

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: P158424

Luminaire Tested: **VST-F02-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158424
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-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549.4 lumens
Efficiency: N/A
Efficacy: 82.7 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



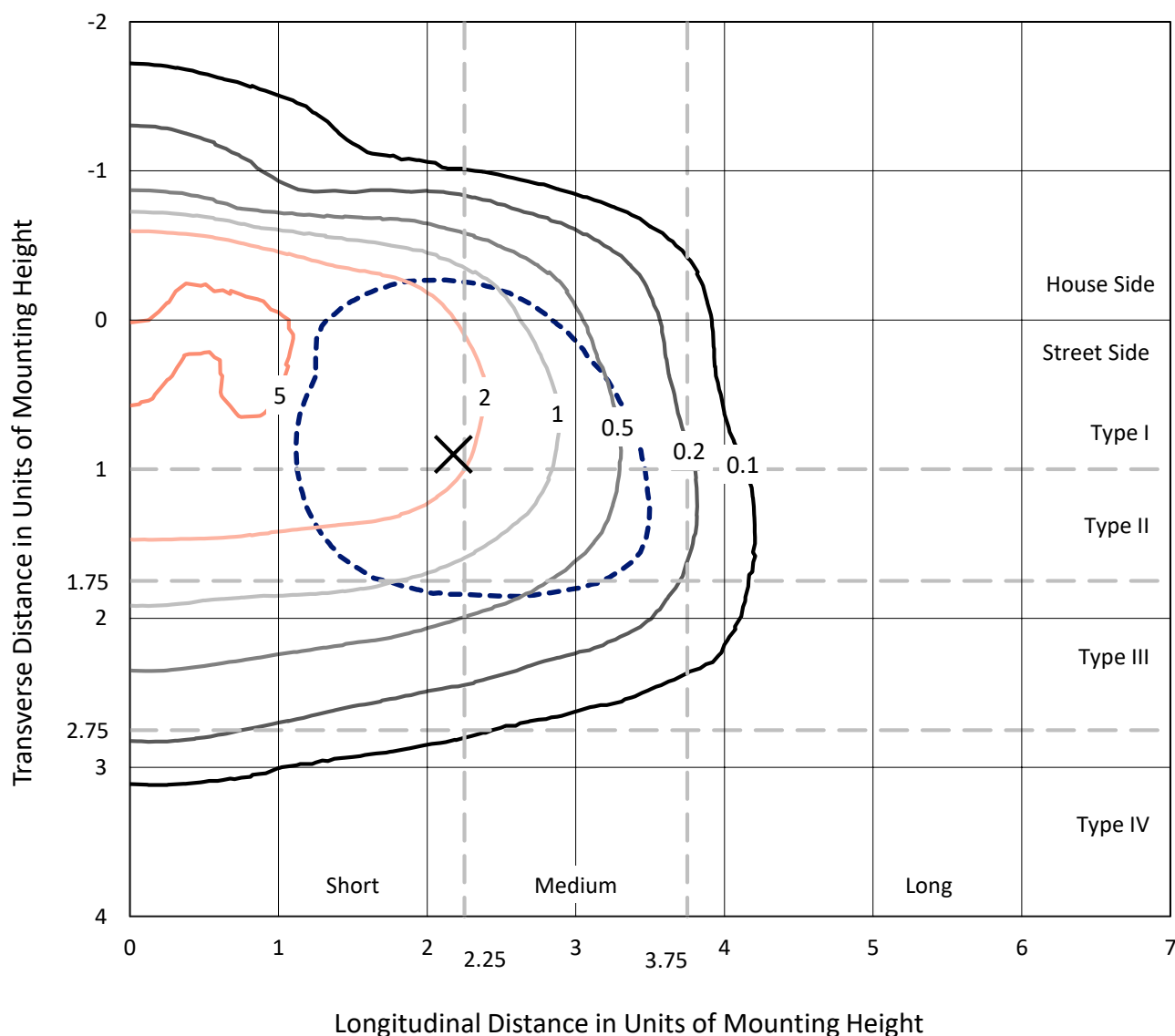
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

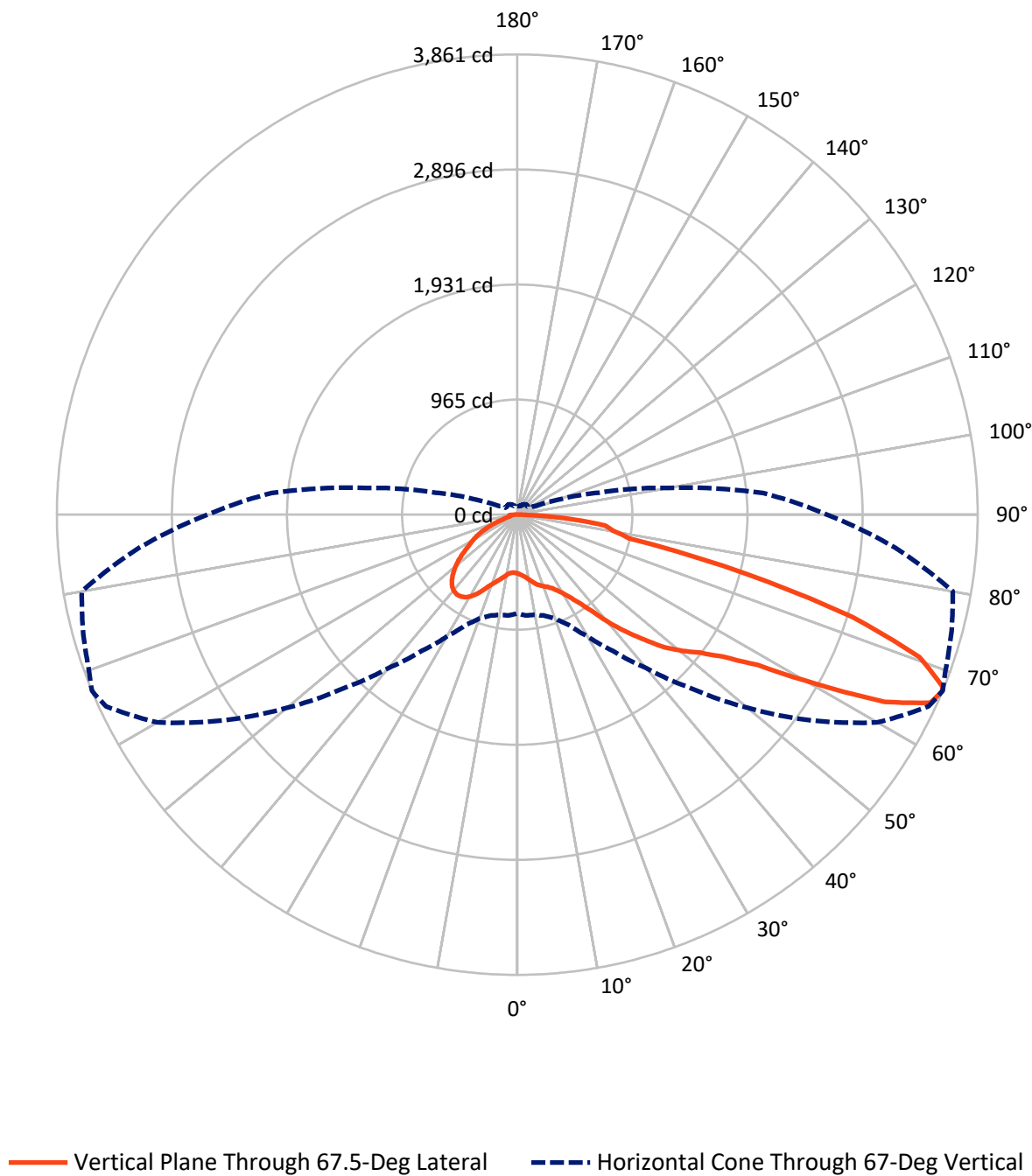


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.4	0.0	1091.4
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	3458.0	0.0	3458.0
	% Fixture	76.0	0.0	76.0
Total	Lumens	4549.4	0.0	4549.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.1
10°-20°	167.0	3.7
20°-30°	298.1	6.6
30°-40°	436.9	9.6
40°-50°	675.1	14.8
50°-60°	983.0	21.6
60°-70°	1280.5	28.1
70°-80°	573.2	12.6
80°-90°	86.7	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°	4549.4	100.0
0°-180°	4549.4	100.0

Coefficient of Utilization



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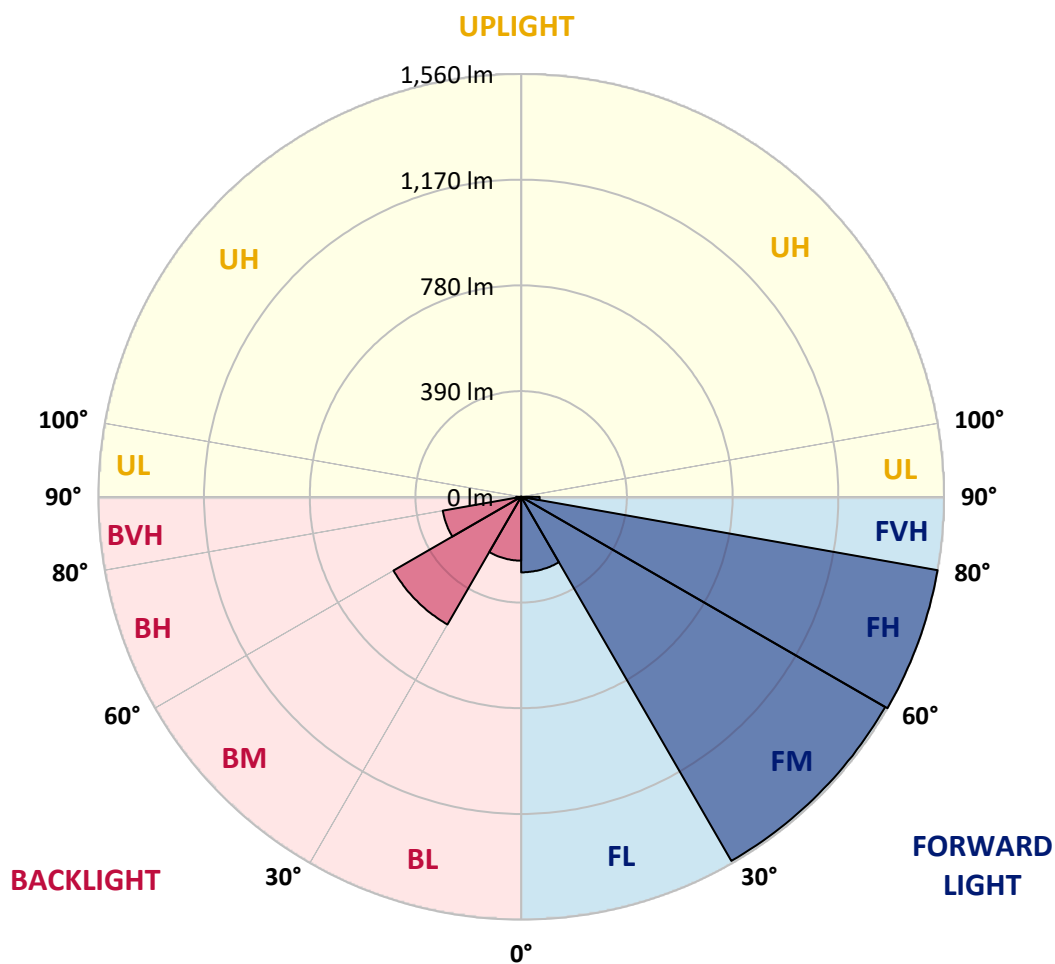
CATALOG NUMBER: VST-F02-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.7	6.1			
FM	(30°-60°)	1551.1	34.1			
FH	(60°-80°)	1560.1	34.3			G1/1800
FVH	(80°-90°)	68.1	1.5			G1/100
BL	(0°-30°)	235.3	5.2	B1/500		
BM	(30°-60°)	543.8	12.0	B1/1000		
BH	(60°-80°)	293.6	6.5	B1/500		G1/500
BVH	(80°-90°)	18.6	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°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1
2.5°	512.4	513.6	513.9	513.6	513.9	512.7	512.4	510.6	511.5	509.1	508.5
5°	540.2	541.1	541.7	539.3	539.9	538.7	537.1	535.3	532.9	529.6	527.5
7.5°	567.3	568.8	568.5	567.6	565.5	564.3	561.3	558.5	554.3	550.4	547.7
10°	603.8	603.5	603.5	598.4	595.4	592.6	587.2	583.0	578.8	573.1	570.0
12.5°	646.0	643.9	643.0	639.4	633.1	628.2	620.4	612.2	604.7	598.7	593.8
15°	686.8	686.8	684.3	678.6	672.5	666.2	655.1	643.3	631.0	621.3	616.4
17.5°	723.8	720.5	718.4	710.9	704.5	694.3	681.9	669.2	653.9	640.3	631.0
20°	751.0	748.3	743.8	734.4	723.5	711.5	697.0	682.2	665.6	650.8	640.3
22.5°	766.7	763.3	756.4	744.1	729.2	712.4	695.5	681.6	666.5	655.4	646.6
25°	774.8	771.5	762.1	745.9	725.9	703.6	684.3	670.7	662.0	659.3	658.1
27.5°	774.5	771.8	761.8	743.2	717.5	691.9	671.0	659.6	658.7	669.2	677.1
30°	766.7	764.9	755.8	737.1	710.3	683.4	664.1	658.1	667.4	689.8	709.1
32.5°	758.8	757.9	751.6	734.7	711.8	689.2	675.9	676.5	695.8	730.1	761.2
35°	759.7	760.9	760.0	751.0	736.5	724.7	718.4	731.7	761.8	803.5	845.1
37.5°	767.6	772.1	777.8	778.7	779.0	777.2	790.5	818.5	862.6	916.9	982.0
40°	784.7	789.9	806.5	820.9	839.6	862.0	888.8	927.7	982.3	1049.3	1129.2
42.5°	838.1	845.4	865.9	892.7	927.1	962.1	1002.2	1055.3	1122.2	1192.8	1276.7
45°	907.8	922.9	945.5	975.4	1027.0	1076.1	1128.0	1187.4	1258.6	1346.9	1431.4
47.5°	994.7	1009.7	1042.6	1074.6	1135.5	1196.8	1253.5	1315.6	1392.8	1483.3	1576.7
50°	1070.7	1087.9	1117.1	1160.2	1230.8	1305.9	1368.7	1435.9	1500.7	1596.1	1690.4
52.5°	1130.4	1142.8	1170.8	1210.3	1289.0	1371.4	1450.7	1525.5	1602.4	1697.7	1785.2
55°	1137.9	1149.4	1176.8	1222.1	1302.0	1393.4	1484.8	1573.4	1682.3	1786.4	1902.2
57.5°	1105.4	1114.7	1142.5	1182.8	1260.7	1364.7	1480.3	1594.0	1733.3	1873.8	2015.3
60°	1059.2	1068.5	1090.3	1122.5	1192.8	1305.0	1439.8	1595.5	1780.6	1983.6	2191.7
62.5°	1008.5	1016.7	1034.2	1057.1	1118.9	1222.4	1376.8	1585.5	1819.3	2092.8	2413.7
65°	923.2	942.8	950.3	973.9	1035.7	1133.4	1290.5	1518.2	1803.5	2141.3	2553.0
67°	828.8	848.7	852.6	876.4	925.9	1019.7	1179.5	1393.7	1679.3	2057.5	2522.3
67.5°	798.6	815.5	821.6	845.4	892.1	980.5	1132.2	1348.7	1641.3	2011.7	2485.1
70°	587.2	605.9	612.5	622.5	656.0	729.5	830.0	1017.9	1308.7	1641.6	2096.4
72.5°	314.3	329.3	335.7	350.5	367.6	407.8	484.7	619.5	803.2	1098.4	1491.4
75°	212.6	218.6	223.2	233.5	251.2	283.2	317.0	364.3	475.3	619.8	848.7
77.5°	121.3	124.0	124.6	126.4	140.5	171.0	226.5	306.7	393.3	449.1	542.9
80°	52.5	57.9	62.1	59.4	58.5	64.9	81.1	121.0	237.1	376.4	446.6
82.5°	28.4	30.8	34.4	34.7	36.5	38.6	41.9	49.7	70.0	141.1	307.9
85°	14.8	15.4	20.5	23.5	25.0	26.2	26.8	29.9	34.4	43.7	76.6
87.5°	2.1	3.0	3.6	4.8	5.4	5.8	6.7	8.5	10.0	12.1	20.5
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1
2.5°	505.8	505.2	503.3	502.1	500.9	499.7	498.2	497.0	494.9	493.4	491.6
5°	524.5	520.9	518.5	515.1	514.5	510.6	506.7	504.9	501.2	498.2	494.6
7.5°	543.5	539.3	535.3	532.6	531.1	525.7	521.8	517.3	513.0	509.1	504.9
10°	565.8	561.6	557.3	555.5	552.8	547.7	544.4	538.7	534.4	529.6	523.9
12.5°	589.0	586.0	583.0	580.6	579.4	577.0	572.2	567.3	561.6	556.7	550.1
15°	609.5	607.4	606.2	605.6	605.6	604.1	599.6	595.1	589.0	583.6	576.4
17.5°	624.0	623.1	624.0	624.9	626.1	624.9	624.0	618.9	614.9	608.3	601.1
20°	632.5	634.3	638.8	641.8	644.5	646.6	647.5	643.3	638.2	633.4	628.5
22.5°	641.5	646.6	654.5	659.0	663.5	671.0	672.8	669.8	665.9	662.9	657.8
25°	656.6	664.1	677.7	684.9	691.3	702.4	703.9	704.5	703.6	701.2	694.9
27.5°	680.1	694.9	713.0	722.3	729.2	743.8	749.5	749.5	747.1	749.8	749.8
30°	721.1	740.7	764.2	769.7	780.5	793.2	802.6	803.8	804.1	809.8	818.2
32.5°	784.1	802.9	829.1	835.1	844.5	856.6	867.1	865.9	868.6	881.0	892.1
35°	875.8	894.8	912.1	920.2	924.4	935.3	939.2	945.8	953.9	969.4	967.8
37.5°	1011.5	1028.5	1030.9	1036.0	1030.9	1033.0	1036.0	1043.8	1065.5	1079.4	1057.1
40°	1175.0	1203.1	1200.4	1194.3	1182.8	1167.5	1172.9	1185.0	1208.5	1196.5	1136.4
42.5°	1329.1	1358.1	1352.6	1345.7	1320.4	1314.7	1314.1	1324.0	1336.7	1302.3	1198.6
45°	1480.9	1510.4	1501.1	1497.1	1480.3	1467.9	1478.1	1478.8	1475.4	1401.8	1252.9
47.5°	1637.4	1664.5	1658.5	1661.8	1644.3	1636.1	1637.1	1632.8	1601.8	1486.3	1295.0
50°	1763.8	1800.2	1803.8	1796.3	1787.0	1774.6	1806.2	1794.8	1725.7	1568.3	1335.8
52.5°	1862.0	1911.2	1929.9	1925.1	1917.5	1919.0	1978.5	1991.5	1877.2	1671.8	1380.7
55°	1978.5	2056.0	2086.4	2104.6	2096.7	2126.9	2262.9	2269.5	2087.6	1806.8	1439.2
57.5°	2146.4	2257.4	2353.7	2379.3	2404.0	2502.1	2722.8	2655.5	2360.9	2011.4	1513.4
60°	2401.9	2645.0	2801.2	2883.3	2941.2	3078.1	3288.0	3117.6	2701.4	2254.7	1606.6
62.5°	2759.6	3114.9	3376.1	3458.4	3482.2	3560.9	3713.0	3386.9	2886.9	2363.9	1614.8
65°	3025.9	3452.1	3764.8	3807.1	3778.7	3780.2	3820.0	3372.8	2817.8	2268.6	1474.8
67°	3008.5	3485.6	3805.9	3861.4	3822.1	3770.6	3708.4	3180.7	2595.8	2069.0	1291.4
67.5°	2981.6	3453.3	3788.0	3846.6	3810.7	3751.9	3661.1	3106.1	2526.8	2006.8	1254.1
70°	2577.5	3045.8	3496.7	3579.1	3594.1	3540.5	3285.6	2619.1	2051.5	1632.5	973.9
72.5°	2006.2	2423.3	2869.4	2940.9	2998.8	2844.1	2391.4	1809.0	1495.3	1176.5	705.1
75°	1324.6	1748.9	1973.9	1984.5	1910.6	1624.1	1168.4	906.0	833.9	691.6	436.4
77.5°	708.8	1028.5	1034.8	958.2	923.2	688.3	279.3	154.1	171.6	194.8	173.7
80°	528.7	655.1	759.1	816.1	833.0	590.2	144.5	81.7	71.5	65.2	64.3
82.5°	476.8	632.8	709.4	740.4	732.6	485.6	81.1	54.9	45.5	49.4	56.4
85°	187.0	337.8	444.2	430.1	361.3	181.0	44.3	29.6	29.6	42.8	55.5
87.5°	38.3	69.4	94.1	89.9	80.8	35.0	21.7	17.8	18.1	34.7	52.5
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°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1
2.5°	489.8	488.0	486.8	485.6	484.4	483.8	482.9	482.9	481.0	480.4	479.8
5°	491.9	488.9	486.8	484.1	482.0	480.1	477.7	477.1	475.0	473.5	472.9
7.5°	500.9	496.4	491.9	488.6	485.6	481.7	478.9	476.5	474.4	472.9	471.1
10°	518.2	513.3	507.0	500.9	497.0	491.0	486.8	482.6	480.1	478.3	475.9
12.5°	543.5	536.5	529.0	521.8	515.1	507.3	503.0	497.9	494.9	493.4	491.6
15°	569.4	561.9	552.5	545.6	538.0	532.0	528.1	523.6	521.2	519.4	518.2
17.5°	596.0	587.2	580.6	573.7	570.0	565.5	560.3	554.6	547.7	543.5	537.7
20°	623.1	616.4	612.5	608.6	604.4	598.1	587.8	576.1	563.1	550.7	539.0
22.5°	654.8	650.8	650.2	646.6	637.9	622.8	603.8	581.8	559.7	539.3	523.3
25°	699.4	699.4	696.4	681.6	661.1	634.0	602.0	570.3	541.1	513.0	491.9
27.5°	755.5	753.4	738.6	708.2	671.3	629.2	586.3	546.2	508.8	478.0	450.9
30°	817.3	802.6	770.9	722.9	667.7	613.4	561.0	514.5	470.5	432.8	400.8
32.5°	881.6	845.7	788.7	722.9	655.1	589.9	529.3	472.3	421.9	379.7	341.7
35°	939.8	874.3	792.9	711.2	630.4	555.2	485.0	420.4	360.1	314.6	272.9
37.5°	992.6	893.3	788.4	688.3	594.4	506.4	424.0	352.9	284.7	240.7	205.1
40°	1027.0	897.2	769.7	652.4	543.2	440.3	349.3	269.6	215.6	175.5	151.7
42.5°	1048.4	889.7	739.5	603.2	474.1	357.4	262.1	193.3	153.2	130.9	121.9
45°	1060.4	870.1	694.9	535.9	390.5	271.7	186.1	139.6	117.9	110.1	107.0
47.5°	1059.8	838.4	639.1	458.1	298.3	189.4	131.8	108.9	102.8	100.4	99.8
50°	1053.5	799.6	573.7	373.7	215.3	132.1	104.3	97.7	96.2	94.7	94.1
52.5°	1044.7	751.3	501.2	291.4	152.9	105.5	94.7	92.9	91.7	90.2	89.6
55°	1028.5	691.9	422.8	219.2	119.8	95.3	91.4	90.8	89.3	87.2	86.0
57.5°	1008.5	631.6	347.8	171.3	105.8	92.9	90.8	89.9	87.8	85.4	82.9
60°	1001.3	581.8	289.0	144.5	102.5	93.8	92.3	91.1	88.1	84.4	81.7
62.5°	956.0	525.7	246.7	133.9	104.3	97.7	97.1	95.3	90.8	86.6	82.3
65°	839.0	444.5	209.0	126.7	108.0	104.3	104.9	102.2	97.7	92.0	84.4
67°	709.7	362.5	174.0	119.8	110.7	111.3	113.4	111.3	105.5	97.4	87.2
67.5°	675.3	341.7	165.3	117.6	111.3	113.1	115.5	114.0	108.3	98.9	88.4
70°	501.8	240.7	123.4	106.4	111.3	118.5	124.0	125.5	119.2	106.1	90.8
72.5°	353.5	155.3	94.7	92.3	101.0	110.7	121.0	126.1	118.8	104.6	87.5
75°	212.3	97.1	76.9	78.4	85.1	95.0	103.1	105.2	96.2	87.2	75.7
77.5°	98.3	64.6	60.3	62.5	68.8	73.3	73.3	69.1	62.1	56.7	54.3
80°	57.9	52.8	52.5	56.4	60.6	57.3	52.2	46.4	42.8	41.0	40.1
82.5°	54.3	56.4	60.0	60.9	57.6	49.4	43.1	37.4	35.6	34.7	33.8
85°	64.0	68.5	62.5	57.6	50.9	41.6	33.8	29.0	28.0	27.1	25.9
87.5°	59.1	56.4	49.1	42.2	35.0	25.3	18.4	16.6	17.8	17.5	16.9
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°	493.1	493.1	493.1	493.1	493.1
2.5°	480.1	480.1	478.9	478.3	479.8
5°	471.7	472.0	471.1	470.8	471.1
7.5°	469.9	469.6	469.0	468.4	469.0
10°	475.3	475.0	474.1	474.7	473.8
12.5°	491.6	493.4	493.1	493.7	494.9
15°	518.2	517.9	517.0	517.6	518.5
17.5°	533.2	530.8	528.7	527.8	527.8
20°	529.6	522.7	519.1	517.0	516.4
22.5°	508.2	498.2	490.7	488.9	487.4
25°	473.2	460.9	451.2	449.1	445.1
27.5°	432.5	415.9	404.5	402.0	399.9
30°	379.1	360.1	346.9	338.4	341.1
32.5°	314.0	295.9	280.5	266.9	264.8
35°	242.5	222.6	209.0	203.0	199.1
37.5°	181.0	164.4	155.3	149.6	149.9
40°	138.4	129.7	124.9	121.0	121.3
42.5°	115.5	111.6	110.4	108.6	107.7
45°	104.6	103.4	103.7	101.9	101.3
47.5°	98.6	97.7	98.0	96.8	96.5
50°	93.8	93.2	93.5	92.6	92.3
52.5°	89.0	89.3	89.0	88.4	88.4
55°	84.7	84.4	85.1	84.1	84.1
57.5°	81.4	81.1	81.1	80.8	80.8
60°	79.6	78.4	78.1	78.1	78.4
62.5°	78.7	76.6	76.3	76.3	76.6
65°	79.0	75.7	74.5	74.2	73.9
67°	79.3	74.5	72.1	70.9	70.6
67.5°	79.6	73.9	71.2	70.0	69.4
70°	77.8	69.7	65.8	63.7	63.1
72.5°	73.3	64.6	59.7	57.0	56.4
75°	65.2	58.5	54.3	51.3	50.0
77.5°	50.3	47.3	45.8	44.0	43.4
80°	39.2	37.7	37.1	35.9	35.6
82.5°	32.6	31.1	30.2	28.7	27.7
85°	25.3	23.5	22.9	21.7	21.1
87.5°	16.6	15.7	15.4	13.9	13.3
90°	0.0	0.0	0.0	0.0	0.0

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