

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: P154394

Luminaire Tested: **VXS-F03-LED-E1-T2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154394
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-F03-LED-E1-T2-7030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6930.4 lumens
Efficiency: N/A
Efficacy: 88.5 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): 78.3
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



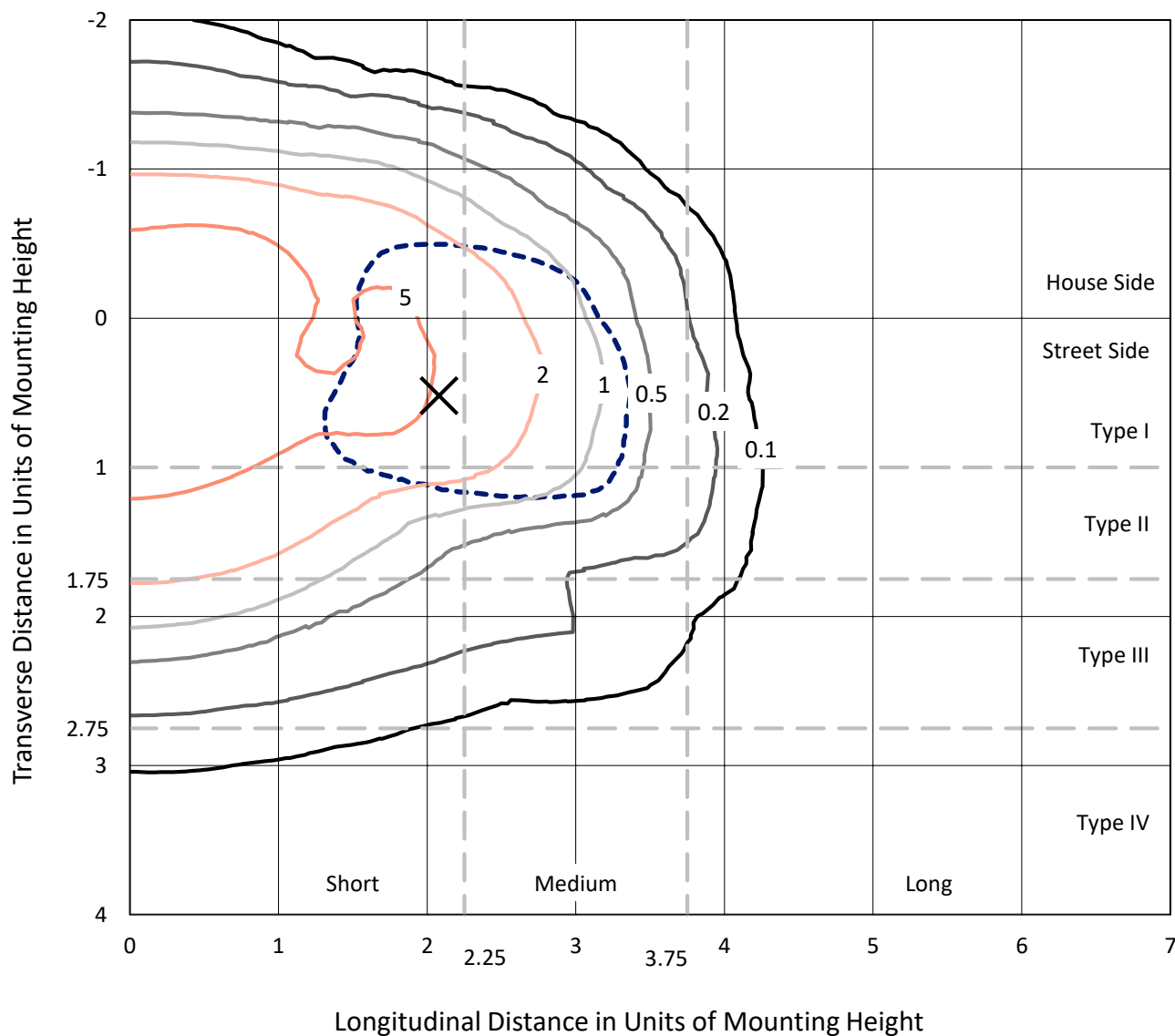
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

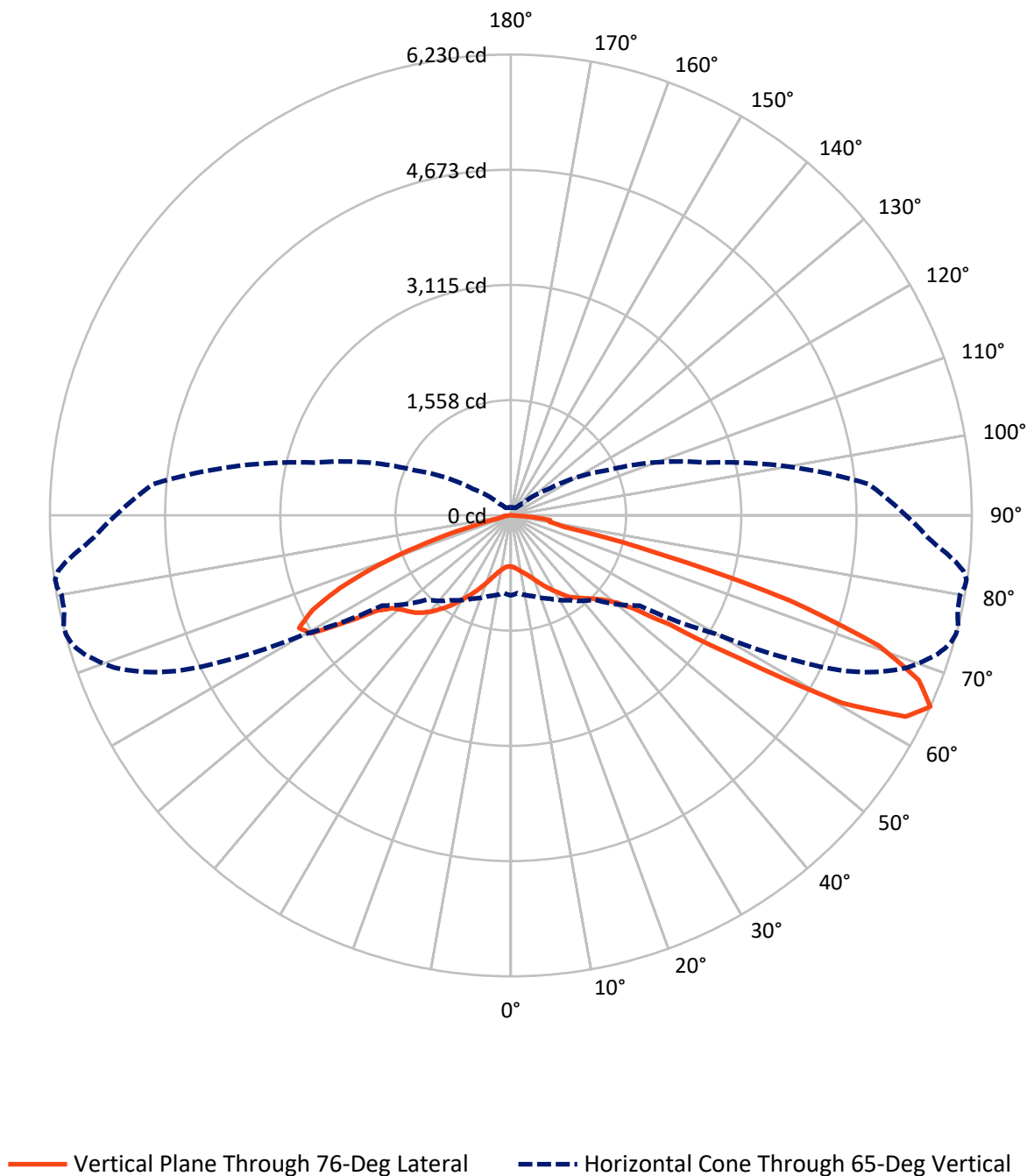


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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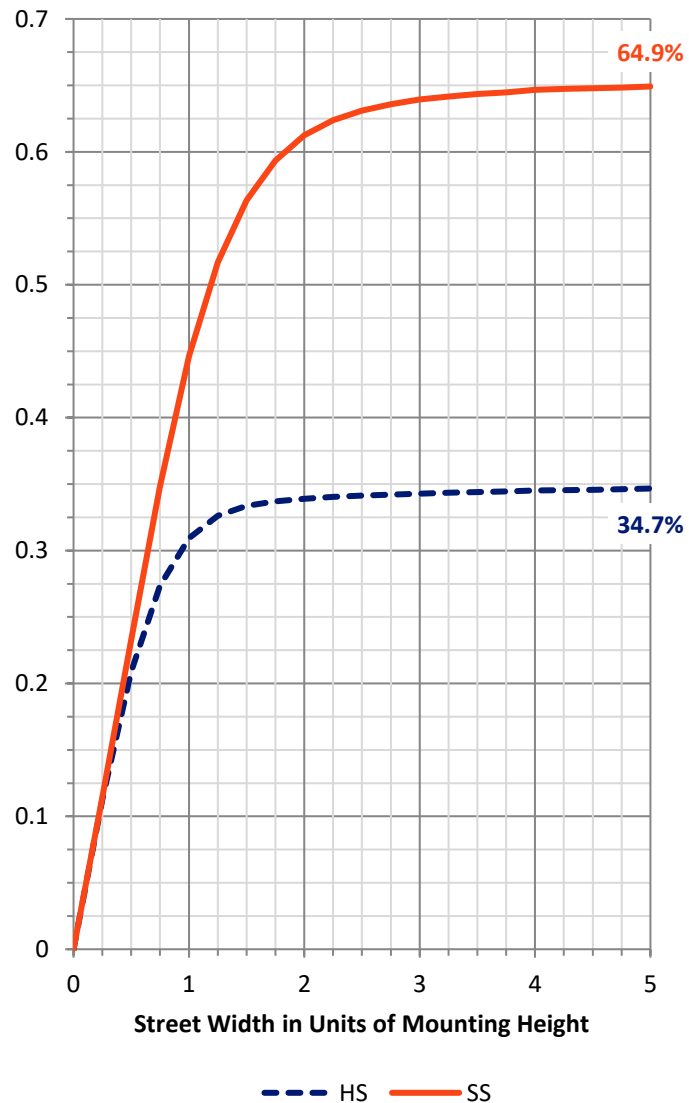
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2426.9	0.0	2426.9
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4503.5	0.0	4503.5
	% Fixture	65.0	0.0	65.0
Total	Lumens	6930.4	0.0	6930.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.0
10°-20°	238.3	3.4
20°-30°	468.2	6.8
30°-40°	778.0	11.2
40°-50°	1143.2	16.5
50°-60°	1582.7	22.8
60°-70°	1889.1	27.3
70°-80°	668.1	9.6
80°-90°	93.4	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°	6930.4	100.0
0°-180°	6930.4	100.0

Coefficient of Utilization



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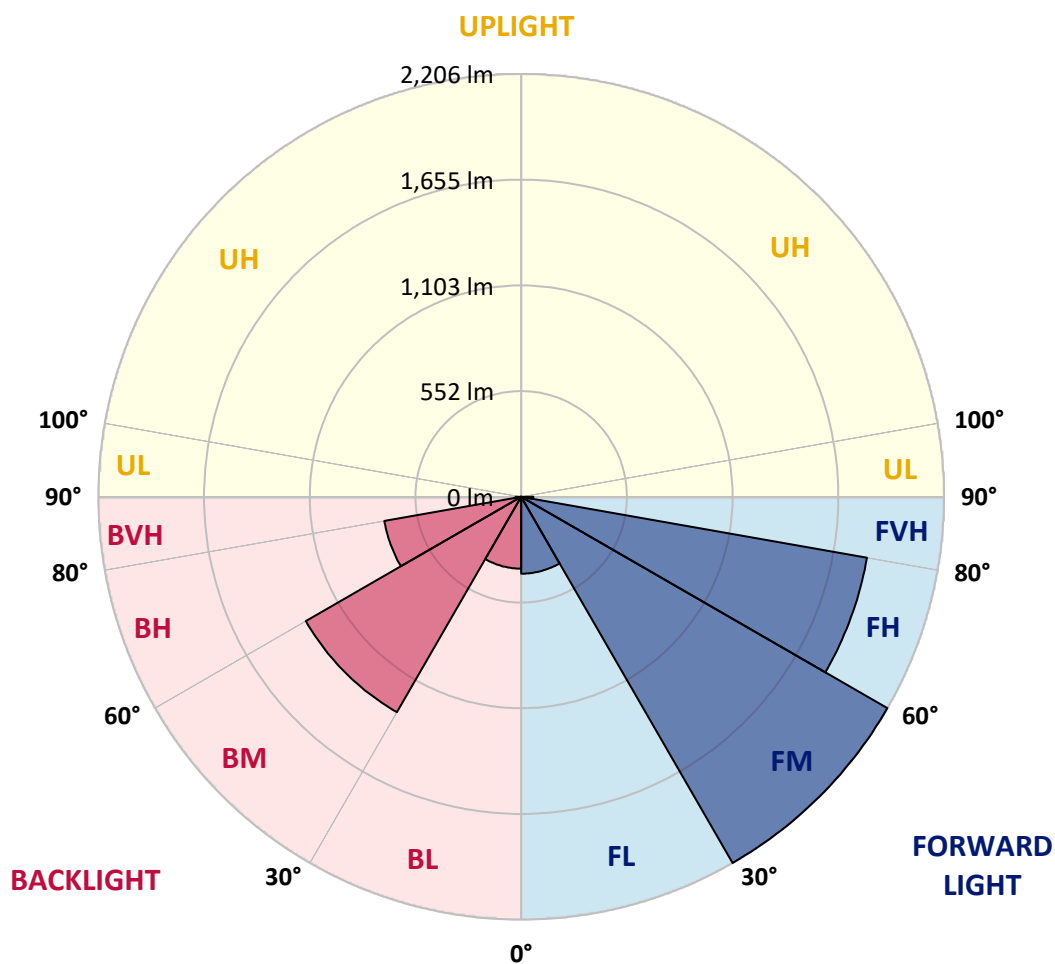
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.0	5.8			
FM	(30°-60°)	2206.4	31.8			
FH	(60°-80°)	1832.3	26.4			G2/5000
FVH	(80°-90°)	63.8	0.9			G1/100
BL	(0°-30°)	374.9	5.4	B1/500		
BM	(30°-60°)	1297.5	18.7	B2/2500		
BH	(60°-80°)	724.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	29.5	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°	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
2.5°	723.1	723.8	722.3	721.6	719.3	715.5	712.5	709.5	709.5	709.5	707.3
5°	754.7	756.3	753.3	751.0	744.1	740.4	735.1	731.4	729.8	729.1	726.8
7.5°	794.7	792.4	787.9	786.4	781.1	772.8	763.0	755.5	755.5	754.7	755.5
10°	834.7	828.6	826.4	824.1	815.9	805.3	794.0	785.7	784.9	784.1	781.9
12.5°	874.6	872.3	870.2	861.9	853.5	836.9	824.1	815.9	815.0	815.9	812.8
15°	927.5	922.2	919.9	905.6	887.5	869.3	853.5	846.0	843.7	844.5	842.2
17.5°	968.1	968.1	962.8	947.0	923.6	898.8	882.2	877.6	876.9	876.9	877.6
20°	1000.5	999.8	994.5	981.7	953.8	928.9	920.6	919.1	918.3	918.3	920.6
22.5°	1018.7	1017.1	1014.9	1000.5	978.7	962.1	962.8	967.4	968.9	970.4	973.4
25°	1027.7	1025.4	1024.7	1014.9	999.1	996.8	1010.4	1022.4	1025.4	1028.5	1032.2
27.5°	1042.8	1039.0	1040.5	1036.8	1033.0	1039.8	1067.7	1080.5	1082.7	1086.5	1088.8
30°	1084.2	1082.7	1088.8	1090.3	1093.3	1103.1	1128.7	1140.8	1146.1	1146.1	1156.6
32.5°	1163.4	1164.1	1165.7	1181.6	1186.7	1193.6	1207.2	1217.0	1217.7	1218.4	1228.3
35°	1269.7	1274.3	1287.0	1300.6	1313.5	1312.7	1304.5	1309.6	1305.9	1310.5	1311.2
37.5°	1403.9	1397.9	1416.8	1447.7	1467.3	1462.0	1425.1	1400.9	1407.7	1404.7	1402.4
40°	1507.3	1514.0	1550.3	1590.9	1606.0	1622.6	1574.3	1532.8	1526.8	1515.5	1508.7
42.5°	1649.7	1650.5	1679.9	1710.1	1753.8	1789.9	1759.1	1699.5	1681.5	1667.9	1638.4
45°	1781.7	1779.4	1803.5	1840.5	1892.5	1944.6	1955.9	1891.0	1884.2	1860.1	1821.7
47.5°	1869.9	1866.8	1883.5	1931.7	2016.2	2101.3	2148.1	2128.5	2115.8	2105.9	2045.6
50°	1929.4	1923.4	1942.3	1993.6	2087.8	2219.0	2341.1	2357.7	2352.4	2352.4	2314.0
52.5°	1974.0	1974.0	1987.6	2029.0	2124.8	2288.4	2507.0	2590.7	2597.5	2605.1	2602.8
55°	1949.1	1952.8	1986.7	2047.0	2148.1	2336.6	2644.2	2827.5	2865.2	2896.9	2933.1
57.5°	1863.8	1876.7	1922.0	2020.7	2154.2	2372.8	2796.6	3159.3	3265.6	3357.5	3500.8
60°	1739.5	1756.1	1821.7	1947.6	2109.6	2314.0	2850.1	3439.7	3608.6	3809.2	4183.1
62.5°	1526.1	1542.7	1606.7	1732.6	1871.4	2088.6	2628.4	3481.1	3751.1	4035.3	4600.8
65°	1081.2	1054.8	1128.7	1241.9	1400.9	1611.3	2124.0	3203.0	3591.3	3976.6	4674.7
67.5°	602.5	600.2	645.4	729.8	882.2	1108.4	1463.5	2456.5	2813.9	3250.5	4107.8
70°	415.4	420.0	448.6	539.9	665.8	861.0	1042.8	1542.7	1799.8	2096.1	2939.1
72.5°	291.8	301.6	317.4	371.7	500.6	725.4	1065.4	922.2	1050.4	1252.3	1767.4
75°	171.2	177.9	189.2	215.6	285.0	484.8	1103.1	810.6	810.6	858.0	1069.1
77.5°	105.6	105.6	112.3	122.9	151.5	237.5	785.7	910.8	885.2	858.0	860.3
80°	54.3	58.0	67.9	73.2	84.5	108.6	352.8	849.7	931.9	986.9	948.5
82.5°	24.9	27.9	41.5	44.5	49.0	57.3	121.3	483.3	647.7	852.7	1065.4
85°	12.8	12.8	21.9	27.2	29.4	26.4	44.5	195.2	295.5	450.9	705.7
87.5°	2.3	2.3	3.7	4.6	6.7	6.0	7.6	11.3	18.9	20.3	21.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
2.5°	706.5	707.3	706.5	705.7	704.2	704.2	704.2	703.5	703.5	703.5	702.7
5°	726.8	723.8	724.6	723.1	722.3	721.6	722.3	720.8	719.3	720.1	719.3
7.5°	752.4	751.0	748.0	748.0	747.3	745.7	745.7	743.4	742.7	741.1	740.4
10°	781.1	777.4	778.9	777.4	778.1	775.1	773.6	772.1	770.6	770.6	771.3
12.5°	810.6	809.7	807.6	806.0	806.0	803.7	804.6	803.7	801.5	800.7	798.4
15°	840.7	840.7	838.4	839.2	838.4	836.9	835.4	835.4	833.9	832.4	833.2
17.5°	876.2	876.2	876.2	876.2	876.9	874.6	875.3	873.9	872.3	875.3	875.3
20°	922.2	925.2	925.2	924.4	928.2	925.9	925.2	928.9	925.2	930.5	929.6
22.5°	974.9	977.9	977.9	980.9	981.7	983.9	985.5	983.9	986.9	989.9	989.9
25°	1033.7	1036.8	1039.0	1043.5	1045.8	1044.2	1045.1	1048.8	1050.4	1053.4	1056.4
27.5°	1095.5	1096.3	1099.3	1104.6	1108.4	1109.8	1110.7	1116.7	1117.4	1119.0	1122.0
30°	1155.9	1163.4	1161.9	1168.7	1171.0	1173.3	1177.7	1180.0	1185.3	1188.3	1188.3
32.5°	1226.7	1225.3	1231.3	1236.6	1240.3	1244.0	1247.9	1250.9	1253.9	1255.4	1262.9
35°	1314.9	1318.0	1318.0	1318.8	1327.8	1328.5	1331.5	1338.3	1340.6	1345.1	1348.2
37.5°	1402.4	1397.1	1396.4	1396.4	1393.4	1395.6	1396.4	1397.1	1400.2	1400.9	1403.9
40°	1500.4	1493.7	1487.7	1483.8	1477.8	1469.5	1468.0	1464.2	1466.5	1465.8	1466.5
42.5°	1634.6	1615.9	1601.5	1590.9	1578.9	1569.8	1563.0	1553.3	1546.4	1538.1	1536.7
45°	1805.8	1770.4	1746.2	1728.9	1711.6	1686.6	1672.3	1657.3	1643.7	1630.2	1618.9
47.5°	2030.5	1992.8	1954.3	1922.7	1895.5	1855.5	1814.8	1792.2	1765.8	1742.5	1725.9
50°	2295.1	2249.9	2231.8	2187.4	2153.4	2093.1	2042.6	2005.6	1952.8	1917.4	1886.5
52.5°	2565.8	2554.5	2544.8	2507.0	2467.0	2432.3	2387.9	2323.0	2269.5	2228.8	2165.5
55°	2934.5	2939.8	2936.1	2915.6	2901.3	2868.2	2850.1	2793.6	2769.4	2710.6	2644.2
57.5°	3555.1	3597.3	3650.9	3671.9	3700.6	3673.5	3705.1	3743.6	3647.8	3681.0	3621.5
60°	4347.6	4541.3	4656.7	4798.4	4891.2	5020.8	5044.2	5078.1	5068.4	5087.2	5125.6
62.5°	4831.6	5061.6	5282.5	5443.1	5615.0	5709.9	5824.6	5904.6	5987.5	6043.2	6027.5
65°	4974.1	5210.9	5411.4	5587.0	5740.9	5857.0	5963.3	6063.6	6139.8	6193.3	6225.0
67.5°	4450.8	4760.0	4971.1	5176.9	5375.2	5497.4	5586.3	5683.6	5795.2	5888.0	5906.0
70°	3349.2	3813.0	4112.3	4358.9	4591.8	4756.2	4880.6	4971.1	5057.8	5124.1	5196.5
72.5°	2094.6	2500.2	2842.6	3162.3	3409.5	3635.8	3740.5	3941.1	3914.7	3965.3	4019.6
75°	1255.4	1453.0	1641.5	1866.8	1996.6	2185.1	2219.0	2252.2	2234.8	2178.2	2220.5
77.5°	872.3	904.8	903.3	890.5	876.9	843.7	800.7	777.4	761.6	739.0	748.0
80°	877.6	807.6	700.4	588.9	486.3	418.4	391.3	391.3	419.2	459.2	499.2
82.5°	1048.8	974.2	868.6	726.8	576.1	469.0	397.3	368.7	374.0	414.7	466.0
85°	707.3	723.8	634.8	580.6	459.9	358.1	300.1	243.5	215.6	222.4	251.8
87.5°	25.6	30.9	11.3	15.1	10.6	9.0	9.0	9.8	6.7	8.3	7.6
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
2.5°	702.0	701.2	701.2	699.7	699.7	699.0	699.0	698.2	697.4	697.4	696.7
5°	718.5	717.8	716.3	715.5	714.0	714.0	713.3	711.8	711.8	710.3	709.5
7.5°	742.0	740.4	739.0	738.1	737.4	735.1	735.1	733.7	733.7	732.1	731.4
10°	769.8	768.3	766.8	767.6	765.3	764.6	763.0	763.0	760.8	760.0	760.0
12.5°	800.0	799.3	799.3	797.0	796.2	795.4	792.4	792.4	792.4	791.0	791.7
15°	832.4	833.2	830.9	833.2	832.4	830.2	830.2	830.2	827.2	830.9	827.9
17.5°	876.2	878.4	876.9	877.6	876.2	876.2	876.9	876.2	877.6	877.6	882.2
20°	930.5	931.2	934.9	933.5	933.5	932.6	934.2	934.9	937.9	936.5	939.5
22.5°	989.9	993.8	994.5	997.5	997.5	996.8	998.2	1001.3	1002.8	1005.1	1004.4
25°	1057.8	1060.1	1063.1	1059.4	1065.4	1065.4	1066.9	1070.7	1071.4	1071.4	1076.7
27.5°	1121.1	1127.3	1128.0	1131.7	1129.5	1131.0	1136.3	1138.5	1141.6	1141.6	1143.0
30°	1192.8	1195.1	1196.6	1201.1	1200.3	1201.1	1201.9	1205.6	1205.6	1209.4	1213.2
32.5°	1266.7	1268.2	1269.7	1274.3	1275.8	1278.8	1277.3	1280.3	1284.0	1284.8	1287.0
35°	1354.9	1356.5	1357.9	1364.8	1365.5	1370.8	1372.2	1370.8	1376.8	1373.1	1376.8
37.5°	1406.2	1413.0	1414.5	1419.1	1417.5	1421.2	1423.5	1426.5	1428.1	1431.1	1437.1
40°	1468.8	1471.1	1475.5	1477.8	1480.8	1481.6	1484.7	1486.8	1489.1	1496.0	1502.7
42.5°	1532.8	1535.9	1538.1	1541.1	1545.0	1548.0	1550.3	1557.0	1558.5	1563.0	1575.9
45°	1610.6	1609.0	1609.7	1610.6	1612.0	1615.9	1622.6	1629.4	1633.9	1644.5	1655.0
47.5°	1707.0	1697.2	1693.5	1687.5	1688.9	1697.2	1698.8	1710.1	1719.1	1728.9	1741.8
50°	1853.3	1826.9	1811.1	1795.2	1793.8	1798.2	1804.4	1816.4	1826.9	1839.8	1857.8
52.5°	2099.1	2048.6	2016.9	1973.2	1961.1	1958.9	1954.3	1961.1	1964.1	1981.5	2015.4
55°	2596.8	2503.2	2442.9	2375.1	2311.7	2292.8	2256.7	2264.2	2256.7	2267.3	2317.8
57.5°	3635.8	3561.1	3502.3	3415.5	3307.0	3191.6	3163.0	3044.7	3068.0	3135.9	3092.1
60°	5144.5	5117.3	5075.1	5033.7	4885.1	4801.5	4665.0	4649.8	4554.1	4554.9	4492.3
62.5°	5989.0	6023.6	5998.0	5985.9	5977.6	5951.3	5883.4	5802.0	5679.8	5591.6	5462.0
65°	6230.3	6200.8	6173.0	6169.2	6166.9	6209.8	6219.7	6162.4	6051.5	5914.3	5765.1
67.5°	5949.0	5932.4	5933.9	5902.3	5921.9	5996.5	6048.5	6032.7	5930.9	5765.1	5575.0
70°	5279.5	5247.0	5280.2	5321.7	5351.1	5394.1	5446.1	5459.0	5366.2	5195.8	5002.0
72.5°	3953.2	3958.4	3990.2	4001.5	4119.8	4107.8	4154.5	4002.2	3935.1	3773.0	3673.5
75°	2080.3	2046.3	2134.5	1947.6	1870.7	1924.1	1774.2	1630.2	1660.3	1685.2	1505.7
77.5°	735.1	687.7	606.9	574.5	478.0	404.9	331.0	298.5	281.2	272.2	260.9
80°	527.8	542.9	526.3	487.0	414.0	331.7	261.7	206.6	177.2	161.3	150.8
82.5°	533.8	593.4	619.8	608.5	542.1	410.2	270.7	172.6	128.2	107.0	99.5
85°	286.5	313.7	301.6	254.1	228.5	136.5	93.5	62.6	52.7	48.3	44.5
87.5°	11.3	9.0	7.6	7.6	8.3	9.0	7.6	8.3	7.6	7.6	7.6
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0	693.0
2.5°	695.2	695.2	695.2	694.4	693.0	689.1	685.4	682.4	680.1	677.8	674.8
5°	708.7	707.3	707.3	707.3	701.2	695.2	689.9	684.7	680.1	676.4	673.4
7.5°	731.4	730.6	727.6	726.8	722.3	712.5	706.5	697.4	692.1	686.8	685.4
10°	758.5	757.7	757.0	756.3	750.3	740.4	732.8	724.6	717.1	709.5	702.0
12.5°	790.2	789.4	788.7	786.4	784.1	778.9	770.6	761.6	752.4	736.7	728.4
15°	829.4	830.9	829.4	828.6	827.2	827.9	822.6	809.7	795.4	775.1	757.7
17.5°	881.5	879.9	879.2	882.2	881.5	885.2	883.7	867.0	845.2	812.8	782.7
20°	938.8	938.8	941.8	944.0	950.8	960.6	956.1	935.8	895.8	850.5	811.3
22.5°	1007.4	1008.8	1011.8	1010.4	1020.9	1036.8	1038.2	1009.6	957.6	895.0	840.0
25°	1079.0	1080.5	1077.4	1082.0	1099.3	1122.0	1126.4	1085.7	1017.1	935.8	864.0
27.5°	1146.8	1148.3	1148.3	1154.4	1171.0	1209.4	1213.9	1168.7	1077.4	971.2	881.5
30°	1213.2	1219.2	1220.7	1222.2	1247.2	1300.6	1310.5	1244.9	1130.3	997.5	893.5
32.5°	1296.9	1299.2	1302.2	1305.9	1334.6	1400.2	1400.2	1310.5	1164.1	1014.1	895.8
35°	1386.6	1387.4	1394.1	1394.9	1435.6	1501.2	1488.4	1364.8	1188.3	1010.4	879.2
37.5°	1440.9	1443.9	1450.7	1459.7	1502.7	1595.4	1566.0	1411.5	1192.8	985.5	841.5
40°	1508.0	1514.0	1520.8	1529.8	1594.0	1691.2	1631.6	1440.9	1174.0	936.5	784.9
42.5°	1580.4	1588.7	1599.2	1615.9	1691.9	1775.6	1681.5	1445.4	1131.0	881.5	717.8
45°	1661.8	1676.9	1688.9	1708.5	1794.5	1848.8	1711.6	1419.1	1076.7	809.0	646.2
47.5°	1756.1	1768.1	1789.2	1810.4	1896.3	1898.5	1714.6	1367.8	1002.8	736.7	570.1
50°	1872.1	1879.7	1911.4	1924.1	2004.9	1950.6	1692.7	1298.3	925.2	655.2	485.6
52.5°	2026.7	2037.3	2078.0	2097.6	2154.9	2021.5	1661.8	1223.0	836.2	563.9	398.9
55°	2332.1	2378.1	2406.7	2440.7	2477.6	2182.1	1648.2	1142.3	735.9	458.4	316.0
57.5°	3189.4	3174.3	3237.6	3314.5	3313.8	2549.2	1729.6	1073.0	617.5	350.6	242.8
60°	4466.6	4480.9	4448.6	4494.5	4348.3	3004.7	1841.2	999.8	484.0	260.9	185.5
62.5°	5416.0	5333.0	5287.0	5232.7	4910.8	3054.4	1759.8	849.7	352.1	183.2	142.5
65°	5640.6	5543.3	5444.6	5341.2	4855.8	2753.6	1443.9	623.5	227.7	125.9	113.1
67.5°	5419.0	5262.9	5137.0	5030.7	4449.3	2282.4	1055.5	383.0	130.5	101.8	96.5
70°	4844.5	4671.7	4468.2	4349.0	3746.6	1682.2	676.4	206.6	100.3	90.5	88.2
72.5°	3546.0	3404.2	3181.9	3045.4	2690.3	1022.4	377.7	116.2	93.5	86.7	83.7
75°	1381.3	1307.5	1214.7	1222.2	1091.0	452.4	171.2	100.3	91.2	85.2	82.2
77.5°	237.5	231.5	214.1	214.1	243.5	165.1	113.9	101.0	90.5	83.7	78.4
80°	142.5	139.5	132.7	131.2	126.6	116.2	109.3	102.6	89.0	79.2	72.3
82.5°	93.5	89.7	87.5	86.7	94.3	101.8	102.6	101.8	84.5	68.6	58.9
85°	40.0	40.0	40.0	40.7	54.3	82.2	84.5	90.5	69.3	53.6	42.2
87.5°	6.7	8.3	8.3	9.0	9.8	18.1	22.6	29.4	23.4	22.6	20.3
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°	693.0	693.0	693.0
2.5°	674.1	672.5	672.5
5°	671.8	670.3	671.1
7.5°	680.8	677.8	678.5
10°	697.4	694.4	693.0
12.5°	718.5	714.8	714.8
15°	740.4	731.4	730.6
17.5°	758.5	747.3	745.7
20°	778.9	763.8	761.6
22.5°	797.7	777.4	774.3
25°	811.3	786.4	782.7
27.5°	817.3	787.9	784.9
30°	821.9	788.7	784.1
32.5°	817.3	781.9	778.1
35°	792.4	754.0	751.7
37.5°	749.4	706.5	703.5
40°	693.0	647.7	640.1
42.5°	620.5	578.3	570.1
45°	550.5	502.2	498.3
47.5°	475.0	429.0	431.3
50°	395.9	354.4	353.6
52.5°	320.4	284.2	282.0
55°	252.5	226.9	224.7
57.5°	199.8	186.2	183.9
60°	162.9	156.1	153.8
62.5°	131.2	128.9	128.2
65°	109.3	109.3	109.3
67.5°	95.0	95.8	95.8
70°	87.5	88.2	87.5
72.5°	84.5	86.7	86.7
75°	82.2	83.7	80.7
77.5°	80.7	81.5	76.2
80°	79.9	79.2	69.3
82.5°	69.3	67.2	58.9
85°	63.3	48.3	40.7
87.5°	32.4	22.6	17.3
90°	0.0	0.0	0.0

(END OF REPORT)