

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: P156283

Luminaire Tested: **AVM-F02-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156283
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-F02-LED-E-U-T4-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2695 lumens
Efficiency: N/A
Efficacy: 49.0 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 - G1

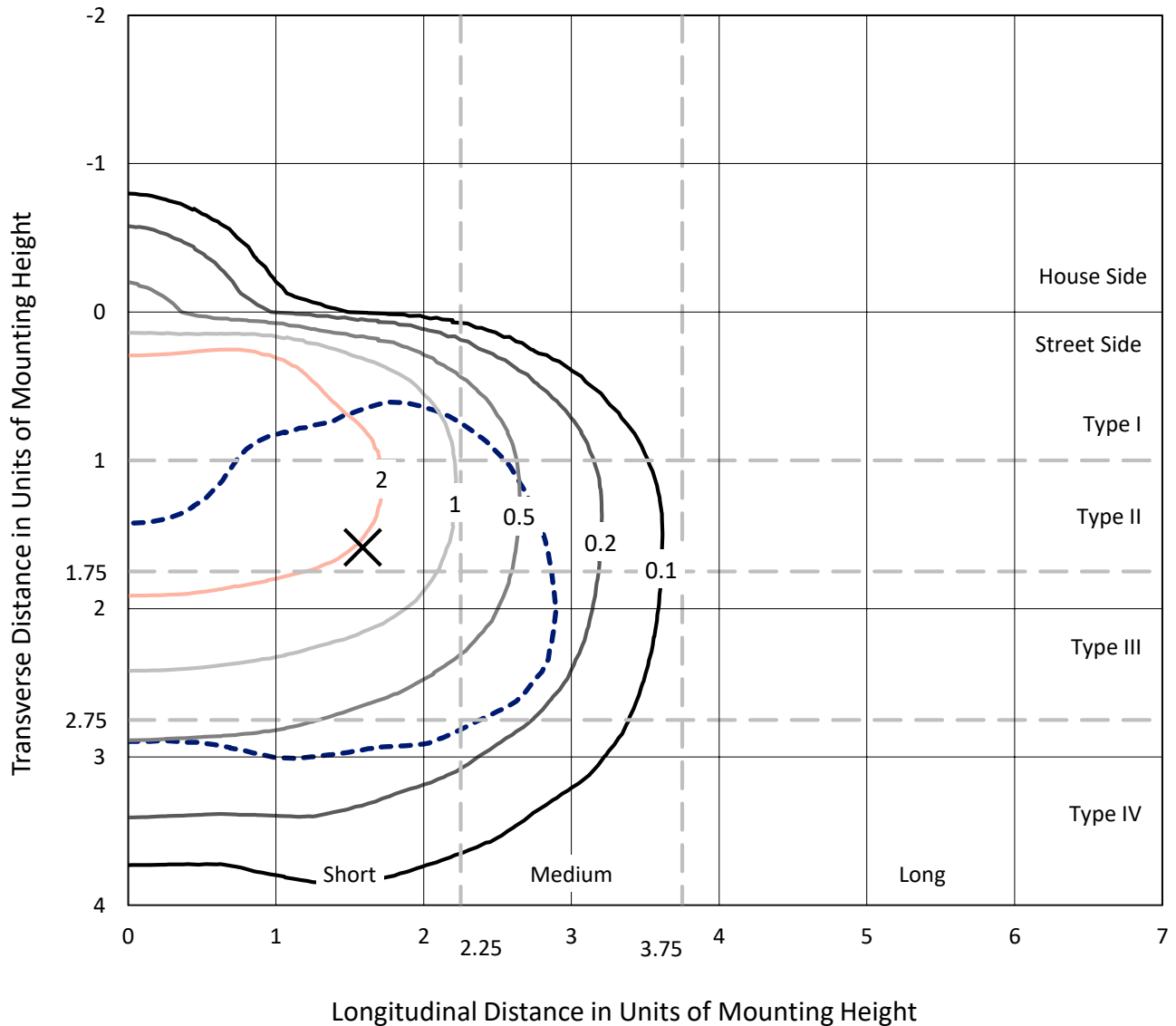
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

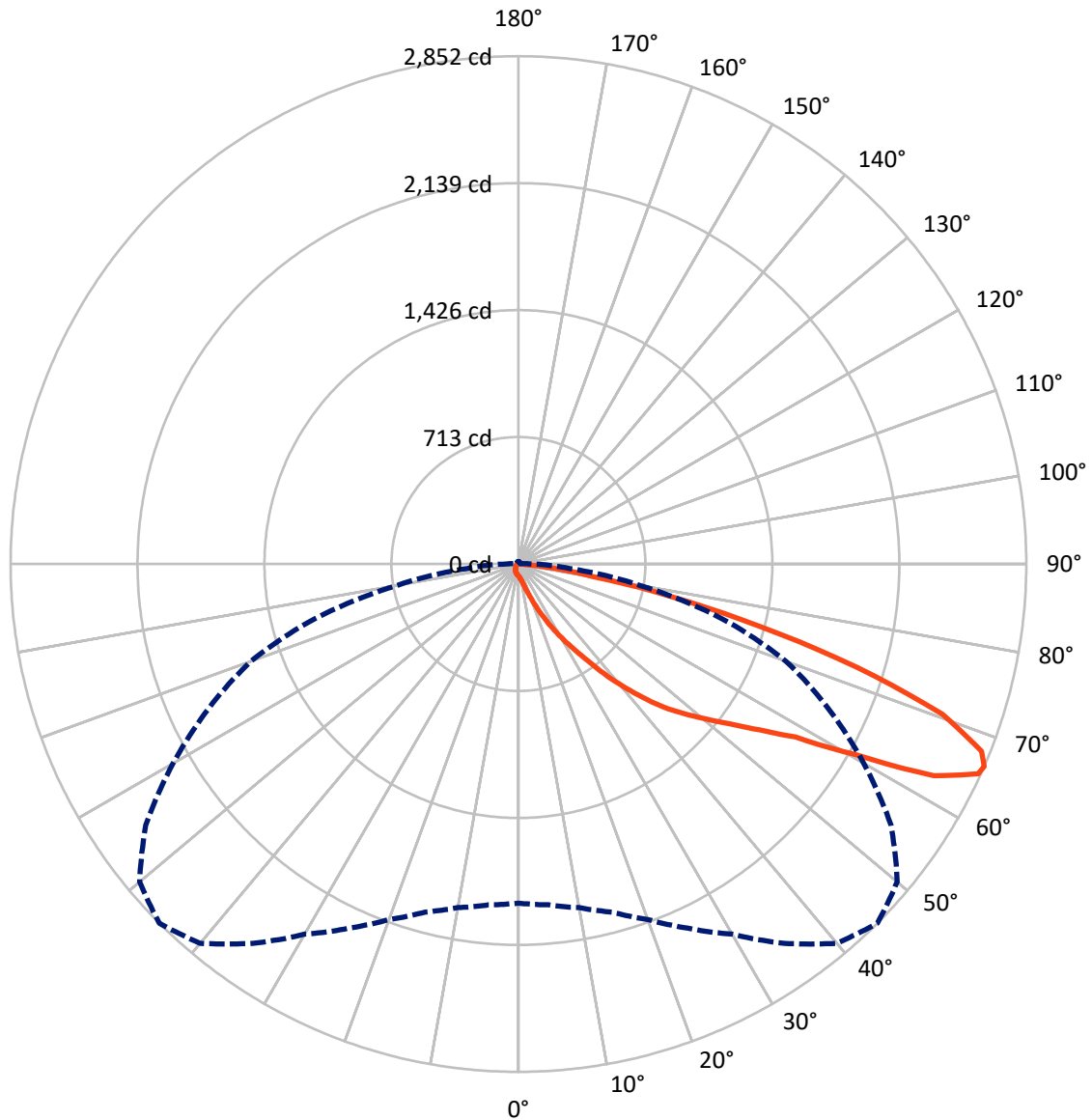
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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	61.1	0.0	61.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	2633.9	0.0	2633.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	2695.0	0.0	2695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.3
10°-20°	27.5	1.0
20°-30°	80.5	3.0
30°-40°	188.1	7.0
40°-50°	353.3	13.1
50°-60°	585.4	21.7
60°-70°	929.4	34.5
70°-80°	480.6	17.8
80°-90°	43.4	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°	2695.0	100.0
0°-180°	2695.0	100.0

Coefficient of Utilization



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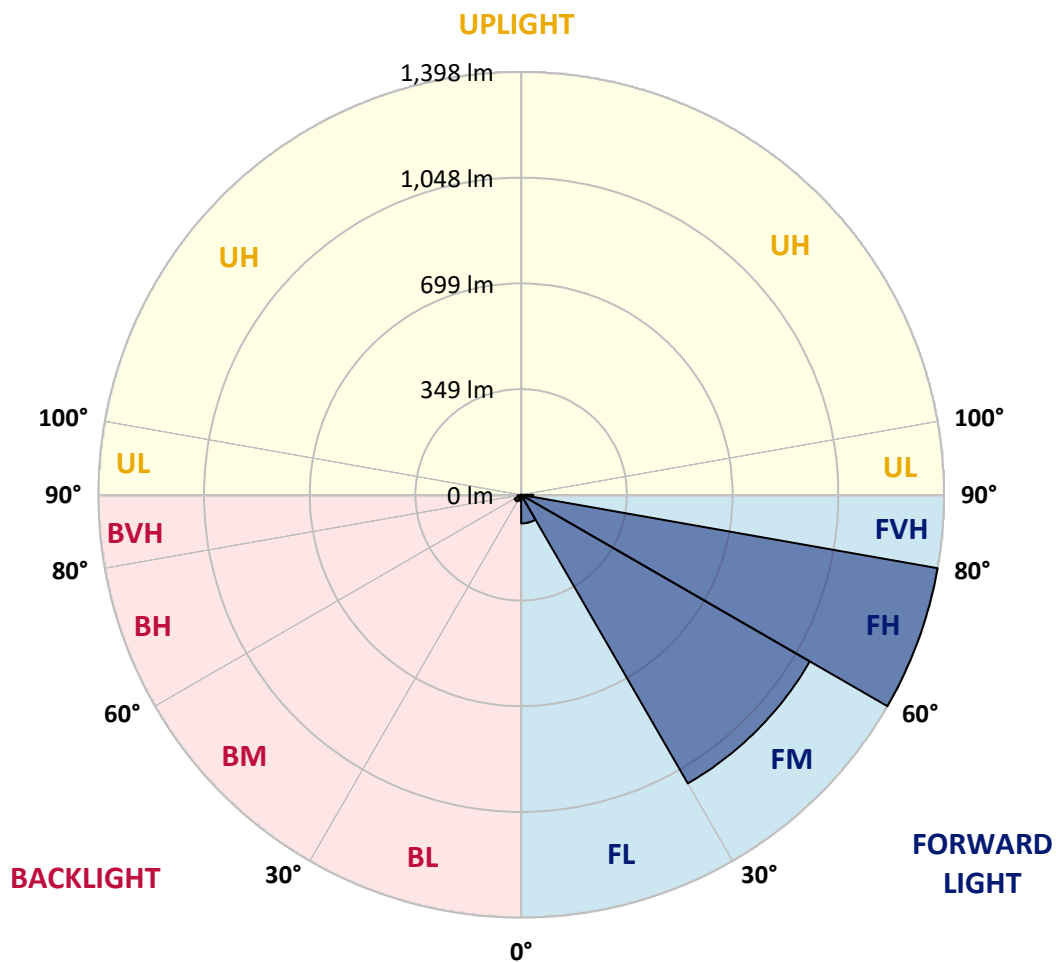
CATALOG NUMBER: AVM-F02-LED-E-U-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	94.8	3.5			
FM	(30°-60°)	1101.5	40.9			
FH	(60°-80°)	1397.7	51.9			G1/1800
FVH	(80°-90°)	40.0	1.5			G1/100
BL	(0°-30°)	19.9	0.7	B0/110		
BM	(30°-60°)	25.3	0.9	B0/220		
BH	(60°-80°)	12.4	0.5	B0/110		G0/110
BVH	(80°-90°)	3.4	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
2.5°	72.9	72.9	72.9	72.9	72.5	72.0	71.5	71.1	70.6	70.6	70.1
5°	82.7	83.1	82.7	82.2	81.3	80.8	79.4	78.5	77.1	76.6	75.2
7.5°	96.1	95.7	96.1	94.8	92.9	92.4	90.6	88.3	86.4	83.6	81.8
10°	115.7	115.2	115.7	112.9	110.1	107.8	104.5	101.7	97.5	94.3	90.6
12.5°	146.8	146.8	145.8	142.1	138.4	133.3	128.2	122.2	114.7	108.2	102.2
15°	194.6	192.3	188.1	185.8	179.3	171.4	165.8	153.7	143.1	132.8	120.8
17.5°	252.2	247.6	244.3	239.2	230.9	220.6	211.3	193.7	183.0	166.3	149.1
20°	318.2	312.6	311.7	303.8	295.0	283.8	270.3	249.4	231.3	210.4	186.3
22.5°	385.5	386.5	382.7	377.2	368.3	355.3	334.4	315.4	293.1	266.6	235.5
25°	460.8	460.3	457.1	450.6	444.1	427.8	411.1	393.0	366.5	332.6	295.4
27.5°	531.4	530.9	523.0	523.5	510.9	504.9	488.6	469.1	437.1	408.8	368.3
30°	605.2	600.6	595.5	591.8	582.9	572.3	563.9	540.7	516.5	483.1	450.1
32.5°	680.0	674.9	676.3	671.7	664.7	654.0	641.5	622.4	596.4	563.9	533.2
35°	771.5	769.2	765.5	766.9	765.5	757.6	746.9	721.8	693.5	662.4	630.8
37.5°	839.3	837.0	839.3	849.1	851.4	856.5	848.6	836.1	815.6	781.7	748.8
40°	902.0	902.5	913.2	925.3	933.6	950.3	953.1	948.0	931.8	900.6	857.4
42.5°	958.2	965.2	975.0	994.9	1013.1	1036.7	1054.4	1057.2	1045.1	1024.7	981.0
45°	1020.9	1027.0	1042.3	1066.0	1091.1	1120.4	1148.7	1163.5	1162.6	1148.2	1101.3
47.5°	1091.1	1099.0	1115.7	1135.2	1168.7	1201.6	1238.3	1264.8	1276.0	1256.0	1210.5
50°	1176.1	1179.3	1193.7	1218.8	1249.5	1287.6	1327.5	1366.1	1387.9	1369.3	1322.4
52.5°	1276.9	1277.8	1291.3	1314.5	1339.1	1380.9	1419.9	1473.4	1501.7	1491.5	1435.3
55°	1415.3	1412.5	1421.8	1441.8	1461.8	1502.2	1541.2	1601.6	1642.9	1643.8	1583.9
57.5°	1604.3	1597.8	1603.9	1619.7	1642.0	1679.6	1728.8	1782.2	1837.5	1833.8	1784.6
60°	1867.7	1865.4	1876.5	1903.0	1941.1	1980.1	2035.9	2107.9	2156.6	2173.4	2121.8
62.5°	2042.8	2049.3	2074.9	2115.8	2189.1	2270.0	2373.5	2483.6	2576.5	2618.3	2547.3
65°	1967.6	1978.3	2018.2	2078.6	2175.7	2296.9	2434.4	2615.1	2775.3	2839.0	2765.1
66°	1903.9	1921.1	1958.8	2022.9	2124.1	2256.5	2400.0	2599.8	2780.0	2851.5	2776.3
67.5°	1793.9	1805.9	1848.7	1919.7	2028.4	2159.4	2314.6	2525.4	2728.9	2804.6	2729.8
70°	1569.5	1574.2	1609.0	1669.4	1753.5	1887.7	2028.4	2231.4	2418.6	2525.0	2443.2
72.5°	1168.2	1174.7	1232.3	1342.4	1451.5	1527.7	1610.9	1773.4	1894.2	1993.6	1977.8
75°	562.0	564.8	603.4	764.1	976.8	1067.9	1145.0	1270.8	1316.8	1400.0	1387.4
77.5°	356.3	362.3	387.4	426.4	547.2	655.4	716.2	788.2	801.7	871.8	831.0
80°	98.0	113.8	138.9	204.4	350.7	418.0	445.4	442.7	445.4	424.1	410.1
82.5°	20.0	19.5	23.7	36.7	154.7	243.4	262.9	223.9	222.5	214.1	221.1
85°	5.1	4.6	5.6	11.6	26.5	72.0	90.6	50.6	38.6	36.7	32.5
87.5°	1.4	1.4	1.4	2.3	2.8	3.7	5.1	3.7	2.8	2.8	2.8
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°	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
2.5°	69.7	69.7	69.2	68.7	68.7	68.3	67.8	67.4	66.9	66.4	66.0
5°	73.9	72.9	71.5	70.6	69.7	68.3	67.4	66.4	65.5	65.0	64.1
7.5°	79.4	77.1	75.2	72.5	70.6	68.7	66.9	65.5	64.1	63.2	62.2
10°	86.4	82.7	79.0	75.2	72.0	69.2	66.4	64.1	62.7	61.3	60.4
12.5°	95.2	89.6	84.5	79.0	73.9	69.7	66.0	63.2	61.3	59.9	58.5
15°	109.6	100.8	92.0	83.6	77.1	70.6	65.5	62.2	59.9	58.5	57.1
17.5°	132.4	116.6	102.7	91.0	80.4	72.0	65.5	61.3	58.5	56.7	55.3
20°	165.4	139.3	117.1	100.3	86.4	74.3	65.5	59.9	57.1	54.8	53.4
22.5°	204.4	171.9	141.2	113.3	93.4	77.6	65.5	58.5	55.3	53.4	51.6
25°	261.5	218.3	176.5	137.5	105.0	82.7	66.9	57.6	53.9	51.6	49.7
27.5°	328.4	276.4	224.3	169.5	122.6	90.1	68.7	56.7	52.5	49.7	47.8
30°	404.6	347.0	283.3	212.3	145.8	99.9	72.0	56.2	50.6	47.8	45.5
32.5°	487.3	426.4	356.7	267.1	180.2	114.7	76.2	55.7	48.8	45.5	42.7
35°	585.7	529.1	444.1	344.2	233.6	140.3	85.5	56.7	46.9	43.2	39.9
37.5°	693.5	633.1	543.0	425.9	286.6	169.1	92.4	55.3	43.7	39.9	36.7
40°	802.2	733.0	641.5	511.9	353.9	204.4	101.3	53.9	40.4	36.7	33.4
42.5°	908.1	835.2	735.8	600.1	425.0	246.2	112.4	53.9	38.1	33.4	30.2
45°	1019.1	931.3	822.6	684.7	495.6	294.0	128.2	53.4	35.3	30.7	26.9
47.5°	1124.1	1020.0	895.1	759.0	571.3	346.5	146.3	53.9	33.0	27.9	24.6
50°	1223.5	1104.1	969.4	825.4	643.8	403.2	168.6	54.3	30.7	25.5	22.3
52.5°	1332.2	1199.8	1049.3	893.7	715.3	460.3	194.6	55.3	28.3	23.2	20.4
55°	1466.9	1320.1	1147.8	977.3	791.0	517.9	219.7	56.2	26.0	21.4	18.6
57.5°	1661.0	1493.8	1307.5	1102.7	891.4	583.4	245.7	58.5	24.2	20.0	17.2
60°	1976.9	1777.6	1562.5	1321.0	1041.4	672.1	283.3	63.6	21.8	18.1	16.3
62.5°	2356.8	2117.1	1843.6	1550.5	1182.6	732.0	308.4	69.2	20.0	16.7	15.3
65°	2548.2	2246.3	1930.9	1614.6	1200.7	714.4	298.2	67.4	17.7	14.9	13.0
66°	2553.8	2239.3	1918.8	1600.6	1182.1	693.0	288.4	66.4	17.2	14.4	12.1
67.5°	2500.8	2179.4	1854.7	1537.5	1127.3	651.7	270.8	63.2	15.8	13.0	10.7
70°	2239.3	1926.2	1628.5	1335.4	969.9	549.0	227.1	55.7	13.9	11.6	9.8
72.5°	1785.0	1530.0	1279.2	1050.7	753.9	412.0	179.3	45.5	12.1	10.2	8.4
75°	1246.7	1037.2	846.3	683.3	473.8	246.6	116.1	32.0	10.2	8.4	7.0
77.5°	695.8	551.8	417.1	317.7	189.0	77.1	38.6	16.3	8.8	6.5	5.6
80°	353.9	262.4	199.7	147.2	87.3	39.9	19.5	10.7	7.0	5.1	4.6
82.5°	205.8	151.0	120.3	95.2	59.9	30.2	15.8	7.9	4.6	3.7	4.2
85°	46.0	60.8	51.6	43.7	32.0	19.0	11.1	5.1	3.3	3.3	3.7
87.5°	3.7	5.1	4.6	6.0	6.5	6.0	4.6	2.8	2.3	2.8	2.8
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°	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
2.5°	65.5	65.0	65.0	64.6	64.1	64.1	64.1	63.6	64.1	64.1	64.1
5°	63.6	63.2	62.7	62.2	61.8	61.3	61.3	60.8	60.8	60.8	61.3
7.5°	61.8	60.8	60.4	59.5	59.0	58.5	58.5	58.1	58.1	58.1	58.1
10°	59.5	58.5	57.6	57.1	56.7	55.7	55.7	55.3	54.8	54.8	54.8
12.5°	57.6	56.7	55.7	54.8	53.9	53.4	53.0	52.5	52.0	52.0	52.0
15°	55.7	54.3	53.4	52.5	51.6	50.6	50.2	49.7	49.2	48.8	48.8
17.5°	53.9	52.5	51.1	50.2	49.2	48.3	47.8	46.4	46.4	46.0	46.0
20°	51.6	50.2	48.8	47.8	46.9	46.0	45.1	44.1	43.2	42.7	42.7
22.5°	49.7	48.3	46.9	45.5	44.1	42.7	41.8	40.9	40.4	39.9	39.5
25°	47.8	46.0	44.1	42.7	41.3	39.9	39.0	38.1	37.2	36.7	36.7
27.5°	45.5	43.7	41.8	39.9	38.6	37.2	36.2	34.8	34.4	33.9	33.4
30°	43.2	40.9	39.0	37.2	35.8	33.9	33.0	32.0	31.1	31.1	30.7
32.5°	40.4	38.1	36.2	34.4	32.5	31.1	30.2	29.3	28.8	27.9	27.9
35°	37.6	35.3	33.0	31.1	29.7	28.3	27.4	26.5	25.5	25.1	25.1
37.5°	34.4	32.0	30.2	28.3	26.9	25.5	24.6	23.7	23.2	22.8	22.3
40°	30.7	28.3	26.9	25.5	24.2	23.2	21.8	20.9	20.4	20.0	19.5
42.5°	27.4	25.1	24.2	23.2	21.8	20.9	19.5	18.6	17.7	17.2	16.7
45°	24.6	22.8	21.8	20.9	19.5	18.1	17.2	16.3	15.3	14.9	14.9
47.5°	21.8	20.4	19.5	18.6	17.2	16.3	14.9	14.4	13.5	13.5	13.5
50°	20.0	18.6	17.7	16.7	15.8	14.4	13.5	13.0	12.5	12.5	13.0
52.5°	18.6	17.2	16.3	15.3	14.4	13.5	12.5	12.1	12.1	12.5	13.0
55°	17.2	15.8	14.9	13.9	13.0	12.5	11.6	11.6	12.1	12.5	13.0
57.5°	16.3	14.4	13.5	13.0	12.1	11.6	11.6	11.6	12.1	12.5	13.5
60°	14.9	13.0	12.1	12.1	11.1	11.1	11.1	11.6	12.1	13.0	13.5
62.5°	13.0	11.6	11.1	11.1	10.7	10.7	11.1	11.6	12.5	13.0	13.5
65°	11.1	10.2	10.2	10.2	10.2	10.7	11.1	11.6	12.1	13.0	13.5
66°	10.2	9.8	9.8	10.2	10.2	10.7	11.1	11.6	12.1	12.5	13.0
67.5°	9.8	9.3	9.3	9.8	10.2	10.2	10.7	11.6	12.1	12.5	12.5
70°	8.4	8.4	8.4	9.3	9.8	10.2	10.7	11.1	11.6	12.1	12.5
72.5°	7.4	7.4	7.9	8.4	9.3	9.8	10.2	10.7	11.6	12.1	12.1
75°	6.5	6.5	7.4	7.9	8.8	9.3	10.2	10.7	11.1	11.6	11.6
77.5°	5.6	6.0	7.0	7.9	8.4	9.3	9.8	10.2	10.7	11.1	11.1
80°	5.1	6.0	7.0	7.4	7.9	8.4	8.8	9.8	10.2	10.7	11.1
82.5°	5.1	5.6	6.5	7.0	7.4	8.4	8.8	9.3	9.8	10.2	10.7
85°	4.2	5.1	5.6	6.5	7.0	7.9	8.4	8.4	8.8	9.3	9.8
87.5°	3.3	3.7	3.7	4.6	5.1	6.0	7.0	7.0	7.4	7.9	8.4
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°	67.4	67.4	67.4	67.4
2.5°	64.1	64.6	64.6	64.6
5°	61.3	61.3	61.3	61.3
7.5°	58.1	58.1	58.1	58.1
10°	54.8	54.8	55.3	54.8
12.5°	52.0	51.6	51.6	51.6
15°	48.8	48.8	48.3	48.8
17.5°	45.5	45.5	45.1	45.1
20°	42.3	42.3	42.3	42.3
22.5°	39.5	39.0	39.0	39.0
25°	36.2	36.2	36.2	36.2
27.5°	33.4	33.4	33.4	33.4
30°	30.7	30.7	30.2	30.2
32.5°	27.9	27.9	27.9	27.9
35°	25.1	25.1	24.6	24.6
37.5°	21.8	21.8	21.8	21.8
40°	19.0	19.0	19.0	19.0
42.5°	16.7	16.7	16.3	16.3
45°	14.4	14.4	14.4	14.4
47.5°	13.5	13.5	13.5	13.5
50°	13.0	13.5	13.5	13.5
52.5°	13.5	13.5	13.5	13.5
55°	13.5	13.9	13.9	13.9
57.5°	13.5	13.9	13.9	14.4
60°	13.9	14.4	14.4	14.4
62.5°	13.9	14.4	14.4	14.4
65°	13.5	13.9	13.9	13.9
66°	13.5	13.5	13.5	13.9
67.5°	13.0	13.5	13.5	13.5
70°	12.5	13.0	13.0	13.5
72.5°	12.5	13.0	13.0	13.0
75°	12.1	12.1	12.5	12.5
77.5°	11.6	11.6	12.1	12.1
80°	11.1	11.6	11.6	11.6
82.5°	10.7	11.1	11.1	11.1
85°	9.8	10.2	10.2	10.2
87.5°	8.4	8.4	8.8	8.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)