

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: P156861

Luminaire Tested: **AVS-E02-LED-E-U-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156861
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E02-LED-E-U-T4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6201.9 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

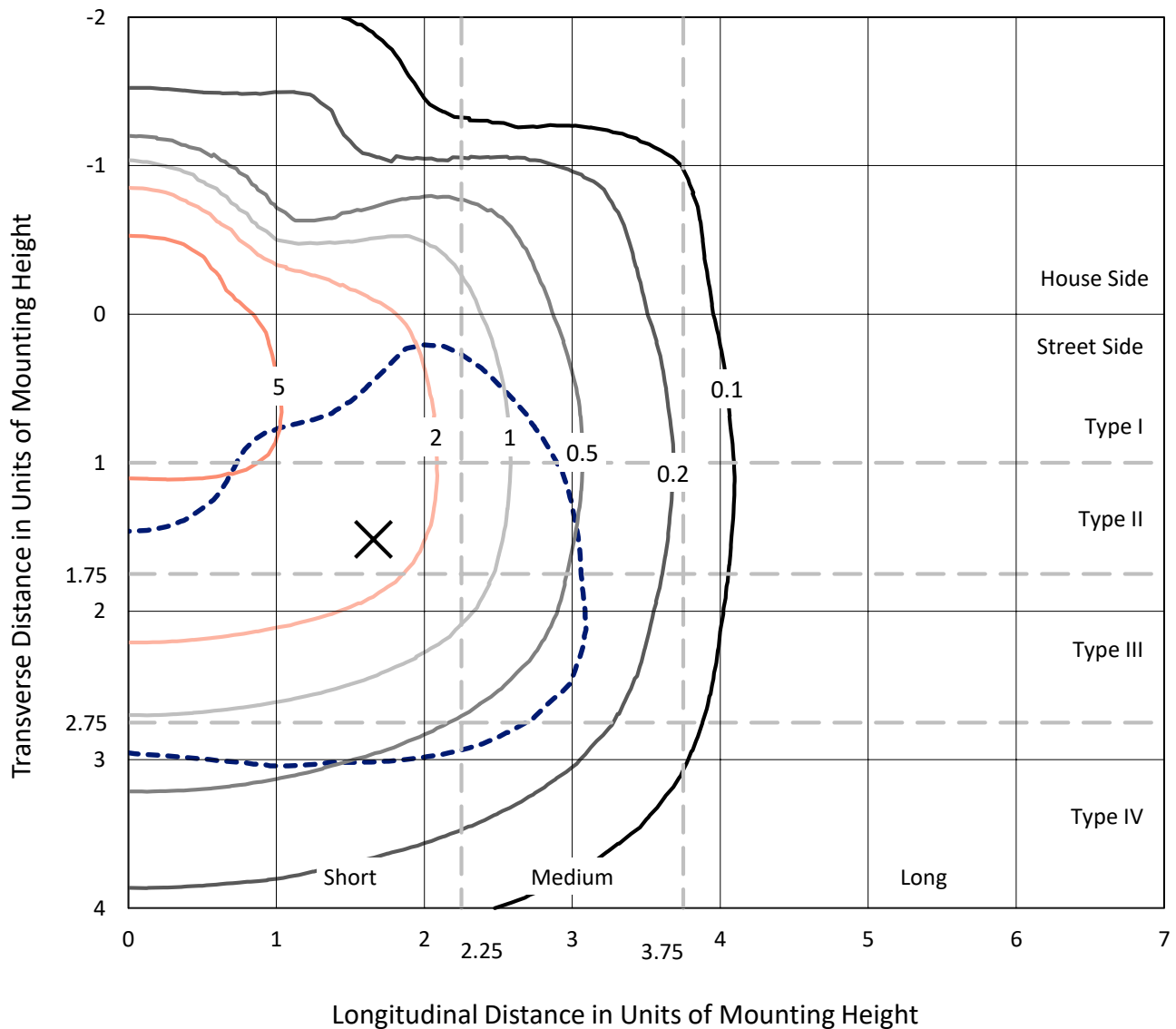


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

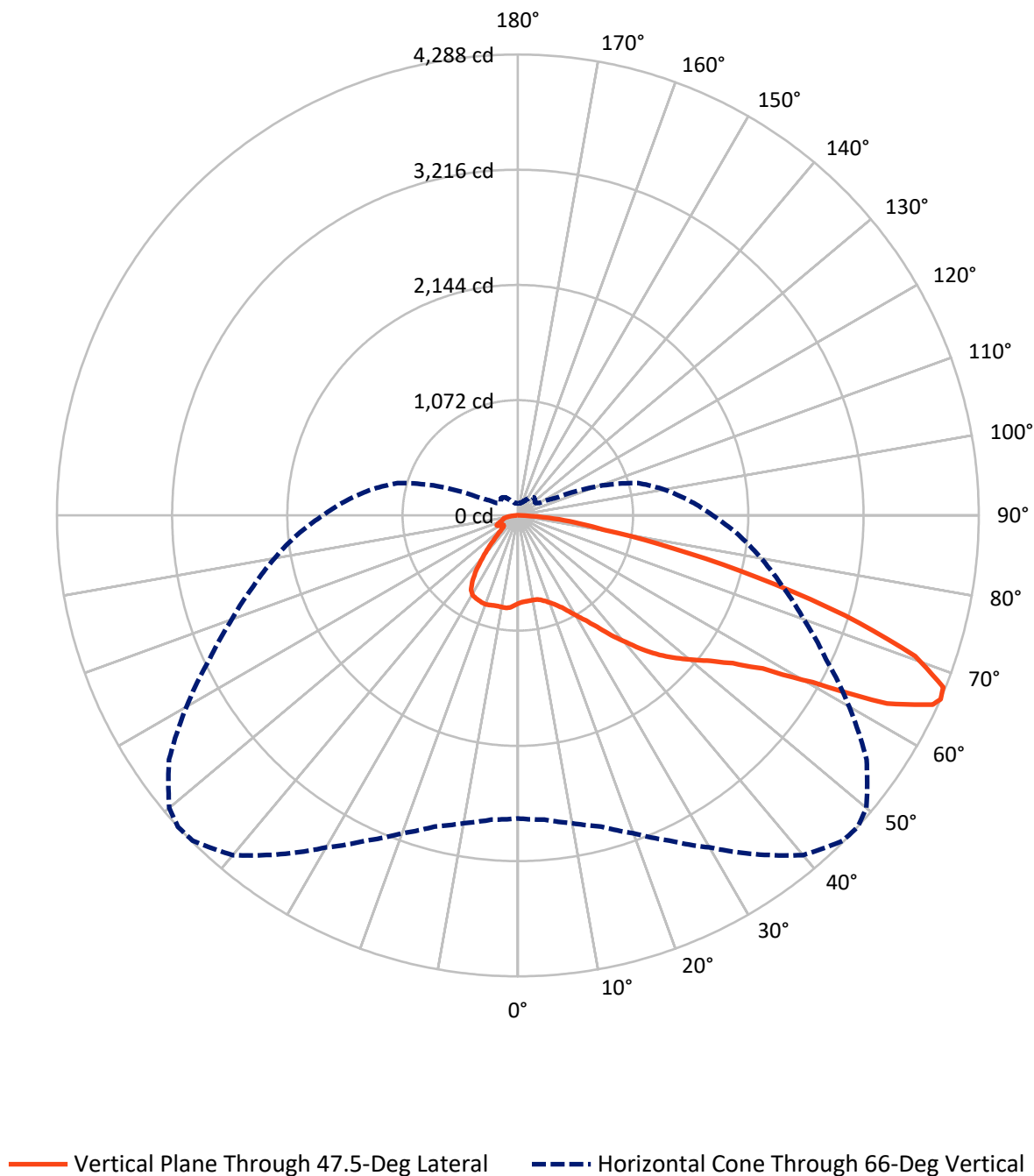


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1323.3	0.0	1323.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4878.5	0.0	4878.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	6201.9	0.0	6201.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	1.3
10°-20°	241.0	3.9
20°-30°	415.1	6.7
30°-40°	628.1	10.1
40°-50°	814.1	13.1
50°-60°	1122.3	18.1
60°-70°	1743.7	28.1
70°-80°	1014.0	16.3
80°-90°	144.2	2.3
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°	6201.9	100.0
0°-180°	6201.9	100.0

Coefficient of Utilization



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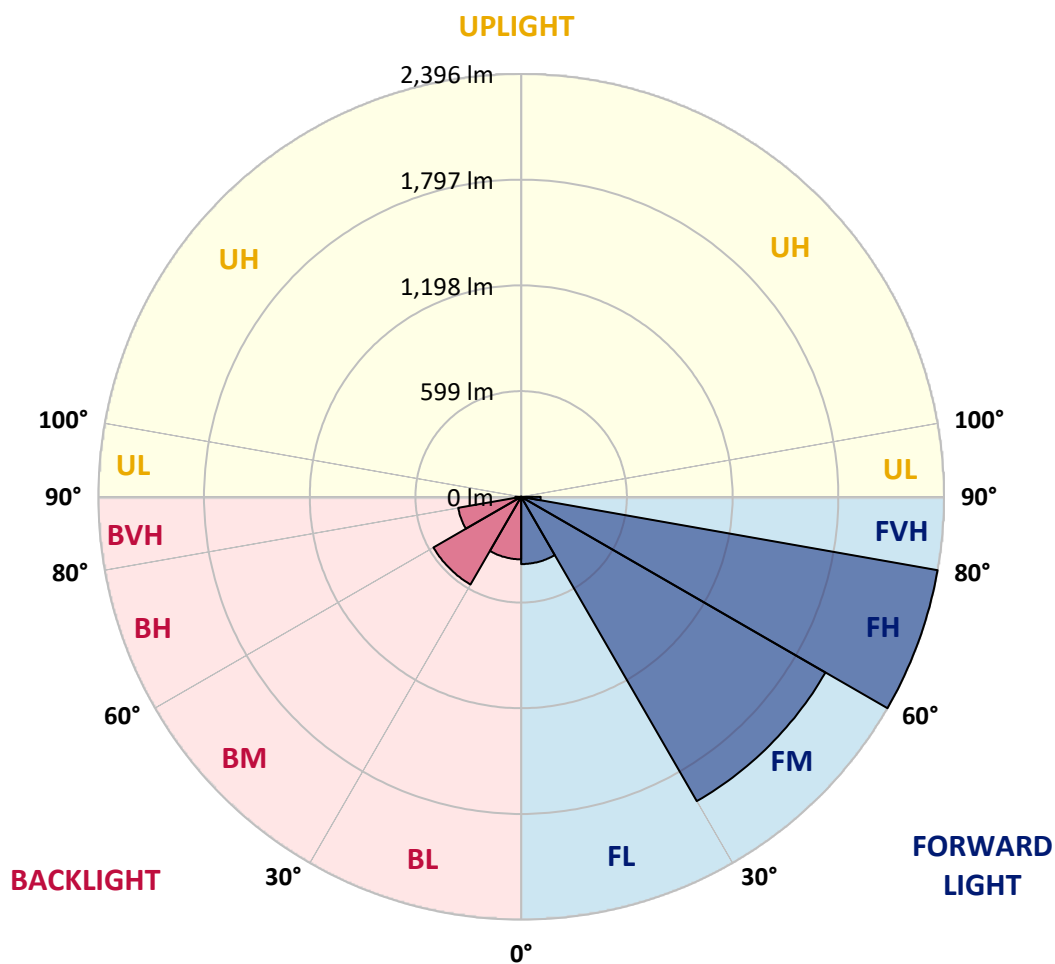
CATALOG NUMBER: AVS-E02-LED-E-U-T4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.3	6.1			
FM	(30°-60°)	1990.8	32.1			
FH	(60°-80°)	2395.8	38.6			G2/5000
FVH	(80°-90°)	110.7	1.8			G2/225
BL	(0°-30°)	354.2	5.7	B1/500		
BM	(30°-60°)	573.7	9.2	B1/1000		
BH	(60°-80°)	361.9	5.8	B1/500		G1/500
BVH	(80°-90°)	33.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5
2.5°	802.4	805.2	803.1	803.8	803.8	804.5	804.5	805.2	804.5	806.5	807.9
5°	788.1	789.4	788.7	790.1	791.5	794.2	793.5	796.9	797.6	799.7	803.1
7.5°	782.6	781.2	781.9	783.9	785.3	786.6	788.1	790.8	792.8	797.6	800.3
10°	788.1	787.4	788.1	789.4	789.4	790.1	788.7	791.5	792.8	796.9	799.7
12.5°	810.7	810.7	809.2	809.2	807.9	806.5	803.1	801.0	800.3	801.0	802.4
15°	846.8	845.5	842.8	840.7	838.0	833.2	828.4	824.4	821.6	817.5	816.1
17.5°	882.5	880.4	877.6	874.9	871.5	866.7	859.2	854.4	846.8	842.1	839.4
20°	923.5	919.4	916.0	912.5	905.7	904.4	896.8	888.6	879.7	868.8	867.4
22.5°	976.9	970.1	965.9	963.8	957.0	954.9	942.7	931.0	920.1	905.7	902.3
25°	1030.9	1024.0	1022.0	1019.3	1014.5	1011.7	1000.1	987.2	972.7	953.0	948.8
27.5°	1083.5	1084.2	1078.8	1080.8	1079.5	1074.7	1063.0	1050.1	1039.1	1015.9	1011.1
30°	1149.2	1145.2	1142.4	1146.5	1141.8	1142.4	1132.1	1125.3	1107.5	1093.8	1084.2
32.5°	1217.6	1217.0	1221.0	1223.8	1223.1	1221.8	1213.6	1206.7	1191.0	1171.1	1167.0
35°	1311.4	1315.4	1318.9	1331.2	1331.2	1340.1	1331.9	1323.6	1305.2	1281.2	1273.1
37.5°	1375.0	1376.4	1390.1	1406.4	1426.9	1446.1	1451.6	1453.7	1446.1	1428.3	1416.1
40°	1433.2	1435.9	1457.7	1483.1	1513.2	1550.8	1573.4	1583.6	1585.7	1577.5	1550.8
42.5°	1491.3	1495.3	1517.9	1554.9	1596.6	1644.5	1684.1	1709.5	1723.8	1723.8	1708.1
45°	1559.0	1564.5	1589.1	1629.4	1678.0	1738.2	1793.0	1841.6	1864.8	1866.1	1851.1
47.5°	1639.1	1643.8	1672.5	1713.6	1763.5	1824.5	1893.5	1948.9	1992.0	1994.7	1982.5
50°	1742.3	1749.1	1773.2	1810.1	1861.3	1922.9	1992.0	2069.3	2114.5	2125.4	2112.4
52.5°	1879.2	1880.5	1900.3	1934.5	1984.5	2043.3	2116.5	2200.6	2260.2	2269.0	2247.9
55°	2068.0	2065.9	2078.9	2115.9	2153.5	2199.3	2275.2	2369.6	2436.0	2449.6	2427.8
57.5°	2324.5	2322.4	2333.4	2342.3	2412.7	2457.2	2531.7	2622.1	2686.3	2726.0	2688.4
60°	2721.9	2719.9	2737.6	2789.6	2842.3	2907.3	2979.8	3087.9	3178.2	3189.8	3152.8
62.5°	3009.9	3020.2	3059.2	3120.0	3226.7	3354.0	3486.7	3629.0	3814.4	3873.2	3855.4
65°	2909.3	2929.8	2983.9	3076.3	3218.5	3394.4	3602.3	3860.2	4108.5	4247.4	4243.3
66°	2819.1	2841.7	2908.0	2996.9	3147.4	3339.6	3566.7	3847.9	4125.6	4278.9	4288.4
67.5°	2654.9	2680.2	2745.2	2850.6	2996.9	3201.5	3445.7	3751.4	4065.4	4243.9	4269.3
70°	2335.4	2364.1	2411.4	2498.2	2642.6	2825.2	3082.4	3356.1	3685.1	3889.6	3920.4
72.5°	1952.3	1977.6	2030.4	2101.5	2219.8	2334.7	2536.6	2738.3	2973.7	3206.9	3184.4
75°	1401.7	1412.6	1444.0	1521.3	1585.0	1688.3	1850.4	2016.0	2176.7	2283.4	2298.4
77.5°	728.5	757.3	801.8	887.3	956.4	1049.3	1154.7	1279.2	1396.9	1494.7	1468.0
80°	476.8	489.1	528.8	572.5	623.2	682.7	753.2	799.7	814.7	808.6	814.7
82.5°	275.0	297.6	350.3	383.7	421.3	441.9	498.0	551.4	581.5	543.8	530.2
85°	34.9	45.2	142.3	179.3	205.2	236.0	253.1	285.3	266.1	238.0	290.1
87.5°	7.6	6.8	9.5	20.5	21.2	17.8	33.5	35.5	21.9	11.0	13.7
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5
2.5°	809.2	809.9	811.3	813.4	814.7	816.1	817.5	819.5	820.9	822.3	825.0
5°	805.8	808.6	811.3	814.1	817.5	822.9	826.3	829.1	831.8	837.3	839.4
7.5°	803.8	808.6	812.6	817.5	822.9	827.8	833.9	837.3	841.5	844.9	848.9
10°	802.4	809.2	813.4	820.2	826.3	831.2	838.0	842.1	846.8	851.0	853.1
12.5°	805.2	808.6	812.6	819.5	827.0	833.9	841.5	844.9	848.9	852.3	853.1
15°	816.8	816.8	817.5	822.9	830.5	836.0	842.1	845.5	847.6	849.6	849.6
17.5°	838.0	833.2	829.7	830.5	835.2	838.7	842.1	842.1	840.7	840.0	838.7
20°	862.6	856.5	849.6	844.9	843.4	840.7	838.7	831.8	826.3	821.6	818.1
22.5°	898.1	888.6	879.1	870.2	862.0	851.7	840.0	826.3	813.4	804.5	799.0
25°	942.0	934.4	922.8	909.1	898.9	879.7	864.7	844.9	828.4	816.8	807.3
27.5°	1004.2	995.3	984.4	972.0	957.0	935.9	917.3	894.1	874.2	857.1	844.9
30°	1081.6	1069.8	1061.7	1046.6	1036.4	1012.4	994.0	965.2	926.9	899.6	882.5
32.5°	1160.8	1147.9	1141.0	1129.4	1117.7	1103.4	1075.3	1030.9	981.7	937.2	907.8
35°	1266.9	1253.3	1240.9	1230.7	1213.6	1186.8	1162.3	1108.9	1041.1	978.9	929.6
37.5°	1400.3	1377.7	1346.9	1320.9	1290.9	1252.5	1214.9	1160.2	1082.9	1002.2	936.5
40°	1542.6	1502.9	1459.2	1410.6	1358.5	1303.1	1260.1	1204.7	1117.7	1022.0	931.7
42.5°	1691.0	1628.1	1567.3	1498.8	1426.3	1360.6	1304.6	1243.6	1143.7	1027.5	912.5
45°	1838.1	1767.7	1675.3	1585.7	1494.0	1412.6	1349.6	1281.2	1167.7	1029.5	887.3
47.5°	1959.9	1887.4	1782.0	1669.8	1561.0	1468.7	1394.8	1320.9	1199.9	1043.9	881.0
50°	2088.5	2000.2	1883.2	1750.6	1627.4	1524.1	1445.5	1368.8	1245.0	1080.8	900.9
52.5°	2228.7	2127.5	1990.7	1842.2	1707.5	1591.8	1506.3	1427.7	1302.5	1132.8	938.5
55°	2399.7	2275.9	2127.5	1959.9	1815.5	1687.6	1593.2	1500.2	1370.9	1194.4	985.7
57.5°	2661.0	2509.1	2342.3	2151.4	1991.3	1840.1	1727.3	1619.9	1476.9	1286.0	1050.1
60°	3133.7	2971.6	2754.7	2523.5	2335.4	2159.0	1993.4	1860.0	1684.1	1466.6	1192.3
62.5°	3811.0	3595.4	3306.1	2982.6	2736.3	2481.8	2295.0	2096.7	1878.4	1643.8	1359.9
65°	4187.2	3925.9	3538.7	3163.1	2846.4	2570.1	2332.6	2102.8	1860.6	1636.3	1399.0
66°	4233.7	3961.5	3559.2	3163.8	2831.4	2547.5	2297.8	2059.7	1812.1	1598.0	1382.5
67.5°	4214.5	3936.2	3521.6	3104.4	2766.4	2461.2	2203.4	1956.5	1709.5	1509.7	1327.8
70°	3900.5	3636.5	3229.5	2825.2	2504.4	2203.4	1957.1	1714.3	1487.9	1316.8	1182.8
72.5°	3239.1	3013.4	2659.7	2342.3	2090.6	1842.2	1633.6	1401.7	1210.2	1083.5	1004.2
75°	2338.1	2201.3	1879.2	1697.2	1476.3	1311.4	1108.9	971.4	833.9	772.3	758.7
77.5°	1476.9	1292.8	1088.4	896.2	736.8	610.9	475.4	403.6	336.6	329.7	398.1
80°	747.7	673.2	518.5	413.2	347.5	281.1	222.3	168.3	117.6	141.6	169.6
82.5°	489.8	408.4	320.1	263.3	229.1	190.2	147.8	102.6	75.2	84.9	116.3
85°	264.8	225.7	182.0	143.6	116.3	103.9	69.7	49.2	48.6	52.0	66.3
87.5°	19.2	19.2	15.0	13.7	16.4	13.7	12.3	12.3	11.6	12.3	16.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5	817.5
2.5°	826.3	828.4	829.1	832.5	834.6	836.0	837.3	837.3	838.0	840.0	840.7
5°	842.1	845.5	849.6	852.3	853.7	857.8	859.2	859.2	860.5	863.3	865.4
7.5°	851.7	856.5	860.5	862.0	864.7	866.0	868.1	869.4	869.4	872.2	873.6
10°	855.1	857.8	862.0	862.0	864.7	864.7	866.7	867.4	867.4	870.2	872.2
12.5°	855.1	856.5	859.9	859.9	862.0	862.6	865.4	867.4	868.1	871.5	874.2
15°	851.0	852.3	855.1	855.8	860.5	863.3	869.4	873.6	873.6	877.0	878.3
17.5°	839.4	842.8	848.3	853.7	862.6	868.8	876.3	879.7	877.0	874.9	872.8
20°	820.2	826.3	839.4	853.1	868.8	877.0	881.0	877.6	868.1	858.5	852.3
22.5°	801.0	813.4	835.2	855.8	873.6	879.1	877.0	864.7	848.9	837.3	829.1
25°	809.9	824.4	845.5	863.9	875.6	874.2	866.0	848.9	831.8	816.8	803.1
27.5°	846.8	862.6	874.2	880.4	879.1	869.4	856.5	837.3	816.8	796.9	777.8
30°	881.8	889.9	892.7	887.9	877.0	861.2	844.9	822.9	795.5	771.0	749.0
32.5°	897.5	889.3	876.3	863.3	845.5	831.8	809.2	785.3	751.1	721.7	699.8
35°	897.5	864.7	831.8	804.5	777.8	760.7	734.7	702.6	671.1	646.4	629.3
37.5°	877.6	814.7	760.7	716.3	682.7	664.2	625.3	596.5	569.8	561.7	550.7
40°	841.5	748.4	670.4	612.2	569.8	542.5	503.5	483.6	473.4	469.2	467.3
42.5°	792.8	674.5	570.5	498.7	452.8	422.1	396.1	383.7	383.1	382.4	382.4
45°	740.8	595.1	473.4	387.9	347.5	320.1	307.9	303.0	307.2	306.4	307.2
47.5°	708.7	534.9	384.5	293.5	262.7	244.9	238.8	240.8	244.2	242.8	242.8
50°	704.6	504.1	325.0	228.5	205.2	196.4	194.9	194.9	197.0	195.6	194.9
52.5°	719.7	499.4	294.2	196.4	177.8	170.4	169.0	168.3	167.6	163.5	160.1
55°	745.6	510.4	285.3	188.1	169.0	160.7	158.7	157.3	154.6	149.1	143.0
57.5°	797.6	544.6	293.5	192.2	171.7	164.9	162.8	162.8	157.3	148.4	139.6
60°	922.8	631.4	326.9	208.0	184.7	177.8	179.3	178.5	170.4	157.3	143.6
62.5°	1084.2	745.0	370.8	229.8	201.1	199.8	206.6	205.2	191.5	171.7	151.8
65°	1158.9	798.3	383.1	234.6	204.6	210.7	224.4	223.0	205.9	178.5	153.3
66°	1160.2	798.3	377.6	230.6	199.8	207.3	220.9	220.3	203.2	175.9	150.5
67.5°	1132.1	776.4	361.9	222.3	190.2	195.6	208.0	207.3	191.5	169.0	145.0
70°	1026.8	695.0	321.6	208.0	177.2	174.4	178.5	175.9	165.6	149.8	133.4
72.5°	879.7	583.5	280.5	197.0	168.3	157.3	154.6	152.5	144.4	135.4	125.2
75°	693.0	461.8	246.2	188.8	160.1	145.7	140.9	138.1	132.7	126.5	118.3
77.5°	427.6	330.4	214.8	177.8	153.9	139.6	136.2	132.0	123.8	116.3	110.2
80°	190.9	204.6	176.5	155.2	137.5	124.5	119.1	112.8	104.7	99.9	96.5
82.5°	127.3	132.0	127.9	116.3	103.9	93.7	85.5	85.5	84.1	80.0	78.7
85°	81.5	82.1	79.4	71.8	67.0	60.9	57.5	58.1	60.9	60.2	59.5
87.5°	18.4	18.4	21.9	20.5	23.9	25.3	27.4	29.4	33.5	33.5	35.5
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):

	160°	165°	170°	175°	180°
0°	817.5	817.5	817.5	817.5	817.5
2.5°	841.5	842.8	844.1	842.1	842.8
5°	865.4	864.7	868.1	866.0	867.4
7.5°	872.8	873.6	876.3	876.3	877.0
10°	873.6	874.9	878.3	880.4	881.8
12.5°	877.0	879.7	885.2	886.5	886.5
15°	879.7	881.0	884.5	885.9	887.3
17.5°	870.2	867.4	868.8	869.4	868.8
20°	846.2	843.4	842.8	840.0	841.5
22.5°	820.2	812.6	807.9	802.4	802.4
25°	788.7	777.1	767.6	757.9	760.0
27.5°	759.3	744.2	734.7	728.5	727.2
30°	730.6	714.8	706.0	698.4	698.4
32.5°	682.7	671.7	660.1	655.3	654.6
35°	616.4	609.5	599.9	597.9	594.5
37.5°	541.8	539.7	531.5	530.9	527.5
40°	463.8	465.2	462.4	461.0	459.0
42.5°	385.8	392.6	391.3	390.6	389.2
45°	311.3	316.1	316.7	318.8	322.2
47.5°	244.9	246.2	247.7	246.9	247.7
50°	191.5	188.1	187.5	185.4	187.5
52.5°	154.6	149.1	146.4	143.6	142.3
55°	136.2	130.7	127.9	126.5	125.2
57.5°	131.3	125.9	121.8	119.1	118.3
60°	132.7	124.5	119.1	115.6	114.9
62.5°	136.2	125.2	117.6	114.2	113.6
65°	135.4	123.8	117.0	112.8	112.2
66°	133.4	122.5	115.6	112.2	111.5
67.5°	129.9	120.4	114.2	111.5	110.2
70°	123.8	117.6	112.8	109.4	108.1
72.5°	118.3	113.6	109.4	106.0	105.4
75°	112.2	108.1	103.9	101.2	100.5
77.5°	104.7	100.5	97.8	95.8	95.1
80°	92.3	89.6	86.8	84.1	84.1
82.5°	76.6	74.6	71.8	69.7	69.1
85°	58.9	58.9	56.8	54.7	54.1
87.5°	34.9	34.2	34.2	32.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)