

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: P156858

Luminaire Tested: **AVS-E02-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156858
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-T4-8030
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.1 lumens
Efficiency: N/A
Efficacy: 97.9 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

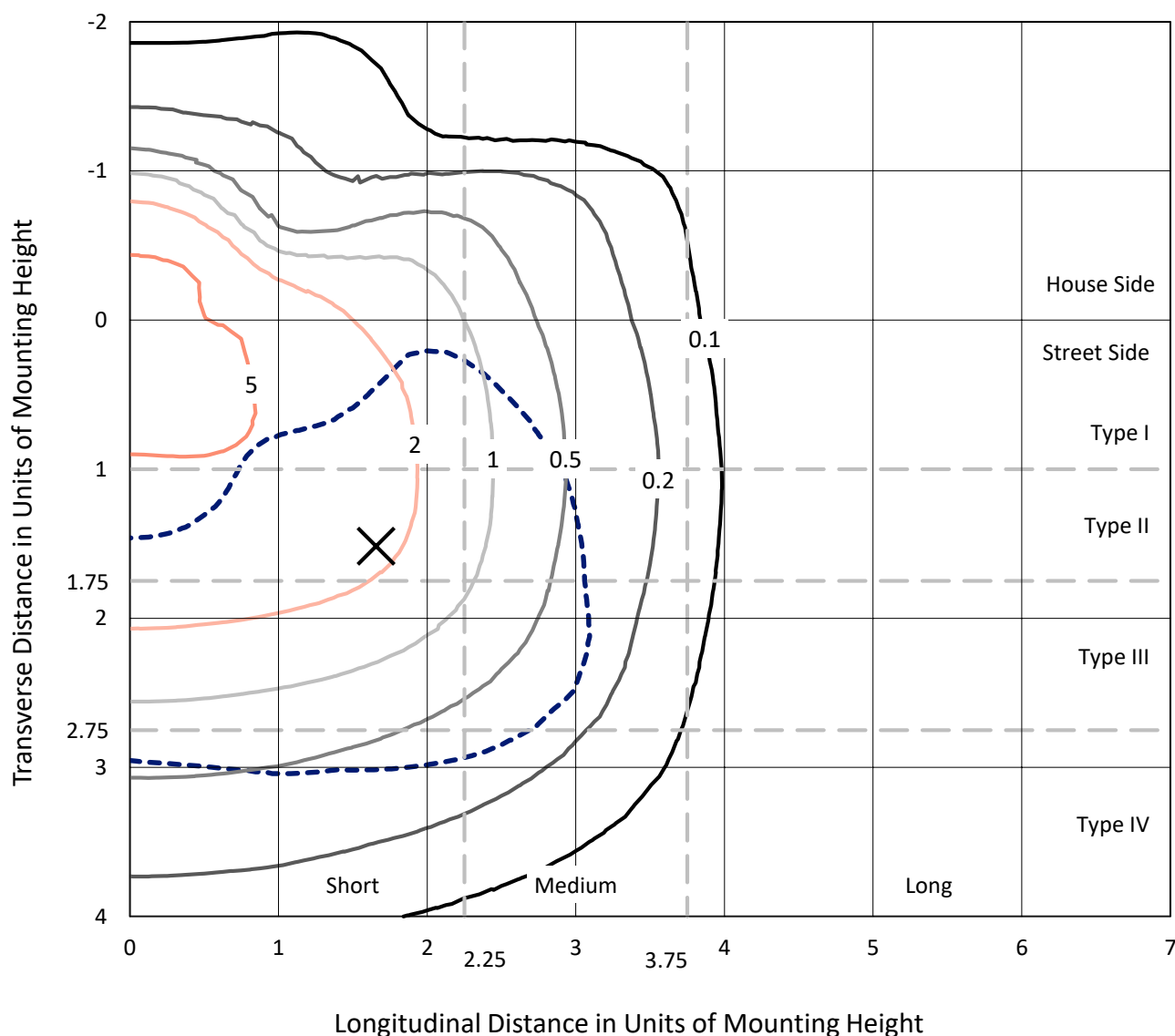


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

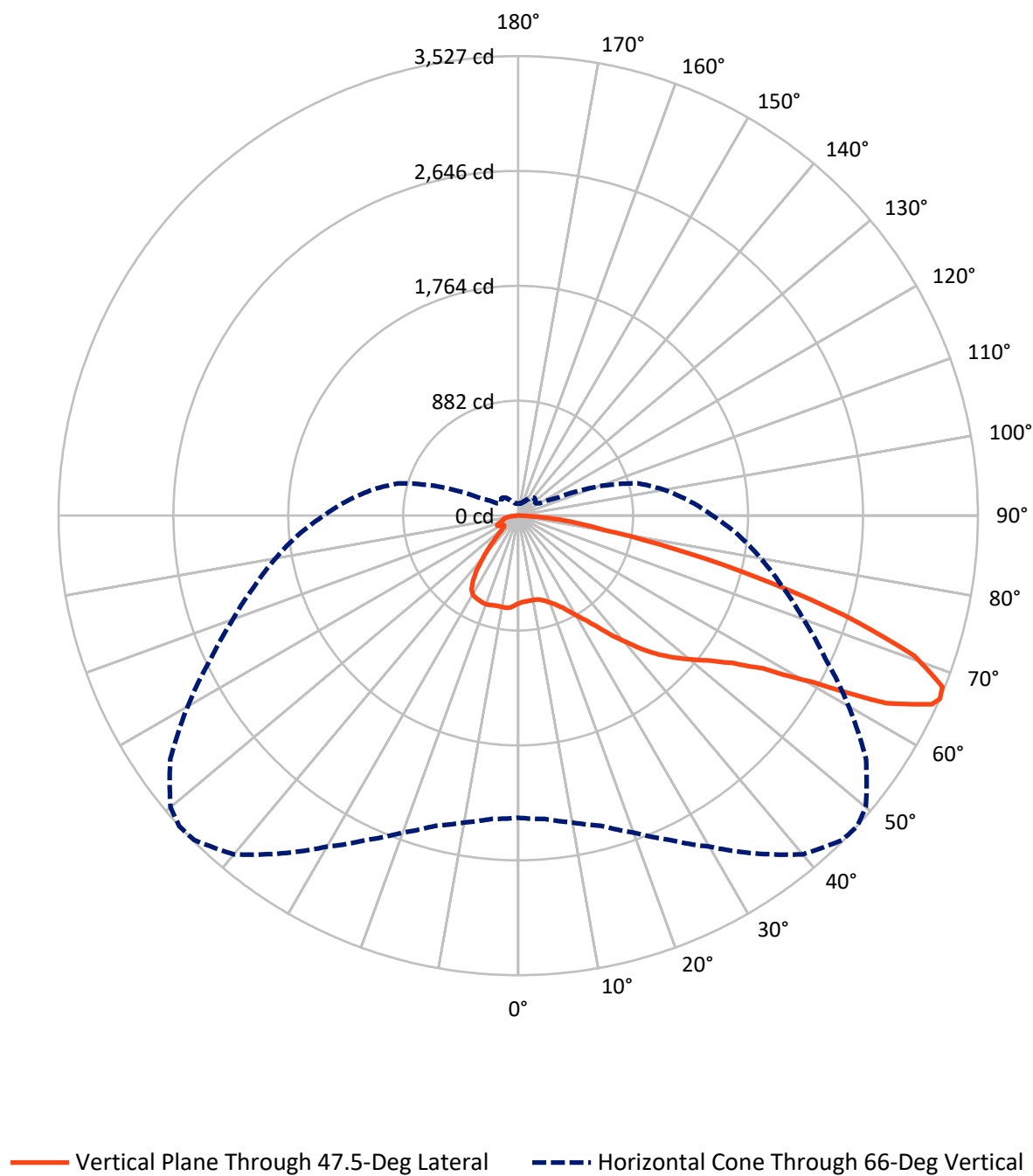


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.5	0.0	1088.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4012.7	0.0	4012.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	5101.1	0.0	5101.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.3
10°-20°	198.2	3.9
20°-30°	341.5	6.7
30°-40°	516.6	10.1
40°-50°	669.6	13.1
50°-60°	923.1	18.1
60°-70°	1434.2	28.1
70°-80°	834.0	16.3
80°-90°	118.6	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°	5101.1	100.0
0°-180°	5101.1	100.0

Coefficient of Utilization



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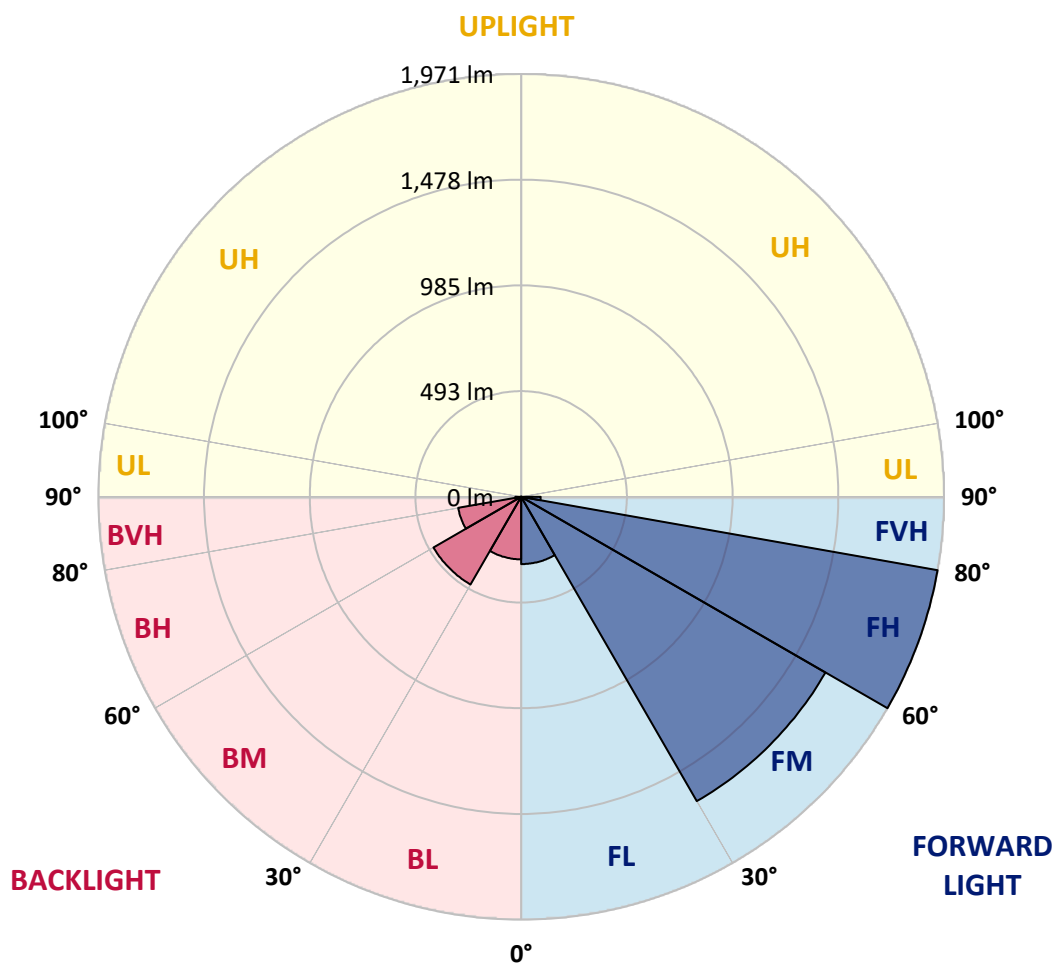
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.6	6.1			
FM	(30°-60°)	1637.5	32.1			
FH	(60°-80°)	1970.6	38.6			G2/5000
FVH	(80°-90°)	91.0	1.8			G1/100
BL	(0°-30°)	291.4	5.7	B1/500		
BM	(30°-60°)	471.8	9.2	B1/1000		
BH	(60°-80°)	297.7	5.8	B1/500		G1/500
BVH	(80°-90°)	27.6	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°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	660.0	662.3	660.5	661.1	661.1	661.7	661.7	662.3	661.7	663.4	664.5
5°	648.2	649.3	648.7	649.8	651.0	653.3	652.6	655.5	656.1	657.7	660.5
7.5°	643.7	642.6	643.1	644.8	645.9	647.0	648.2	650.5	652.1	656.1	658.3
10°	648.2	647.7	648.2	649.3	649.3	649.8	648.7	651.0	652.1	655.5	657.7
12.5°	666.7	666.7	665.6	665.6	664.5	663.4	660.5	658.9	658.3	658.9	660.0
15°	696.6	695.4	693.2	691.5	689.2	685.3	681.3	678.0	675.8	672.3	671.3
17.5°	725.8	724.1	721.9	719.7	716.8	712.8	706.7	702.8	696.6	692.6	690.4
20°	759.6	756.2	753.4	750.6	745.0	743.8	737.6	730.9	723.6	714.6	713.5
22.5°	803.5	797.8	794.5	792.7	787.2	785.5	775.3	765.8	756.8	745.0	742.2
25°	848.0	842.3	840.6	838.3	834.4	832.1	822.6	811.9	800.1	783.8	780.4
27.5°	891.3	891.8	887.4	889.0	887.9	883.9	874.4	863.7	854.7	835.5	831.6
30°	945.3	941.9	939.7	943.0	939.1	939.7	931.2	925.6	911.0	899.7	891.8
32.5°	1001.6	1000.9	1004.4	1006.6	1006.0	1004.9	998.1	992.5	979.6	963.3	959.9
35°	1078.7	1082.0	1084.8	1094.9	1094.9	1102.3	1095.5	1088.7	1073.6	1053.9	1047.2
37.5°	1131.0	1132.1	1143.3	1156.8	1173.7	1189.4	1194.0	1195.6	1189.4	1174.8	1164.7
40°	1178.8	1181.0	1199.1	1219.9	1244.6	1275.5	1294.1	1302.6	1304.2	1297.5	1275.5
42.5°	1226.6	1229.9	1248.5	1279.0	1313.3	1352.6	1385.3	1406.1	1417.9	1417.9	1405.0
45°	1282.3	1286.8	1307.0	1340.2	1380.2	1429.7	1474.7	1514.7	1533.8	1534.9	1522.6
47.5°	1348.2	1352.1	1375.8	1409.4	1450.6	1500.6	1557.4	1603.0	1638.4	1640.7	1630.6
50°	1433.1	1438.8	1458.4	1488.8	1531.0	1581.7	1638.4	1702.1	1739.2	1748.2	1737.5
52.5°	1545.6	1546.7	1563.1	1591.2	1632.2	1680.6	1740.8	1810.1	1859.1	1866.3	1848.9
55°	1700.9	1699.3	1709.9	1740.3	1771.3	1808.9	1871.4	1949.0	2003.6	2014.9	1996.9
57.5°	1911.9	1910.3	1919.3	1926.5	1984.5	2021.0	2082.4	2156.7	2209.5	2242.2	2211.3
60°	2238.9	2237.1	2251.8	2294.5	2337.8	2391.3	2451.0	2539.9	2614.1	2623.7	2593.3
62.5°	2475.8	2484.1	2516.3	2566.3	2654.1	2758.8	2867.9	2984.9	3137.4	3185.8	3171.2
65°	2393.0	2409.8	2454.3	2530.3	2647.4	2791.9	2963.0	3175.1	3379.4	3493.6	3490.2
66°	2318.8	2337.3	2391.9	2465.0	2588.8	2746.9	2933.7	3165.0	3393.4	3519.5	3527.4
67.5°	2183.7	2204.5	2257.9	2344.6	2465.0	2633.3	2834.1	3085.6	3343.9	3490.8	3511.6
70°	1920.9	1944.6	1983.4	2054.8	2173.6	2323.8	2535.3	2760.4	3031.1	3199.3	3224.6
72.5°	1605.8	1626.6	1669.9	1728.5	1825.8	1920.3	2086.3	2252.3	2445.9	2637.7	2619.2
75°	1152.8	1161.9	1187.8	1251.4	1303.7	1388.6	1522.0	1658.1	1790.4	1878.1	1890.6
77.5°	599.3	622.9	659.5	729.7	786.6	863.1	949.7	1052.1	1148.9	1229.4	1207.5
80°	392.1	402.3	434.9	471.0	512.5	561.6	619.5	657.7	670.2	665.1	670.2
82.5°	226.2	244.8	288.1	315.6	346.6	363.5	409.6	453.5	478.2	447.4	436.1
85°	28.7	37.1	117.0	147.5	168.8	194.1	208.2	234.6	218.9	195.9	238.5
87.5°	6.2	5.6	7.9	16.9	17.4	14.6	27.6	29.2	18.0	9.0	11.3
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	665.6	666.2	667.4	669.0	670.2	671.3	672.3	674.1	675.2	676.3	678.5
5°	662.8	665.1	667.4	669.5	672.3	676.9	679.7	682.0	684.1	688.7	690.4
7.5°	661.1	665.1	668.4	672.3	676.9	680.8	685.9	688.7	692.1	694.9	698.2
10°	660.0	665.6	669.0	674.6	679.7	683.6	689.2	692.6	696.6	700.0	701.7
12.5°	662.3	665.1	668.4	674.1	680.2	685.9	692.1	694.9	698.2	701.0	701.7
15°	671.8	671.8	672.3	676.9	683.1	687.6	692.6	695.4	697.1	698.9	698.9
17.5°	689.2	685.3	682.5	683.1	687.0	689.8	692.6	692.6	691.5	691.0	689.8
20°	709.5	704.5	698.9	694.9	693.8	691.5	689.8	684.1	679.7	675.8	673.0
22.5°	738.8	730.9	723.0	715.8	708.9	700.5	691.0	679.7	669.0	661.7	657.2
25°	774.8	768.6	759.1	747.8	739.4	723.6	711.2	694.9	681.3	671.8	663.9
27.5°	826.0	818.7	809.6	799.6	787.2	769.7	754.5	735.4	719.1	705.0	694.9
30°	889.5	880.0	873.3	860.8	852.4	832.7	817.5	793.9	762.4	739.9	725.8
32.5°	954.8	944.1	938.5	928.9	919.4	907.6	884.5	848.0	807.5	770.9	746.6
35°	1042.1	1030.8	1020.6	1012.2	998.1	976.2	956.0	912.1	856.4	805.2	764.7
37.5°	1151.8	1133.2	1107.9	1086.5	1061.8	1030.3	999.3	954.3	890.7	824.2	770.3
40°	1268.8	1236.2	1200.1	1160.2	1117.4	1071.9	1036.4	990.9	919.4	840.6	766.3
42.5°	1390.9	1339.2	1289.0	1232.7	1173.2	1119.2	1073.0	1022.9	940.7	845.1	750.6
45°	1511.9	1453.9	1377.9	1304.2	1228.8	1161.9	1110.2	1053.9	960.4	846.8	729.7
47.5°	1612.0	1552.3	1465.7	1373.5	1284.0	1208.1	1147.3	1086.5	986.9	858.7	724.7
50°	1717.8	1645.2	1549.0	1439.9	1338.5	1253.6	1188.9	1125.9	1024.0	889.0	741.0
52.5°	1833.2	1749.8	1637.3	1515.2	1404.4	1309.3	1239.0	1174.3	1071.3	931.8	772.0
55°	1973.8	1872.0	1749.8	1612.0	1493.3	1388.1	1310.5	1233.9	1127.6	982.4	810.8
57.5°	2188.7	2063.8	1926.5	1769.5	1637.9	1513.6	1420.7	1332.3	1214.8	1057.8	863.7
60°	2577.5	2444.2	2265.8	2075.6	1920.9	1775.8	1639.6	1529.8	1385.3	1206.3	980.7
62.5°	3134.6	2957.3	2719.4	2453.2	2250.7	2041.3	1887.8	1724.6	1545.1	1352.1	1118.5
65°	3444.0	3229.1	2910.7	2601.8	2341.2	2113.9	1918.7	1729.6	1530.5	1345.9	1150.7
66°	3482.3	3258.3	2927.6	2602.3	2328.8	2095.3	1889.9	1694.2	1490.5	1314.4	1137.1
67.5°	3466.5	3237.5	2896.6	2553.4	2275.4	2024.5	1812.3	1609.2	1406.1	1241.8	1092.1
70°	3208.3	2991.1	2656.3	2323.8	2059.9	1812.3	1609.7	1410.1	1223.8	1083.1	972.8
72.5°	2664.2	2478.5	2187.7	1926.5	1719.5	1515.2	1343.6	1152.8	995.3	891.3	826.0
75°	1923.2	1810.7	1545.6	1396.0	1214.2	1078.7	912.1	799.0	685.9	635.2	624.0
77.5°	1214.8	1063.4	895.2	737.1	606.0	502.5	391.1	332.0	276.8	271.2	327.5
80°	615.0	553.7	426.5	339.9	285.8	231.3	182.9	138.4	96.8	116.5	139.6
82.5°	402.9	336.0	263.3	216.6	188.5	156.4	121.6	84.4	61.9	69.7	95.6
85°	217.7	185.7	149.6	118.1	95.6	85.5	57.4	40.5	40.0	42.8	54.6
87.5°	15.8	15.8	12.3	11.3	13.5	11.3	10.2	10.2	9.5	10.2	13.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	679.7	681.3	682.0	684.8	686.4	687.6	688.7	688.7	689.2	691.0	691.5
5°	692.6	695.4	698.9	701.0	702.2	705.6	706.7	706.7	707.9	710.1	711.8
7.5°	700.5	704.5	707.9	708.9	711.2	712.3	714.0	715.1	715.1	717.4	718.5
10°	703.3	705.6	708.9	708.9	711.2	711.2	712.8	713.5	713.5	715.8	717.4
12.5°	703.3	704.5	707.3	707.3	708.9	709.5	711.8	713.5	714.0	716.8	719.1
15°	700.0	701.0	703.3	703.9	707.9	710.1	715.1	718.5	718.5	721.3	722.5
17.5°	690.4	693.2	697.7	702.2	709.5	714.6	720.7	723.6	721.3	719.7	717.9
20°	674.6	679.7	690.4	701.7	714.6	721.3	724.7	721.9	714.0	706.1	701.0
22.5°	658.9	669.0	687.0	703.9	718.5	723.0	721.3	711.2	698.2	688.7	682.0
25°	666.2	678.0	695.4	710.7	720.2	719.1	712.3	698.2	684.1	671.8	660.5
27.5°	696.6	709.5	719.1	724.1	723.0	715.1	704.5	688.7	671.8	655.5	639.8
30°	725.3	732.0	734.3	730.4	721.3	708.4	694.9	676.9	654.4	634.1	616.1
32.5°	738.2	731.5	720.7	710.1	695.4	684.1	665.6	645.9	617.8	593.6	575.6
35°	738.2	711.2	684.1	661.7	639.8	625.7	604.2	577.8	552.0	531.7	517.6
37.5°	721.9	670.2	625.7	589.1	561.6	546.3	514.3	490.7	468.7	462.0	453.0
40°	692.1	615.5	551.4	503.6	468.7	446.2	414.1	397.8	389.3	386.0	384.2
42.5°	652.1	554.8	469.2	410.2	372.4	347.2	325.8	315.6	315.1	314.5	314.5
45°	609.3	489.5	389.3	319.1	285.8	263.3	253.2	249.2	252.6	252.0	252.6
47.5°	582.9	440.0	316.2	241.3	216.1	201.5	196.4	198.0	200.8	199.8	199.8
50°	579.6	414.7	267.3	188.0	168.8	161.5	160.3	160.3	162.1	160.9	160.3
52.5°	591.9	410.8	242.0	161.5	146.3	140.1	139.0	138.4	137.8	134.5	131.7
55°	613.3	419.8	234.6	154.7	139.0	132.2	130.6	129.4	127.2	122.7	117.6
57.5°	656.1	447.9	241.3	158.1	141.2	135.6	133.9	133.9	129.4	122.1	114.8
60°	759.1	519.4	268.9	171.1	151.9	146.3	147.5	146.8	140.1	129.4	118.1
62.5°	891.8	612.7	305.0	189.0	165.4	164.2	169.9	168.8	157.5	141.2	124.9
65°	953.2	656.6	315.1	193.0	168.2	173.3	184.6	183.4	169.3	146.8	126.0
66°	954.3	656.6	310.6	189.6	164.2	170.5	181.8	181.1	167.2	144.6	123.8
67.5°	931.2	638.7	297.6	182.9	156.4	160.9	171.1	170.5	157.5	139.0	119.3
70°	844.6	571.7	264.5	171.1	145.7	143.5	146.8	144.6	136.2	123.2	109.7
72.5°	723.6	480.0	230.7	162.1	138.4	129.4	127.2	125.5	118.8	111.4	103.0
75°	569.9	379.8	202.6	155.3	131.7	119.9	116.0	113.7	109.1	104.0	97.3
77.5°	351.7	271.8	176.7	146.3	126.6	114.8	112.0	108.6	101.9	95.6	90.6
80°	157.0	168.2	145.2	127.8	113.1	102.4	97.9	92.8	86.1	82.2	79.4
82.5°	104.7	108.6	105.2	95.6	85.5	77.1	70.4	70.4	69.2	65.8	64.7
85°	66.9	67.6	65.3	59.1	55.1	50.1	47.3	47.9	50.1	49.5	48.9
87.5°	15.2	15.2	18.0	16.9	19.7	20.8	22.5	24.1	27.6	27.6	29.2
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°	672.3	672.3	672.3	672.3	672.3
2.5°	692.1	693.2	694.3	692.6	693.2
5°	711.8	711.2	714.0	712.3	713.5
7.5°	717.9	718.5	720.7	720.7	721.3
10°	718.5	719.7	722.5	724.1	725.3
12.5°	721.3	723.6	728.1	729.2	729.2
15°	723.6	724.7	727.6	728.6	729.7
17.5°	715.8	713.5	714.6	715.1	714.6
20°	696.1	693.8	693.2	691.0	692.1
22.5°	674.6	668.4	664.5	660.0	660.0
25°	648.7	639.2	631.3	623.4	625.1
27.5°	624.6	612.1	604.2	599.3	598.1
30°	600.9	588.0	580.6	574.5	574.5
32.5°	561.6	552.5	543.0	539.1	538.4
35°	506.9	501.3	493.5	491.8	488.9
37.5°	445.6	443.9	437.2	436.6	433.8
40°	381.5	382.6	380.3	379.3	377.5
42.5°	317.3	323.0	321.9	321.2	320.1
45°	256.1	260.0	260.5	262.2	265.0
47.5°	201.5	202.6	203.7	203.1	203.7
50°	157.5	154.7	154.2	152.4	154.2
52.5°	127.2	122.7	120.4	118.1	117.0
55°	112.0	107.5	105.2	104.0	103.0
57.5°	108.0	103.5	100.1	97.9	97.3
60°	109.1	102.4	97.9	95.1	94.5
62.5°	112.0	103.0	96.8	94.0	93.4
65°	111.4	101.9	96.2	92.8	92.2
66°	109.7	100.7	95.1	92.2	91.7
67.5°	106.9	99.1	94.0	91.7	90.6
70°	101.9	96.8	92.8	90.1	88.9
72.5°	97.3	93.4	90.1	87.3	86.6
75°	92.2	88.9	85.5	83.3	82.7
77.5°	86.1	82.7	80.4	78.8	78.2
80°	76.0	73.7	71.5	69.2	69.2
82.5°	63.0	61.3	59.1	57.4	56.8
85°	48.4	48.4	46.7	45.0	44.5
87.5°	28.7	28.1	28.1	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

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