

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: STREETWORKS

Report Number: P154734

Luminaire Tested: **AVM-F03-LED-E-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154734
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-F03-LED-E-U-T2-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
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

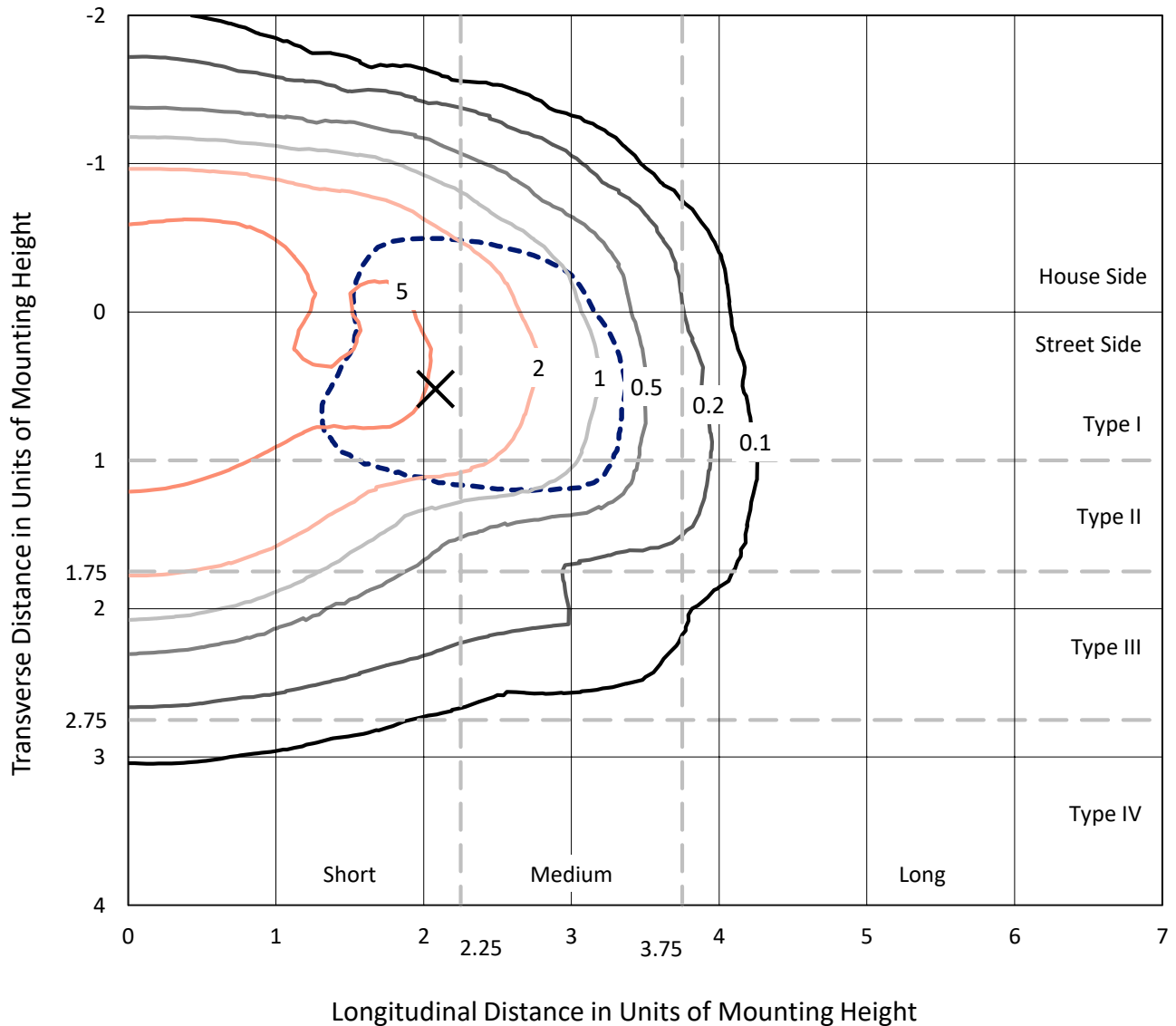
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: AVM-F03-LED-E-U-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

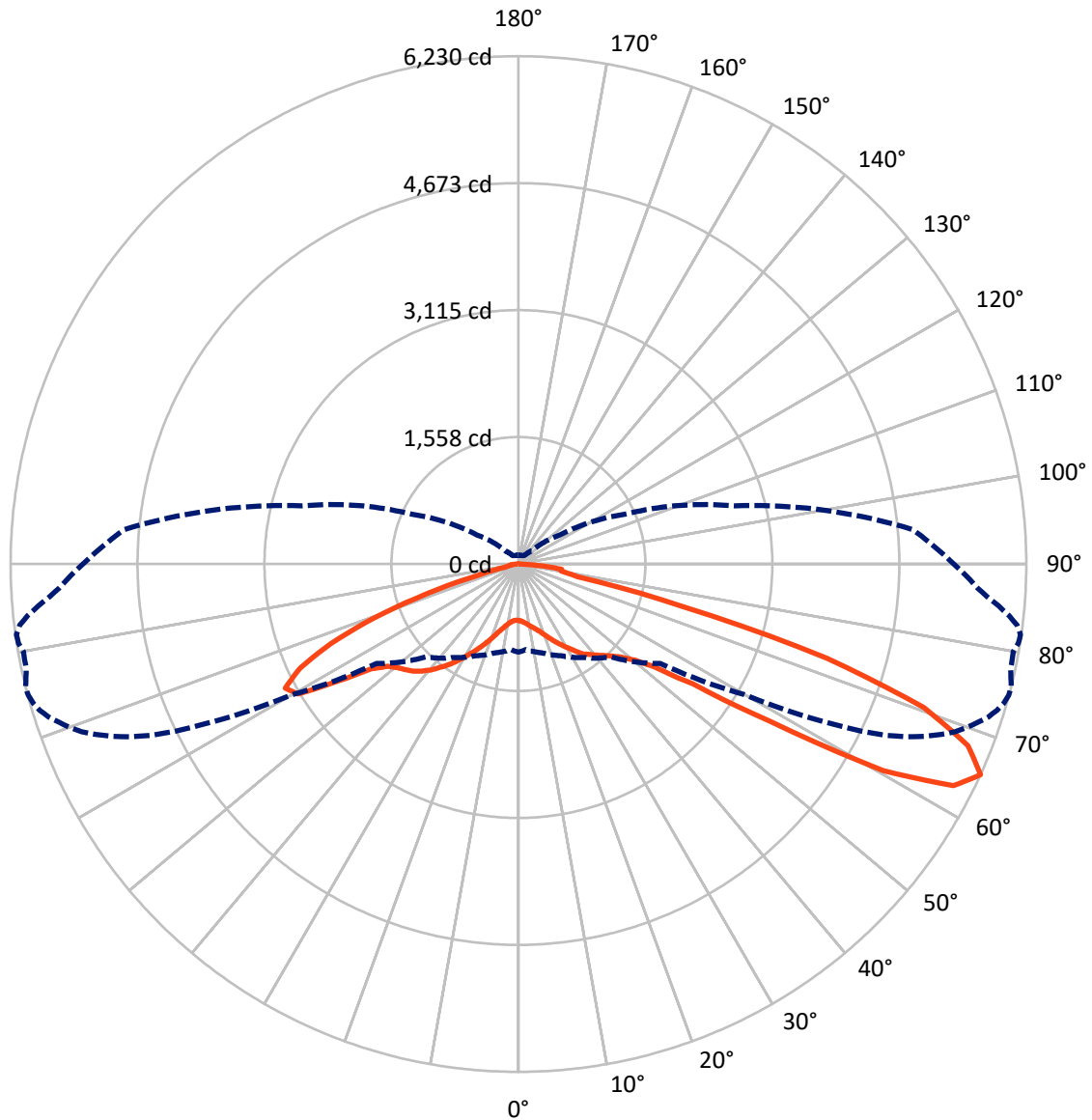


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2426.8	0.0	2426.8
	% 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°	93.3	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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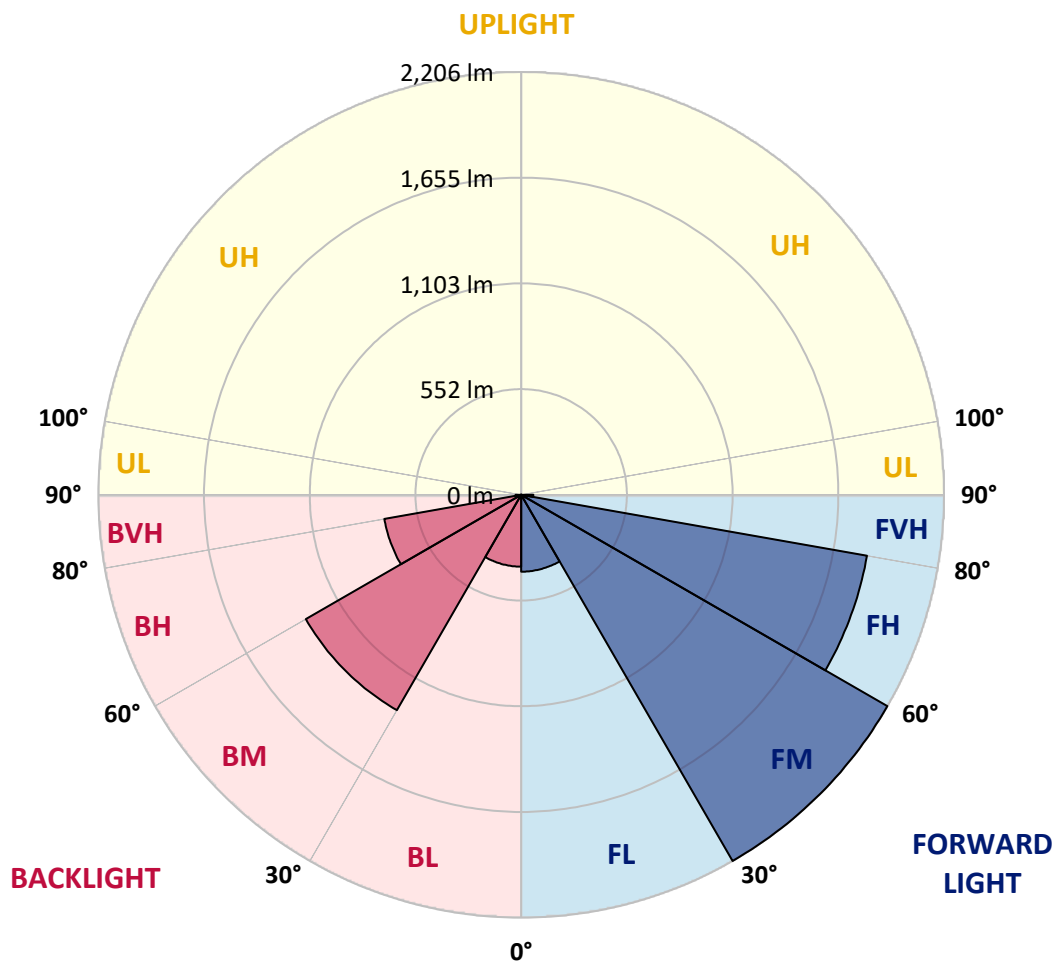
CATALOG NUMBER: AVM-F03-LED-E-U-T2-7030

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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	723.1	723.8	722.3	721.6	719.3	715.5	712.5	709.5	709.5	709.5	707.2
5°	754.7	756.3	753.2	751.0	744.2	740.4	735.1	731.4	729.9	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	815.8	805.3	794.0	785.7	784.9	784.2	781.9
12.5°	874.6	872.4	870.1	861.8	853.5	836.9	824.1	815.8	815.1	815.8	812.8
15°	927.4	922.1	919.9	905.5	887.5	869.4	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	918.4	918.4	920.6
22.5°	1018.6	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	999.0	996.8	1010.4	1022.4	1025.4	1028.4	1032.2
27.5°	1042.8	1039.0	1040.5	1036.7	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	1164.2	1165.7	1181.5	1186.8	1193.6	1207.1	1216.9	1217.7	1218.5	1228.3
35°	1269.7	1274.2	1287.1	1300.6	1313.5	1312.7	1304.4	1309.7	1305.9	1310.4	1311.2
37.5°	1403.9	1397.9	1416.8	1447.7	1467.3	1462.0	1425.0	1400.9	1407.7	1404.7	1402.4
40°	1507.2	1514.0	1550.2	1590.9	1606.0	1622.6	1574.3	1532.9	1526.8	1515.5	1508.7
42.5°	1649.7	1650.5	1679.9	1710.1	1753.8	1790.0	1759.1	1699.5	1681.4	1667.8	1638.4
45°	1781.7	1779.4	1803.6	1840.5	1892.5	1944.5	1955.9	1891.0	1884.2	1860.1	1821.6
47.5°	1869.9	1866.9	1883.5	1931.7	2016.2	2101.4	2148.1	2128.5	2115.7	2105.9	2045.6
50°	1929.5	1923.4	1942.3	1993.6	2087.8	2219.0	2341.1	2357.7	2352.5	2352.5	2314.0
52.5°	1974.0	1974.0	1987.5	2029.0	2124.8	2288.4	2507.0	2590.7	2597.5	2605.0	2602.8
55°	1949.1	1952.8	1986.8	2047.1	2148.1	2336.6	2644.3	2827.5	2865.2	2896.8	2933.0
57.5°	1863.9	1876.7	1921.9	2020.7	2154.2	2372.8	2796.6	3159.2	3265.5	3357.5	3500.8
60°	1739.5	1756.1	1821.6	1947.6	2109.7	2314.0	2850.1	3439.7	3608.6	3809.2	4183.2
62.5°	1526.1	1542.7	1606.8	1732.7	1871.4	2088.6	2628.4	3481.2	3751.1	4035.4	4600.9
65°	1081.2	1054.8	1128.7	1241.8	1400.9	1611.3	2124.0	3203.0	3591.3	3976.6	4674.8
67.5°	602.4	600.2	645.4	729.9	882.2	1108.4	1463.5	2456.5	2813.9	3250.5	4107.8
70°	415.5	420.0	448.6	539.9	665.8	861.1	1042.8	1542.7	1799.8	2096.1	2939.1
72.5°	291.8	301.6	317.4	371.7	500.7	725.3	1065.4	922.1	1050.3	1252.4	1767.4
75°	171.2	177.9	189.3	215.6	285.0	484.8	1103.1	810.5	810.5	858.0	1069.2
77.5°	105.6	105.6	112.3	122.9	151.6	237.5	785.7	910.8	885.2	858.0	860.3
80°	54.3	58.1	67.9	73.1	84.4	108.6	352.9	849.8	931.9	987.0	948.5
82.5°	24.9	27.9	41.5	44.5	49.0	57.3	121.4	483.3	647.7	852.8	1065.4
85°	12.8	12.8	21.9	27.1	29.4	26.4	44.5	195.3	295.6	450.9	705.7
87.5°	2.3	2.3	3.8	4.5	6.8	6.0	7.5	11.3	18.8	20.4	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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	706.5	707.2	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°	752.5	751.0	748.0	748.0	747.2	745.7	745.7	743.4	742.7	741.2	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°	810.5	809.8	807.5	806.0	806.0	803.8	804.5	803.8	801.5	800.7	798.5
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°	876.1	876.1	876.1	876.1	876.9	874.6	875.4	873.9	872.4	875.4	875.4
20°	922.1	925.1	925.1	924.4	928.2	925.9	925.1	928.9	925.1	930.4	929.7
22.5°	974.9	977.9	977.9	980.9	981.7	984.0	985.5	984.0	987.0	990.0	990.0
25°	1033.7	1036.7	1039.0	1043.5	1045.8	1044.3	1045.0	1048.8	1050.3	1053.3	1056.3
27.5°	1095.6	1096.3	1099.3	1104.6	1108.4	1109.9	1110.6	1116.7	1117.4	1118.9	1121.9
30°	1155.9	1163.4	1161.9	1168.7	1171.0	1173.2	1177.7	1180.0	1185.3	1188.3	1188.3
32.5°	1226.7	1225.2	1231.3	1236.5	1240.3	1244.1	1247.9	1250.9	1253.9	1255.4	1262.9
35°	1315.0	1318.0	1318.0	1318.7	1327.8	1328.5	1331.6	1338.3	1340.6	1345.1	1348.1
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	1487.6	1483.9	1477.8	1469.5	1468.0	1464.3	1466.5	1465.8	1466.5
42.5°	1634.7	1615.8	1601.5	1590.9	1578.9	1569.8	1563.0	1553.2	1546.4	1538.1	1536.6
45°	1805.8	1770.4	1746.2	1728.9	1711.6	1686.7	1672.4	1657.3	1643.7	1630.1	1618.8
47.5°	2030.5	1992.8	1954.4	1922.7	1895.5	1855.6	1814.9	1792.2	1765.9	1742.5	1725.9
50°	2295.2	2249.9	2231.8	2187.3	2153.4	2093.1	2042.6	2005.6	1952.8	1917.4	1886.5
52.5°	2565.8	2554.5	2544.7	2507.0	2467.1	2432.4	2387.9	2323.1	2269.5	2228.8	2165.5
55°	2934.5	2939.8	2936.1	2915.7	2901.4	2868.2	2850.1	2793.5	2769.4	2710.6	2644.3
57.5°	3555.1	3597.3	3650.8	3671.9	3700.6	3673.5	3705.1	3743.6	3647.8	3681.0	3621.4
60°	4347.5	4541.3	4656.7	4798.4	4891.2	5020.8	5044.2	5078.1	5068.3	5087.2	5125.6
62.5°	4831.6	5061.6	5282.5	5443.1	5615.0	5710.0	5824.6	5904.5	5987.5	6043.3	6027.4
65°	4974.1	5210.8	5411.4	5587.1	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	5887.9	5906.0
70°	3349.2	3812.9	4112.3	4358.8	4591.8	4756.2	4880.6	4971.1	5057.8	5124.1	5196.5
72.5°	2094.6	2500.2	2842.6	3162.2	3409.6	3635.8	3740.6	3941.1	3914.7	3965.3	4019.5
75°	1255.4	1452.9	1641.4	1866.9	1996.6	2185.1	2219.0	2252.2	2234.8	2178.3	2220.5
77.5°	872.4	904.8	903.3	890.5	876.9	843.7	800.7	777.4	761.5	738.9	748.0
80°	877.6	807.5	700.5	588.9	486.3	418.5	391.3	391.3	419.2	459.2	499.1
82.5°	1048.8	974.2	868.6	726.8	576.1	469.0	397.4	368.7	374.0	414.7	466.0
85°	707.2	723.8	634.9	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	6.8	8.3	7.5
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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
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°	718.6	717.8	716.3	715.5	714.0	714.0	713.3	711.8	711.8	710.3	709.5
7.5°	741.9	740.4	738.9	738.2	737.4	735.1	735.1	733.6	733.6	732.1	731.4
10°	769.8	768.3	766.8	767.6	765.3	764.5	763.0	763.0	760.8	760.0	760.0
12.5°	800.0	799.2	799.2	797.0	796.2	795.5	792.4	792.4	792.4	790.9	791.7
15°	832.4	833.2	830.9	833.2	832.4	830.1	830.1	830.1	827.1	830.9	827.9
17.5°	876.1	878.4	876.9	877.6	876.1	876.1	876.9	876.1	877.6	877.6	882.2
20°	930.4	931.2	935.0	933.4	933.4	932.7	934.2	935.0	938.0	936.5	939.5
22.5°	990.0	993.8	994.5	997.5	997.5	996.8	998.3	1001.3	1002.8	1005.1	1004.3
25°	1057.9	1060.1	1063.1	1059.4	1065.4	1065.4	1066.9	1070.7	1071.4	1071.4	1076.7
27.5°	1121.2	1127.2	1128.0	1131.7	1129.5	1131.0	1136.3	1138.5	1141.5	1141.5	1143.1
30°	1192.8	1195.1	1196.6	1201.1	1200.4	1201.1	1201.9	1205.6	1205.6	1209.4	1213.2
32.5°	1266.7	1268.2	1269.7	1274.2	1275.8	1278.8	1277.3	1280.3	1284.1	1284.8	1287.1
35°	1354.9	1356.4	1357.9	1364.7	1365.5	1370.8	1372.3	1370.8	1376.8	1373.0	1376.8
37.5°	1406.2	1413.0	1414.5	1419.0	1417.5	1421.3	1423.5	1426.6	1428.1	1431.1	1437.1
40°	1468.8	1471.0	1475.6	1477.8	1480.8	1481.6	1484.6	1486.9	1489.1	1495.9	1502.7
42.5°	1532.9	1535.9	1538.1	1541.2	1544.9	1547.9	1550.2	1557.0	1558.5	1563.0	1575.8
45°	1610.5	1609.0	1609.8	1610.5	1612.0	1615.8	1622.6	1629.4	1633.9	1644.5	1655.0
47.5°	1707.0	1697.2	1693.5	1687.4	1688.9	1697.2	1698.7	1710.1	1719.1	1728.9	1741.7
50°	1853.3	1826.9	1811.1	1795.3	1793.8	1798.3	1804.3	1816.4	1826.9	1839.7	1857.8
52.5°	2099.1	2048.6	2016.9	1973.2	1961.1	1958.9	1954.4	1961.1	1964.2	1981.5	2015.4
55°	2596.8	2503.3	2442.9	2375.1	2311.7	2292.9	2256.7	2264.2	2256.7	2267.3	2317.8
57.5°	3635.8	3561.1	3502.3	3415.6	3307.0	3191.7	3163.0	3044.6	3068.0	3135.9	3092.1
60°	5144.5	5117.4	5075.1	5033.7	4885.1	4801.4	4665.0	4649.9	4554.1	4554.9	4492.3
62.5°	5989.0	6023.7	5998.0	5986.0	5977.7	5951.3	5883.4	5802.0	5679.8	5591.6	5461.9
65°	6230.2	6200.8	6172.9	6169.2	6166.9	6209.9	6219.7	6162.4	6051.6	5914.3	5765.0
67.5°	5949.0	5932.4	5933.9	5902.3	5921.9	5996.5	6048.5	6032.7	5930.9	5765.0	5575.0
70°	5279.5	5247.0	5280.2	5321.7	5351.1	5394.1	5446.1	5458.9	5366.2	5195.8	5002.0
72.5°	3953.2	3958.5	3990.1	4001.4	4119.8	4107.8	4154.5	4002.2	3935.1	3773.0	3673.5
75°	2080.3	2046.3	2134.6	1947.6	1870.7	1924.2	1774.1	1630.1	1660.3	1685.2	1505.7
77.5°	735.1	687.6	607.0	574.5	478.0	404.9	331.0	298.6	281.2	272.2	260.9
80°	527.8	542.9	526.3	487.1	413.9	331.8	261.6	206.6	177.2	161.4	150.8
82.5°	533.8	593.4	619.8	608.5	542.1	410.2	270.7	172.7	128.2	107.1	99.5
85°	286.5	313.7	301.6	254.1	228.5	136.5	93.5	62.6	52.8	48.3	44.5
87.5°	11.3	9.0	7.5	7.5	8.3	9.0	7.5	8.3	7.5	7.5	7.5
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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	695.2	695.2	695.2	694.4	692.9	689.2	685.4	682.4	680.1	677.8	674.8
5°	708.8	707.2	707.2	707.2	701.2	695.2	689.9	684.6	680.1	676.3	673.3
7.5°	731.4	730.6	727.6	726.8	722.3	712.5	706.5	697.4	692.2	686.9	685.4
10°	758.5	757.8	757.0	756.3	750.2	740.4	732.9	724.6	717.0	709.5	702.0
12.5°	790.2	789.4	788.7	786.4	784.2	778.9	770.6	761.5	752.5	736.7	728.4
15°	829.4	830.9	829.4	828.6	827.1	827.9	822.6	809.8	795.5	775.1	757.8
17.5°	881.4	879.9	879.2	882.2	881.4	885.2	883.7	867.1	845.2	812.8	782.6
20°	938.7	938.7	941.7	944.0	950.8	960.6	956.1	935.7	895.7	850.5	811.3
22.5°	1007.3	1008.8	1011.9	1010.4	1020.9	1036.7	1038.2	1009.6	957.6	895.0	839.9
25°	1079.0	1080.5	1077.5	1082.0	1099.3	1121.9	1126.5	1085.8	1017.1	935.7	864.1
27.5°	1146.8	1148.3	1148.3	1154.4	1171.0	1209.4	1213.9	1168.7	1077.5	971.1	881.4
30°	1213.2	1219.2	1220.7	1222.2	1247.1	1300.6	1310.4	1244.8	1130.2	997.5	893.5
32.5°	1296.9	1299.1	1302.1	1305.9	1334.6	1400.2	1400.2	1310.4	1164.2	1014.1	895.7
35°	1386.6	1387.3	1394.1	1394.9	1435.6	1501.2	1488.4	1364.7	1188.3	1010.4	879.2
37.5°	1440.9	1443.9	1450.7	1459.7	1502.7	1595.5	1566.0	1411.5	1192.8	985.5	841.5
40°	1508.0	1514.0	1520.8	1529.9	1593.9	1691.2	1631.6	1440.9	1174.0	936.5	784.9
42.5°	1580.4	1588.7	1599.2	1615.8	1692.0	1775.7	1681.4	1445.4	1131.0	881.4	717.8
45°	1661.8	1676.9	1688.9	1708.5	1794.5	1848.8	1711.6	1419.0	1076.7	809.0	646.2
47.5°	1756.1	1768.1	1789.2	1810.3	1896.3	1898.6	1714.6	1367.7	1002.8	736.7	570.0
50°	1872.2	1879.7	1911.4	1924.2	2004.9	1950.6	1692.7	1298.4	925.1	655.2	485.6
52.5°	2026.7	2037.3	2078.0	2097.6	2154.9	2021.5	1661.8	1223.0	836.2	564.0	398.9
55°	2332.1	2378.1	2406.7	2440.7	2477.6	2182.1	1648.2	1142.3	735.9	458.4	315.9
57.5°	3189.4	3174.3	3237.6	3314.6	3313.8	2549.3	1729.7	1072.9	617.5	350.6	242.8
60°	4466.7	4481.0	4448.6	4494.6	4348.3	3004.7	1841.3	999.8	484.1	260.9	185.5
62.5°	5415.9	5333.0	5287.0	5232.7	4910.8	3054.4	1759.8	849.8	352.1	183.2	142.5
65°	5640.6	5543.4	5444.6	5341.3	4855.7	2753.6	1443.9	623.6	227.7	125.9	113.1
67.5°	5419.0	5262.9	5137.0	5030.6	4449.3	2282.3	1055.6	383.0	130.4	101.8	96.5
70°	4844.4	4671.7	4468.2	4349.0	3746.6	1682.2	676.3	206.6	100.3	90.5	88.2
72.5°	3546.0	3404.3	3181.9	3045.4	2690.2	1022.4	377.8	116.1	93.5	86.7	83.7
75°	1381.3	1307.4	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	126.7	116.1	109.3	102.5	89.0	79.2	72.4
82.5°	93.5	89.7	87.5	86.7	94.2	101.8	102.5	101.8	84.4	68.6	58.8
85°	40.0	40.0	40.0	40.7	54.3	82.2	84.4	90.5	69.4	53.5	42.2
87.5°	6.8	8.3	8.3	9.0	9.8	18.1	22.6	29.4	23.4	22.6	20.4
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):

	165°	175°	180°
0°	692.9	692.9	692.9
2.5°	674.1	672.6	672.6
5°	671.8	670.3	671.1
7.5°	680.9	677.8	678.6
10°	697.4	694.4	692.9
12.5°	718.6	714.8	714.8
15°	740.4	731.4	730.6
17.5°	758.5	747.2	745.7
20°	778.9	763.8	761.5
22.5°	797.7	777.4	774.4
25°	811.3	786.4	782.6
27.5°	817.3	787.9	784.9
30°	821.9	788.7	784.2
32.5°	817.3	781.9	778.1
35°	792.4	754.0	751.7
37.5°	749.5	706.5	703.5
40°	692.9	647.7	640.1
42.5°	620.5	578.3	570.0
45°	550.4	502.2	498.4
47.5°	475.0	429.0	431.3
50°	395.8	354.4	353.6
52.5°	320.4	284.3	282.0
55°	252.6	227.0	224.7
57.5°	199.8	186.2	184.0
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°	84.4	86.7	86.7
75°	82.2	83.7	80.7
77.5°	80.7	81.4	76.2
80°	79.9	79.2	69.4
82.5°	69.4	67.1	58.8
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)