

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: P154388

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P154388  
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: VXS-E03-LED-E1-T2-8030  
Description: VISION SITE SMALL 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 (A<sub>in</sub>): 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

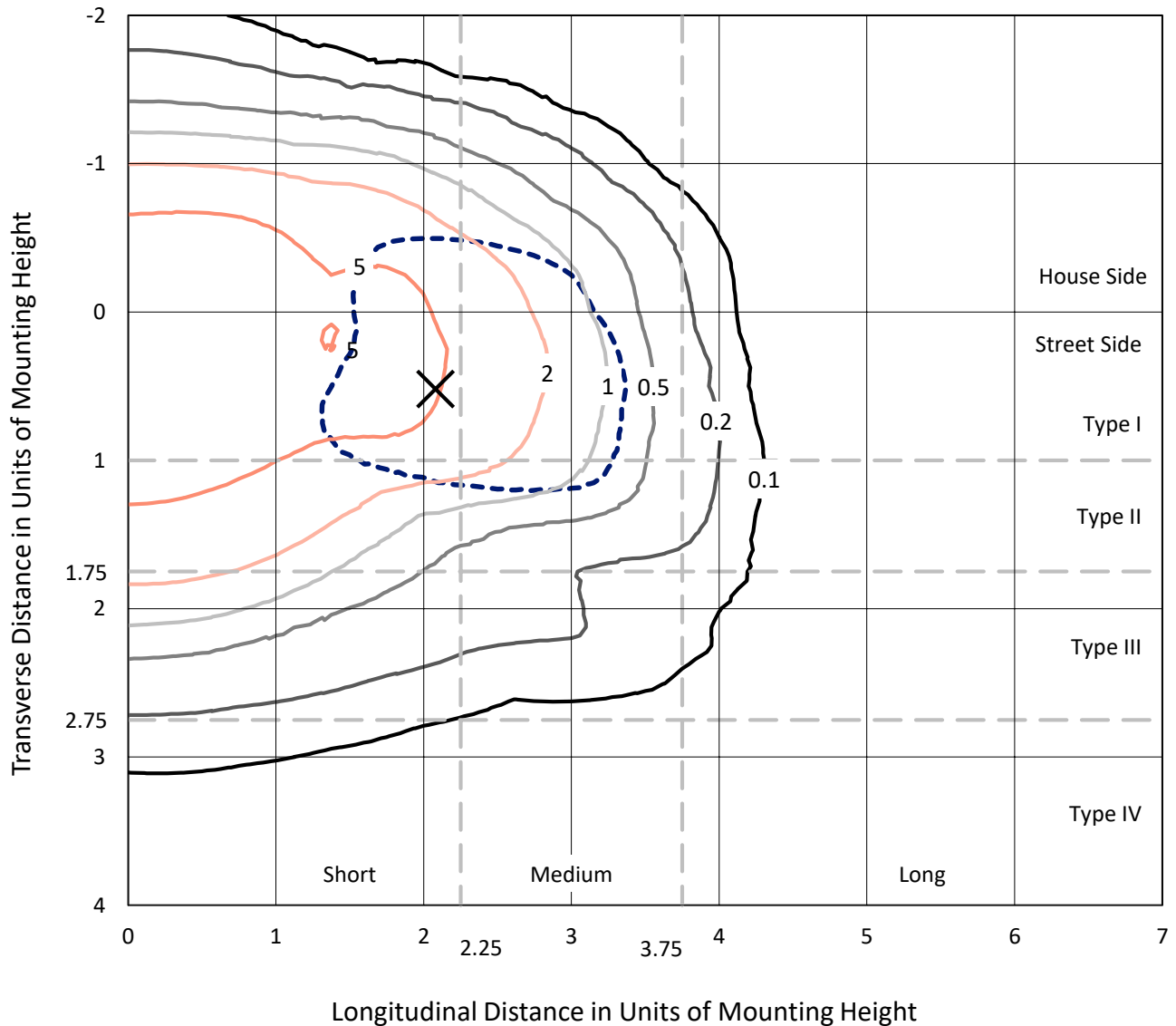


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

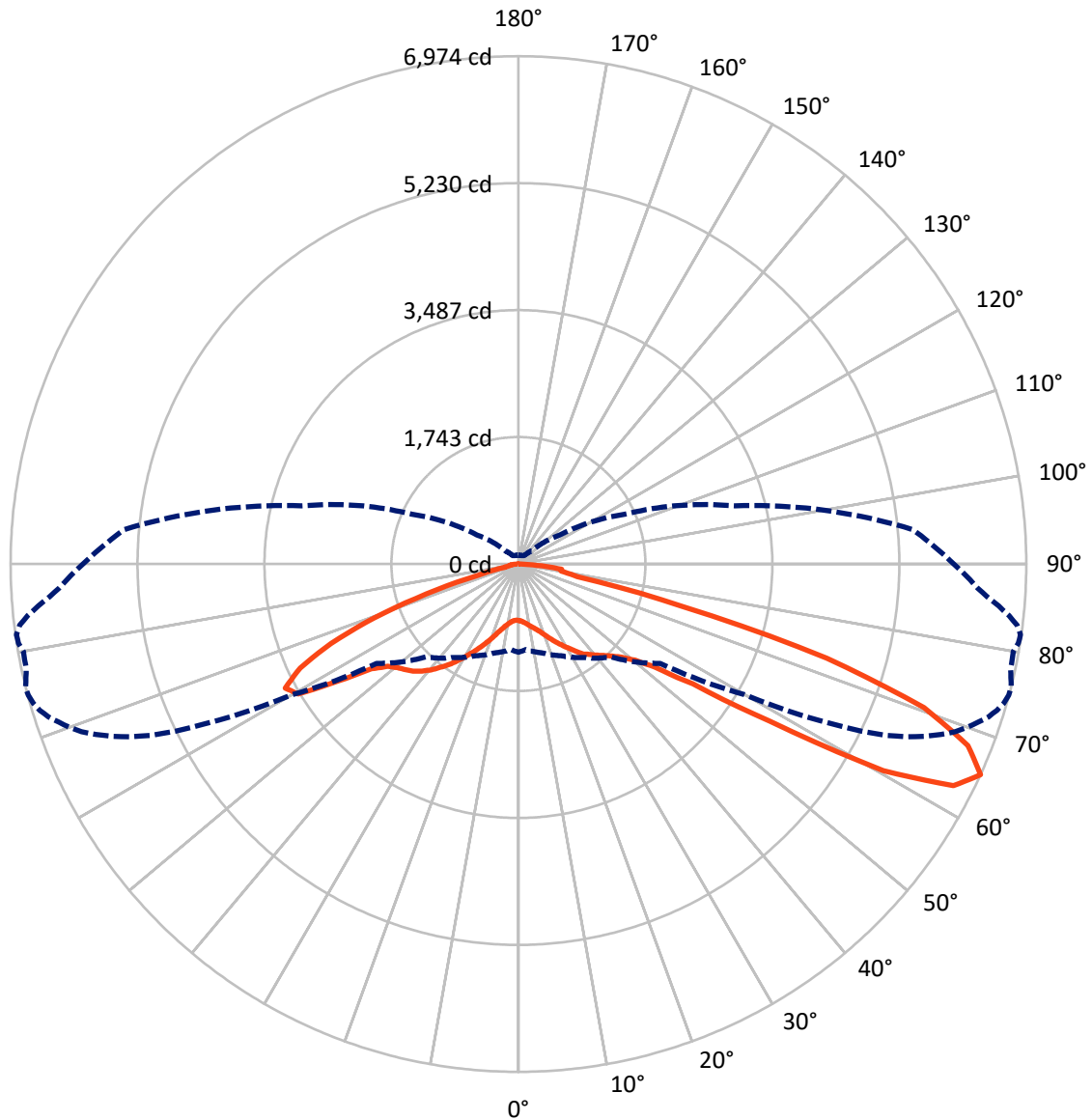


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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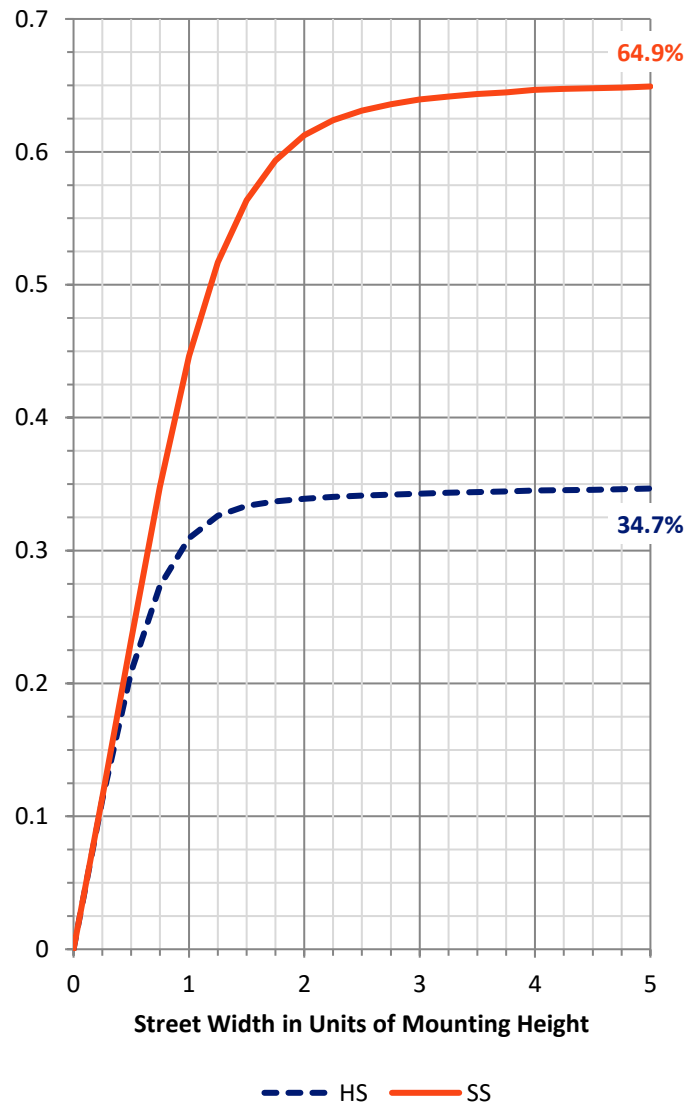
**FLUX DISTRIBUTION:**

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

**Coefficient of Utilization**

**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



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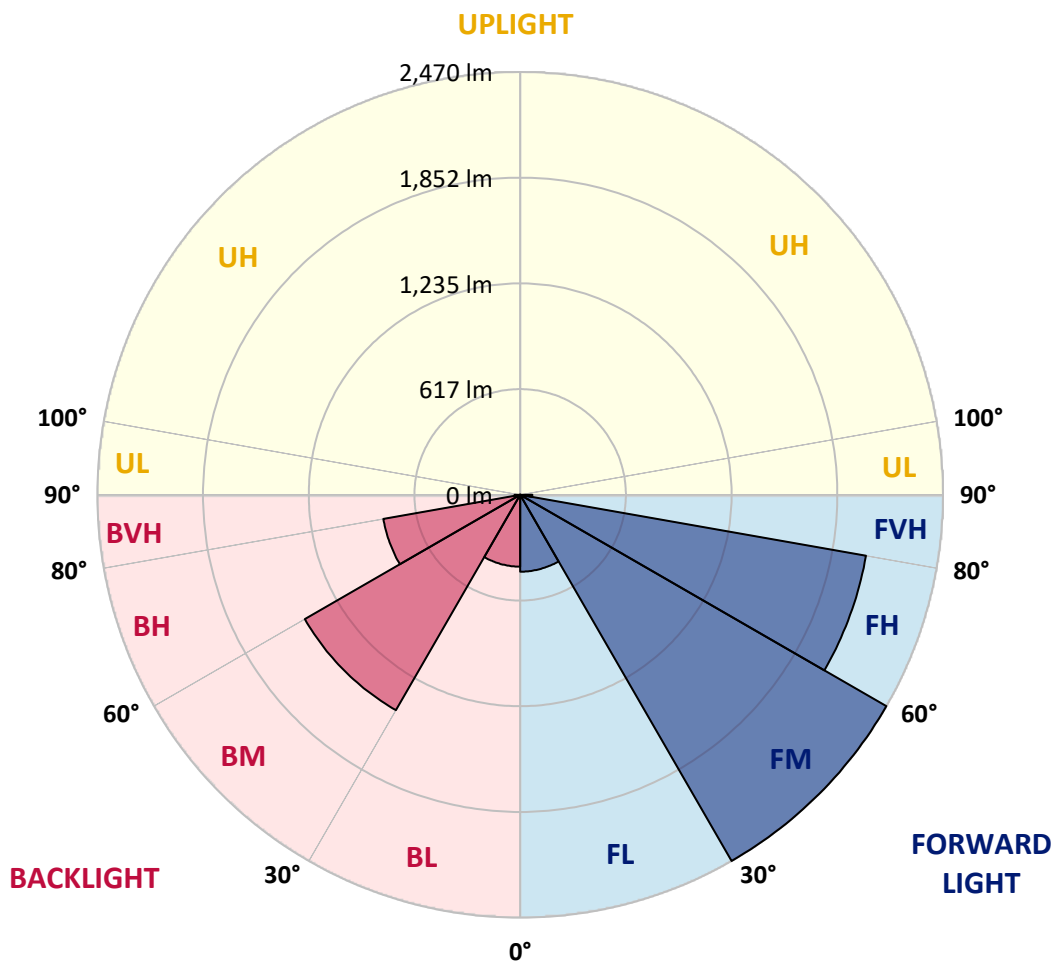
CATALOG NUMBER: VXS-E03-LED-E1-T2-8030

**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	810.3	808.5	807.7	805.2	800.9	797.6	794.2	794.2	794.2	791.7
5°	844.9	846.5	843.1	840.6	833.1	828.8	822.9	818.7	817.0	816.2	813.6
7.5°	889.5	887.0	882.0	880.3	874.4	865.1	854.1	845.7	845.7	844.9	845.7
10°	934.3	927.6	925.0	922.5	913.2	901.3	888.7	879.5	878.5	877.7	875.2
12.5°	979.1	976.5	974.0	964.7	955.4	936.8	922.5	913.2	912.3	913.2	909.8
15°	1038.1	1032.2	1029.6	1013.7	993.4	973.2	955.4	946.9	944.5	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	1119.2	1113.3	1098.9	1067.7	1039.8	1030.5	1028.8	1028.0	1028.0	1030.5
22.5°	1140.2	1138.5	1136.1	1120.0	1095.5	1076.9	1077.8	1082.8	1084.6	1086.2	1089.6
25°	1150.4	1147.9	1146.9	1136.1	1118.2	1115.8	1131.0	1144.5	1147.9	1151.2	1155.4
27.5°	1167.3	1163.0	1164.7	1160.5	1156.3	1163.8	1195.1	1209.4	1212.0	1216.2	1218.8
30°	1213.7	1212.0	1218.8	1220.4	1223.8	1234.7	1263.4	1277.0	1282.9	1282.9	1294.7
32.5°	1302.3	1303.1	1304.8	1322.5	1328.4	1336.1	1351.2	1362.2	1363.0	1363.9	1374.8
35°	1421.2	1426.3	1440.7	1455.9	1470.3	1469.4	1460.1	1466.0	1461.8	1466.8	1467.7
37.5°	1571.5	1564.8	1585.9	1620.4	1642.4	1636.5	1595.1	1568.2	1575.8	1572.3	1569.8
40°	1687.2	1694.7	1735.2	1780.8	1797.7	1816.3	1762.3	1715.9	1709.1	1696.4	1688.8
42.5°	1846.6	1847.5	1880.4	1914.2	1963.1	2003.6	1969.0	1902.4	1882.1	1866.9	1834.0
45°	1994.3	1991.8	2018.9	2060.2	2118.4	2176.7	2189.3	2116.7	2109.1	2082.2	2039.1
47.5°	2093.1	2089.7	2108.3	2162.3	2256.8	2352.2	2404.6	2382.6	2368.3	2357.3	2289.7
50°	2159.8	2153.1	2174.1	2231.5	2337.0	2483.8	2620.6	2639.2	2633.3	2633.3	2590.3
52.5°	2209.5	2209.5	2224.8	2271.2	2378.3	2561.6	2806.3	2900.0	2907.6	2916.0	2913.5
55°	2181.8	2185.9	2223.9	2291.4	2404.6	2615.5	2959.9	3165.0	3207.2	3242.6	3283.1
57.5°	2086.3	2100.7	2151.3	2261.9	2411.3	2656.1	3130.4	3536.4	3655.3	3758.3	3918.7
60°	1947.0	1965.7	2039.1	2180.0	2361.5	2590.3	3190.3	3850.3	4039.4	4263.8	4682.5
62.5°	1708.2	1726.8	1798.5	1939.5	2094.8	2337.8	2942.2	3896.7	4198.9	4517.0	5150.1
65°	1210.3	1180.7	1263.4	1390.1	1568.2	1803.6	2377.5	3585.3	4019.9	4451.2	5232.7
67.5°	674.3	671.8	722.5	817.0	987.5	1240.6	1638.1	2749.7	3149.7	3638.4	4598.0
70°	465.1	470.1	502.2	604.2	745.3	963.8	1167.3	1726.8	2014.6	2346.3	3289.8
72.5°	326.6	337.6	355.3	416.1	560.4	811.9	1192.5	1032.2	1175.6	1401.9	1978.3
75°	191.6	199.2	211.8	241.3	319.1	542.7	1234.7	907.3	907.3	960.4	1196.8
77.5°	118.1	118.1	125.8	137.6	169.6	265.9	879.5	1019.6	990.9	960.4	963.0
80°	60.7	65.0	76.0	81.9	94.5	121.6	395.0	951.2	1043.2	1104.8	1061.8
82.5°	27.9	31.2	46.4	49.8	54.8	64.1	135.9	541.0	725.0	954.5	1192.5
85°	14.3	14.3	24.5	30.4	33.0	29.5	49.8	218.5	330.9	504.7	789.9
87.5°	2.5	2.5	4.2	5.1	7.6	6.7	8.4	12.6	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	789.9	788.3	788.3	788.3	787.5	787.5	787.5	786.6
5°	813.6	810.3	811.1	809.4	808.5	807.7	808.5	806.8	805.2	806.0	805.2
7.5°	842.3	840.6	837.2	837.2	836.4	834.7	834.7	832.1	831.3	829.6	828.8
10°	874.4	870.2	871.8	870.2	871.0	867.7	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	979.1	979.9	978.1	976.5	979.9	979.9
20°	1032.2	1035.5	1035.5	1034.7	1039.0	1036.4	1035.5	1039.8	1035.5	1041.5	1040.6
22.5°	1091.3	1094.6	1094.6	1098.0	1098.9	1101.5	1103.1	1101.5	1104.8	1108.2	1108.2
25°	1157.1	1160.5	1163.0	1168.1	1170.6	1168.9	1169.7	1174.0	1175.6	1179.1	1182.4
27.5°	1226.3	1227.2	1230.6	1236.5	1240.6	1242.4	1243.2	1249.9	1250.8	1252.4	1255.9
30°	1293.9	1302.3	1300.6	1308.2	1310.7	1313.3	1318.3	1320.8	1326.7	1330.2	1330.2
32.5°	1373.2	1371.5	1378.2	1384.1	1388.4	1392.5	1396.8	1400.2	1403.5	1405.3	1413.7
35°	1471.9	1475.3	1475.3	1476.2	1486.2	1487.2	1490.5	1498.1	1500.6	1505.7	1509.0
37.5°	1569.8	1563.9	1563.1	1563.1	1559.7	1562.2	1563.1	1563.9	1567.3	1568.2	1571.5
40°	1679.6	1671.9	1665.2	1660.9	1654.2	1645.0	1643.2	1639.1	1641.6	1640.7	1641.6
42.5°	1829.7	1808.7	1792.6	1780.8	1767.4	1757.2	1749.6	1738.7	1731.0	1721.8	1720.1
45°	2021.3	1981.7	1954.7	1935.2	1915.9	1888.0	1872.0	1855.1	1839.9	1824.7	1812.0
47.5°	2272.8	2230.7	2187.7	2152.2	2121.8	2077.1	2031.5	2006.2	1976.6	1950.5	1931.9
50°	2569.1	2518.4	2498.2	2448.4	2410.5	2342.9	2286.3	2245.0	2185.9	2146.2	2111.7
52.5°	2872.1	2859.5	2848.5	2806.3	2761.6	2722.7	2673.0	2600.3	2540.4	2494.8	2423.9
55°	3284.8	3290.7	3286.5	3263.7	3247.7	3210.6	3190.3	3126.9	3100.0	3034.2	2959.9
57.5°	3979.4	4026.6	4086.6	4110.3	4142.3	4111.9	4147.4	4190.5	4083.2	4120.4	4053.7
60°	4866.4	5083.3	5212.5	5371.2	5474.9	5620.1	5646.3	5684.2	5673.3	5694.4	5737.4
62.5°	5408.3	5665.7	5913.0	6092.7	6285.2	6391.5	6519.8	6609.3	6702.2	6764.6	6746.8
65°	5567.8	5832.8	6057.3	6254.0	6426.1	6556.2	6675.1	6787.4	6872.6	6932.5	6968.0
67.5°	4982.1	5328.1	5564.5	5794.8	6016.8	6153.6	6253.2	6362.0	6486.9	6590.7	6611.0
70°	3749.0	4268.1	4603.1	4879.1	5139.9	5323.9	5463.1	5564.5	5661.5	5735.8	5816.8
72.5°	2344.6	2798.7	3181.9	3539.7	3816.5	4069.7	4187.0	4411.5	4382.0	4438.5	4499.3
75°	1405.3	1626.3	1837.4	2089.7	2234.9	2445.9	2483.8	2521.0	2501.6	2438.2	2485.6
77.5°	976.5	1012.7	1011.1	996.8	981.6	944.5	896.3	870.2	852.4	827.2	837.2
80°	982.4	903.9	784.0	659.2	544.4	468.4	438.0	438.0	469.2	514.0	558.8
82.5°	1174.0	1090.5	972.2	813.6	644.8	525.0	444.8	412.7	418.7	464.1	521.6
85°	791.7	810.3	710.7	649.8	514.8	400.9	336.0	272.6	241.3	249.0	281.9
87.5°	28.7	34.6	12.6	16.9	11.8	10.2	10.2	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	781.6	780.7	780.7	779.9
5°	804.4	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	827.2	826.2	825.4	822.9	822.9	821.2	821.2	819.5	818.7
10°	861.8	860.0	858.3	859.2	856.7	855.9	854.1	854.1	851.6	850.8	850.8
12.5°	895.4	894.6	894.6	892.1	891.3	890.4	887.0	887.0	887.0	885.4	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	1112.3	1113.3	1116.6	1116.6	1115.8	1117.4	1120.8	1122.5	1125.1	1124.1
25°	1184.1	1186.6	1190.1	1185.8	1192.5	1192.5	1194.2	1198.4	1199.3	1199.3	1205.2
27.5°	1255.0	1261.8	1262.6	1266.8	1264.2	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	1421.2	1426.3	1428.1	1431.4	1429.7	1433.1	1437.3	1438.1	1440.7
35°	1516.7	1518.3	1520.0	1527.7	1528.5	1534.4	1536.1	1534.4	1541.1	1536.9	1541.1
37.5°	1574.1	1581.7	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	1661.9	1664.4	1666.8	1674.5	1682.1
42.5°	1715.9	1719.2	1721.8	1725.1	1729.3	1732.7	1735.2	1742.8	1744.6	1749.6	1763.9
45°	1802.8	1801.0	1802.0	1802.8	1804.5	1808.7	1816.3	1823.8	1828.9	1840.7	1852.5
47.5°	1910.8	1899.8	1895.6	1888.8	1890.6	1899.8	1901.6	1914.2	1924.2	1935.2	1949.6
50°	2074.5	2045.0	2027.3	2009.5	2007.9	2013.0	2019.7	2033.2	2045.0	2059.4	2079.6
52.5°	2349.6	2293.2	2257.7	2208.7	2195.2	2192.6	2187.7	2195.2	2198.5	2218.0	2256.0
55°	2906.7	2802.1	2734.5	2658.5	2587.7	2566.5	2526.1	2534.5	2526.1	2537.9	2594.4
57.5°	4069.7	3986.2	3920.3	3823.3	3701.8	3572.6	3540.5	3408.1	3434.2	3510.2	3461.2
60°	5758.5	5728.2	5680.9	5634.5	5468.2	5374.5	5221.8	5204.9	5097.7	5098.5	5028.5
62.5°	6703.8	6742.7	6714.0	6700.4	6691.2	6661.7	6585.7	6494.5	6357.8	6259.1	6113.9
65°	6973.9	6940.9	6909.7	6905.5	6903.0	6951.1	6962.1	6897.9	6773.9	6620.3	6453.2
67.5°	6659.1	6640.5	6642.2	6606.7	6628.7	6712.2	6770.5	6752.7	6638.9	6453.2	6240.5
70°	5909.6	5873.4	5910.5	5956.9	5989.8	6037.9	6096.2	6110.5	6006.6	5816.0	5599.1
72.5°	4425.1	4431.0	4466.4	4479.1	4611.6	4598.0	4650.4	4479.9	4404.8	4223.3	4111.9
75°	2328.6	2290.6	2389.3	2180.0	2094.0	2153.9	1985.9	1824.7	1858.4	1886.3	1685.5
77.5°	822.9	769.7	679.4	643.1	535.1	453.3	370.5	334.2	314.8	304.7	292.0
80°	590.8	607.7	589.1	545.2	463.3	371.4	292.8	231.3	198.3	180.6	168.8
82.5°	597.5	664.2	693.8	681.1	606.8	459.2	303.0	193.3	143.5	119.9	111.4
85°	320.7	351.1	337.6	284.5	255.8	152.7	104.7	70.1	59.1	54.0	49.8
87.5°	12.6	10.2	8.4	8.4	9.3	10.2	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°	778.1	778.1	778.1	777.3	775.6	771.4	767.2	763.8	761.2	758.8	755.3
5°	793.4	791.7	791.7	791.7	784.9	778.1	772.2	766.3	761.2	757.1	753.7
7.5°	818.7	817.8	814.4	813.6	808.5	797.6	790.8	780.7	774.8	768.9	767.2
10°	849.0	848.2	847.4	846.5	839.8	828.8	820.3	811.1	802.6	794.2	785.8
12.5°	884.5	883.6	882.8	880.3	877.7	871.8	862.6	852.4	842.3	824.6	815.3
15°	928.4	930.1	928.4	927.6	925.9	926.7	920.8	906.4	890.4	867.7	848.2
17.5°	986.6	985.0	984.1	987.5	986.6	990.9	989.1	970.6	946.1	909.8	876.1
20°	1050.8	1050.8	1054.1	1056.7	1064.2	1075.2	1070.2	1047.4	1002.7	952.0	908.1
22.5°	1127.6	1129.2	1132.6	1131.0	1142.8	1160.5	1162.2	1130.2	1071.9	1001.9	940.2
25°	1207.8	1209.4	1206.1	1211.1	1230.6	1255.9	1260.9	1215.3	1138.5	1047.4	967.3
27.5°	1283.7	1285.4	1285.4	1292.1	1310.7	1353.8	1358.9	1308.2	1206.1	1087.0	986.6
30°	1358.0	1364.8	1366.4	1368.1	1396.0	1455.9	1466.8	1393.5	1265.2	1116.6	1000.1
32.5°	1451.7	1454.2	1457.6	1461.8	1493.9	1567.3	1567.3	1466.8	1303.1	1135.1	1002.7
35°	1552.1	1553.0	1560.5	1561.3	1606.9	1680.4	1666.0	1527.7	1330.2	1131.0	984.1
37.5°	1612.8	1616.3	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	1712.4	1784.1	1893.1	1826.4	1612.8	1314.1	1048.2	878.5
42.5°	1769.0	1778.2	1790.2	1808.7	1893.9	1987.6	1882.1	1617.9	1266.0	986.6	803.5
45°	1860.2	1877.0	1890.6	1912.4	2008.7	2069.4	1915.9	1588.4	1205.2	905.6	723.3
47.5°	1965.7	1979.2	2002.8	2026.4	2122.6	2125.2	1919.3	1531.0	1122.5	824.6	638.0
50°	2095.6	2104.0	2139.5	2153.9	2244.1	2183.4	1894.7	1453.4	1035.5	733.5	543.5
52.5°	2268.6	2280.4	2326.0	2348.0	2412.1	2262.7	1860.2	1368.9	936.0	631.3	446.4
55°	2610.5	2662.0	2694.0	2732.0	2773.4	2442.5	1845.0	1278.7	823.7	513.2	353.7
57.5°	3570.1	3553.2	3624.1	3710.2	3709.3	2853.6	1936.2	1201.0	691.2	392.4	271.8
60°	4999.8	5015.9	4979.6	5031.0	4867.3	3363.3	2061.0	1119.2	541.9	292.0	207.7
62.5°	6062.4	5969.5	5918.0	5857.3	5496.9	3419.0	1969.8	951.2	394.1	205.1	159.5
65°	6313.9	6205.0	6094.5	5978.9	5435.3	3082.3	1616.3	698.0	254.9	140.9	126.6
67.5°	6065.8	5891.1	5750.2	5631.1	4980.4	2554.7	1181.6	428.7	146.0	114.0	108.0
70°	5422.6	5229.3	5001.5	4868.2	4193.8	1882.9	757.1	231.3	112.2	101.2	98.8
72.5°	3969.3	3810.6	3561.7	3408.9	3011.4	1144.5	422.8	129.9	104.7	97.1	93.7
75°	1546.2	1463.5	1359.7	1368.1	1221.2	506.4	191.6	112.2	102.1	95.3	92.0
77.5°	265.9	259.1	239.7	239.7	272.6	184.9	127.5	113.1	101.2	93.7	87.8
80°	159.5	156.2	148.5	146.8	141.8	129.9	122.4	114.8	99.6	88.6	81.0
82.5°	104.7	100.4	97.9	97.1	105.5	114.0	114.8	114.0	94.5	76.8	65.8
85°	44.8	44.8	44.8	45.6	60.7	92.0	94.5	101.2	77.6	59.9	47.3
87.5°	7.6	9.3	9.3	10.2	11.0	20.2	25.3	33.0	26.1	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	758.8	759.6
10°	780.7	777.3	775.6
12.5°	804.4	800.1	800.1
15°	828.8	818.7	817.8
17.5°	849.0	836.4	834.7
20°	871.8	854.9	852.4
22.5°	893.0	870.2	866.7
25°	908.1	880.3	876.1
27.5°	914.9	882.0	878.5
30°	920.0	882.8	877.7
32.5°	914.9	875.2	871.0
35°	887.0	844.0	841.5
37.5°	839.0	790.8	787.5
40°	775.6	725.0	716.6
42.5°	694.6	647.4	638.0
45°	616.1	562.1	557.9
47.5°	531.7	480.2	482.8
50°	443.1	396.7	395.9
52.5°	358.7	318.1	315.6
55°	282.7	254.0	251.5
57.5°	223.6	208.5	205.9
60°	182.3	174.7	172.1
62.5°	146.8	144.4	143.5
65°	122.4	122.4	122.4
67.5°	106.3	107.2	107.2
70°	97.9	98.8	97.9
72.5°	94.5	97.1	97.1
75°	92.0	93.7	90.3
77.5°	90.3	91.2	85.3
80°	89.4	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)