

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: P154328

Luminaire Tested: **VXM-E03-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154328
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-T2-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7757.6 lumens
Efficiency: N/A
Efficacy: 103.2 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



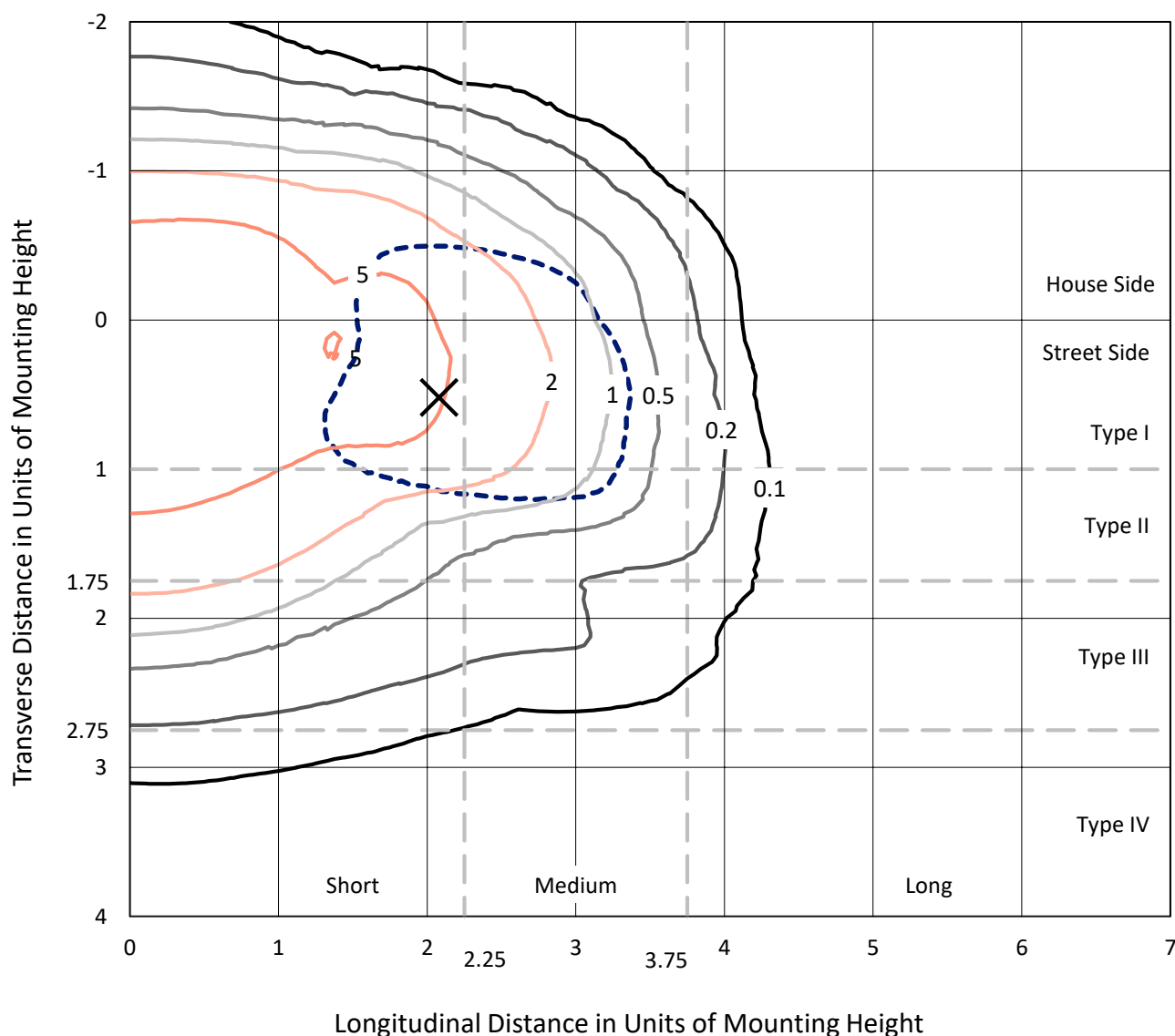
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

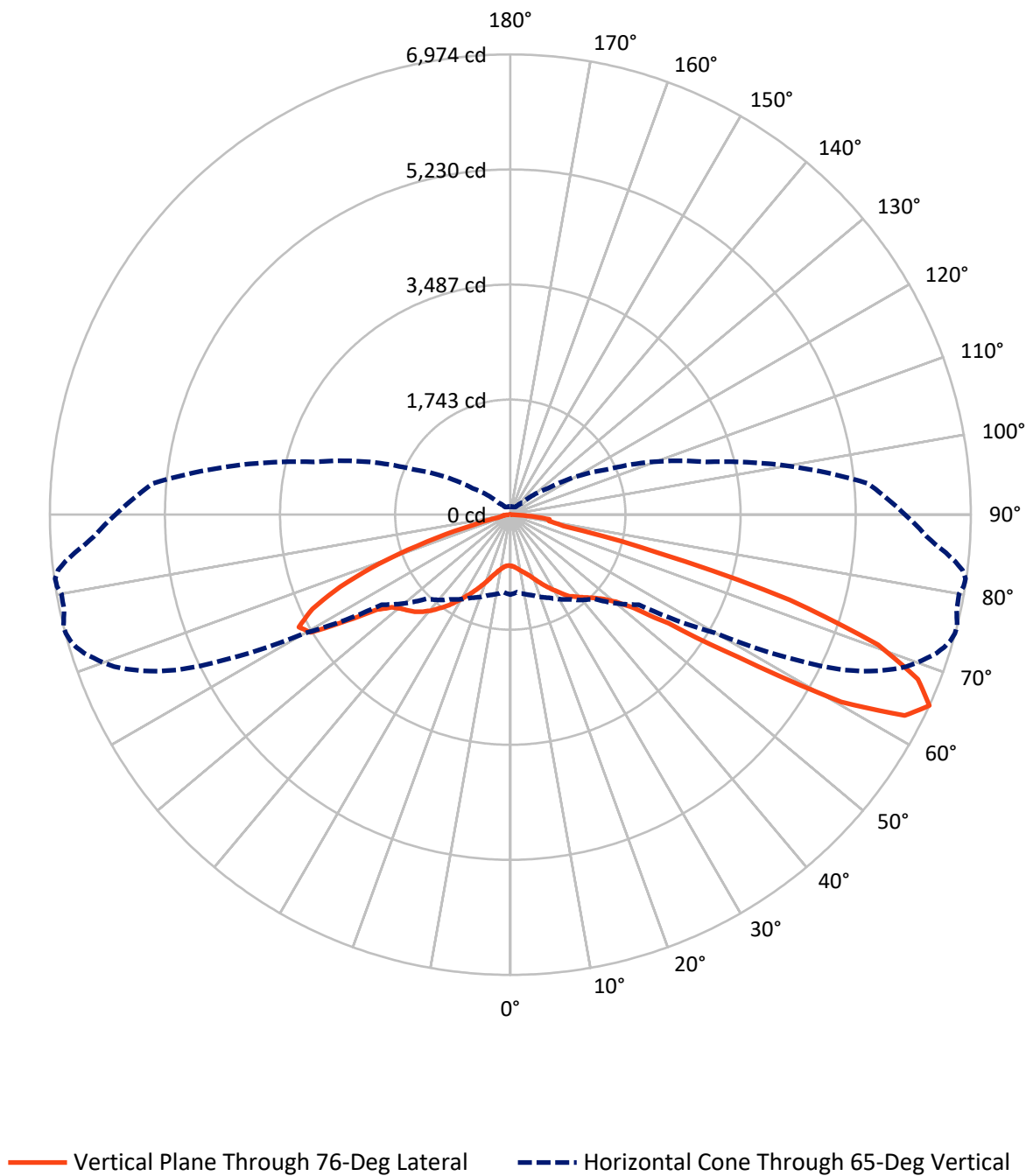


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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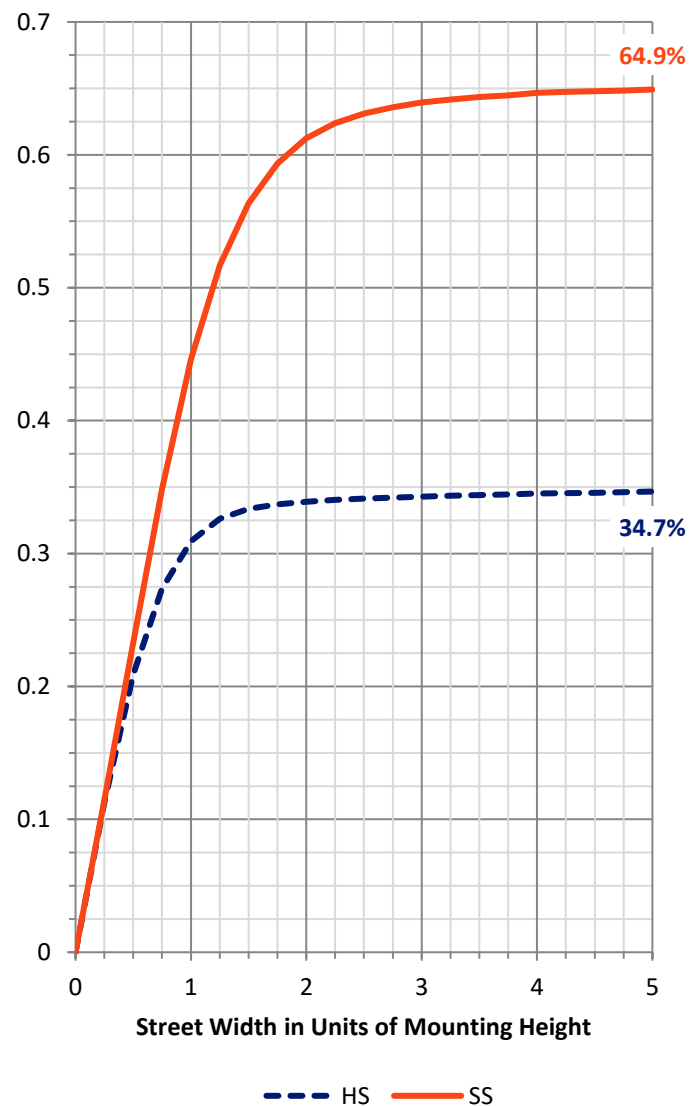
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2716.5	0.0	2716.5
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5041.1	0.0	5041.1
	% Fixture	65.0	0.0	65.0
Total	Lumens	7757.6	0.0	7757.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.0
10°-20°	266.8	3.4
20°-30°	524.1	6.8
30°-40°	870.9	11.2
40°-50°	1279.6	16.5
50°-60°	1771.6	22.8
60°-70°	2114.6	27.3
70°-80°	747.8	9.6
80°-90°	104.5	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°	7757.6	100.0
0°-180°	7757.6	100.0

Coefficient of Utilization



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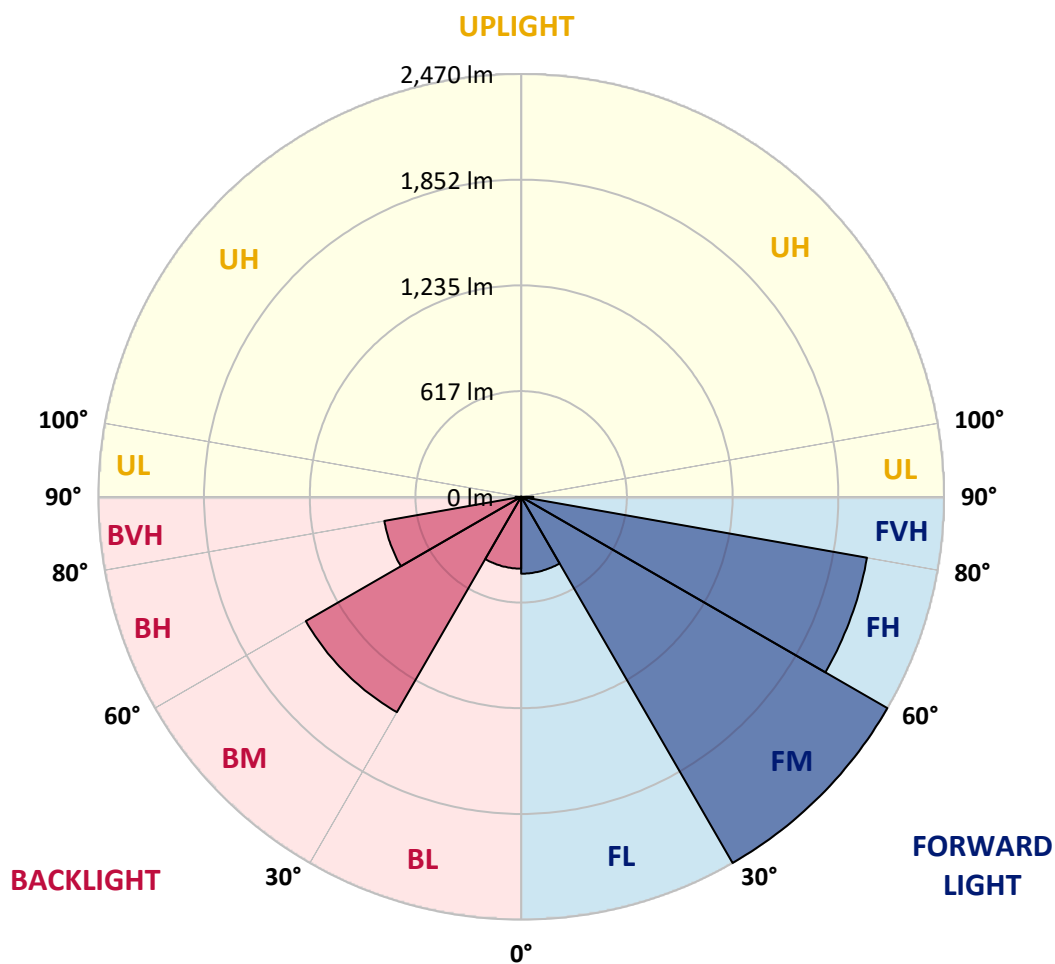
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.9	5.8			
FM	(30°-60°)	2469.8	31.8			
FH	(60°-80°)	2051.0	26.4			G2/5000
FVH	(80°-90°)	71.4	0.9			G1/100
BL	(0°-30°)	419.7	5.4	B1/500		
BM	(30°-60°)	1452.3	18.7	B2/2500		
BH	(60°-80°)	811.4	10.5	B2/1000		G2/1000
BVH	(80°-90°)	33.1	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°	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6
2.5°	809.4	810.2	808.5	807.7	805.2	800.9	797.6	794.2	794.2	794.2	791.7
5°	844.8	846.5	843.1	840.6	833.0	828.8	822.9	818.7	817.0	816.1	813.6
7.5°	889.6	887.0	882.0	880.3	874.4	865.1	854.1	845.7	845.7	844.8	845.7
10°	934.3	927.5	925.0	922.5	913.2	901.4	888.7	879.4	878.6	877.8	875.2
12.5°	979.0	976.5	974.0	964.7	955.4	936.8	922.5	913.2	912.4	913.2	909.8
15°	1038.1	1032.2	1029.7	1013.6	993.4	973.1	955.4	947.0	944.4	945.3	942.7
17.5°	1083.7	1083.7	1077.8	1060.1	1033.9	1006.0	987.5	982.4	981.6	981.6	982.4
20°	1120.0	1119.1	1113.2	1098.9	1067.6	1039.8	1030.5	1028.8	1028.0	1028.0	1030.5
22.5°	1140.2	1138.5	1136.0	1120.0	1095.5	1076.9	1077.8	1082.8	1084.5	1086.2	1089.6
25°	1150.4	1147.8	1147.0	1136.0	1118.3	1115.8	1130.9	1144.5	1147.8	1151.2	1155.4
27.5°	1167.2	1163.0	1164.7	1160.5	1156.3	1163.9	1195.1	1209.4	1212.0	1216.2	1218.7
30°	1213.7	1212.0	1218.7	1220.4	1223.8	1234.8	1263.5	1277.0	1282.9	1282.9	1294.7
32.5°	1302.3	1303.1	1304.8	1322.5	1328.4	1336.0	1351.2	1362.2	1363.0	1363.9	1374.9
35°	1421.3	1426.3	1440.7	1455.9	1470.2	1469.4	1460.1	1466.0	1461.8	1466.9	1467.7
37.5°	1571.5	1564.8	1585.9	1620.5	1642.4	1636.5	1595.1	1568.1	1575.7	1572.4	1569.8
40°	1687.1	1694.7	1735.2	1780.8	1797.7	1816.3	1762.3	1715.8	1709.1	1696.4	1688.8
42.5°	1846.7	1847.5	1880.4	1914.2	1963.1	2003.6	1969.0	1902.4	1882.1	1866.9	1834.0
45°	1994.4	1991.8	2018.8	2060.2	2118.4	2176.7	2189.3	2116.7	2109.1	2082.1	2039.1
47.5°	2093.1	2089.7	2108.3	2162.3	2256.8	2352.2	2404.5	2382.6	2368.2	2357.3	2289.7
50°	2159.8	2153.0	2174.1	2231.5	2337.0	2483.9	2620.6	2639.2	2633.3	2633.3	2590.2
52.5°	2209.6	2209.6	2224.8	2271.2	2378.4	2561.5	2806.3	2900.0	2907.5	2916.0	2913.5
55°	2181.7	2185.9	2223.9	2291.4	2404.5	2615.5	2959.9	3165.0	3207.2	3242.6	3283.1
57.5°	2086.3	2100.7	2151.3	2261.9	2411.3	2656.0	3130.4	3536.3	3655.3	3758.3	3918.6
60°	1947.1	1965.7	2039.1	2180.0	2361.5	2590.2	3190.3	3850.3	4039.3	4263.8	4682.5
62.5°	1708.2	1726.8	1798.5	1939.5	2094.8	2337.9	2942.2	3896.7	4198.9	4517.0	5150.0
65°	1210.3	1180.7	1263.5	1390.1	1568.1	1803.6	2377.5	3585.3	4019.9	4451.2	5232.7
67.5°	674.3	671.8	722.5	817.0	987.5	1240.7	1638.2	2749.7	3149.8	3638.4	4598.1
70°	465.0	470.1	502.2	604.3	745.2	963.8	1167.2	1726.8	2014.6	2346.3	3289.9
72.5°	326.6	337.6	355.3	416.1	560.4	811.9	1192.6	1032.2	1175.7	1401.9	1978.3
75°	191.6	199.2	211.8	241.4	319.0	542.7	1234.8	907.3	907.3	960.5	1196.8
77.5°	118.2	118.2	125.8	137.6	169.6	265.9	879.4	1019.5	990.8	960.5	963.0
80°	60.8	65.0	76.0	81.9	94.5	121.5	395.0	951.2	1043.2	1104.8	1061.7
82.5°	27.9	31.2	46.4	49.8	54.9	64.1	135.9	541.0	725.0	954.6	1192.6
85°	14.3	14.3	24.5	30.4	32.9	29.5	49.8	218.6	330.8	504.7	790.0
87.5°	2.5	2.5	4.2	5.1	7.6	6.8	8.4	12.7	21.1	22.8	23.6
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°	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6
2.5°	790.8	791.7	790.8	790.0	788.3	788.3	788.3	787.4	787.4	787.4	786.6
5°	813.6	810.2	811.1	809.4	808.5	807.7	808.5	806.9	805.2	806.0	805.2
7.5°	842.3	840.6	837.2	837.2	836.4	834.7	834.7	832.2	831.3	829.6	828.8
10°	874.4	870.2	871.8	870.2	871.0	867.6	865.9	864.2	862.6	862.6	863.4
12.5°	907.3	906.4	903.9	902.2	902.2	899.7	900.5	899.7	897.2	896.3	893.8
15°	941.0	941.0	938.5	939.4	938.5	936.8	935.1	935.1	933.5	931.8	932.6
17.5°	980.7	980.7	980.7	980.7	981.6	979.0	979.9	978.2	976.5	979.9	979.9
20°	1032.2	1035.6	1035.6	1034.7	1039.0	1036.4	1035.6	1039.8	1035.6	1041.5	1040.6
22.5°	1091.3	1094.7	1094.7	1098.0	1098.9	1101.4	1103.1	1101.4	1104.8	1108.2	1108.2
25°	1157.1	1160.5	1163.0	1168.1	1170.6	1168.9	1169.8	1174.0	1175.7	1179.1	1182.4
27.5°	1226.3	1227.2	1230.5	1236.4	1240.7	1242.4	1243.2	1250.0	1250.8	1252.5	1255.9
30°	1293.8	1302.3	1300.6	1308.2	1310.7	1313.2	1318.3	1320.8	1326.8	1330.1	1330.1
32.5°	1373.2	1371.5	1378.2	1384.1	1388.4	1392.6	1396.8	1400.2	1403.6	1405.2	1413.7
35°	1471.9	1475.3	1475.3	1476.1	1486.3	1487.1	1490.5	1498.1	1500.6	1505.7	1509.1
37.5°	1569.8	1563.9	1563.1	1563.1	1559.7	1562.2	1563.1	1563.9	1567.3	1568.1	1571.5
40°	1679.5	1671.9	1665.2	1661.0	1654.2	1644.9	1643.3	1639.0	1641.6	1640.7	1641.6
42.5°	1829.8	1808.7	1792.6	1780.8	1767.3	1757.2	1749.6	1738.6	1731.0	1721.7	1720.1
45°	2021.4	1981.7	1954.7	1935.3	1915.9	1888.0	1872.0	1855.1	1839.9	1824.7	1812.0
47.5°	2272.9	2230.7	2187.6	2152.2	2121.8	2077.1	2031.5	2006.2	1976.6	1950.5	1931.9
50°	2569.1	2518.5	2498.2	2448.4	2410.4	2342.9	2286.4	2245.0	2185.9	2146.3	2111.7
52.5°	2872.1	2859.4	2848.5	2806.3	2761.5	2722.7	2672.9	2600.3	2540.4	2494.8	2423.9
55°	3284.8	3290.7	3286.5	3263.7	3247.7	3210.5	3190.3	3127.0	3100.0	3034.1	2959.9
57.5°	3979.4	4026.7	4086.6	4110.2	4142.3	4111.9	4147.4	4190.4	4083.2	4120.4	4053.7
60°	4866.5	5083.4	5212.5	5371.2	5475.0	5620.1	5646.3	5684.3	5673.3	5694.4	5737.5
62.5°	5408.3	5665.7	5913.0	6092.8	6285.2	6391.5	6519.8	6609.3	6702.1	6764.6	6746.9
65°	5567.8	5832.8	6057.3	6254.0	6426.1	6556.1	6675.1	6787.4	6872.6	6932.5	6968.0
67.5°	4982.1	5328.1	5564.4	5794.8	6016.8	6153.5	6253.1	6362.0	6486.9	6590.7	6611.0
70°	3749.0	4268.1	4603.1	4879.1	5139.9	5323.9	5463.2	5564.4	5661.5	5735.8	5816.8
72.5°	2344.6	2798.7	3181.8	3539.7	3816.5	4069.7	4187.0	4411.5	4382.0	4438.5	4499.3
75°	1405.2	1626.4	1837.4	2089.7	2234.9	2445.9	2483.9	2521.0	2501.6	2438.3	2485.6
77.5°	976.5	1012.8	1011.1	996.8	981.6	944.4	896.3	870.2	852.4	827.1	837.2
80°	982.4	903.9	784.1	659.2	544.4	468.4	438.0	438.0	469.3	514.0	558.7
82.5°	1174.0	1090.4	972.3	813.6	644.8	525.0	444.8	412.7	418.6	464.2	521.6
85°	791.7	810.2	710.6	649.9	514.8	400.9	335.9	272.6	241.4	249.0	281.9
87.5°	28.7	34.6	12.7	16.9	11.8	10.1	10.1	11.0	7.6	9.3	8.4
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°	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6
2.5°	785.8	784.9	784.9	783.2	783.2	782.4	782.4	781.5	780.7	780.7	779.8
5°	804.3	803.5	801.8	800.9	799.3	799.3	798.4	796.7	796.7	795.0	794.2
7.5°	830.5	828.8	827.1	826.3	825.4	822.9	822.9	821.2	821.2	819.5	818.7
10°	861.7	860.0	858.3	859.2	856.7	855.8	854.1	854.1	851.6	850.7	850.7
12.5°	895.5	894.6	894.6	892.1	891.3	890.4	887.0	887.0	887.0	885.3	886.2
15°	931.8	932.6	930.1	932.6	931.8	929.2	929.2	929.2	925.9	930.1	926.7
17.5°	980.7	983.2	981.6	982.4	980.7	980.7	981.6	980.7	982.4	982.4	987.5
20°	1041.5	1042.3	1046.5	1044.9	1044.9	1044.0	1045.7	1046.5	1049.9	1048.2	1051.6
22.5°	1108.2	1112.4	1113.2	1116.6	1116.6	1115.8	1117.4	1120.8	1122.5	1125.0	1124.2
25°	1184.1	1186.7	1190.0	1185.8	1192.6	1192.6	1194.2	1198.5	1199.3	1199.3	1205.2
27.5°	1255.0	1261.8	1262.6	1266.8	1264.3	1266.0	1271.9	1274.4	1277.8	1277.8	1279.5
30°	1335.2	1337.7	1339.4	1344.5	1343.6	1344.5	1345.3	1349.5	1349.5	1353.8	1358.0
32.5°	1417.9	1419.6	1421.3	1426.3	1428.0	1431.4	1429.7	1433.1	1437.3	1438.2	1440.7
35°	1516.7	1518.3	1520.0	1527.6	1528.5	1534.4	1536.1	1534.4	1541.1	1536.9	1541.1
37.5°	1574.0	1581.6	1583.3	1588.4	1586.7	1590.9	1593.5	1596.8	1598.5	1601.9	1608.6
40°	1644.1	1646.6	1651.7	1654.2	1657.6	1658.4	1661.8	1664.4	1666.9	1674.5	1682.1
42.5°	1715.8	1719.2	1721.7	1725.1	1729.3	1732.7	1735.2	1742.8	1744.5	1749.6	1763.9
45°	1802.8	1801.1	1801.9	1802.8	1804.5	1808.7	1816.3	1823.9	1828.9	1840.7	1852.6
47.5°	1910.8	1899.8	1895.6	1888.9	1890.5	1899.8	1901.5	1914.2	1924.3	1935.3	1949.6
50°	2074.5	2045.0	2027.3	2009.5	2007.9	2012.9	2019.7	2033.2	2045.0	2059.3	2079.6
52.5°	2349.7	2293.1	2257.7	2208.7	2195.2	2192.7	2187.6	2195.2	2198.6	2218.0	2256.0
55°	2906.7	2802.0	2734.5	2658.6	2587.7	2566.6	2526.1	2534.5	2526.1	2537.9	2594.4
57.5°	4069.7	3986.2	3920.3	3823.3	3701.7	3572.6	3540.5	3408.0	3434.2	3510.2	3461.2
60°	5758.6	5728.2	5680.9	5634.5	5468.2	5374.5	5221.8	5204.9	5097.7	5098.5	5028.5
62.5°	6703.8	6742.6	6713.9	6700.4	6691.2	6661.6	6585.7	6494.5	6357.8	6259.0	6113.9
65°	6973.9	6941.0	6909.8	6905.5	6903.0	6951.1	6962.1	6897.9	6773.9	6620.3	6453.2
67.5°	6659.1	6640.5	6642.2	6606.8	6628.7	6712.3	6770.5	6752.8	6638.8	6453.2	6240.5
70°	5909.6	5873.3	5910.5	5956.9	5989.8	6037.9	6096.1	6110.5	6006.7	5815.9	5599.0
72.5°	4425.0	4431.0	4466.4	4479.1	4611.6	4598.1	4650.4	4479.9	4404.8	4223.3	4111.9
75°	2328.6	2290.6	2389.3	2180.0	2093.9	2153.9	1985.9	1824.7	1858.5	1886.3	1685.4
77.5°	822.9	769.7	679.4	643.1	535.1	453.2	370.5	334.2	314.8	304.7	292.0
80°	590.8	607.7	589.1	545.2	463.4	371.4	292.9	231.3	198.3	180.6	168.8
82.5°	597.5	664.2	693.8	681.1	606.8	459.1	303.0	193.3	143.5	119.8	111.4
85°	320.7	351.1	337.6	284.4	255.7	152.8	104.7	70.1	59.1	54.0	49.8
87.5°	12.7	10.1	8.4	8.4	9.3	10.1	8.4	9.3	8.4	8.4	8.4
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°	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6
2.5°	778.2	778.2	778.2	777.3	775.6	771.4	767.2	763.8	761.3	758.7	755.4
5°	793.4	791.7	791.7	791.7	784.9	778.2	772.3	766.3	761.3	757.1	753.7
7.5°	818.7	817.8	814.5	813.6	808.5	797.6	790.8	780.7	774.8	768.9	767.2
10°	849.1	848.2	847.4	846.5	839.8	828.8	820.4	811.1	802.6	794.2	785.8
12.5°	884.5	883.7	882.8	880.3	877.8	871.8	862.6	852.4	842.3	824.6	815.3
15°	928.4	930.1	928.4	927.5	925.9	926.7	920.8	906.4	890.4	867.6	848.2
17.5°	986.6	984.9	984.1	987.5	986.6	990.8	989.2	970.6	946.1	909.8	876.1
20°	1050.8	1050.8	1054.1	1056.7	1064.3	1075.2	1070.2	1047.4	1002.7	952.0	908.1
22.5°	1127.6	1129.3	1132.6	1130.9	1142.8	1160.5	1162.2	1130.1	1071.9	1001.8	940.2
25°	1207.8	1209.4	1206.1	1211.1	1230.5	1255.9	1260.9	1215.3	1138.5	1047.4	967.2
27.5°	1283.7	1285.4	1285.4	1292.2	1310.7	1353.8	1358.8	1308.2	1206.1	1087.1	986.6
30°	1358.0	1364.7	1366.4	1368.1	1396.0	1455.9	1466.9	1393.4	1265.1	1116.6	1000.1
32.5°	1451.7	1454.2	1457.6	1461.8	1493.9	1567.3	1567.3	1466.9	1303.1	1135.2	1002.7
35°	1552.1	1552.9	1560.5	1561.4	1607.0	1680.4	1666.0	1527.6	1330.1	1130.9	984.1
37.5°	1612.9	1616.2	1623.8	1634.0	1682.1	1785.9	1753.0	1580.0	1335.2	1103.1	941.9
40°	1688.0	1694.7	1702.3	1712.5	1784.2	1893.1	1826.4	1612.9	1314.1	1048.2	878.6
42.5°	1769.0	1778.3	1790.1	1808.7	1893.9	1987.6	1882.1	1617.9	1266.0	986.6	803.5
45°	1860.2	1877.0	1890.5	1912.5	2008.7	2069.5	1915.9	1588.4	1205.2	905.6	723.3
47.5°	1965.7	1979.2	2002.8	2026.4	2122.6	2125.2	1919.2	1531.0	1122.5	824.6	638.1
50°	2095.6	2104.1	2139.5	2153.9	2244.2	2183.4	1894.8	1453.4	1035.6	733.4	543.5
52.5°	2268.6	2280.5	2326.0	2348.0	2412.1	2262.7	1860.2	1369.0	936.0	631.3	446.5
55°	2610.5	2661.9	2694.0	2732.0	2773.4	2442.5	1845.0	1278.6	823.7	513.1	353.6
57.5°	3570.1	3553.2	3624.1	3710.2	3709.3	2853.5	1936.1	1201.0	691.2	392.5	271.8
60°	4999.8	5015.8	4979.5	5031.0	4867.3	3363.3	2061.0	1119.1	541.8	292.0	207.6
62.5°	6062.4	5969.5	5918.1	5857.3	5496.9	3419.0	1969.9	951.2	394.1	205.1	159.5
65°	6313.9	6205.0	6094.5	5978.8	5435.3	3082.3	1616.2	698.0	254.9	140.9	126.6
67.5°	6065.8	5891.1	5750.1	5631.1	4980.4	2554.8	1181.6	428.7	146.0	113.9	108.0
70°	5422.6	5229.4	5001.5	4868.1	4193.8	1882.9	757.1	231.3	112.3	101.3	98.7
72.5°	3969.3	3810.6	3561.6	3408.9	3011.4	1144.5	422.8	130.0	104.7	97.1	93.7
75°	1546.2	1463.5	1359.7	1368.1	1221.3	506.4	191.6	112.3	102.1	95.4	92.0
77.5°	265.9	259.1	239.7	239.7	272.6	184.8	127.4	113.1	101.3	93.7	87.8
80°	159.5	156.1	148.5	146.9	141.8	130.0	122.4	114.8	99.6	88.6	81.0
82.5°	104.7	100.4	97.9	97.1	105.5	113.9	114.8	113.9	94.5	76.8	65.8
85°	44.7	44.7	44.7	45.6	60.8	92.0	94.5	101.3	77.6	59.9	47.3
87.5°	7.6	9.3	9.3	10.1	11.0	20.3	25.3	32.9	26.2	25.3	22.8
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):

	165°	175°	180°
0°	775.6	775.6	775.6
2.5°	754.5	752.8	752.8
5°	752.0	750.3	751.2
7.5°	762.1	758.7	759.6
10°	780.7	777.3	775.6
12.5°	804.3	800.1	800.1
15°	828.8	818.7	817.8
17.5°	849.1	836.4	834.7
20°	871.8	855.0	852.4
22.5°	892.9	870.2	866.8
25°	908.1	880.3	876.1
27.5°	914.9	882.0	878.6
30°	920.0	882.8	877.8
32.5°	914.9	875.2	871.0
35°	887.0	844.0	841.5
37.5°	838.9	790.8	787.4
40°	775.6	725.0	716.5
42.5°	694.6	647.3	638.1
45°	616.1	562.1	557.9
47.5°	531.7	480.2	482.8
50°	443.1	396.7	395.8
52.5°	358.7	318.2	315.7
55°	282.7	254.0	251.5
57.5°	223.7	208.5	205.9
60°	182.3	174.7	172.2
62.5°	146.9	144.3	143.5
65°	122.4	122.4	122.4
67.5°	106.3	107.2	107.2
70°	97.9	98.7	97.9
72.5°	94.5	97.1	97.1
75°	92.0	93.7	90.3
77.5°	90.3	91.2	85.2
80°	89.5	88.6	77.6
82.5°	77.6	75.1	65.8
85°	70.9	54.0	45.6
87.5°	36.3	25.3	19.4
90°	0.0	0.0	0.0

(END OF REPORT)