

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: P165471

Luminaire Tested: **VST-F03-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165471
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547.7 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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

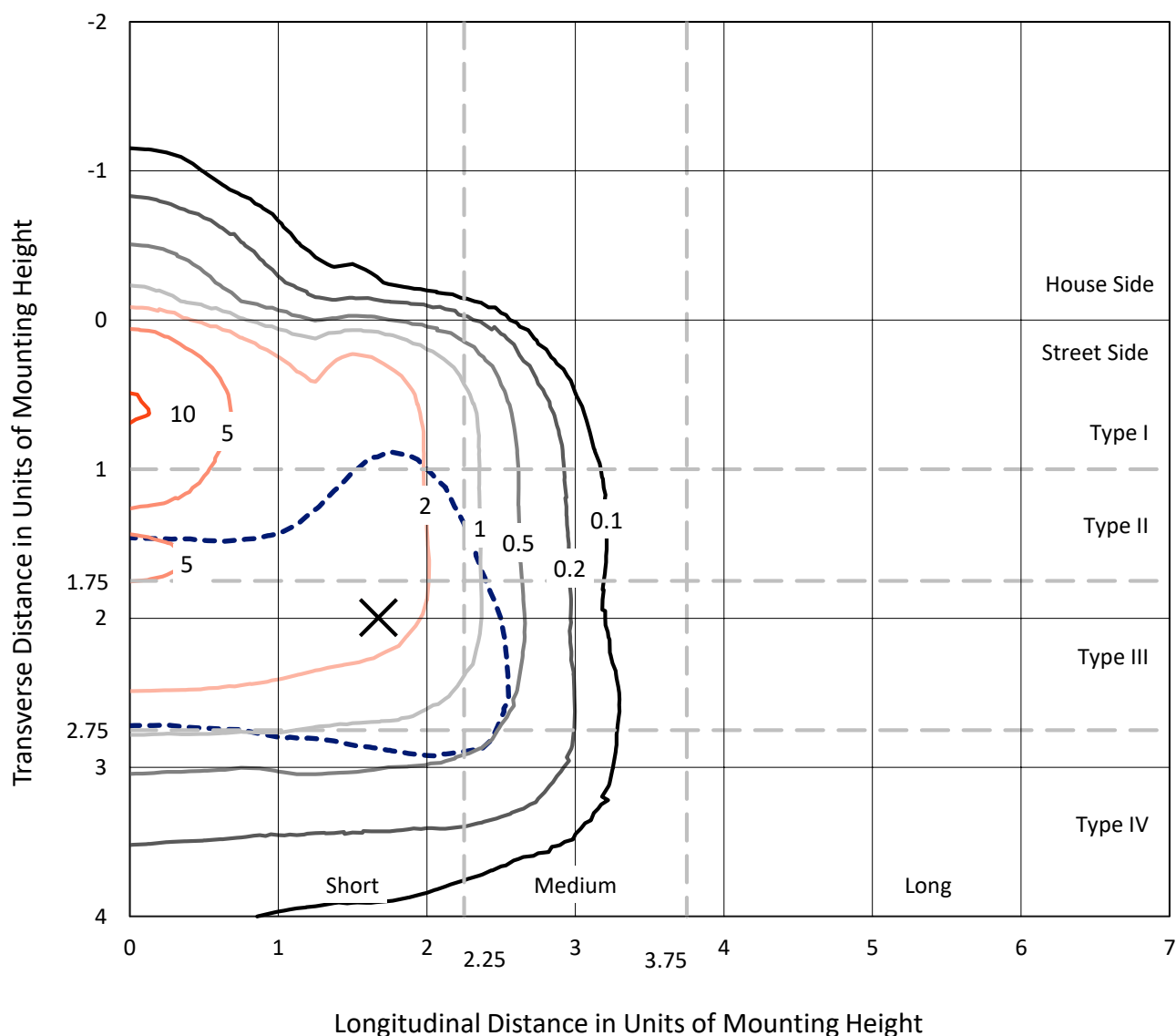


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

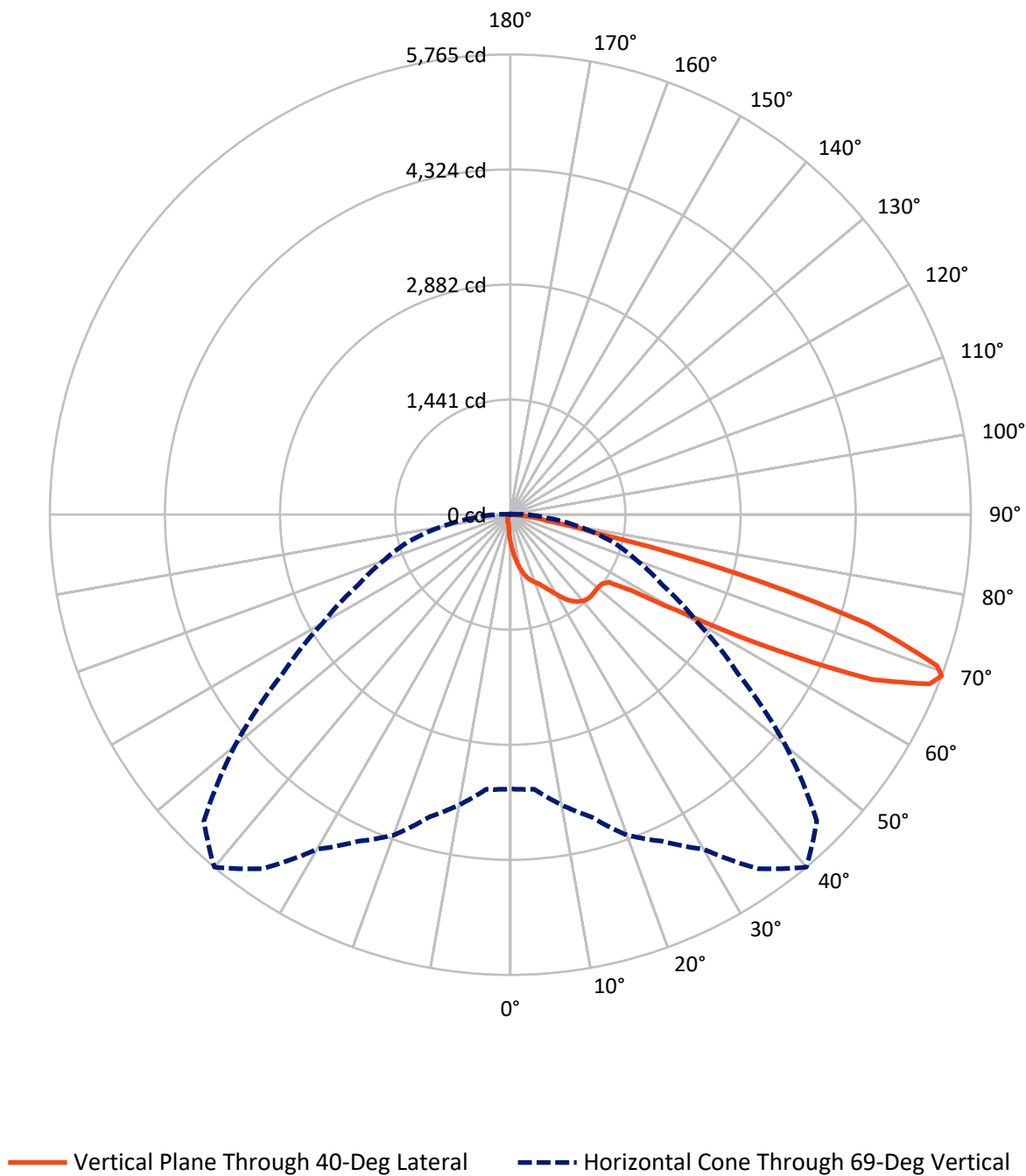


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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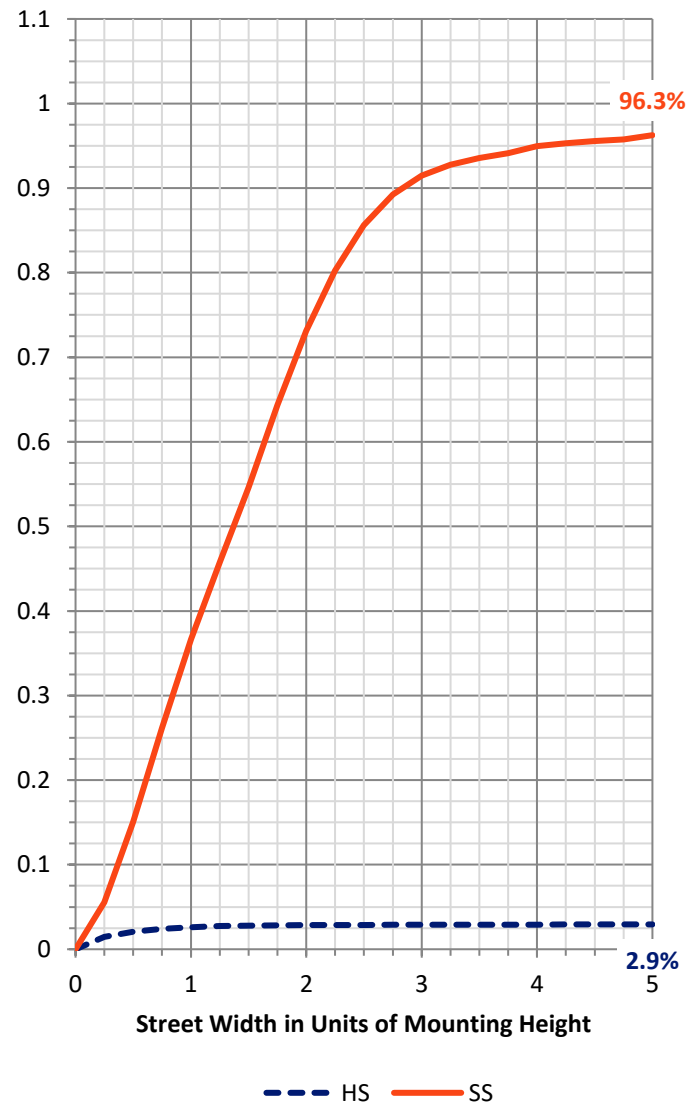
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	135.4	0.0	135.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4412.3	0.0	4412.3
	% Fixture	97.0	0.0	97.0
Total	Lumens	4547.7	0.0	4547.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.8
10°-20°	121.7	2.7
20°-30°	232.9	5.1
30°-40°	387.4	8.5
40°-50°	524.2	11.5
50°-60°	819.8	18.0
60°-70°	1685.5	37.1
70°-80°	678.2	14.9
80°-90°	62.7	1.4
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°	4547.7	100.0
0°-180°	4547.7	100.0

Coefficient of Utilization



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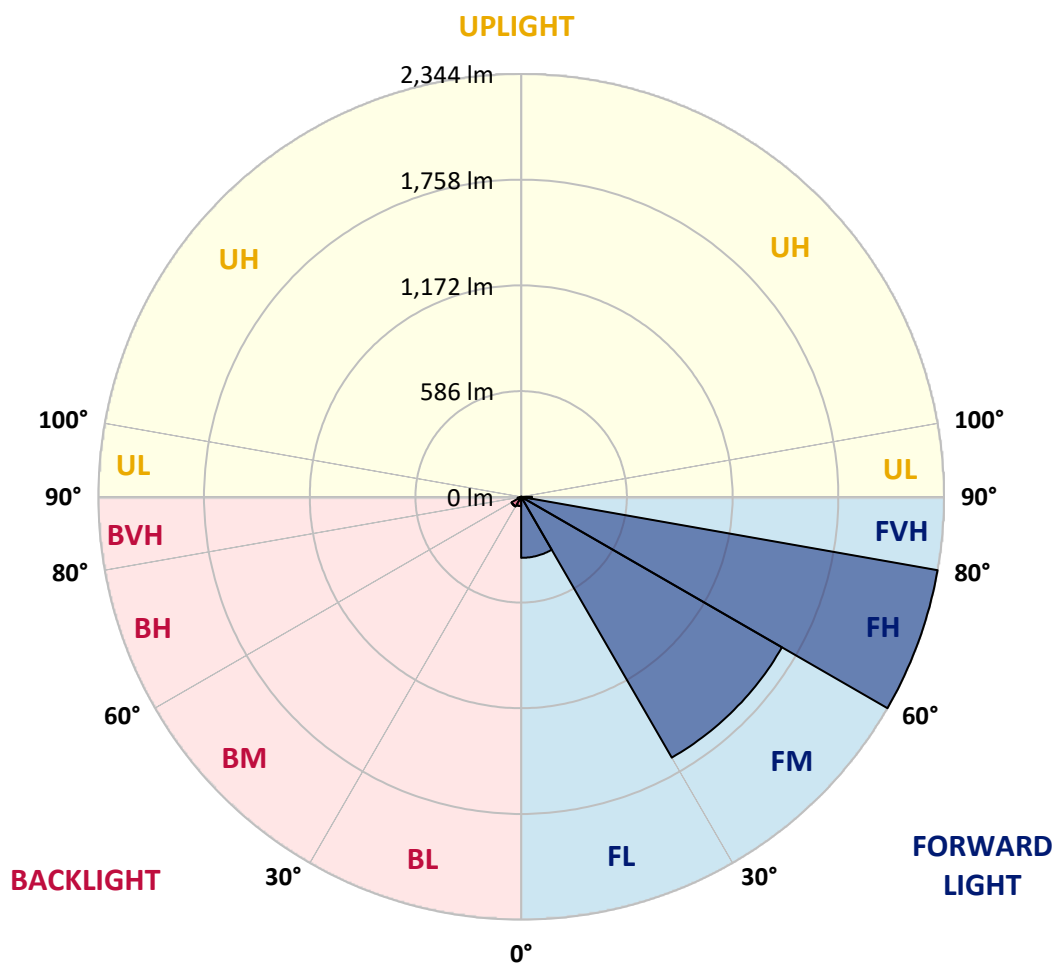
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.4	7.4			
FM	(30°-60°)	1669.5	36.7			
FH	(60°-80°)	2343.9	51.5			G2/5000
FVH	(80°-90°)	60.4	1.3			G1/100
BL	(0°-30°)	51.5	1.1	B0/110		
BM	(30°-60°)	61.8	1.4	B0/220		
BH	(60°-80°)	19.7	0.4	B0/110		G0/110
BVH	(80°-90°)	2.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	458.2	452.9	446.9	446.9	439.6	439.6	435.1	423.2	421.7	415.0	408.2
5°	584.8	580.3	572.9	566.2	560.2	549.8	542.3	528.2	512.6	497.6	484.3
7.5°	708.5	706.3	692.8	690.6	680.9	663.8	648.9	628.0	601.2	580.3	555.8
10°	823.2	818.0	815.0	802.3	788.2	769.6	746.5	721.1	689.9	657.1	622.0
12.5°	914.1	911.1	897.7	892.5	877.6	859.0	829.9	797.1	765.8	723.4	682.4
15°	981.9	976.7	967.7	959.5	941.6	925.3	898.4	862.7	824.7	778.5	729.4
17.5°	1038.5	1028.8	1026.6	1013.9	995.3	975.9	946.1	913.3	868.6	822.5	768.8
20°	1114.5	1101.1	1096.6	1078.0	1056.4	1029.5	995.3	954.3	907.4	856.7	801.6
22.5°	1203.9	1194.2	1184.5	1168.1	1140.6	1102.6	1052.7	1008.0	948.4	892.5	832.9
25°	1330.6	1322.3	1306.7	1284.4	1250.0	1204.6	1144.3	1078.7	1008.7	937.2	867.2
27.5°	1453.4	1446.0	1434.8	1417.7	1378.9	1329.1	1254.5	1171.1	1082.5	996.1	918.5
30°	1568.9	1562.2	1551.1	1534.0	1499.6	1450.5	1366.3	1276.9	1166.6	1066.1	973.0
32.5°	1693.4	1691.1	1678.4	1653.8	1624.1	1557.8	1466.1	1370.0	1258.3	1142.1	1033.3
35°	1834.1	1817.0	1805.1	1780.5	1729.9	1659.1	1551.8	1446.8	1329.1	1209.8	1088.4
37.5°	1953.4	1937.0	1922.0	1890.8	1828.9	1738.8	1617.4	1501.9	1380.4	1259.0	1135.3
40°	2040.5	2032.3	2014.4	1973.5	1904.2	1796.9	1665.8	1539.8	1417.7	1295.5	1173.4
42.5°	2105.3	2092.6	2072.6	2030.1	1948.1	1826.0	1685.2	1555.5	1434.8	1317.9	1198.0
45°	2129.2	2118.8	2100.1	2053.9	1965.2	1834.1	1684.4	1551.1	1435.6	1324.6	1214.3
47.5°	2115.0	2104.6	2088.2	2045.0	1957.9	1824.5	1671.0	1538.4	1428.1	1326.8	1229.2
50°	2068.1	2062.1	2049.4	2012.9	1934.7	1805.8	1659.1	1531.7	1426.6	1338.0	1250.0
52.5°	2063.6	2059.9	2044.3	2007.7	1928.0	1799.9	1657.6	1535.5	1439.3	1352.2	1265.0
55°	2521.7	2468.9	2350.4	2249.9	2084.5	1887.8	1732.8	1595.8	1493.0	1408.0	1346.9
57.5°	3584.1	3505.1	3349.4	3158.0	2778.0	2404.8	2106.1	1890.0	1783.5	1744.7	1767.8
60°	4081.7	4067.6	4043.0	3952.1	3757.7	3436.6	3079.0	2692.4	2537.4	2524.0	2570.9
62.5°	4318.0	4309.0	4316.5	4305.3	4244.9	4151.0	4048.2	3881.4	3727.9	3628.8	3418.7
65°	4426.7	4432.7	4475.1	4508.6	4516.1	4540.7	4615.9	4823.8	4975.7	4720.2	4136.9
67.5°	4150.3	4185.3	4282.9	4405.1	4548.1	4686.7	4910.2	5348.2	5660.4	5360.2	4531.7
69°	3435.8	3453.0	3691.4	3921.6	4271.0	4515.4	4839.4	5413.8	5764.7	5425.7	4500.4
70°	2705.0	2720.6	2976.2	3289.1	3879.9	4194.2	4618.1	5302.8	5667.1	5338.6	4339.5
72.5°	1220.3	1198.0	1288.1	1455.7	2097.8	2597.0	3338.3	4296.3	4675.5	4277.0	3246.6
75°	852.2	842.6	852.2	853.0	952.9	1229.2	1551.1	2328.8	2880.1	2485.3	1551.1
77.5°	660.1	653.3	646.7	639.2	651.1	729.4	760.6	826.1	1072.7	1014.7	591.5
80°	522.2	516.3	532.7	527.5	527.5	536.4	530.5	505.8	459.7	426.1	381.4
82.5°	242.8	244.3	244.3	265.2	319.6	373.2	390.4	365.8	324.8	276.4	222.8
85°	23.1	26.0	44.0	67.8	134.9	152.0	152.7	126.6	126.6	99.8	80.5
87.5°	0.0	0.7	0.7	0.7	6.7	18.7	15.7	4.5	2.2	2.2	3.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	396.4	394.1	385.2	376.2	368.0	359.0	350.9	342.7	333.7	327.1	318.8
5°	463.4	446.9	428.4	410.5	392.6	374.0	354.7	337.5	319.6	303.2	287.5
7.5°	531.2	499.1	473.8	441.8	412.7	383.7	356.9	329.3	304.0	280.1	257.8
10°	588.5	549.8	510.3	469.4	427.6	388.9	351.7	318.8	285.3	256.3	228.7
12.5°	635.5	586.3	537.9	486.5	439.6	390.4	344.2	304.7	265.2	232.4	204.1
15°	677.9	621.3	563.2	503.6	444.0	388.1	336.7	287.5	247.3	210.1	178.1
17.5°	712.2	647.4	581.8	514.8	450.7	385.2	327.1	275.6	228.7	190.0	158.7
20°	742.0	674.2	603.5	528.2	455.2	384.4	318.8	260.8	212.3	171.4	140.8
22.5°	769.6	701.8	625.8	545.3	461.9	383.7	311.4	249.6	198.1	157.2	126.6
25°	800.9	729.4	649.6	563.2	473.8	386.6	307.0	240.6	185.5	143.8	115.4
27.5°	835.9	760.6	677.9	585.5	489.4	392.6	305.5	230.9	174.3	131.1	106.6
30°	885.0	797.9	706.3	607.9	503.6	399.4	304.0	225.0	163.1	121.4	97.6
32.5°	928.3	834.4	737.5	631.0	519.2	406.0	303.2	216.8	152.7	111.7	90.9
35°	973.7	867.9	764.3	653.3	532.7	413.5	302.5	210.8	143.0	102.1	84.2
37.5°	1013.2	896.2	785.2	672.7	547.6	420.2	303.2	205.6	134.1	93.9	78.2
40°	1046.7	925.3	808.3	690.6	563.2	430.6	304.0	200.4	125.2	86.4	73.0
42.5°	1076.5	952.9	832.9	710.7	581.1	442.6	308.5	196.0	117.7	79.7	67.8
45°	1099.6	978.2	859.7	739.0	610.1	461.9	316.6	193.0	110.2	73.7	63.4
47.5°	1123.4	1015.4	905.2	783.7	652.6	492.4	330.8	192.2	104.3	69.2	59.6
50°	1156.3	1052.7	945.4	829.1	691.4	523.7	347.9	193.0	96.8	64.8	55.9
52.5°	1180.1	1090.6	997.6	908.2	783.7	619.1	414.2	206.3	93.1	61.1	51.4
55°	1320.8	1305.2	1307.4	1322.3	1226.3	1053.4	692.8	298.0	109.5	69.2	50.6
57.5°	1862.5	1917.6	1949.6	1948.9	1790.2	1484.8	930.5	382.9	122.2	80.5	60.4
60°	2574.7	2533.0	2474.1	2328.8	2118.0	1694.9	1040.8	412.0	105.8	64.1	55.1
62.5°	3204.2	2959.8	2743.0	2507.6	2231.2	1767.8	1063.1	409.7	92.4	48.4	38.7
65°	3596.8	3157.2	2807.1	2512.1	2186.5	1706.8	1005.7	376.2	78.2	39.5	32.0
67.5°	3690.7	3050.7	2555.3	2179.1	1826.7	1328.3	738.2	283.1	61.1	32.8	28.3
69°	3485.8	2711.8	2117.3	1690.4	1329.1	881.3	456.7	178.8	46.9	29.8	26.0
70°	3206.4	2358.6	1724.6	1356.6	984.1	619.1	319.6	125.9	38.0	27.5	23.8
72.5°	2062.9	1238.9	847.8	590.0	406.0	246.6	125.2	56.6	29.0	23.1	19.4
75°	800.1	458.2	332.3	252.5	197.4	137.1	76.0	36.5	24.5	19.4	14.9
77.5°	394.1	301.7	246.6	169.1	98.3	61.1	41.0	28.3	20.2	14.2	9.7
80°	311.4	207.1	123.7	76.7	58.1	44.0	31.3	23.1	14.9	8.9	6.7
82.5°	159.4	87.2	64.1	52.1	43.2	34.3	25.3	16.4	9.7	6.0	5.2
85°	49.9	36.5	32.8	32.0	29.8	24.5	17.9	10.4	6.0	3.7	3.7
87.5°	3.7	5.2	6.7	5.2	6.0	5.2	6.7	4.5	3.0	3.0	2.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4	343.4
2.5°	312.9	304.0	295.8	290.5	280.9	277.1	273.4	271.9	265.2	266.7	260.8
5°	273.4	257.8	245.8	233.9	222.8	214.6	207.8	199.6	193.0	190.0	184.0
7.5°	237.7	217.6	201.9	189.2	175.8	165.4	156.4	150.5	144.5	138.5	135.6
10°	206.3	184.7	166.9	154.2	141.5	132.6	125.9	121.4	117.7	115.4	114.7
12.5°	177.3	156.4	140.0	128.9	119.2	114.7	111.7	109.5	108.8	108.1	108.1
15°	154.9	134.1	121.4	113.2	108.8	106.6	105.8	104.3	102.8	102.1	102.1
17.5°	134.1	118.4	109.5	105.1	102.8	101.3	99.8	98.3	96.8	96.1	96.1
20°	119.9	107.3	102.8	99.8	97.6	96.1	93.9	92.4	91.7	90.9	90.2
22.5°	108.8	100.6	97.6	95.3	92.4	90.2	88.7	87.2	85.7	84.9	84.2
25°	100.6	95.3	93.1	90.2	87.2	84.9	82.7	80.5	79.0	78.2	76.7
27.5°	94.6	90.9	87.9	84.2	81.2	79.0	76.7	74.5	73.0	71.5	70.7
30°	89.4	85.7	81.9	79.0	75.2	73.0	70.0	67.8	67.0	65.6	64.1
32.5°	84.2	80.5	76.7	73.0	69.2	66.3	64.8	61.9	60.4	59.6	58.1
35°	78.2	74.5	70.0	67.0	63.4	60.4	58.1	55.9	54.4	52.9	52.1
37.5°	73.0	68.5	64.1	60.4	57.4	54.4	52.1	49.9	48.4	46.9	46.2
40°	67.0	62.6	58.1	54.4	51.4	49.2	46.9	44.7	43.2	42.5	42.5
42.5°	61.9	56.6	52.1	49.2	46.9	44.0	41.7	39.5	38.7	38.0	38.7
45°	56.6	51.4	47.7	44.7	42.5	39.5	37.3	35.8	35.0	35.8	36.5
47.5°	52.1	46.9	43.2	41.0	38.7	36.5	34.3	32.8	32.8	34.3	35.8
50°	47.7	42.5	39.5	38.0	35.8	33.5	30.5	29.8	30.5	32.0	33.5
52.5°	43.2	37.3	35.0	34.3	32.0	29.8	27.5	26.8	27.5	29.0	28.3
55°	38.7	32.8	32.0	31.3	29.0	26.0	23.8	23.8	23.8	23.1	21.6
57.5°	37.3	29.0	28.3	27.5	25.3	22.3	20.9	19.4	18.7	16.4	15.7
60°	38.7	26.0	26.0	24.5	22.3	19.4	17.2	14.9	13.4	11.9	11.9
62.5°	31.3	23.8	23.1	21.6	18.7	15.7	13.4	11.2	10.4	9.7	9.7
65°	25.3	21.6	20.2	17.9	15.7	12.7	10.4	8.9	8.2	8.2	8.9
67.5°	23.1	19.4	17.2	14.9	12.7	9.7	8.2	7.4	7.4	8.2	8.2
69°	21.6	17.9	15.7	13.4	11.2	8.9	7.4	7.4	7.4	7.4	8.2
70°	20.2	17.2	14.9	12.7	9.7	7.4	6.7	6.7	7.4	7.4	8.2
72.5°	15.7	13.4	12.7	10.4	7.4	6.7	6.0	6.7	6.7	7.4	7.4
75°	11.9	9.7	9.7	8.2	6.0	5.2	5.2	6.0	6.0	6.7	6.7
77.5°	8.2	6.7	6.7	6.0	5.2	4.5	4.5	5.2	6.0	6.0	6.7
80°	6.0	5.2	4.5	5.2	4.5	3.7	4.5	5.2	5.2	6.0	6.0
82.5°	4.5	4.5	4.5	4.5	3.7	3.7	4.5	4.5	5.2	6.0	6.0
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.5	4.5	5.2	5.2
87.5°	2.2	2.2	2.2	3.0	3.0	3.7	3.7	3.7	3.7	4.5	4.5
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):

	165°	170°	175°	180°
0°	343.4	343.4	343.4	343.4
2.5°	259.3	258.5	255.5	256.3
5°	181.8	177.3	180.3	179.6
7.5°	133.4	132.6	131.9	133.4
10°	114.0	114.0	113.2	114.0
12.5°	107.3	107.3	107.3	107.3
15°	102.1	102.1	101.3	101.3
17.5°	96.1	96.1	96.1	95.3
20°	90.2	89.4	89.4	89.4
22.5°	83.4	82.7	82.7	82.7
25°	76.7	76.0	76.0	76.0
27.5°	70.0	69.2	68.5	68.5
30°	63.4	62.6	61.9	61.9
32.5°	56.6	55.9	55.1	55.1
35°	50.6	50.6	49.9	49.2
37.5°	45.5	45.5	45.5	45.5
40°	41.7	42.5	42.5	42.5
42.5°	39.5	40.2	41.0	41.7
45°	38.0	39.5	40.2	40.2
47.5°	37.3	38.0	38.7	38.7
50°	34.3	33.5	33.5	33.5
52.5°	27.5	26.0	25.3	24.5
55°	20.2	19.4	17.9	17.9
57.5°	14.2	14.2	13.4	13.4
60°	11.2	11.2	10.4	11.2
62.5°	9.7	9.7	9.7	9.7
65°	8.9	8.9	8.9	8.9
67.5°	8.9	8.9	8.9	8.9
69°	8.2	8.2	8.2	8.2
70°	8.2	8.2	8.2	8.2
72.5°	7.4	7.4	7.4	7.4
75°	6.7	7.4	7.4	7.4
77.5°	6.7	6.7	6.7	6.7
80°	6.0	6.0	6.7	6.7
82.5°	6.0	6.0	6.0	6.0
85°	5.2	5.2	6.0	6.0
87.5°	4.5	4.5	5.2	5.2
90°	0.0	0.0	0.0	0.0

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