

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: P156281

Luminaire Tested: **AVM-E02-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156281
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-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3969 lumens
Efficiency: N/A
Efficacy: 76.2 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

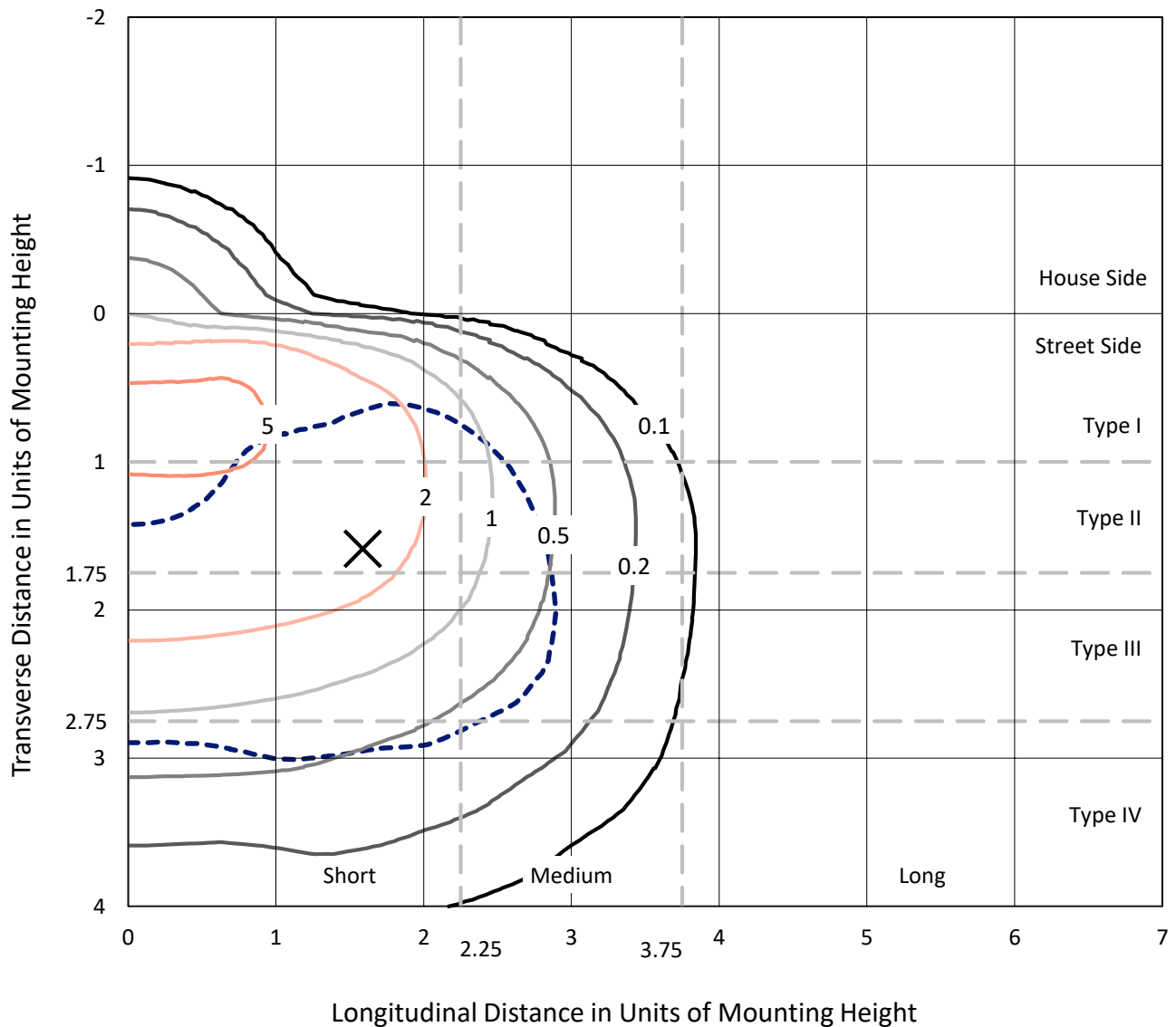
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

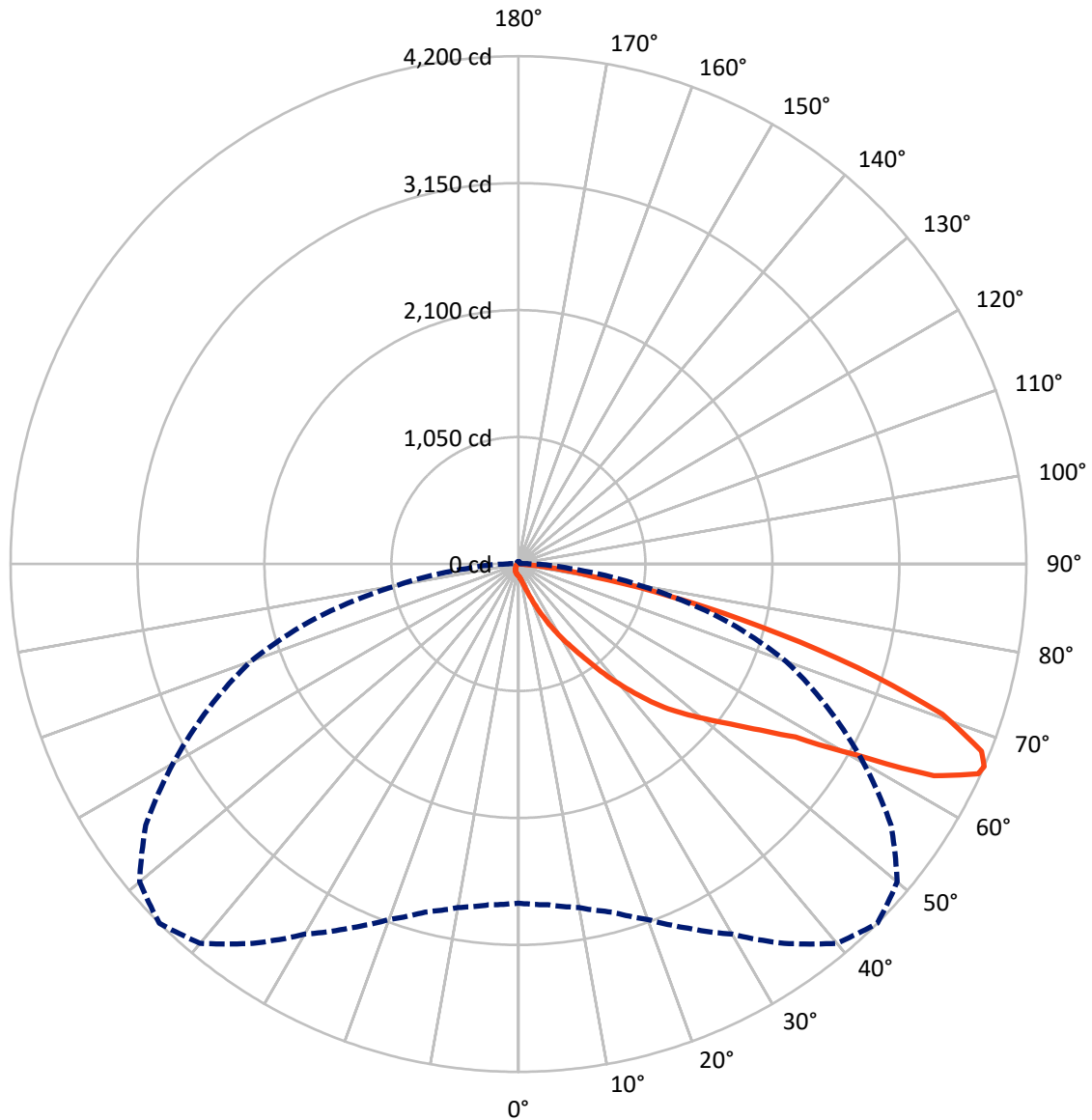
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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	90.0	0.0	90.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3879.1	0.0	3879.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	3969.0	0.0	3969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.3
10°-20°	40.5	1.0
20°-30°	118.6	3.0
30°-40°	277.0	7.0
40°-50°	520.3	13.1
50°-60°	862.2	21.7
60°-70°	1368.7	34.5
70°-80°	707.9	17.8
80°-90°	63.9	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°	3969.0	100.0
0°-180°	3969.0	100.0

Coefficient of Utilization



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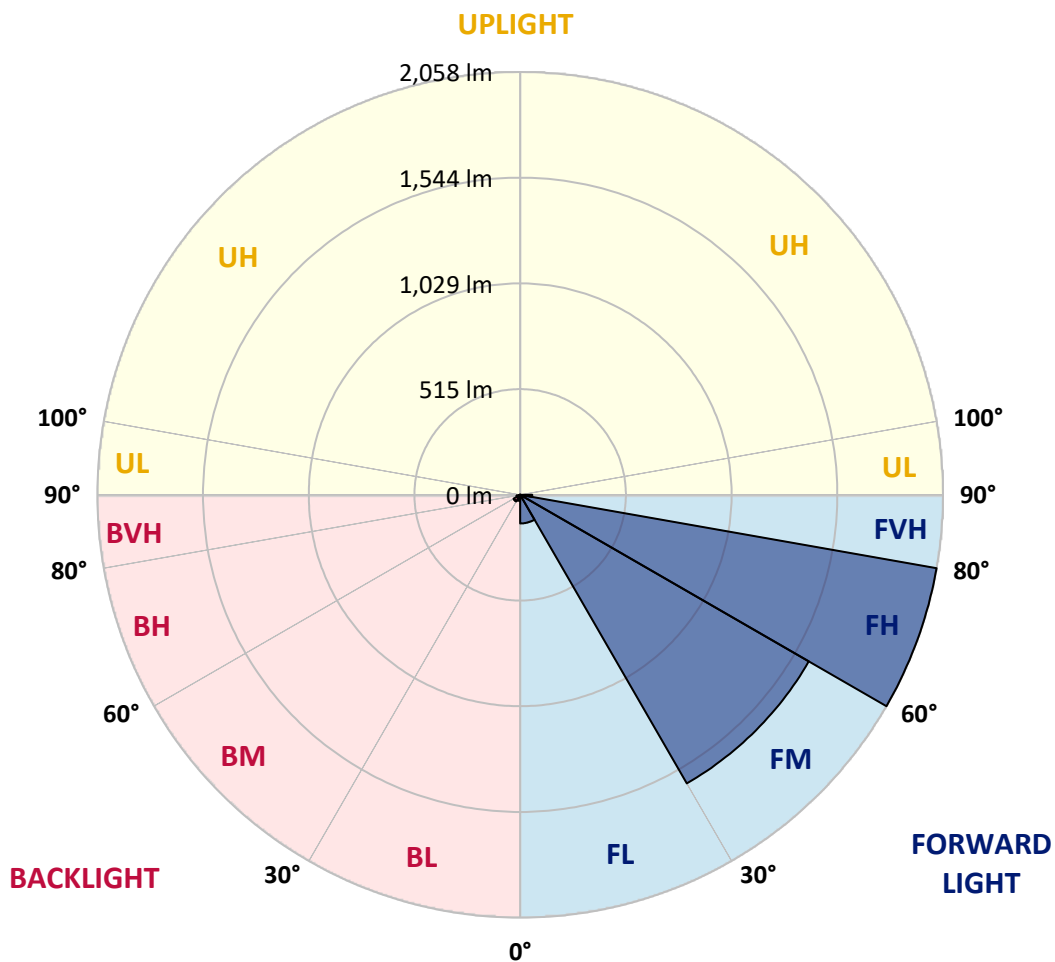
CATALOG NUMBER: AVM-E02-LED-E-U-T4-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.7	3.5			
FM	(30°-60°)	1622.2	40.9			
FH	(60°-80°)	2058.4	51.9			G2/5000
FVH	(80°-90°)	58.9	1.5			G1/100
BL	(0°-30°)	29.4	0.7	B0/110		
BM	(30°-60°)	37.3	0.9	B0/220		
BH	(60°-80°)	18.2	0.5	B0/110		G0/110
BVH	(80°-90°)	5.1	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°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2.5°	107.4	107.4	107.4	107.4	106.7	106.0	105.3	104.7	104.0	104.0	103.3
5°	121.8	122.4	121.8	121.1	119.7	119.0	117.0	115.6	113.6	112.9	110.8
7.5°	141.6	140.9	141.6	139.6	136.8	136.1	133.4	130.0	127.2	123.1	120.4
10°	170.3	169.6	170.3	166.2	162.1	158.7	153.9	149.8	143.7	138.9	133.4
12.5°	216.2	216.2	214.8	209.3	203.9	196.3	188.8	179.9	169.0	159.4	150.5
15°	286.6	283.2	277.0	273.6	264.1	252.4	244.2	226.4	210.7	195.6	177.9
17.5°	371.5	364.6	359.8	352.3	340.0	324.9	311.3	285.3	269.5	244.9	219.6
20°	468.6	460.4	459.0	447.4	434.4	418.0	398.1	367.3	340.7	309.9	274.3
22.5°	567.8	569.1	563.7	555.5	542.5	523.3	492.5	464.5	431.6	392.7	346.8
25°	678.6	677.9	673.1	663.5	654.0	630.0	605.4	578.7	539.7	489.8	435.1
27.5°	782.6	781.9	770.3	770.9	752.5	743.6	719.6	690.9	643.7	602.0	542.5
30°	891.3	884.5	877.0	871.5	858.5	842.8	830.5	796.3	760.7	711.4	662.9
32.5°	1001.5	994.0	996.0	989.2	978.9	963.2	944.7	916.7	878.3	830.5	785.3
35°	1136.2	1132.8	1127.3	1129.4	1127.3	1115.7	1100.0	1063.0	1021.3	975.5	929.0
37.5°	1236.1	1232.7	1236.1	1250.5	1253.9	1261.4	1249.8	1231.3	1201.2	1151.3	1102.7
40°	1328.5	1329.1	1344.9	1362.7	1375.0	1399.6	1403.7	1396.2	1372.2	1326.4	1262.8
42.5°	1411.2	1421.5	1435.9	1465.3	1492.0	1526.8	1552.8	1556.9	1539.2	1509.1	1444.8
45°	1503.6	1512.5	1535.1	1569.9	1606.9	1650.0	1691.7	1713.6	1712.2	1691.0	1621.9
47.5°	1606.9	1618.5	1643.1	1671.9	1721.1	1769.7	1823.7	1862.7	1879.1	1849.7	1782.7
50°	1732.1	1736.9	1758.1	1795.0	1840.1	1896.2	1955.1	2011.9	2044.0	2016.6	1947.5
52.5°	1880.5	1881.9	1901.7	1935.9	1972.2	2033.7	2091.2	2169.9	2211.6	2196.5	2113.8
55°	2084.4	2080.3	2093.9	2123.4	2152.8	2212.3	2269.7	2358.7	2419.6	2420.9	2332.7
57.5°	2362.8	2353.2	2362.1	2385.4	2418.2	2473.6	2546.1	2624.8	2706.2	2700.7	2628.2
60°	2750.6	2747.2	2763.6	2802.6	2858.7	2916.2	2998.3	3104.3	3176.1	3200.8	3124.8
62.5°	3008.5	3018.1	3055.7	3115.9	3224.0	3343.1	3495.6	3657.7	3794.5	3856.1	3751.4
65°	2897.7	2913.5	2972.3	3061.2	3204.2	3382.7	3585.2	3851.3	4087.3	4181.0	4072.3
66°	2804.0	2829.3	2884.7	2979.1	3128.3	3323.2	3534.6	3828.7	4094.2	4199.5	4088.7
67.5°	2641.9	2659.7	2722.6	2827.3	2987.3	3180.2	3408.7	3719.3	4018.9	4130.4	4020.3
70°	2311.5	2318.3	2369.6	2458.5	2582.4	2780.1	2987.3	3286.3	3562.0	3718.6	3598.2
72.5°	1720.4	1730.0	1814.8	1977.0	2137.7	2249.9	2372.4	2611.8	2789.6	2936.0	2912.8
75°	827.7	831.8	888.6	1125.3	1438.6	1572.7	1686.2	1871.6	1939.3	2061.8	2043.3
77.5°	524.7	533.6	570.5	628.0	805.8	965.2	1054.8	1160.9	1180.7	1284.0	1223.8
80°	144.3	167.6	204.5	301.0	516.5	615.7	656.0	651.9	656.0	624.6	604.0
82.5°	29.4	28.7	34.9	54.0	227.8	358.5	387.2	329.7	327.7	315.4	325.6
85°	7.5	6.8	8.2	17.1	39.0	106.0	133.4	74.6	56.8	54.0	47.9
87.5°	2.1	2.1	2.1	3.4	4.1	5.5	7.5	5.5	4.1	4.1	4.1
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°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2.5°	102.6	102.6	101.9	101.2	101.2	100.6	99.9	99.2	98.5	97.8	97.1
5°	108.8	107.4	105.3	104.0	102.6	100.6	99.2	97.8	96.5	95.8	94.4
7.5°	117.0	113.6	110.8	106.7	104.0	101.2	98.5	96.5	94.4	93.0	91.7
10°	127.2	121.8	116.3	110.8	106.0	101.9	97.8	94.4	92.3	90.3	88.9
12.5°	140.2	132.0	124.5	116.3	108.8	102.6	97.1	93.0	90.3	88.2	86.2
15°	161.4	148.4	135.4	123.1	113.6	104.0	96.5	91.7	88.2	86.2	84.1
17.5°	195.0	171.7	151.2	134.1	118.3	106.0	96.5	90.3	86.2	83.5	81.4
20°	243.5	205.2	172.4	147.8	127.2	109.5	96.5	88.2	84.1	80.7	78.7
22.5°	301.0	253.1	208.0	166.9	137.5	114.2	96.5	86.2	81.4	78.7	75.9
25°	385.1	321.5	259.9	202.5	154.6	121.8	98.5	84.8	79.4	75.9	73.2
27.5°	483.6	407.0	330.4	249.7	180.6	132.7	101.2	83.5	77.3	73.2	70.5
30°	595.8	511.0	417.3	312.6	214.8	147.1	106.0	82.8	74.6	70.5	67.0
32.5°	717.6	628.0	525.4	393.3	265.4	169.0	112.2	82.1	71.8	67.0	62.9
35°	862.6	779.2	654.0	506.9	344.1	206.6	125.9	83.5	69.1	63.6	58.8
37.5°	1021.3	932.4	799.7	627.3	422.1	249.0	136.1	81.4	64.3	58.8	54.0
40°	1181.4	1079.5	944.7	753.8	521.3	301.0	149.1	79.4	59.5	54.0	49.3
42.5°	1337.4	1230.0	1083.6	883.8	625.9	362.6	165.5	79.4	56.1	49.3	44.5
45°	1500.9	1371.6	1211.5	1008.3	729.9	433.0	188.8	78.7	52.0	45.1	39.7
47.5°	1655.5	1502.2	1318.2	1117.8	841.4	510.3	215.5	79.4	48.6	41.0	36.3
50°	1801.8	1626.0	1427.7	1215.6	948.1	593.8	248.3	80.0	45.1	37.6	32.8
52.5°	1961.9	1767.0	1545.3	1316.2	1053.5	677.9	286.6	81.4	41.7	34.2	30.1
55°	2160.3	1944.1	1690.3	1439.3	1165.0	762.7	323.6	82.8	38.3	31.5	27.4
57.5°	2446.2	2200.0	1925.7	1624.0	1312.7	859.2	361.9	86.2	35.6	29.4	25.3
60°	2911.4	2617.9	2301.2	1945.5	1533.7	989.8	417.3	93.7	32.2	26.7	23.9
62.5°	3471.0	3118.0	2715.1	2283.4	1741.6	1078.1	454.2	101.9	29.4	24.6	22.6
65°	3752.8	3308.2	2843.7	2377.8	1768.3	1052.1	439.2	99.2	26.0	21.9	19.2
66°	3761.0	3297.9	2825.9	2357.3	1741.0	1020.6	424.8	97.8	25.3	21.2	17.8
67.5°	3683.0	3209.7	2731.5	2264.3	1660.2	959.8	398.8	93.0	23.3	19.2	15.7
70°	3297.9	2836.8	2398.4	1966.7	1428.3	808.6	334.5	82.1	20.5	17.1	14.4
72.5°	2628.9	2253.3	1883.9	1547.4	1110.2	606.8	264.1	67.0	17.8	15.0	12.3
75°	1836.0	1527.5	1246.4	1006.3	697.8	363.2	171.0	47.2	15.0	12.3	10.3
77.5°	1024.7	812.7	614.3	467.9	278.4	113.6	56.8	23.9	13.0	9.6	8.2
80°	521.3	386.5	294.2	216.9	128.6	58.8	28.7	15.7	10.3	7.5	6.8
82.5°	303.0	222.3	177.2	140.2	88.2	44.5	23.3	11.6	6.8	5.5	6.2
85°	67.7	89.6	75.9	64.3	47.2	28.0	16.4	7.5	4.8	4.8	5.5
87.5°	5.5	7.5	6.8	8.9	9.6	8.9	6.8	4.1	3.4	4.1	4.1
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°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2.5°	96.5	95.8	95.8	95.1	94.4	94.4	94.4	93.7	94.4	94.4	94.4
5°	93.7	93.0	92.3	91.7	91.0	90.3	90.3	89.6	89.6	89.6	90.3
7.5°	91.0	89.6	88.9	87.6	86.9	86.2	86.2	85.5	85.5	85.5	85.5
10°	87.6	86.2	84.8	84.1	83.5	82.1	82.1	81.4	80.7	80.7	80.7
12.5°	84.8	83.5	82.1	80.7	79.4	78.7	78.0	77.3	76.6	76.6	76.6
15°	82.1	80.0	78.7	77.3	75.9	74.6	73.9	73.2	72.5	71.8	71.8
17.5°	79.4	77.3	75.2	73.9	72.5	71.1	70.5	68.4	68.4	67.7	67.7
20°	75.9	73.9	71.8	70.5	69.1	67.7	66.4	65.0	63.6	62.9	62.9
22.5°	73.2	71.1	69.1	67.0	65.0	62.9	61.6	60.2	59.5	58.8	58.1
25°	70.5	67.7	65.0	62.9	60.9	58.8	57.5	56.1	54.7	54.0	54.0
27.5°	67.0	64.3	61.6	58.8	56.8	54.7	53.4	51.3	50.6	49.9	49.3
30°	63.6	60.2	57.5	54.7	52.7	49.9	48.6	47.2	45.8	45.8	45.1
32.5°	59.5	56.1	53.4	50.6	47.9	45.8	44.5	43.1	42.4	41.0	41.0
35°	55.4	52.0	48.6	45.8	43.8	41.7	40.4	39.0	37.6	36.9	36.9
37.5°	50.6	47.2	44.5	41.7	39.7	37.6	36.3	34.9	34.2	33.5	32.8
40°	45.1	41.7	39.7	37.6	35.6	34.2	32.2	30.8	30.1	29.4	28.7
42.5°	40.4	36.9	35.6	34.2	32.2	30.8	28.7	27.4	26.0	25.3	24.6
45°	36.3	33.5	32.2	30.8	28.7	26.7	25.3	23.9	22.6	21.9	21.9
47.5°	32.2	30.1	28.7	27.4	25.3	23.9	21.9	21.2	19.8	19.8	19.8
50°	29.4	27.4	26.0	24.6	23.3	21.2	19.8	19.2	18.5	18.5	19.2
52.5°	27.4	25.3	23.9	22.6	21.2	19.8	18.5	17.8	17.8	18.5	19.2
55°	25.3	23.3	21.9	20.5	19.2	18.5	17.1	17.1	17.8	18.5	19.2
57.5°	23.9	21.2	19.8	19.2	17.8	17.1	17.1	17.1	17.8	18.5	19.8
60°	21.9	19.2	17.8	17.8	16.4	16.4	16.4	17.1	17.8	19.2	19.8
62.5°	19.2	17.1	16.4	16.4	15.7	15.7	16.4	17.1	18.5	19.2	19.8
65°	16.4	15.0	15.0	15.0	15.0	15.7	16.4	17.1	17.8	19.2	19.8
66°	15.0	14.4	14.4	15.0	15.0	15.7	16.4	17.1	17.8	18.5	19.2
67.5°	14.4	13.7	13.7	14.4	15.0	15.0	15.7	17.1	17.8	18.5	18.5
70°	12.3	12.3	12.3	13.7	14.4	15.0	15.7	16.4	17.1	17.8	18.5
72.5°	10.9	10.9	11.6	12.3	13.7	14.4	15.0	15.7	17.1	17.8	17.8
75°	9.6	9.6	10.9	11.6	13.0	13.7	15.0	15.7	16.4	17.1	17.1
77.5°	8.2	8.9	10.3	11.6	12.3	13.7	14.4	15.0	15.7	16.4	16.4
80°	7.5	8.9	10.3	10.9	11.6	12.3	13.0	14.4	15.0	15.7	16.4
82.5°	7.5	8.2	9.6	10.3	10.9	12.3	13.0	13.7	14.4	15.0	15.7
85°	6.2	7.5	8.2	9.6	10.3	11.6	12.3	12.3	13.0	13.7	14.4
87.5°	4.8	5.5	5.5	6.8	7.5	8.9	10.3	10.3	10.9	11.6	12.3
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°	99.2	99.2	99.2	99.2
2.5°	94.4	95.1	95.1	95.1
5°	90.3	90.3	90.3	90.3
7.5°	85.5	85.5	85.5	85.5
10°	80.7	80.7	81.4	80.7
12.5°	76.6	75.9	75.9	75.9
15°	71.8	71.8	71.1	71.8
17.5°	67.0	67.0	66.4	66.4
20°	62.3	62.3	62.3	62.3
22.5°	58.1	57.5	57.5	57.5
25°	53.4	53.4	53.4	53.4
27.5°	49.3	49.3	49.3	49.3
30°	45.1	45.1	44.5	44.5
32.5°	41.0	41.0	41.0	41.0
35°	36.9	36.9	36.3	36.3
37.5°	32.2	32.2	32.2	32.2
40°	28.0	28.0	28.0	28.0
42.5°	24.6	24.6	23.9	23.9
45°	21.2	21.2	21.2	21.2
47.5°	19.8	19.8	19.8	19.8
50°	19.2	19.8	19.8	19.8
52.5°	19.8	19.8	19.8	19.8
55°	19.8	20.5	20.5	20.5
57.5°	19.8	20.5	20.5	21.2
60°	20.5	21.2	21.2	21.2
62.5°	20.5	21.2	21.2	21.2
65°	19.8	20.5	20.5	20.5
66°	19.8	19.8	19.8	20.5
67.5°	19.2	19.8	19.8	19.8
70°	18.5	19.2	19.2	19.8
72.5°	18.5	19.2	19.2	19.2
75°	17.8	17.8	18.5	18.5
77.5°	17.1	17.1	17.8	17.8
80°	16.4	17.1	17.1	17.1
82.5°	15.7	16.4	16.4	16.4
85°	14.4	15.0	15.0	15.0
87.5°	12.3	12.3	13.0	13.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)