

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: P158426

Luminaire Tested: **VST-F02-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158426
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F02-LED-E-U-SL3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5111 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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



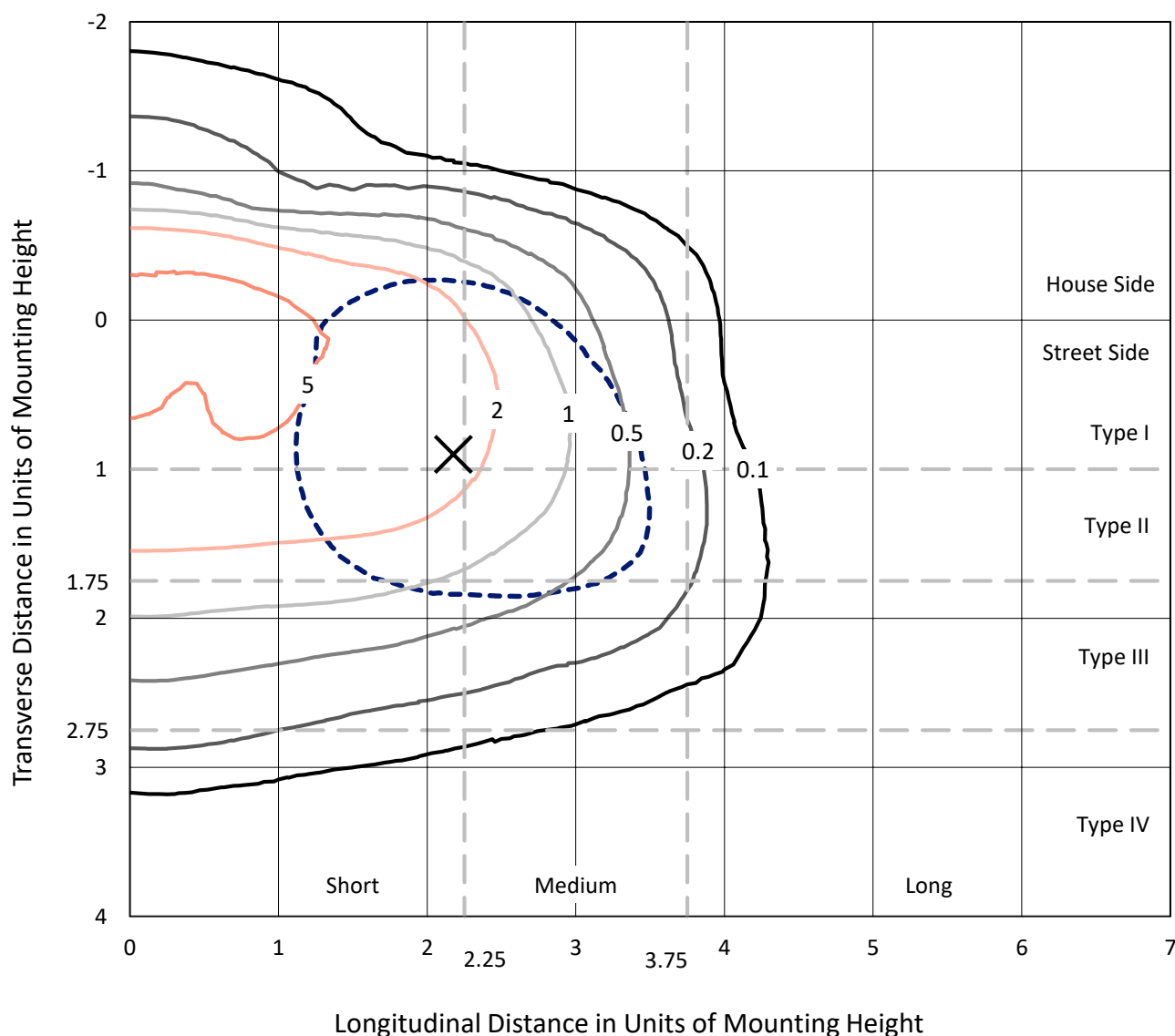
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

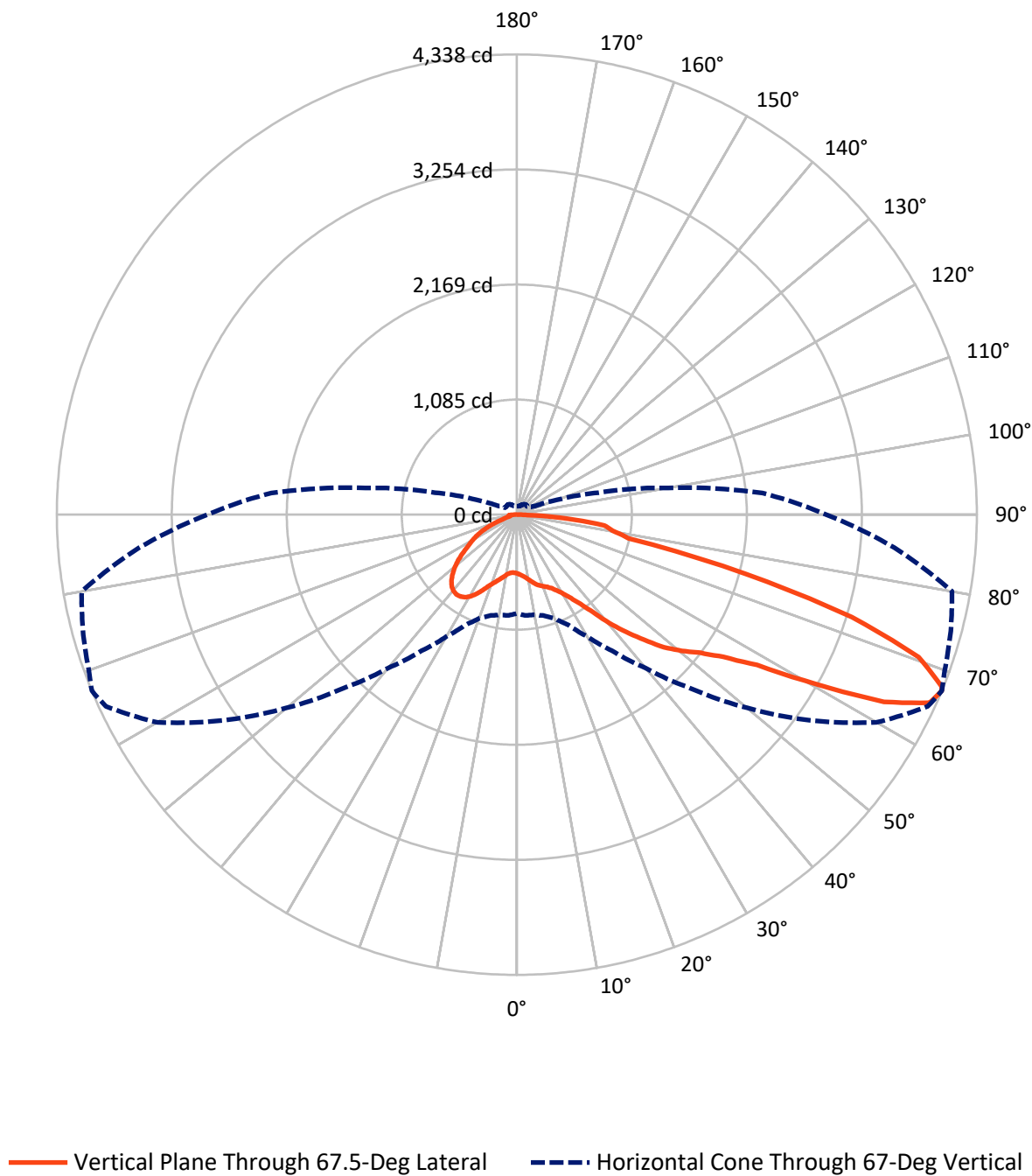


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.1	0.0	1226.1
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	3884.9	0.0	3884.9
	% Fixture	76.0	0.0	76.0
Total	Lumens	5111.0	0.0	5111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.1
10°-20°	187.6	3.7
20°-30°	334.9	6.6
30°-40°	490.8	9.6
40°-50°	758.4	14.8
50°-60°	1104.4	21.6
60°-70°	1438.6	28.1
70°-80°	644.0	12.6
80°-90°	97.4	1.9
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°	5111.0	100.0
0°-180°	5111.0	100.0

Coefficient of Utilization



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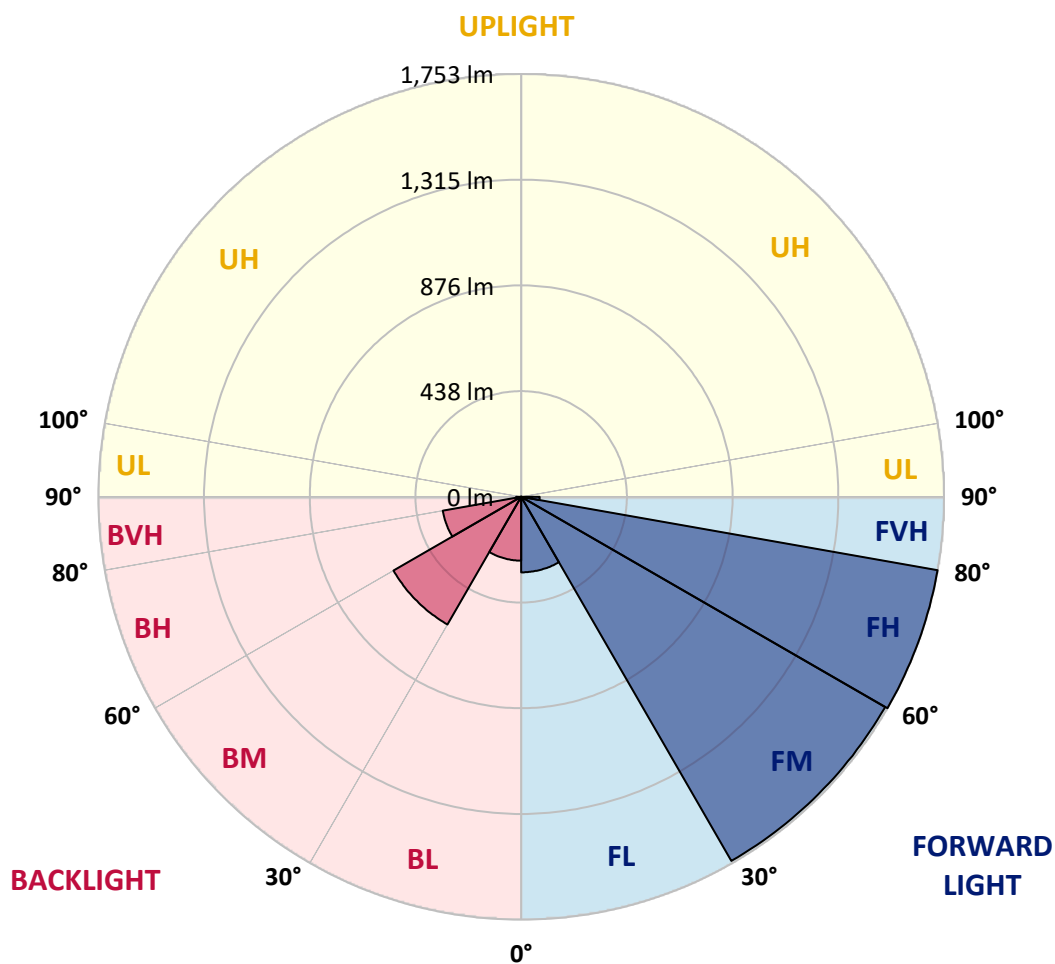
CATALOG NUMBER: VST-F02-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.2	6.1			
FM	(30°-60°)	1742.6	34.1			
FH	(60°-80°)	1752.7	34.3			G1/1800
FVH	(80°-90°)	76.5	1.5			G1/100
BL	(0°-30°)	264.4	5.2	B1/500		
BM	(30°-60°)	611.0	12.0	B1/1000		
BH	(60°-80°)	329.9	6.5	B1/500		G1/500
BVH	(80°-90°)	20.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	575.7	577.0	577.4	577.0	577.4	576.0	575.7	573.7	574.7	571.9	571.3
5°	606.8	607.9	608.5	605.8	606.5	605.2	603.5	601.4	598.7	595.0	592.6
7.5°	637.3	639.1	638.7	637.7	635.3	634.0	630.5	627.5	622.7	618.4	615.3
10°	678.4	678.0	678.0	672.2	668.9	665.8	659.7	655.0	650.2	643.8	640.4
12.5°	725.8	723.4	722.4	718.3	711.2	705.8	697.0	687.8	679.4	672.6	667.1
15°	771.5	771.5	768.8	762.4	755.6	748.5	736.0	722.7	708.8	698.0	692.6
17.5°	813.2	809.5	807.1	798.6	791.5	780.0	766.1	751.9	734.6	719.3	708.8
20°	843.7	840.7	835.6	825.1	812.9	799.3	783.1	766.4	747.8	731.2	719.3
22.5°	861.3	857.6	849.8	835.9	819.3	800.3	781.3	765.8	748.8	736.3	726.5
25°	870.5	866.7	856.2	837.9	815.6	790.5	768.8	753.5	743.8	740.7	739.3
27.5°	870.1	867.1	855.9	834.9	806.1	777.3	753.9	741.0	740.0	751.9	760.7
30°	861.3	859.3	849.1	828.1	797.9	767.8	746.1	739.3	749.8	774.9	796.6
32.5°	852.5	851.5	844.4	825.4	799.6	774.2	759.3	760.0	781.7	820.3	855.2
35°	853.5	854.9	853.9	843.7	827.4	814.2	807.1	822.0	855.9	902.6	949.4
37.5°	862.3	867.4	873.8	874.9	875.2	873.2	888.1	919.6	969.1	1030.0	1103.2
40°	881.6	887.4	906.1	922.3	943.3	968.4	998.5	1042.3	1103.6	1178.8	1268.6
42.5°	941.6	949.7	972.8	1003.0	1041.5	1080.8	1126.0	1185.5	1260.8	1340.1	1434.2
45°	1019.9	1036.8	1062.2	1095.8	1153.7	1208.9	1267.2	1334.0	1414.0	1513.2	1608.1
47.5°	1117.4	1134.4	1171.3	1207.3	1275.7	1344.5	1408.2	1478.0	1564.7	1666.4	1771.4
50°	1202.8	1222.1	1255.0	1303.5	1382.8	1467.1	1537.6	1613.2	1686.0	1793.1	1899.1
52.5°	1270.0	1283.8	1315.3	1359.7	1448.2	1540.7	1629.8	1713.8	1800.2	1907.3	2005.6
55°	1278.4	1291.3	1322.1	1372.9	1462.7	1565.4	1668.1	1767.7	1890.0	2006.9	2137.0
57.5°	1241.8	1252.3	1283.5	1328.9	1416.3	1533.2	1663.0	1790.7	1947.2	2105.2	2264.0
60°	1190.0	1200.5	1224.9	1261.1	1340.1	1466.1	1617.6	1792.4	2000.5	2228.5	2462.3
62.5°	1133.0	1142.2	1161.8	1187.6	1257.1	1373.3	1546.7	1781.2	2043.8	2351.2	2711.6
65°	1037.2	1059.2	1067.6	1094.1	1163.5	1273.3	1449.8	1705.7	2026.2	2405.7	2868.2
67°	931.1	953.5	957.9	984.7	1040.2	1145.6	1325.2	1565.8	1886.6	2311.5	2833.6
67.5°	897.2	916.2	923.0	949.7	1002.2	1101.5	1271.9	1515.2	1843.9	2260.0	2792.0
70°	659.7	680.7	688.1	699.4	737.0	819.7	932.5	1143.5	1470.2	1844.3	2355.2
72.5°	353.0	370.0	377.1	393.7	413.0	458.1	544.5	695.9	902.3	1234.0	1675.5
75°	238.9	245.6	250.7	262.3	282.2	318.2	356.1	409.3	534.0	696.3	953.5
77.5°	136.2	139.3	139.9	142.0	157.9	192.1	254.5	344.6	441.8	504.5	609.9
80°	59.0	65.0	69.8	66.7	65.8	72.8	91.1	135.9	266.3	422.9	501.8
82.5°	31.9	34.6	38.6	38.9	41.0	43.4	47.1	55.9	78.6	158.6	346.0
85°	16.6	17.3	23.0	26.4	28.1	29.5	30.2	33.5	38.6	49.1	86.0
87.5°	2.4	3.4	4.1	5.4	6.1	6.4	7.4	9.5	11.2	13.6	23.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	568.2	567.5	565.5	564.2	562.8	561.4	559.7	558.4	556.0	554.3	552.3
5°	589.2	585.2	582.4	578.7	578.0	573.7	569.2	567.2	563.2	559.7	555.7
7.5°	610.6	605.8	601.4	598.4	596.7	590.6	586.2	581.1	576.4	571.9	567.2
10°	635.6	630.9	626.2	624.1	621.1	615.3	611.6	605.2	600.4	595.0	588.5
12.5°	661.7	658.3	655.0	652.3	650.9	648.2	642.8	637.3	630.9	625.5	618.0
15°	684.8	682.4	681.1	680.4	680.4	678.7	673.6	668.5	661.7	655.6	647.5
17.5°	701.0	700.0	701.0	702.1	703.4	702.1	701.0	695.3	690.9	683.4	675.3
20°	710.5	712.6	717.7	721.0	724.1	726.5	727.4	722.7	716.9	711.5	706.1
22.5°	720.7	726.5	735.2	740.3	745.4	753.9	755.9	752.5	748.1	744.7	739.0
25°	737.6	746.1	761.3	769.5	776.6	789.1	790.8	791.5	790.5	787.8	780.7
27.5°	764.0	780.7	801.0	811.5	819.3	835.6	842.0	842.0	839.3	842.3	842.3
30°	810.1	832.1	858.6	864.7	876.9	891.1	901.6	903.0	903.3	909.8	919.3
32.5°	881.0	902.0	931.4	938.2	948.7	962.3	974.2	972.8	975.8	989.7	1002.2
35°	983.9	1005.3	1024.6	1033.8	1038.5	1050.7	1055.1	1062.6	1071.7	1089.0	1087.3
37.5°	1136.5	1155.4	1158.1	1163.9	1158.1	1160.5	1163.9	1172.7	1197.1	1212.7	1187.6
40°	1320.1	1351.6	1348.6	1341.8	1328.9	1311.6	1317.7	1331.3	1357.7	1344.1	1276.7
42.5°	1493.2	1525.7	1519.7	1511.9	1483.4	1477.0	1476.3	1487.5	1501.7	1463.0	1346.5
45°	1663.7	1696.9	1686.4	1682.0	1663.0	1649.1	1660.6	1661.3	1657.6	1574.9	1407.5
47.5°	1839.5	1870.0	1863.2	1867.0	1847.3	1838.2	1839.2	1834.4	1799.5	1669.7	1454.9
50°	1981.5	2022.5	2026.6	2018.1	2007.5	1993.7	2029.3	2016.4	1938.8	1761.9	1500.7
52.5°	2092.0	2147.2	2168.2	2162.8	2154.3	2156.0	2222.7	2237.3	2108.9	1878.1	1551.2
55°	2222.7	2309.8	2344.0	2364.4	2355.5	2389.4	2542.3	2549.7	2345.4	2029.9	1616.9
57.5°	2411.5	2536.1	2644.3	2673.1	2700.8	2810.9	3059.0	2983.4	2652.4	2259.7	1700.3
60°	2698.4	2971.6	3147.1	3239.2	3304.3	3458.1	3693.9	3502.5	3034.9	2533.1	1804.9
62.5°	3100.3	3499.4	3792.8	3885.4	3912.1	4000.6	4171.3	3805.1	3243.3	2655.8	1814.1
65°	3399.5	3878.3	4229.6	4277.0	4245.2	4246.9	4291.6	3789.1	3165.7	2548.7	1656.9
67°	3379.9	3915.8	4275.7	4338.1	4294.0	4236.1	4166.3	3573.3	2916.3	2324.4	1450.9
67.5°	3349.7	3879.6	4255.7	4321.4	4281.1	4215.1	4113.1	3489.6	2838.7	2254.6	1408.9
70°	2895.7	3421.9	3928.4	4020.9	4037.8	3977.5	3691.2	2942.4	2304.7	1834.1	1094.1
72.5°	2253.9	2722.5	3223.6	3304.0	3369.0	3195.2	2686.6	2032.3	1679.9	1321.8	792.2
75°	1488.1	1964.9	2217.7	2229.5	2146.5	1824.6	1312.6	1017.8	936.8	776.9	490.3
77.5°	796.3	1155.4	1162.5	1076.5	1037.2	773.2	313.7	173.2	192.8	218.9	195.2
80°	593.9	736.0	852.8	916.9	935.8	663.1	162.3	91.8	80.3	73.2	72.2
82.5°	535.7	710.9	796.9	831.8	823.0	545.5	91.1	61.7	51.2	55.6	63.4
85°	210.1	379.5	499.1	483.2	405.9	203.3	49.8	33.2	33.2	48.1	62.3
87.5°	43.0	77.9	105.7	101.0	90.8	39.3	24.4	20.0	20.3	38.9	59.0
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°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0	554.0
2.5°	550.3	548.2	546.9	545.5	544.1	543.5	542.5	542.5	540.4	539.8	539.1
5°	552.7	549.2	546.9	543.8	541.4	539.4	536.7	536.0	533.6	532.0	531.3
7.5°	562.8	557.7	552.7	548.9	545.5	541.1	538.1	535.4	533.0	531.3	529.3
10°	582.1	576.7	569.6	562.8	558.4	551.6	546.9	542.1	539.4	537.4	534.7
12.5°	610.6	602.8	594.3	586.2	578.7	569.9	565.1	559.4	556.0	554.3	552.3
15°	639.7	631.3	620.8	613.0	604.5	597.7	593.3	588.2	585.5	583.4	582.1
17.5°	669.5	659.7	652.3	644.5	640.4	635.3	629.5	623.1	615.3	610.6	604.1
20°	700.0	692.6	688.1	683.8	679.0	671.9	660.4	647.2	632.6	618.7	605.5
22.5°	735.6	731.2	730.5	726.5	716.6	699.7	678.4	653.6	628.9	605.8	587.9
25°	785.8	785.8	782.3	765.8	742.7	712.2	676.3	640.7	607.9	576.4	552.7
27.5°	848.8	846.4	829.8	795.6	754.3	706.8	658.7	613.6	571.6	537.1	506.6
30°	918.2	901.6	866.0	812.2	750.2	689.2	630.2	578.0	528.6	486.2	450.3
32.5°	990.4	950.1	886.0	812.2	736.0	662.8	594.7	530.6	474.0	426.6	383.9
35°	1055.8	982.3	890.8	799.0	708.2	623.8	544.9	472.3	404.6	353.4	306.7
37.5°	1115.1	1003.6	885.7	773.2	667.9	568.9	476.4	396.4	319.9	270.4	230.4
40°	1153.7	1008.0	864.7	732.9	610.3	494.7	392.3	302.9	242.3	197.2	170.5
42.5°	1177.8	999.5	830.8	677.6	532.6	401.5	294.4	217.2	172.1	147.1	136.9
45°	1191.3	977.5	780.7	602.1	438.8	305.3	209.0	156.9	132.5	123.7	120.3
47.5°	1190.6	941.9	718.0	514.7	335.1	212.8	148.1	122.3	115.6	112.9	112.1
50°	1183.6	898.3	644.5	419.8	241.9	148.4	117.2	109.8	108.1	106.4	105.7
52.5°	1173.7	844.0	563.2	327.3	171.8	118.6	106.4	104.3	103.0	101.3	100.6
55°	1155.4	777.3	475.0	246.3	134.5	107.1	102.7	102.0	100.3	97.9	96.5
57.5°	1133.0	709.5	390.7	192.5	118.9	104.3	102.0	101.0	98.6	95.9	93.2
60°	1124.9	653.6	324.6	162.3	115.2	105.4	103.7	102.3	98.9	94.9	91.8
62.5°	1074.1	590.6	277.1	150.4	117.2	109.8	109.1	107.1	102.0	97.3	92.5
65°	942.6	499.4	234.8	142.3	121.3	117.2	117.9	114.8	109.8	103.3	94.9
67°	797.3	407.3	195.5	134.5	124.4	125.0	127.4	125.0	118.6	109.4	97.9
67.5°	758.6	383.9	185.7	132.1	125.0	127.1	129.8	128.1	121.6	111.1	99.3
70°	563.8	270.4	138.6	119.6	125.0	133.1	139.3	140.9	133.9	119.3	102.0
72.5°	397.1	174.5	106.4	103.7	113.5	124.4	135.9	141.7	133.5	117.6	98.3
75°	238.6	109.1	86.4	88.1	95.6	106.7	115.9	118.3	108.1	97.9	85.0
77.5°	110.5	72.5	67.7	70.1	77.3	82.3	82.3	77.6	69.8	63.7	61.0
80°	65.0	59.3	59.0	63.4	68.1	64.4	58.6	52.2	48.1	46.1	45.1
82.5°	61.0	63.4	67.4	68.5	64.7	55.6	48.5	42.0	40.0	38.9	37.9
85°	71.8	76.9	70.1	64.7	57.2	46.7	37.9	32.5	31.5	30.5	29.2
87.5°	66.4	63.4	55.2	47.5	39.3	28.4	20.6	18.7	20.0	19.7	19.0
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°	554.0	554.0	554.0	554.0	554.0
2.5°	539.4	539.4	538.1	537.4	539.1
5°	529.9	530.3	529.3	528.9	529.3
7.5°	527.9	527.6	526.9	526.2	526.9
10°	534.0	533.6	532.6	533.3	532.3
12.5°	552.3	554.3	554.0	554.6	556.0
15°	582.1	581.8	580.7	581.5	582.4
17.5°	599.0	596.3	593.9	593.0	593.0
20°	595.0	587.2	583.1	580.7	580.1
22.5°	570.9	559.7	551.3	549.2	547.6
25°	531.6	517.7	506.9	504.5	500.1
27.5°	485.9	467.2	454.4	451.7	449.3
30°	425.9	404.6	389.6	380.2	383.2
32.5°	352.7	332.4	315.1	299.9	297.5
35°	272.4	250.1	234.8	228.1	223.6
37.5°	203.3	184.7	174.5	168.1	168.4
40°	155.5	145.7	140.3	135.9	136.2
42.5°	129.8	125.3	124.0	122.0	121.0
45°	117.6	116.2	116.6	114.5	113.8
47.5°	110.8	109.8	110.1	108.8	108.4
50°	105.4	104.7	105.1	104.0	103.7
52.5°	100.0	100.3	100.0	99.3	99.3
55°	95.2	94.9	95.6	94.6	94.6
57.5°	91.5	91.1	91.1	90.8	90.8
60°	89.5	88.1	87.8	87.8	88.1
62.5°	88.4	86.0	85.7	85.7	86.0
65°	88.8	85.0	83.7	83.3	83.0
67°	89.1	83.7	81.0	79.6	79.3
67.5°	89.5	83.0	80.0	78.6	77.9
70°	87.4	78.2	73.9	71.5	70.8
72.5°	82.3	72.5	67.1	64.0	63.4
75°	73.2	65.8	61.0	57.6	56.2
77.5°	56.6	53.2	51.5	49.4	48.8
80°	44.0	42.4	41.7	40.3	40.0
82.5°	36.6	34.9	33.9	32.2	31.2
85°	28.4	26.4	25.7	24.4	23.7
87.5°	18.7	17.6	17.3	15.6	14.9
90°	0.0	0.0	0.0	0.0	0.0

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