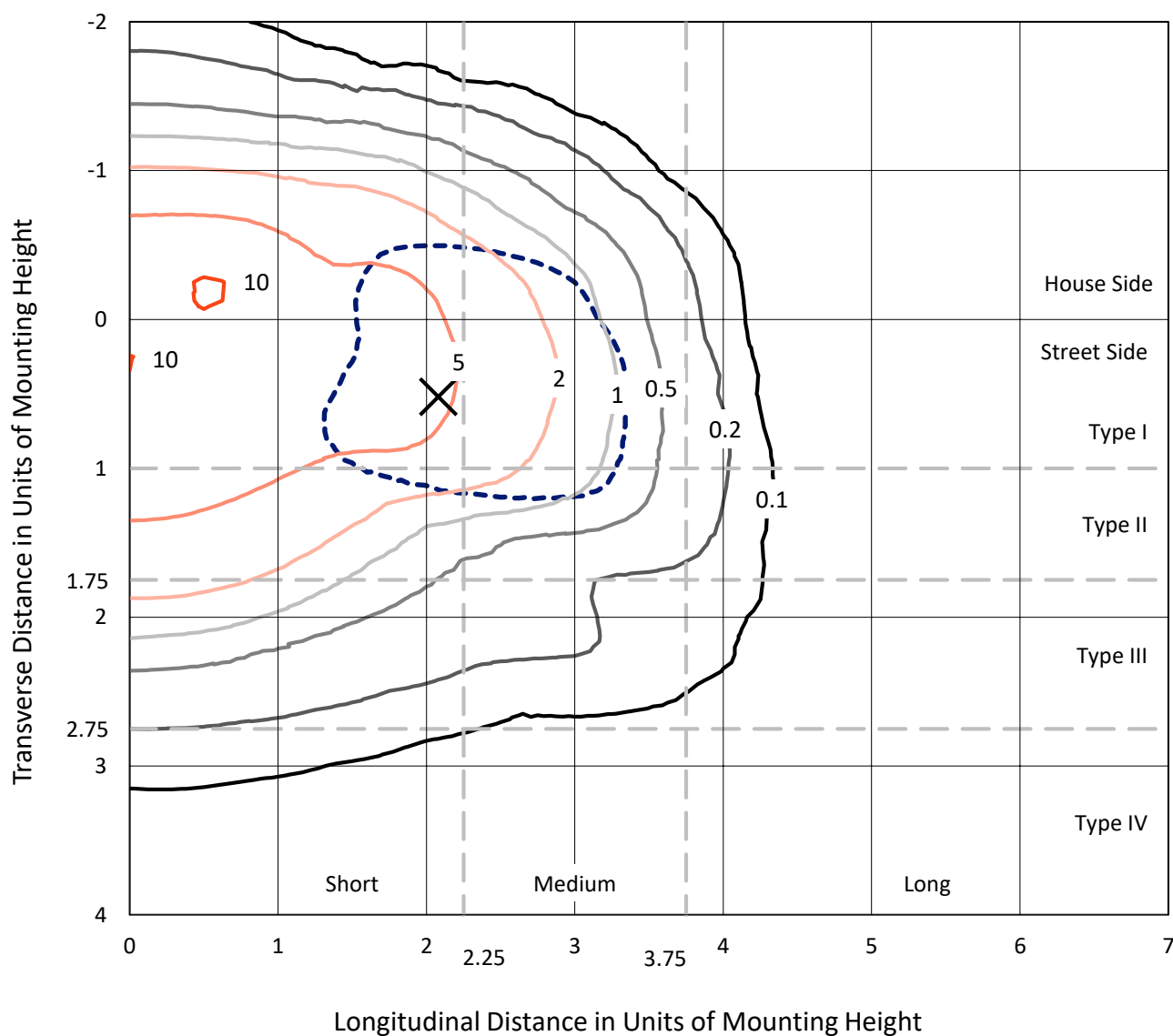
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

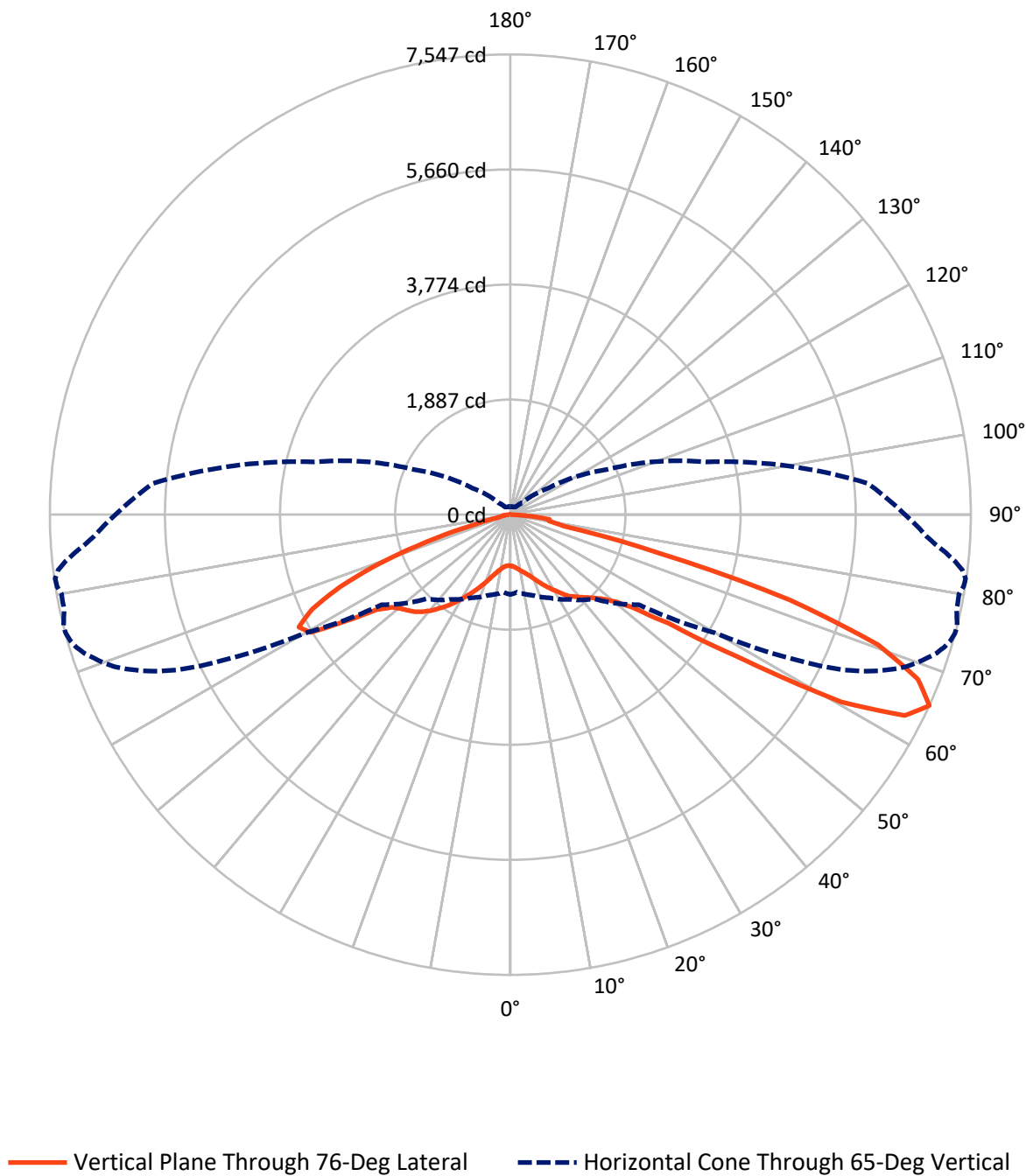


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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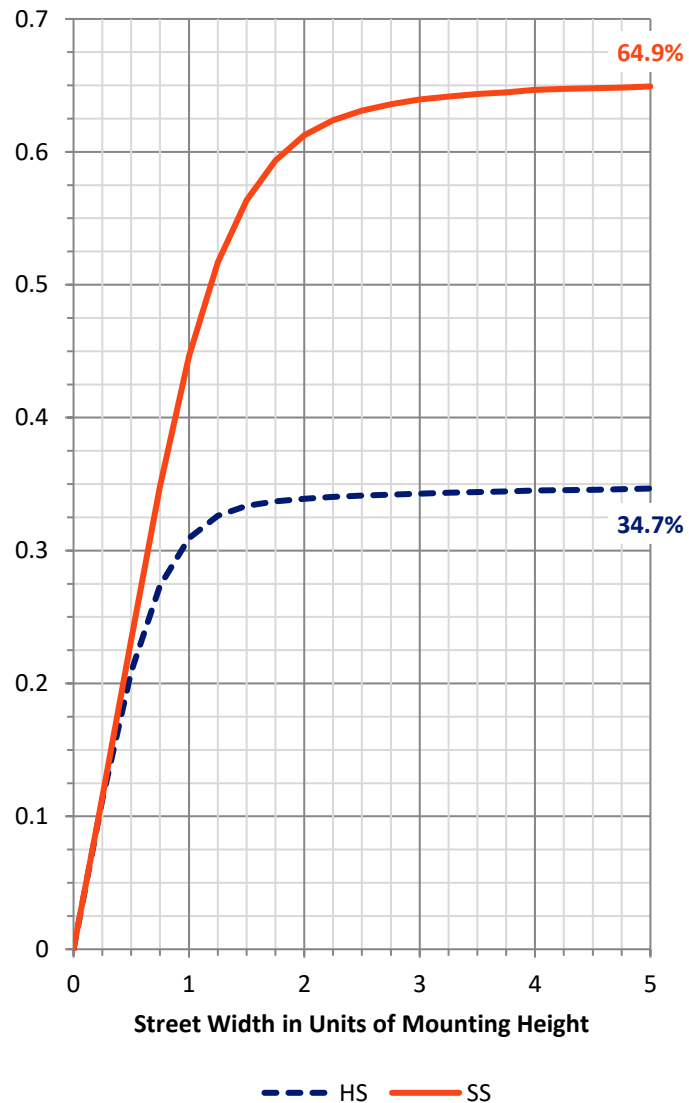
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2939.8	0.0	2939.8
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5455.4	0.0	5455.4
	% Fixture	65.0	0.0	65.0
Total	Lumens	8395.1	0.0	8395.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.0
10°-20°	288.7	3.4
20°-30°	567.2	6.8
30°-40°	942.4	11.2
40°-50°	1384.8	16.5
50°-60°	1917.2	22.8
60°-70°	2288.4	27.3
70°-80°	809.3	9.6
80°-90°	113.1	1.3
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°	8395.1	100.0
0°-180°	8395.1	100.0

Coefficient of Utilization



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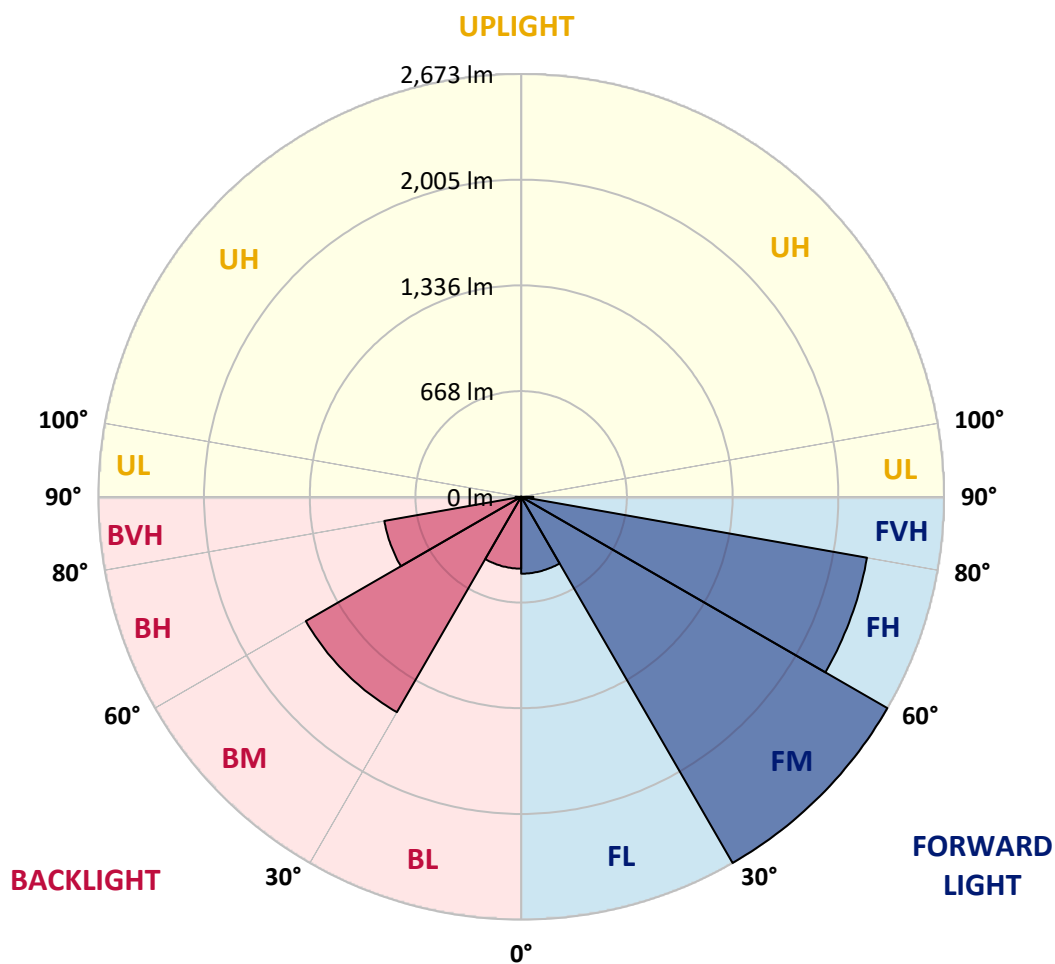
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	485.8	5.8			
FM	(30°-60°)	2672.8	31.8			
FH	(60°-80°)	2219.6	26.4			G2/5000
FVH	(80°-90°)	77.3	0.9			G1/100
BL	(0°-30°)	454.2	5.4	B1/500		
BM	(30°-60°)	1571.7	18.7	B2/2500		
BH	(60°-80°)	878.1	10.5	B2/1000		G2/1000
BVH	(80°-90°)	35.8	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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	875.9	876.8	875.0	874.1	871.3	866.8	863.1	859.5	859.5	859.5	856.7
5°	914.3	916.1	912.4	909.7	901.5	896.9	890.5	885.9	884.1	883.2	880.5
7.5°	962.7	959.9	954.5	952.6	946.2	936.2	924.3	915.2	915.2	914.3	915.2
10°	1011.1	1003.8	1001.0	998.3	988.2	975.5	961.8	951.7	950.8	949.9	947.1
12.5°	1059.5	1056.7	1054.0	1044.0	1033.9	1013.8	998.3	988.2	987.3	988.2	984.6
15°	1123.4	1117.0	1114.3	1096.9	1075.0	1053.1	1033.9	1024.8	1022.0	1023.0	1020.2
17.5°	1172.7	1172.7	1166.3	1147.2	1118.9	1088.7	1068.6	1063.1	1062.2	1062.2	1063.1
20°	1212.0	1211.1	1204.7	1189.2	1155.4	1125.2	1115.2	1113.4	1112.5	1112.5	1115.2
22.5°	1233.9	1232.1	1229.4	1212.0	1185.5	1165.4	1166.3	1171.8	1173.7	1175.5	1179.1
25°	1244.9	1242.2	1241.2	1229.4	1210.2	1207.4	1223.9	1238.5	1242.2	1245.8	1250.4
27.5°	1263.2	1258.6	1260.4	1255.9	1251.3	1259.5	1293.3	1308.8	1311.6	1316.1	1318.9
30°	1313.4	1311.6	1318.9	1320.7	1324.4	1336.2	1367.3	1381.9	1388.3	1388.3	1401.1
32.5°	1409.3	1410.2	1412.0	1431.2	1437.6	1445.8	1462.3	1474.1	1475.1	1476.0	1487.8
35°	1538.1	1543.6	1559.1	1575.5	1591.1	1590.1	1580.1	1586.5	1581.9	1587.4	1588.3
37.5°	1700.7	1693.4	1716.2	1753.6	1777.4	1771.0	1726.2	1697.0	1705.2	1701.6	1698.8
40°	1825.8	1834.0	1877.8	1927.2	1945.4	1965.5	1907.1	1856.8	1849.5	1835.8	1827.6
42.5°	1998.4	1999.3	2034.9	2071.5	2124.5	2168.3	2130.8	2058.7	2036.8	2020.3	1984.7
45°	2158.2	2155.5	2184.7	2229.5	2292.5	2355.5	2369.2	2290.7	2282.5	2253.2	2206.7
47.5°	2265.1	2261.5	2281.5	2340.0	2442.3	2545.5	2602.1	2578.4	2562.9	2551.0	2477.9
50°	2337.3	2330.0	2352.8	2414.9	2529.1	2688.0	2836.0	2856.0	2849.7	2849.7	2803.1
52.5°	2391.2	2391.2	2407.6	2457.8	2573.8	2772.0	3036.9	3138.3	3146.5	3155.6	3152.9
55°	2361.0	2365.6	2406.7	2479.7	2602.1	2830.5	3203.1	3425.1	3470.7	3509.1	3552.9
57.5°	2257.8	2273.3	2328.1	2447.8	2609.4	2874.3	3387.6	3826.9	3955.7	4067.1	4240.7
60°	2107.1	2127.2	2206.7	2359.2	2555.6	2803.1	3452.5	4166.7	4371.3	4614.2	5067.3
62.5°	1848.6	1868.7	1946.3	2098.9	2266.9	2530.0	3183.9	4216.9	4543.9	4888.3	5573.3
65°	1309.7	1277.8	1367.3	1504.3	1697.0	1951.8	2572.9	3879.9	4350.3	4817.0	5662.8
67.5°	729.8	727.0	781.8	884.1	1068.6	1342.6	1772.8	2975.7	3408.6	3937.5	4975.9
70°	503.3	508.7	543.4	654.0	806.5	1043.0	1263.2	1868.7	2180.2	2539.1	3560.2
72.5°	353.5	365.3	384.5	450.3	606.5	878.6	1290.6	1117.0	1272.3	1517.1	2140.9
75°	207.3	215.6	229.3	261.2	345.2	587.3	1336.2	981.9	981.9	1039.4	1295.1
77.5°	127.9	127.9	136.1	148.9	183.6	287.7	951.7	1103.3	1072.3	1039.4	1042.1
80°	65.8	70.3	82.2	88.6	102.3	131.5	427.4	1029.3	1128.9	1195.6	1149.0
82.5°	30.1	33.8	50.2	53.9	59.4	69.4	147.0	585.5	784.6	1033.0	1290.6
85°	15.5	15.5	26.5	32.9	35.6	32.0	53.9	236.6	358.0	546.2	854.9
87.5°	2.7	2.7	4.6	5.5	8.2	7.3	9.1	13.7	22.8	24.7	25.6
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°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	855.8	856.7	855.8	854.9	853.1	853.1	853.1	852.2	852.2	852.2	851.2
5°	880.5	876.8	877.7	875.9	875.0	874.1	875.0	873.2	871.3	872.2	871.3
7.5°	911.5	909.7	906.0	906.0	905.1	903.3	903.3	900.6	899.7	897.8	896.9
10°	946.2	941.7	943.5	941.7	942.6	938.9	937.1	935.3	933.4	933.4	934.4
12.5°	981.9	980.9	978.2	976.4	976.4	973.6	974.5	973.6	970.9	970.0	967.2
15°	1018.4	1018.4	1015.6	1016.6	1015.6	1013.8	1012.0	1012.0	1010.2	1008.3	1009.3
17.5°	1061.3	1061.3	1061.3	1061.3	1062.2	1059.5	1060.4	1058.6	1056.7	1060.4	1060.4
20°	1117.0	1120.7	1120.7	1119.8	1124.3	1121.6	1120.7	1125.2	1120.7	1127.1	1126.2
22.5°	1181.0	1184.6	1184.6	1188.3	1189.2	1191.9	1193.7	1191.9	1195.6	1199.2	1199.2
25°	1252.2	1255.9	1258.6	1264.1	1266.8	1265.0	1265.9	1270.5	1272.3	1276.0	1279.6
27.5°	1327.1	1328.0	1331.7	1338.1	1342.6	1344.5	1345.4	1352.7	1353.6	1355.4	1359.1
30°	1400.2	1409.3	1407.5	1415.7	1418.4	1421.2	1426.7	1429.4	1435.8	1439.4	1439.4
32.5°	1486.0	1484.2	1491.5	1497.9	1502.5	1507.0	1511.6	1515.2	1518.9	1520.7	1529.9
35°	1592.9	1596.5	1596.5	1597.4	1608.4	1609.3	1613.0	1621.2	1623.9	1629.4	1633.1
37.5°	1698.8	1692.4	1691.5	1691.5	1687.9	1690.6	1691.5	1692.4	1696.1	1697.0	1700.7
40°	1817.6	1809.3	1802.0	1797.5	1790.2	1780.1	1778.3	1773.7	1776.5	1775.6	1776.5
42.5°	1980.1	1957.3	1940.0	1927.2	1912.6	1901.6	1893.4	1881.5	1873.3	1863.2	1861.4
45°	2187.5	2144.5	2115.3	2094.3	2073.3	2043.2	2025.8	2007.5	1991.1	1974.7	1961.0
47.5°	2459.7	2414.0	2367.4	2329.0	2296.2	2247.8	2198.4	2171.0	2139.1	2110.8	2090.7
50°	2780.2	2725.4	2703.5	2649.6	2608.5	2535.5	2474.3	2429.5	2365.6	2322.6	2285.2
52.5°	3108.1	3094.4	3082.6	3036.9	2988.5	2946.5	2892.6	2814.0	2749.2	2699.9	2623.1
55°	3554.8	3561.2	3556.6	3531.9	3514.6	3474.4	3452.5	3384.0	3354.7	3283.5	3203.1
57.5°	4306.4	4357.6	4422.4	4448.0	4482.7	4449.8	4488.2	4534.8	4418.8	4459.0	4386.8
60°	5266.4	5501.1	5640.9	5812.6	5924.9	6082.0	6110.3	6151.4	6139.5	6162.4	6209.0
62.5°	5852.7	6131.3	6398.9	6593.5	6801.7	6916.8	7055.6	7152.4	7252.9	7320.5	7301.3
65°	6025.4	6312.2	6555.1	6767.9	6954.2	7094.9	7223.7	7345.2	7437.4	7502.3	7540.6
67.5°	5391.5	5766.0	6021.7	6271.1	6511.3	6659.2	6767.0	6884.8	7020.0	7132.4	7154.3
70°	4057.1	4618.8	4981.4	5280.1	5562.3	5761.4	5912.1	6021.7	6126.8	6207.1	6294.8
72.5°	2537.3	3028.7	3443.3	3830.6	4130.2	4404.2	4531.1	4774.1	4742.1	4803.3	4869.1
75°	1520.7	1760.0	1988.4	2261.5	2418.6	2646.9	2688.0	2728.2	2707.2	2638.7	2689.8
77.5°	1056.7	1096.0	1094.2	1078.7	1062.2	1022.0	970.0	941.7	922.5	895.1	906.0
80°	1063.1	978.2	848.5	713.3	589.1	506.9	474.0	474.0	507.8	556.2	604.6
82.5°	1270.5	1180.0	1052.2	880.5	697.8	568.1	481.3	446.6	453.0	502.3	564.5
85°	856.7	876.8	769.0	703.3	557.1	433.8	363.5	295.0	261.2	269.4	305.1
87.5°	31.1	37.4	13.7	18.3	12.8	11.0	11.0	11.9	8.2	10.0	9.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	850.3	849.4	849.4	847.6	847.6	846.7	846.7	845.8	844.8	844.8	843.9
5°	870.4	869.5	867.7	866.8	864.9	864.9	864.0	862.2	862.2	860.4	859.5
7.5°	898.7	896.9	895.1	894.2	893.3	890.5	890.5	888.7	888.7	886.9	885.9
10°	932.5	930.7	928.9	929.8	927.1	926.1	924.3	924.3	921.6	920.7	920.7
12.5°	969.1	968.2	968.2	965.4	964.5	963.6	959.9	959.9	959.9	958.1	959.0
15°	1008.3	1009.3	1006.5	1009.3	1008.3	1005.6	1005.6	1005.6	1001.9	1006.5	1002.9
17.5°	1061.3	1064.1	1062.2	1063.1	1061.3	1061.3	1062.2	1061.3	1063.1	1063.1	1068.6
20°	1127.1	1128.0	1132.6	1130.7	1130.7	1129.8	1131.6	1132.6	1136.2	1134.4	1138.0
22.5°	1199.2	1203.8	1204.7	1208.4	1208.4	1207.4	1209.3	1212.9	1214.8	1217.5	1216.6
25°	1281.4	1284.2	1287.8	1283.3	1290.6	1290.6	1292.4	1297.0	1297.9	1297.9	1304.3
27.5°	1358.2	1365.5	1366.4	1370.9	1368.2	1370.0	1376.4	1379.2	1382.8	1382.8	1384.6
30°	1444.9	1447.7	1449.5	1455.0	1454.1	1455.0	1455.9	1460.4	1460.4	1465.0	1469.6
32.5°	1534.4	1536.3	1538.1	1543.6	1545.4	1549.0	1547.2	1550.9	1555.4	1556.3	1559.1
35°	1641.3	1643.1	1644.9	1653.2	1654.1	1660.5	1662.3	1660.5	1667.8	1663.2	1667.8
37.5°	1703.4	1711.6	1713.4	1718.9	1717.1	1721.7	1724.4	1728.1	1729.9	1733.5	1740.8
40°	1779.2	1781.9	1787.4	1790.2	1793.8	1794.7	1798.4	1801.1	1803.9	1812.1	1820.3
42.5°	1856.8	1860.5	1863.2	1866.9	1871.5	1875.1	1877.8	1886.1	1887.9	1893.4	1908.9
45°	1950.9	1949.1	1950.0	1950.9	1952.7	1957.3	1965.5	1973.8	1979.2	1992.0	2004.8
47.5°	2067.8	2056.0	2051.4	2044.1	2045.9	2056.0	2057.8	2071.5	2082.4	2094.3	2109.8
50°	2245.0	2213.0	2193.9	2174.7	2172.9	2178.3	2185.6	2200.3	2213.0	2228.6	2250.5
52.5°	2542.8	2481.6	2443.2	2390.2	2375.6	2372.9	2367.4	2375.6	2379.3	2400.3	2441.4
55°	3145.6	3032.3	2959.3	2877.1	2800.3	2777.5	2733.7	2742.8	2733.7	2746.4	2807.6
57.5°	4404.2	4313.8	4242.5	4137.5	4006.0	3866.2	3831.5	3688.1	3716.4	3798.6	3745.6
60°	6231.8	6198.9	6147.8	6097.5	5917.6	5816.2	5650.9	5632.6	5516.6	5517.5	5441.7
62.5°	7254.7	7296.8	7265.7	7251.1	7241.0	7209.1	7126.9	7028.2	6880.3	6773.4	6616.3
65°	7547.0	7511.4	7477.6	7473.0	7470.3	7522.4	7534.2	7464.8	7330.5	7164.3	6983.5
67.5°	7206.3	7186.2	7188.1	7149.7	7173.5	7263.9	7326.9	7307.7	7184.4	6983.5	6753.3
70°	6395.3	6356.0	6396.2	6446.4	6482.0	6534.1	6597.1	6612.7	6500.3	6293.9	6059.2
72.5°	4788.7	4795.1	4833.4	4847.2	4990.5	4975.9	5032.6	4848.1	4766.8	4570.4	4449.8
75°	2519.9	2478.8	2585.7	2359.2	2266.0	2330.9	2149.1	1974.7	2011.2	2041.3	1824.0
77.5°	890.5	833.0	735.2	696.0	579.1	490.5	401.0	361.7	340.7	329.7	316.0
80°	639.3	657.6	637.5	590.0	501.4	401.9	316.9	250.3	214.6	195.5	182.7
82.5°	646.7	718.8	750.8	737.1	656.7	496.9	327.9	209.2	155.3	129.7	120.6
85°	347.1	380.0	365.3	307.8	276.7	165.3	113.3	75.8	63.9	58.5	53.9
87.5°	13.7	11.0	9.1	9.1	10.0	11.0	9.1	10.0	9.1	9.1	9.1
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4	839.4
2.5°	842.1	842.1	842.1	841.2	839.4	834.8	830.2	826.6	823.8	821.1	817.4
5°	858.5	856.7	856.7	856.7	849.4	842.1	835.7	829.3	823.8	819.3	815.6
7.5°	885.9	885.0	881.4	880.5	875.0	863.1	855.8	844.8	838.5	832.1	830.2
10°	918.8	917.9	917.0	916.1	908.8	896.9	887.8	877.7	868.6	859.5	850.3
12.5°	957.2	956.3	955.4	952.6	949.9	943.5	933.4	922.5	911.5	892.3	882.3
15°	1004.7	1006.5	1004.7	1003.8	1001.9	1002.9	996.5	980.9	963.6	938.9	917.9
17.5°	1067.7	1065.9	1065.0	1068.6	1067.7	1072.3	1070.4	1050.4	1023.9	984.6	948.1
20°	1137.1	1137.1	1140.8	1143.5	1151.7	1163.6	1158.1	1133.5	1085.1	1030.3	982.8
22.5°	1220.2	1222.1	1225.7	1223.9	1236.7	1255.9	1257.7	1223.0	1160.0	1084.1	1017.5
25°	1307.0	1308.8	1305.2	1310.7	1331.7	1359.1	1364.5	1315.2	1232.1	1133.5	1046.7
27.5°	1389.2	1391.0	1391.0	1398.3	1418.4	1465.0	1470.5	1415.7	1305.2	1176.4	1067.7
30°	1469.6	1476.9	1478.7	1480.5	1510.7	1575.5	1587.4	1507.9	1369.1	1208.4	1082.3
32.5°	1571.0	1573.7	1577.4	1581.9	1616.6	1696.1	1696.1	1587.4	1410.2	1228.5	1085.1
35°	1679.7	1680.6	1688.8	1689.7	1739.0	1818.5	1803.0	1653.2	1439.4	1223.9	1065.0
37.5°	1745.4	1749.1	1757.3	1768.2	1820.3	1932.6	1897.0	1709.8	1444.9	1193.7	1019.3
40°	1826.7	1834.0	1842.2	1853.2	1930.8	2048.6	1976.5	1745.4	1422.1	1134.4	950.8
42.5°	1914.4	1924.4	1937.2	1957.3	2049.6	2150.9	2036.8	1750.9	1370.0	1067.7	869.5
45°	2013.0	2031.3	2045.9	2069.7	2173.8	2239.5	2073.3	1718.9	1304.3	980.0	782.7
47.5°	2127.2	2141.8	2167.4	2193.0	2297.1	2299.8	2077.0	1656.8	1214.8	892.3	690.5
50°	2267.8	2277.0	2315.3	2330.9	2428.6	2362.8	2050.5	1572.8	1120.7	793.7	588.2
52.5°	2455.1	2467.9	2517.2	2540.9	2610.4	2448.7	2013.0	1481.5	1012.9	683.2	483.2
55°	2825.0	2880.7	2915.4	2956.5	3001.3	2643.2	1996.6	1383.7	891.4	555.3	382.7
57.5°	3863.5	3845.2	3921.9	4015.1	4014.2	3088.0	2095.2	1299.7	748.0	424.7	294.1
60°	5410.7	5428.0	5388.8	5444.5	5267.3	3639.7	2230.4	1211.1	586.4	316.0	224.7
62.5°	6560.6	6460.1	6404.4	6338.7	5948.7	3700.0	2131.8	1029.3	426.5	221.9	172.6
65°	6832.8	6715.0	6595.3	6470.2	5882.0	3335.6	1749.1	755.3	275.8	152.5	137.0
67.5°	6564.2	6375.2	6222.7	6093.9	5389.7	2764.7	1278.7	464.0	158.0	123.3	116.9
70°	5868.3	5659.1	5412.5	5268.2	4538.4	2037.7	819.3	250.3	121.5	109.6	106.9
72.5°	4295.5	4123.8	3854.3	3689.0	3258.8	1238.5	457.6	140.7	113.3	105.0	101.4
75°	1673.3	1583.7	1471.4	1480.5	1321.6	548.0	207.3	121.5	110.5	103.2	99.6
77.5°	287.7	280.4	259.4	259.4	295.0	200.0	137.9	122.4	109.6	101.4	95.0
80°	172.6	169.0	160.7	158.9	153.4	140.7	132.4	124.2	107.8	95.9	87.7
82.5°	113.3	108.7	105.9	105.0	114.2	123.3	124.2	123.3	102.3	83.1	71.2
85°	48.4	48.4	48.4	49.3	65.8	99.6	102.3	109.6	84.0	64.8	51.1
87.5°	8.2	10.0	10.0	11.0	11.9	21.9	27.4	35.6	28.3	27.4	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):

	165°	175°	180°
0°	839.4	839.4	839.4
2.5°	816.5	814.7	814.7
5°	813.8	812.0	812.9
7.5°	824.8	821.1	822.0
10°	844.8	841.2	839.4
12.5°	870.4	865.9	865.9
15°	896.9	885.9	885.0
17.5°	918.8	905.1	903.3
20°	943.5	925.2	922.5
22.5°	966.3	941.7	938.0
25°	982.8	952.6	948.1
27.5°	990.1	954.5	950.8
30°	995.6	955.4	949.9
32.5°	990.1	947.1	942.6
35°	959.9	913.4	910.6
37.5°	907.9	855.8	852.2
40°	839.4	784.6	775.4
42.5°	751.7	700.5	690.5
45°	666.7	608.3	603.7
47.5°	575.4	519.7	522.4
50°	479.5	429.3	428.4
52.5°	388.2	344.3	341.6
55°	306.0	274.9	272.2
57.5°	242.0	225.6	222.9
60°	197.3	189.1	186.3
62.5°	158.9	156.2	155.3
65°	132.4	132.4	132.4
67.5°	115.1	116.0	116.0
70°	105.9	106.9	105.9
72.5°	102.3	105.0	105.0
75°	99.6	101.4	97.7
77.5°	97.7	98.6	92.2
80°	96.8	95.9	84.0
82.5°	84.0	81.3	71.2
85°	76.7	58.5	49.3
87.5°	39.3	27.4	21.0
90°	0.0	0.0	0.0

(END OF REPORT)