

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: P156279

Luminaire Tested: **AVM-E02-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156279
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-E02-LED-E-U-T4-HSS-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.9 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

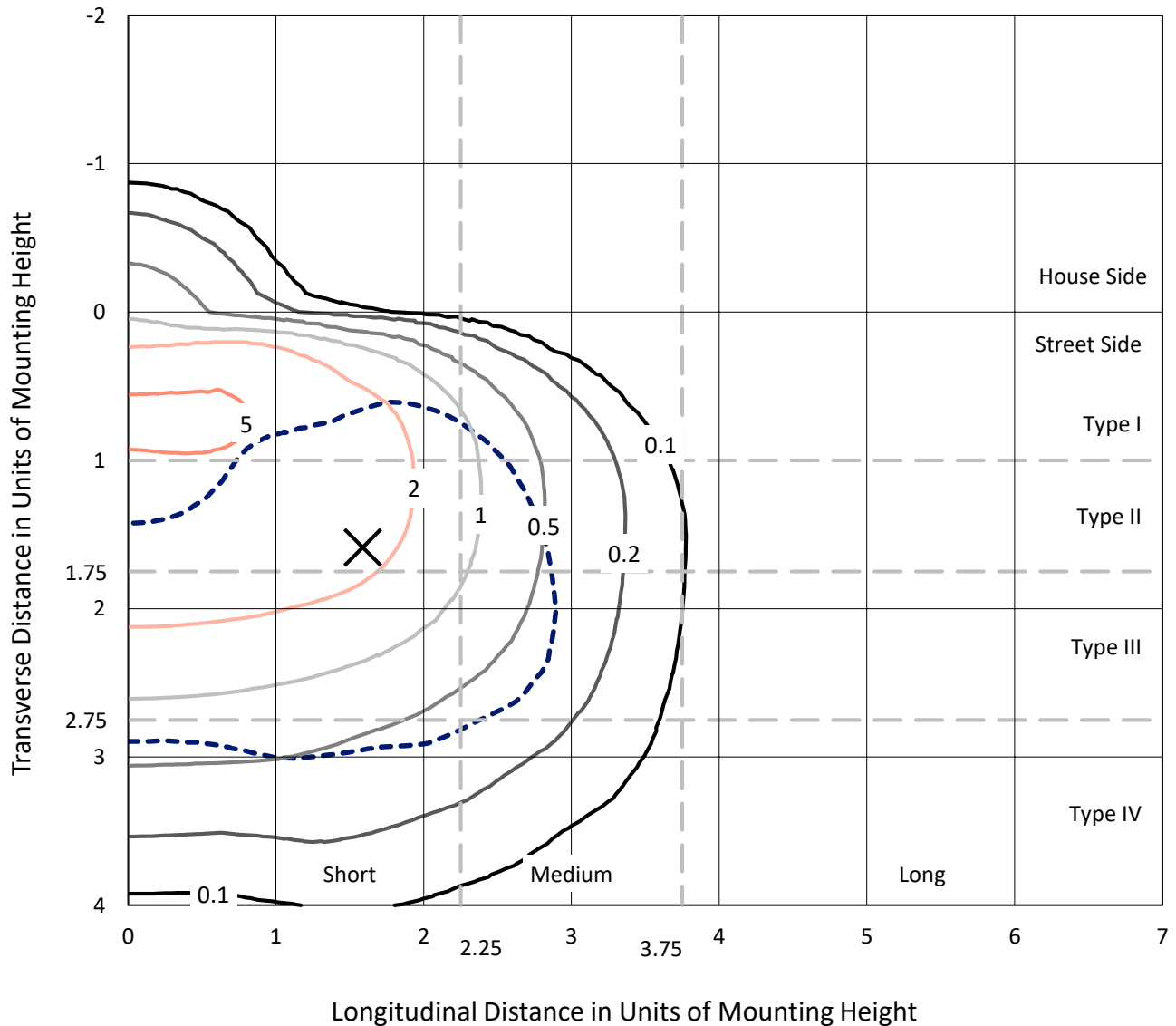
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

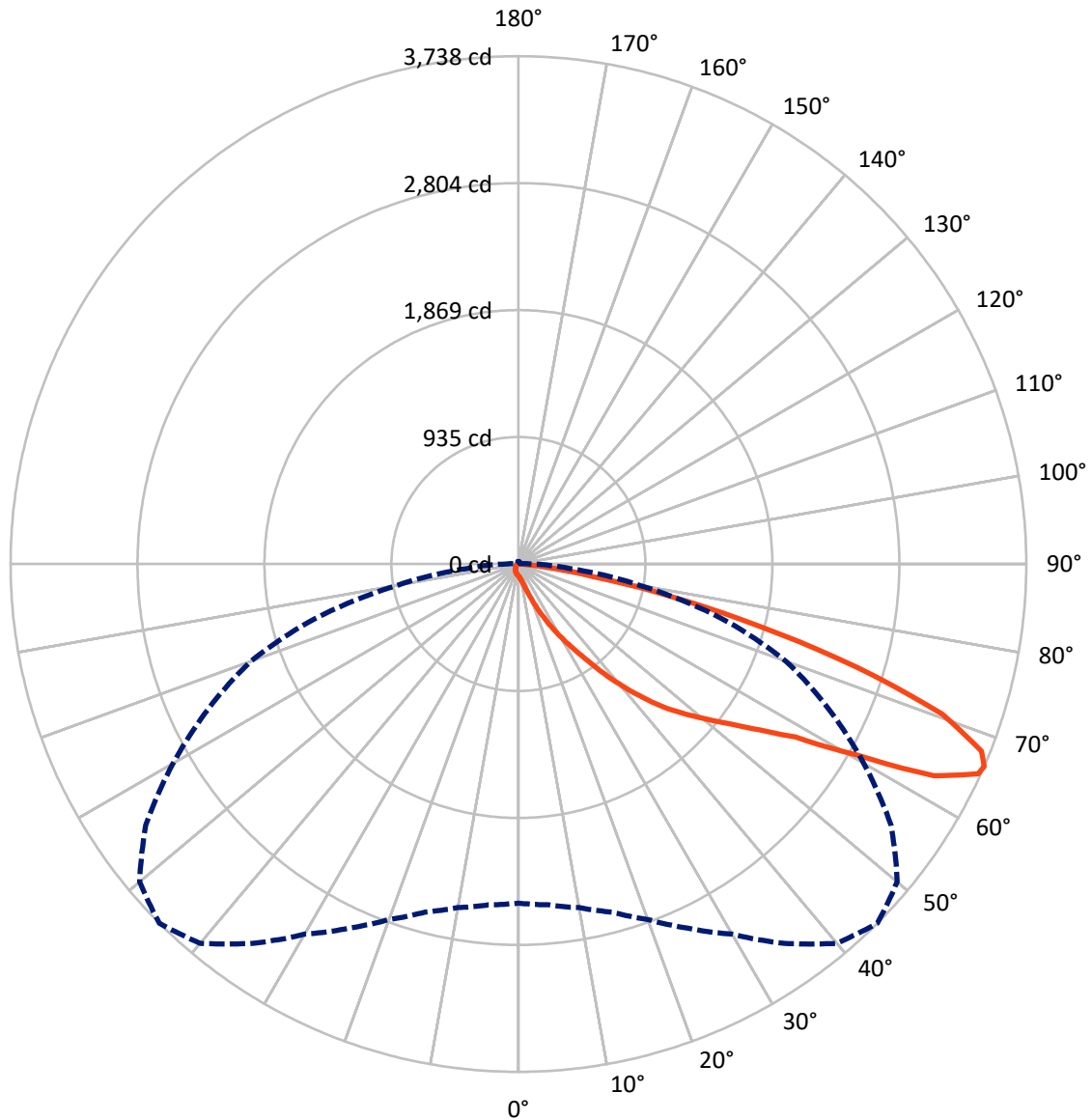
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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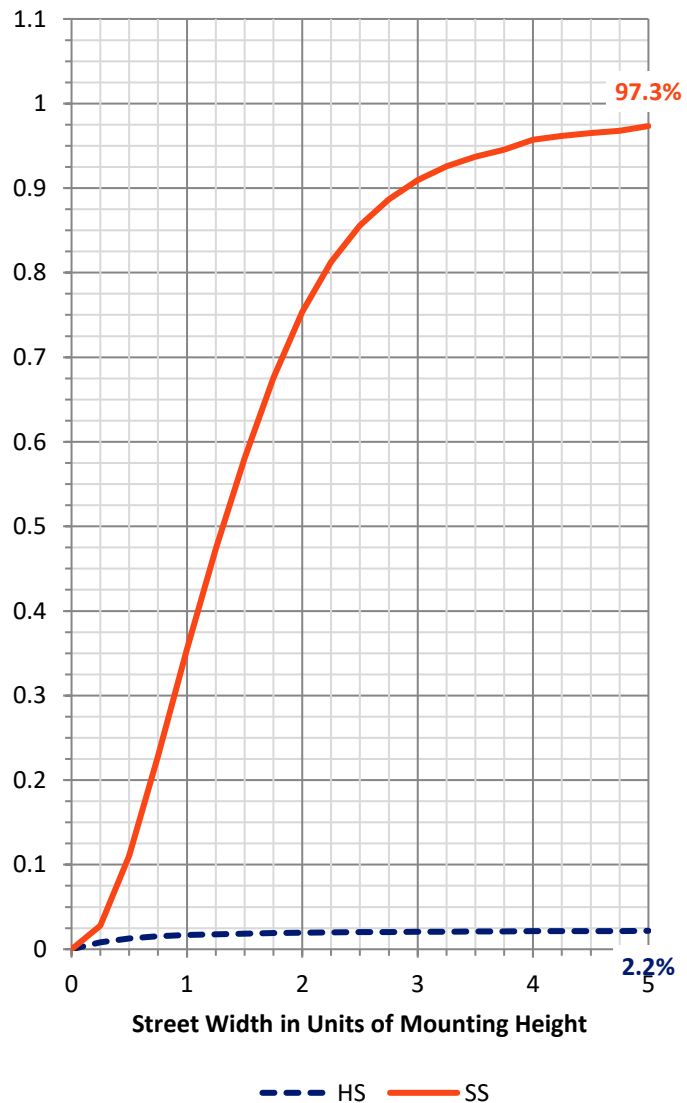
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	80.1	0.0	80.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3452.8	0.0	3452.8
	% Fixture	97.7	0.0	97.7
Total	Lumens	3532.9	0.0	3532.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.3
10°-20°	36.0	1.0
20°-30°	105.5	3.0
30°-40°	246.5	7.0
40°-50°	463.1	13.1
50°-60°	767.5	21.7
60°-70°	1218.3	34.5
70°-80°	630.1	17.8
80°-90°	56.9	1.6
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°	3532.9	100.0
0°-180°	3532.9	100.0



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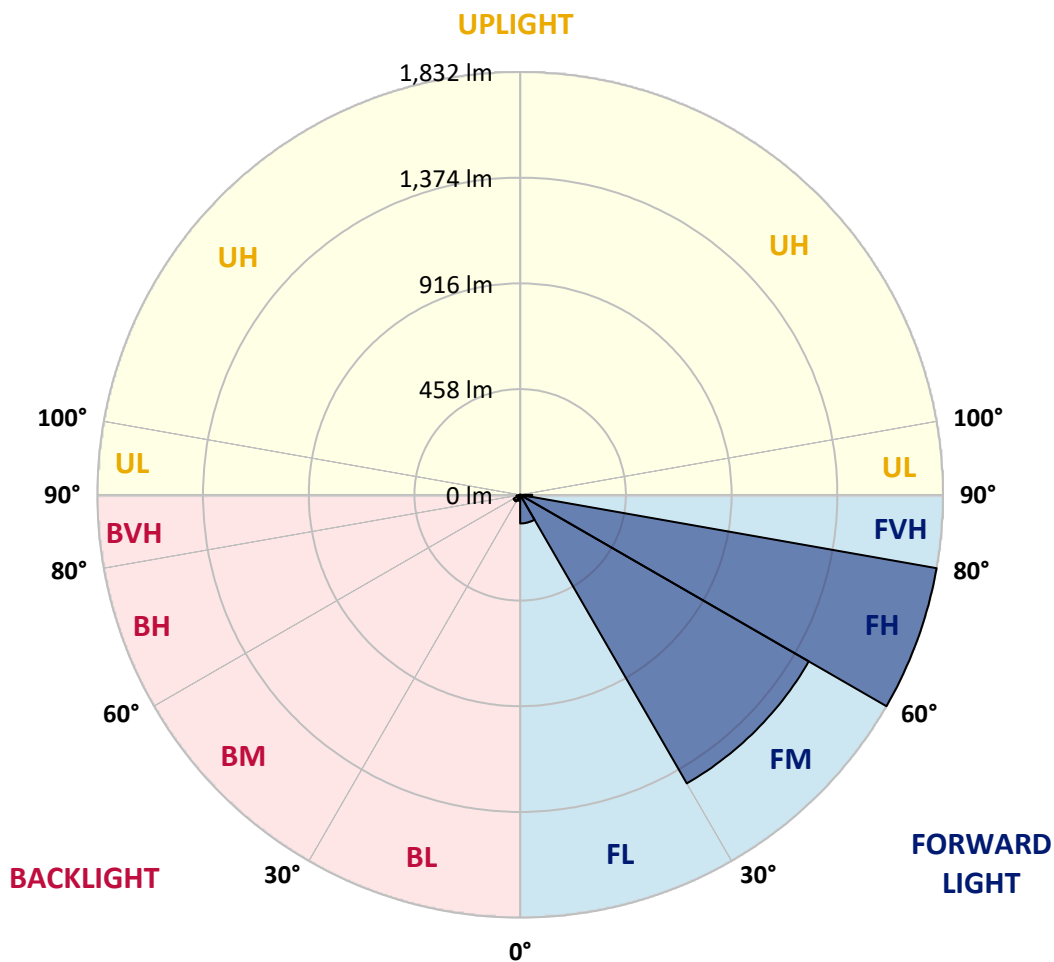
CATALOG NUMBER: AVM-E02-LED-E-U-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.3	3.5			
FM	(30°-60°)	1443.9	40.9			
FH	(60°-80°)	1832.2	51.9			G2/5000
FVH	(80°-90°)	52.4	1.5			G1/100
BL	(0°-30°)	26.1	0.7	B0/110		
BM	(30°-60°)	33.2	0.9	B0/220		
BH	(60°-80°)	16.2	0.5	B0/110		G0/110
BVH	(80°-90°)	4.5	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°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	95.6	95.6	95.6	95.6	95.0	94.4	93.8	93.2	92.6	92.6	91.9
5°	108.4	109.0	108.4	107.8	106.6	105.9	104.1	102.9	101.1	100.5	98.6
7.5°	126.0	125.4	126.0	124.2	121.8	121.2	118.7	115.7	113.3	109.6	107.2
10°	151.6	151.0	151.6	148.0	144.3	141.3	137.0	133.3	127.9	123.6	118.7
12.5°	192.4	192.4	191.2	186.3	181.5	174.8	168.1	160.1	150.4	141.9	134.0
15°	255.1	252.1	246.6	243.6	235.0	224.7	217.4	201.5	187.5	174.1	158.3
17.5°	330.6	324.5	320.3	313.6	302.6	289.2	277.0	253.9	239.9	218.0	195.5
20°	417.1	409.8	408.6	398.2	386.7	372.0	354.4	327.0	303.2	275.8	244.2
22.5°	505.4	506.6	501.7	494.4	482.9	465.8	438.4	413.4	384.2	349.5	308.7
25°	604.0	603.4	599.2	590.6	582.1	560.8	538.9	515.1	480.4	436.0	387.3
27.5°	696.6	696.0	685.6	686.2	669.8	661.9	640.6	615.0	573.0	535.8	482.9
30°	793.4	787.3	780.6	775.7	764.2	750.2	739.2	708.8	677.1	633.3	590.0
32.5°	891.4	884.7	886.6	880.5	871.3	857.3	840.9	815.9	781.8	739.2	699.0
35°	1011.4	1008.3	1003.5	1005.3	1003.5	993.1	979.1	946.2	909.1	868.3	826.9
37.5°	1100.3	1097.2	1100.3	1113.1	1116.1	1122.8	1112.5	1096.0	1069.2	1024.8	981.5
40°	1182.5	1183.1	1197.1	1212.9	1223.9	1245.8	1249.5	1242.8	1221.5	1180.7	1124.0
42.5°	1256.2	1265.3	1278.1	1304.3	1328.0	1359.1	1382.2	1385.9	1370.0	1343.2	1286.0
45°	1338.4	1346.3	1366.4	1397.4	1430.3	1468.7	1505.8	1525.3	1524.1	1505.2	1443.7
47.5°	1430.3	1440.7	1462.6	1488.2	1532.0	1575.2	1623.3	1658.0	1672.6	1646.5	1586.8
50°	1541.7	1546.0	1564.9	1597.8	1637.9	1687.9	1740.2	1790.8	1819.4	1795.0	1733.5
52.5°	1673.9	1675.1	1692.7	1723.2	1755.5	1810.3	1861.4	1931.4	1968.6	1955.2	1881.5
55°	1855.3	1851.7	1863.8	1890.0	1916.2	1969.2	2020.3	2099.5	2153.7	2154.9	2076.3
57.5°	2103.1	2094.6	2102.5	2123.2	2152.5	2201.8	2266.3	2336.4	2408.8	2403.9	2339.4
60°	2448.4	2445.3	2460.0	2494.7	2544.6	2595.7	2668.8	2763.2	2827.1	2849.0	2781.5
62.5°	2677.9	2686.5	2720.0	2773.5	2869.7	2975.7	3111.5	3255.8	3377.6	3432.4	3339.2
65°	2579.3	2593.3	2645.7	2724.8	2852.1	3011.0	3191.2	3428.1	3638.2	3721.6	3624.8
66°	2495.9	2518.4	2567.7	2651.8	2784.5	2958.0	3146.2	3408.0	3644.3	3738.0	3639.4
67.5°	2351.6	2367.4	2423.4	2516.6	2659.1	2830.8	3034.1	3310.6	3577.3	3676.5	3578.5
70°	2057.5	2063.6	2109.2	2188.4	2298.6	2474.6	2659.1	2925.2	3170.5	3310.0	3202.8
72.5°	1531.4	1539.9	1615.4	1759.7	1902.8	2002.7	2111.7	2324.8	2483.1	2613.4	2592.7
75°	736.8	740.4	791.0	1001.6	1280.5	1399.9	1500.9	1666.0	1726.2	1835.2	1818.8
77.5°	467.0	474.9	507.8	559.0	717.3	859.2	938.9	1033.3	1051.0	1142.9	1089.3
80°	128.5	149.2	182.1	267.9	459.7	548.0	583.9	580.3	583.9	555.9	537.7
82.5°	26.2	25.6	31.1	48.1	202.8	319.1	344.6	293.5	291.7	280.7	289.8
85°	6.7	6.1	7.3	15.2	34.7	94.4	118.7	66.4	50.5	48.1	42.6
87.5°	1.8	1.8	1.8	3.0	3.7	4.9	6.7	4.9	3.7	3.7	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°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	91.3	91.3	90.7	90.1	90.1	89.5	88.9	88.3	87.7	87.1	86.5
5°	96.8	95.6	93.8	92.6	91.3	89.5	88.3	87.1	85.9	85.2	84.0
7.5°	104.1	101.1	98.6	95.0	92.6	90.1	87.7	85.9	84.0	82.8	81.6
10°	113.3	108.4	103.5	98.6	94.4	90.7	87.1	84.0	82.2	80.4	79.2
12.5°	124.8	117.5	110.8	103.5	96.8	91.3	86.5	82.8	80.4	78.5	76.7
15°	143.7	132.1	120.6	109.6	101.1	92.6	85.9	81.6	78.5	76.7	74.9
17.5°	173.5	152.8	134.6	119.3	105.3	94.4	85.9	80.4	76.7	74.3	72.5
20°	216.8	182.7	153.4	131.5	113.3	97.4	85.9	78.5	74.9	71.9	70.0
22.5°	267.9	225.3	185.1	148.6	122.4	101.7	85.9	76.7	72.5	70.0	67.6
25°	342.8	286.2	231.4	180.2	137.6	108.4	87.7	75.5	70.6	67.6	65.2
27.5°	430.5	362.3	294.1	222.2	160.7	118.1	90.1	74.3	68.8	65.2	62.7
30°	530.4	454.8	371.4	278.3	191.2	130.9	94.4	73.7	66.4	62.7	59.7
32.5°	638.7	559.0	467.6	350.1	236.3	150.4	99.9	73.1	63.9	59.7	56.0
35°	767.8	693.5	582.1	451.2	306.3	183.9	112.0	74.3	61.5	56.6	52.4
37.5°	909.1	829.9	711.8	558.4	375.7	221.6	121.2	72.5	57.2	52.4	48.1
40°	1051.6	960.8	840.9	671.0	464.0	267.9	132.7	70.6	53.0	48.1	43.8
42.5°	1190.4	1094.8	964.5	786.7	557.1	322.7	147.4	70.6	49.9	43.8	39.6
45°	1335.9	1220.8	1078.4	897.5	649.7	385.4	168.1	70.0	46.3	40.2	35.3
47.5°	1473.5	1337.1	1173.4	994.9	748.9	454.2	191.8	70.6	43.2	36.5	32.3
50°	1603.8	1447.4	1270.8	1082.0	843.9	528.5	221.0	71.2	40.2	33.5	29.2
52.5°	1746.3	1572.8	1375.5	1171.5	937.7	603.4	255.1	72.5	37.1	30.4	26.8
55°	1922.9	1730.5	1504.6	1281.1	1037.0	678.9	288.0	73.7	34.1	28.0	24.4
57.5°	2177.4	1958.2	1714.1	1445.5	1168.5	764.8	322.1	76.7	31.7	26.2	22.5
60°	2591.5	2330.3	2048.3	1731.7	1365.2	881.1	371.4	83.4	28.6	23.7	21.3
62.5°	3089.6	2775.4	2416.7	2032.5	1550.3	959.6	404.3	90.7	26.2	21.9	20.1
65°	3340.4	2944.6	2531.2	2116.5	1574.0	936.5	390.9	88.3	23.1	19.5	17.0
66°	3347.7	2935.5	2515.4	2098.3	1549.7	908.5	378.1	87.1	22.5	18.9	15.8
67.5°	3278.3	2857.0	2431.3	2015.5	1477.8	854.3	355.0	82.8	20.7	17.0	14.0
70°	2935.5	2525.1	2134.8	1750.6	1271.4	719.7	297.8	73.1	18.3	15.2	12.8
72.5°	2340.0	2005.7	1676.9	1377.3	988.2	540.1	235.0	59.7	15.8	13.4	11.0
75°	1634.3	1359.7	1109.4	895.7	621.1	323.3	152.2	42.0	13.4	11.0	9.1
77.5°	912.1	723.4	546.8	416.5	247.8	101.1	50.5	21.3	11.6	8.5	7.3
80°	464.0	344.0	261.8	193.0	114.5	52.4	25.6	14.0	9.1	6.7	6.1
82.5°	269.7	197.9	157.7	124.8	78.5	39.6	20.7	10.4	6.1	4.9	5.5
85°	60.3	79.8	67.6	57.2	42.0	25.0	14.6	6.7	4.3	4.3	4.9
87.5°	4.9	6.7	6.1	7.9	8.5	7.9	6.1	3.7	3.0	3.7	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2.5°	85.9	85.2	85.2	84.6	84.0	84.0	84.0	83.4	84.0	84.0	84.0
5°	83.4	82.8	82.2	81.6	81.0	80.4	80.4	79.8	79.8	79.8	80.4
7.5°	81.0	79.8	79.2	77.9	77.3	76.7	76.7	76.1	76.1	76.1	76.1
10°	77.9	76.7	75.5	74.9	74.3	73.1	73.1	72.5	71.9	71.9	71.9
12.5°	75.5	74.3	73.1	71.9	70.6	70.0	69.4	68.8	68.2	68.2	68.2
15°	73.1	71.2	70.0	68.8	67.6	66.4	65.8	65.2	64.5	63.9	63.9
17.5°	70.6	68.8	67.0	65.8	64.5	63.3	62.7	60.9	60.9	60.3	60.3
20°	67.6	65.8	63.9	62.7	61.5	60.3	59.1	57.8	56.6	56.0	56.0
22.5°	65.2	63.3	61.5	59.7	57.8	56.0	54.8	53.6	53.0	52.4	51.8
25°	62.7	60.3	57.8	56.0	54.2	52.4	51.1	49.9	48.7	48.1	48.1
27.5°	59.7	57.2	54.8	52.4	50.5	48.7	47.5	45.7	45.1	44.4	43.8
30°	56.6	53.6	51.1	48.7	46.9	44.4	43.2	42.0	40.8	40.8	40.2
32.5°	53.0	49.9	47.5	45.1	42.6	40.8	39.6	38.4	37.8	36.5	36.5
35°	49.3	46.3	43.2	40.8	39.0	37.1	35.9	34.7	33.5	32.9	32.9
37.5°	45.1	42.0	39.6	37.1	35.3	33.5	32.3	31.1	30.4	29.8	29.2
40°	40.2	37.1	35.3	33.5	31.7	30.4	28.6	27.4	26.8	26.2	25.6
42.5°	35.9	32.9	31.7	30.4	28.6	27.4	25.6	24.4	23.1	22.5	21.9
45°	32.3	29.8	28.6	27.4	25.6	23.7	22.5	21.3	20.1	19.5	19.5
47.5°	28.6	26.8	25.6	24.4	22.5	21.3	19.5	18.9	17.7	17.7	17.7
50°	26.2	24.4	23.1	21.9	20.7	18.9	17.7	17.0	16.4	16.4	17.0
52.5°	24.4	22.5	21.3	20.1	18.9	17.7	16.4	15.8	15.8	16.4	17.0
55°	22.5	20.7	19.5	18.3	17.0	16.4	15.2	15.2	15.8	16.4	17.0
57.5°	21.3	18.9	17.7	17.0	15.8	15.2	15.2	15.2	15.8	16.4	17.7
60°	19.5	17.0	15.8	15.8	14.6	14.6	14.6	15.2	15.8	17.0	17.7
62.5°	17.0	15.2	14.6	14.6	14.0	14.0	14.6	15.2	16.4	17.0	17.7
65°	14.6	13.4	13.4	13.4	13.4	14.0	14.6	15.2	15.8	17.0	17.7
66°	13.4	12.8	12.8	13.4	13.4	14.0	14.6	15.2	15.8	16.4	17.0
67.5°	12.8	12.2	12.2	12.8	13.4	13.4	14.0	15.2	15.8	16.4	16.4
70°	11.0	11.0	11.0	12.2	12.8	13.4	14.0	14.6	15.2	15.8	16.4
72.5°	9.7	9.7	10.4	11.0	12.2	12.8	13.4	14.0	15.2	15.8	15.8
75°	8.5	8.5	9.7	10.4	11.6	12.2	13.4	14.0	14.6	15.2	15.2
77.5°	7.3	7.9	9.1	10.4	11.0	12.2	12.8	13.4	14.0	14.6	14.6
80°	6.7	7.9	9.1	9.7	10.4	11.0	11.6	12.8	13.4	14.0	14.6
82.5°	6.7	7.3	8.5	9.1	9.7	11.0	11.6	12.2	12.8	13.4	14.0
85°	5.5	6.7	7.3	8.5	9.1	10.4	11.0	11.0	11.6	12.2	12.8
87.5°	4.3	4.9	4.9	6.1	6.7	7.9	9.1	9.1	9.7	10.4	11.0
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):

	165°	170°	175°	180°
0°	88.3	88.3	88.3	88.3
2.5°	84.0	84.6	84.6	84.6
5°	80.4	80.4	80.4	80.4
7.5°	76.1	76.1	76.1	76.1
10°	71.9	71.9	72.5	71.9
12.5°	68.2	67.6	67.6	67.6
15°	63.9	63.9	63.3	63.9
17.5°	59.7	59.7	59.1	59.1
20°	55.4	55.4	55.4	55.4
22.5°	51.8	51.1	51.1	51.1
25°	47.5	47.5	47.5	47.5
27.5°	43.8	43.8	43.8	43.8
30°	40.2	40.2	39.6	39.6
32.5°	36.5	36.5	36.5	36.5
35°	32.9	32.9	32.3	32.3
37.5°	28.6	28.6	28.6	28.6
40°	25.0	25.0	25.0	25.0
42.5°	21.9	21.9	21.3	21.3
45°	18.9	18.9	18.9	18.9
47.5°	17.7	17.7	17.7	17.7
50°	17.0	17.7	17.7	17.7
52.5°	17.7	17.7	17.7	17.7
55°	17.7	18.3	18.3	18.3
57.5°	17.7	18.3	18.3	18.9
60°	18.3	18.9	18.9	18.9
62.5°	18.3	18.9	18.9	18.9
65°	17.7	18.3	18.3	18.3
66°	17.7	17.7	17.7	18.3
67.5°	17.0	17.7	17.7	17.7
70°	16.4	17.0	17.0	17.7
72.5°	16.4	17.0	17.0	17.0
75°	15.8	15.8	16.4	16.4
77.5°	15.2	15.2	15.8	15.8
80°	14.6	15.2	15.2	15.2
82.5°	14.0	14.6	14.6	14.6
85°	12.8	13.4	13.4	13.4
87.5°	11.0	11.0	11.6	11.6
90°	0.0	0.0	0.0	0.0

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