

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: P156293

Luminaire Tested: **AVM-F03-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156293
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-F03-LED-E-U-T4-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4042.5 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

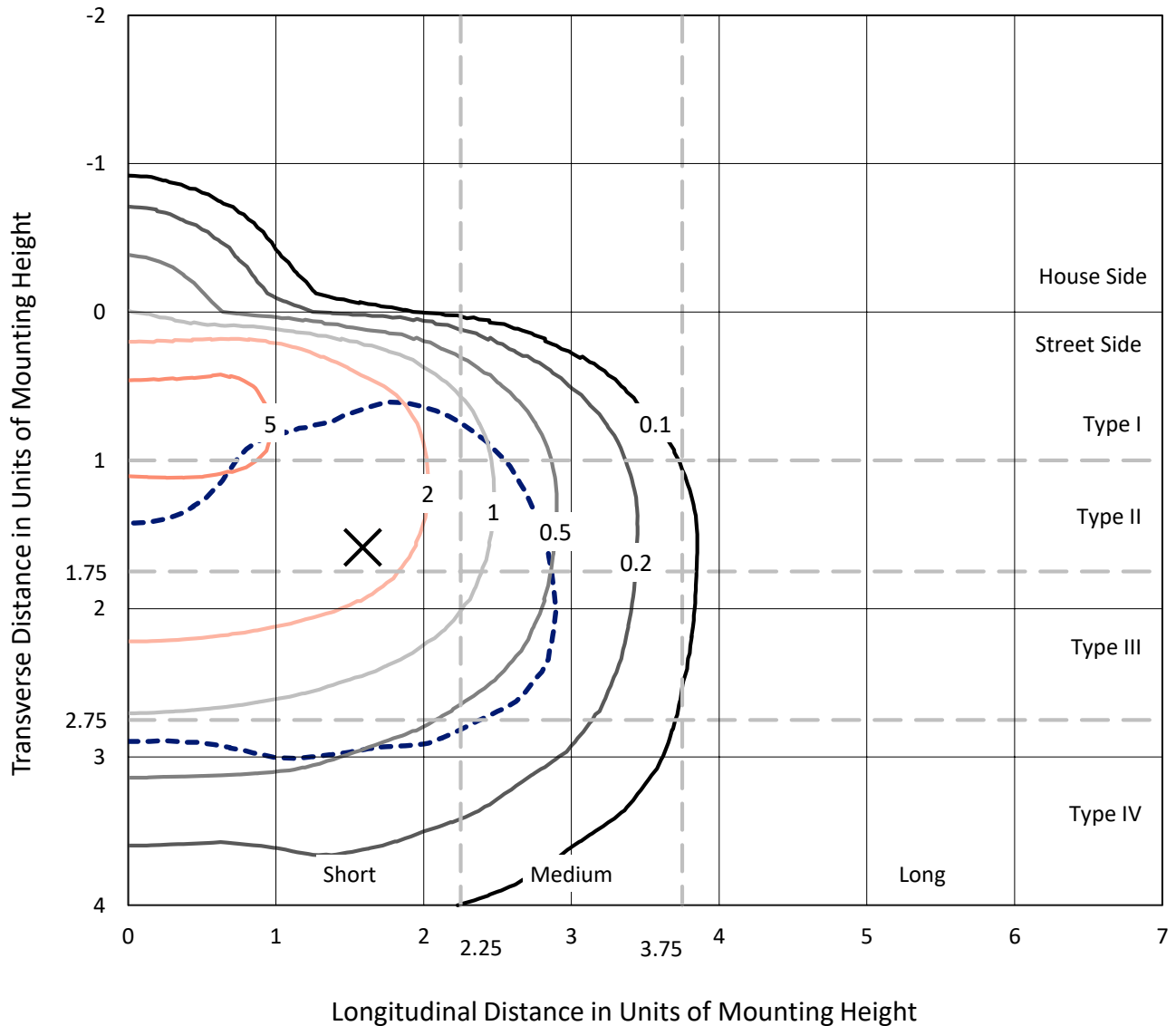
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

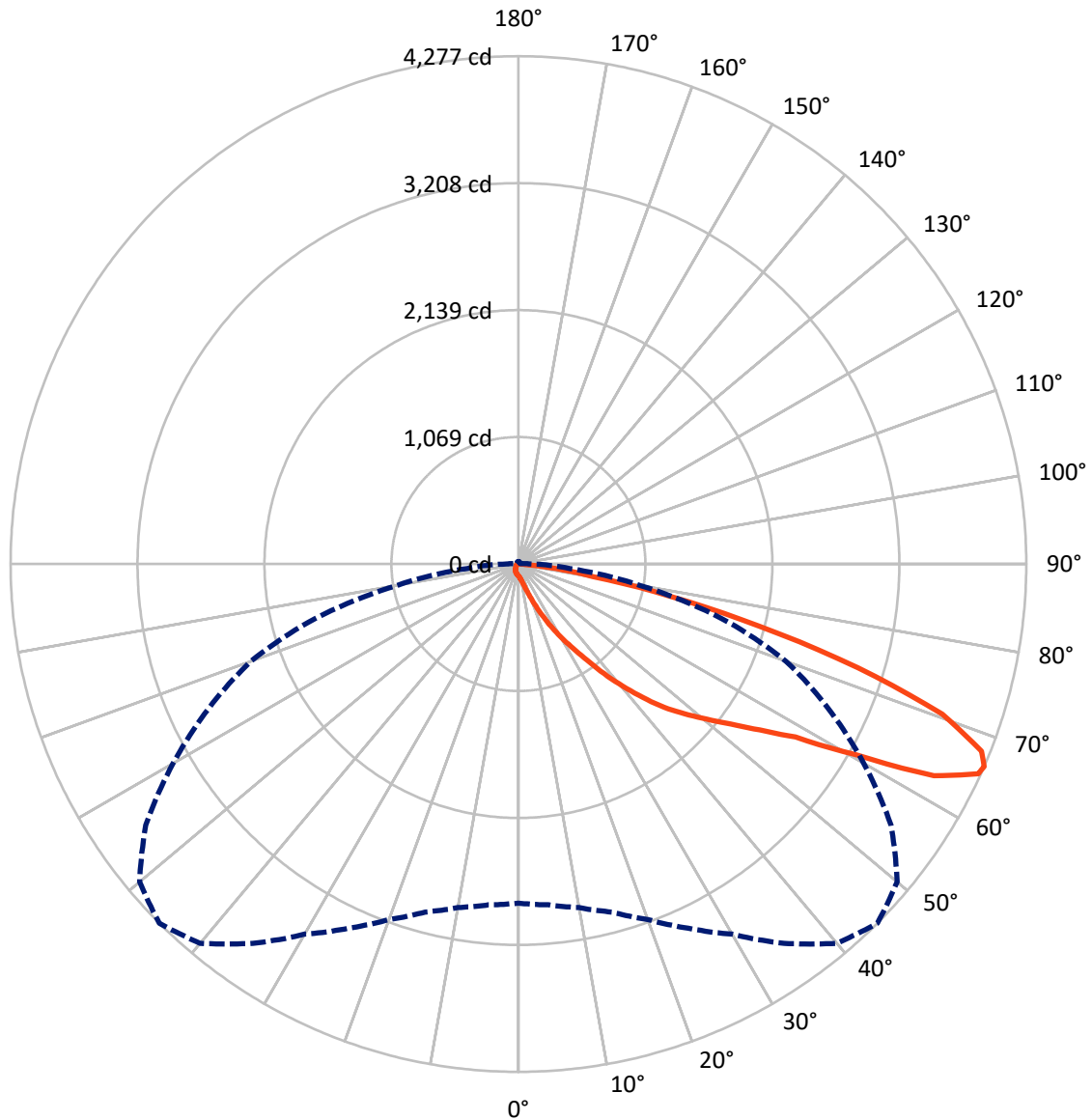
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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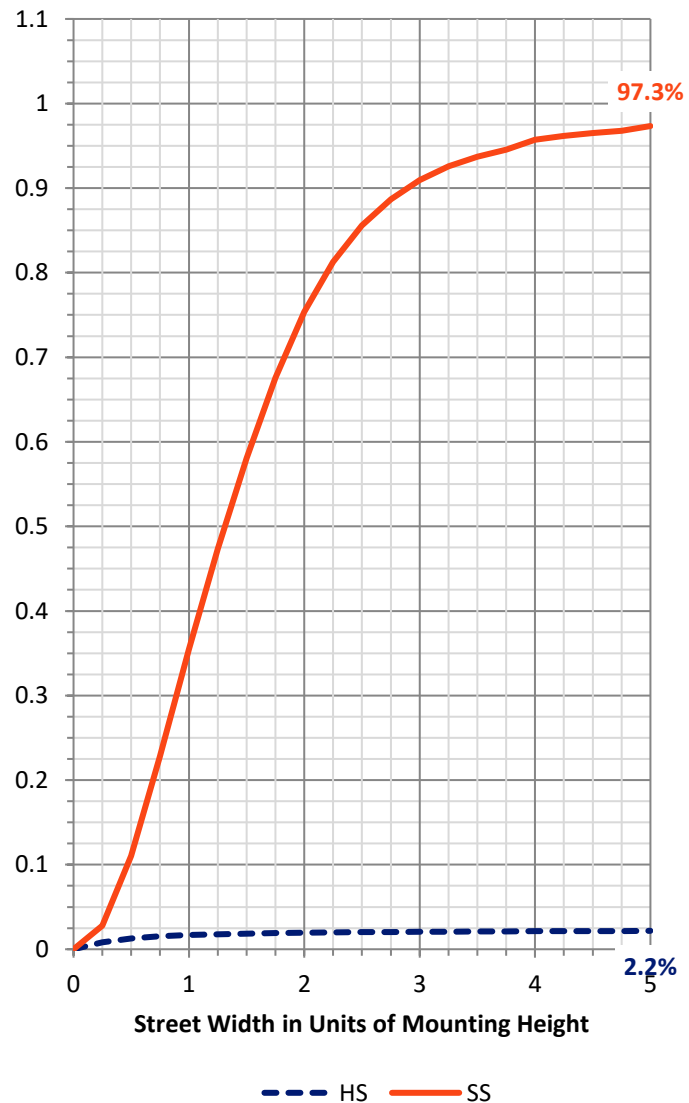
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.6	0.0	91.6
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3950.9	0.0	3950.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	4042.5	0.0	4042.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.3
10°-20°	41.2	1.0
20°-30°	120.8	3.0
30°-40°	282.1	7.0
40°-50°	529.9	13.1
50°-60°	878.2	21.7
60°-70°	1394.1	34.5
70°-80°	721.0	17.8
80°-90°	65.1	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°	4042.5	100.0
0°-180°	4042.5	100.0



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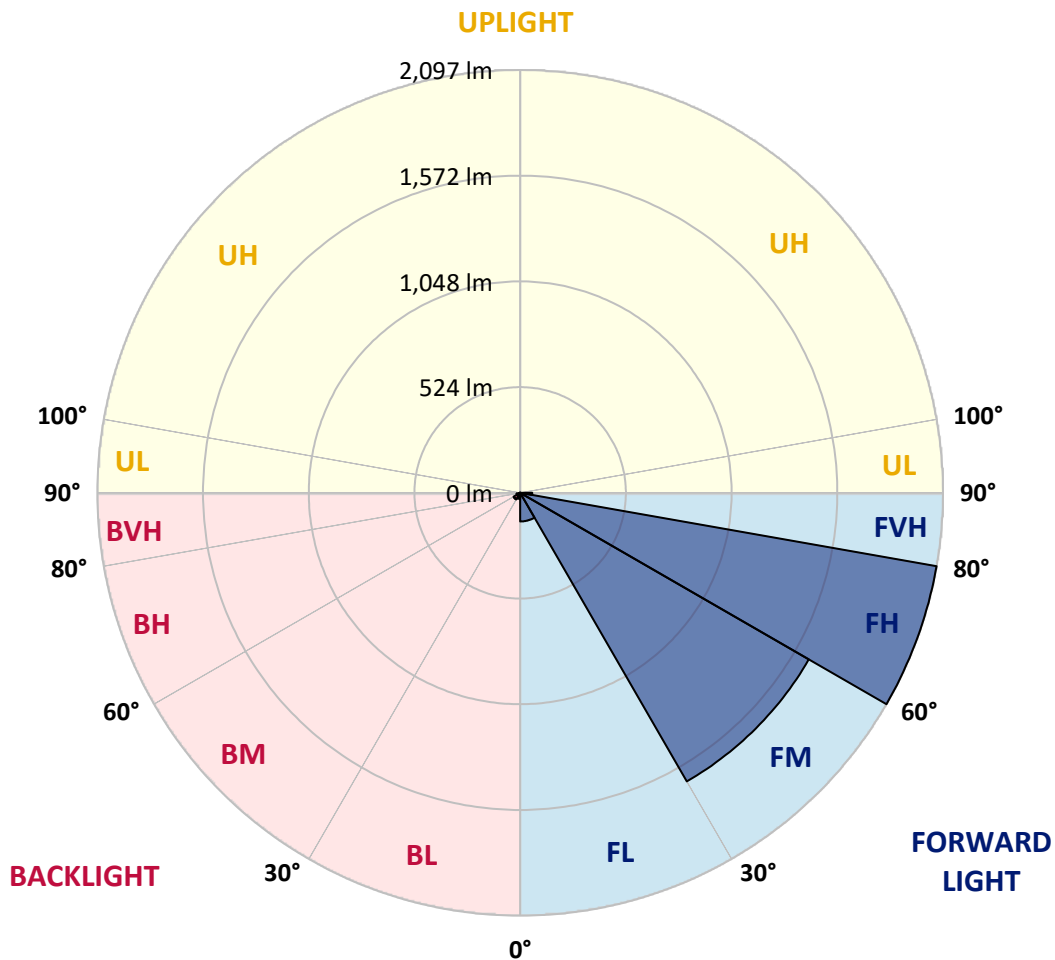
CATALOG NUMBER: AVM-F03-LED-E-U-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.2	3.5			
FM	(30°-60°)	1652.2	40.9			
FH	(60°-80°)	2096.5	51.9			G2/5000
FVH	(80°-90°)	60.0	1.5			G1/100
BL	(0°-30°)	29.9	0.7	B0/110		
BM	(30°-60°)	38.0	0.9	B0/220		
BH	(60°-80°)	18.5	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°	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
2.5°	109.4	109.4	109.4	109.4	108.7	108.0	107.3	106.6	105.9	105.9	105.2
5°	124.0	124.7	124.0	123.3	121.9	121.2	119.1	117.7	115.7	115.0	112.9
7.5°	144.2	143.5	144.2	142.1	139.3	138.7	135.9	132.4	129.6	125.4	122.6
10°	173.5	172.8	173.5	169.3	165.1	161.6	156.8	152.6	146.3	141.4	135.9
12.5°	220.2	220.2	218.8	213.2	207.6	200.0	192.3	183.2	172.1	162.3	153.3
15°	291.9	288.4	282.2	278.7	268.9	257.1	248.7	230.6	214.6	199.3	181.2
17.5°	378.3	371.4	366.5	358.8	346.3	330.9	317.0	290.5	274.5	249.4	223.7
20°	477.3	468.9	467.5	455.7	442.4	425.7	405.5	374.1	347.0	315.6	279.4
22.5°	578.3	579.7	574.1	565.7	552.5	533.0	501.6	473.1	439.6	399.9	353.2
25°	691.2	690.5	685.6	675.8	666.1	641.7	616.6	589.4	549.7	498.9	443.1
27.5°	797.1	796.4	784.5	785.2	766.4	757.4	733.0	703.7	655.6	613.1	552.5
30°	907.8	900.9	893.2	887.6	874.4	858.4	845.8	811.0	774.8	724.6	675.1
32.5°	1020.0	1012.4	1014.4	1007.5	997.0	981.0	962.2	933.6	894.6	845.8	799.9
35°	1157.3	1153.8	1148.2	1150.3	1148.2	1136.4	1120.4	1082.7	1040.2	993.5	946.2
37.5°	1259.0	1255.5	1259.0	1273.6	1277.1	1284.8	1272.9	1254.1	1223.5	1172.6	1123.1
40°	1353.1	1353.8	1369.8	1387.9	1400.4	1425.5	1429.7	1422.0	1397.7	1351.0	1286.2
42.5°	1437.4	1447.8	1462.4	1492.4	1519.6	1555.1	1581.6	1585.8	1567.7	1537.0	1471.5
45°	1531.4	1540.5	1563.5	1599.0	1636.6	1680.5	1723.0	1745.3	1743.9	1722.3	1652.0
47.5°	1636.6	1648.5	1673.6	1702.8	1753.0	1802.5	1857.5	1897.2	1913.9	1884.0	1815.7
50°	1764.1	1769.0	1790.6	1828.2	1874.2	1931.4	1991.3	2049.1	2081.8	2054.0	1983.6
52.5°	1915.3	1916.7	1936.9	1971.8	2008.7	2071.4	2129.9	2210.0	2252.5	2237.2	2152.9
55°	2123.0	2118.8	2132.7	2162.7	2192.6	2253.2	2311.8	2402.3	2464.4	2465.7	2375.9
57.5°	2406.5	2396.8	2405.8	2429.5	2463.0	2519.4	2593.2	2673.4	2756.3	2750.7	2676.9
60°	2801.6	2798.1	2814.8	2854.5	2911.7	2970.2	3053.8	3161.8	3234.9	3260.0	3182.7
62.5°	3064.2	3074.0	3112.3	3173.6	3283.7	3404.9	3560.3	3725.4	3864.8	3927.5	3820.9
65°	2951.4	2967.4	3027.3	3117.9	3263.5	3445.4	3651.6	3922.6	4163.0	4258.4	4147.7
66°	2855.9	2881.7	2938.1	3034.3	3186.2	3384.7	3600.0	3899.6	4170.0	4277.3	4164.4
67.5°	2690.8	2708.9	2773.0	2879.6	3042.6	3239.1	3471.8	3788.2	4093.3	4206.9	4094.7
70°	2354.3	2361.2	2413.5	2504.1	2630.2	2831.5	3042.6	3347.1	3627.9	3787.5	3664.8
72.5°	1752.3	1762.0	1848.4	2013.6	2177.3	2291.6	2416.3	2660.1	2841.3	2990.4	2966.7
75°	843.1	847.2	905.1	1146.1	1465.2	1601.8	1717.5	1906.3	1975.2	2100.0	2081.1
77.5°	534.4	543.5	581.1	639.6	820.8	983.1	1074.4	1182.4	1202.6	1307.8	1246.5
80°	147.0	170.7	208.3	306.6	526.0	627.1	668.2	664.0	668.2	636.1	615.2
82.5°	30.0	29.3	35.5	55.0	232.0	365.1	394.4	335.8	333.7	321.2	331.6
85°	7.7	7.0	8.4	17.4	39.7	108.0	135.9	75.9	57.8	55.0	48.8
87.5°	2.1	2.1	2.1	3.5	4.2	5.6	7.7	5.6	4.2	4.2	4.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
2.5°	104.5	104.5	103.8	103.1	103.1	102.4	101.7	101.0	100.3	99.6	98.9
5°	110.8	109.4	107.3	105.9	104.5	102.4	101.0	99.6	98.2	97.5	96.1
7.5°	119.1	115.7	112.9	108.7	105.9	103.1	100.3	98.2	96.1	94.8	93.4
10°	129.6	124.0	118.4	112.9	108.0	103.8	99.6	96.1	94.1	92.0	90.6
12.5°	142.8	134.5	126.8	118.4	110.8	104.5	98.9	94.8	92.0	89.9	87.8
15°	164.4	151.2	138.0	125.4	115.7	105.9	98.2	93.4	89.9	87.8	85.7
17.5°	198.6	174.9	154.0	136.6	120.5	108.0	98.2	92.0	87.8	85.0	82.9
20°	248.0	209.0	175.6	150.5	129.6	111.5	98.2	89.9	85.7	82.2	80.1
22.5°	306.6	257.8	211.8	170.0	140.0	116.4	98.2	87.8	82.9	80.1	77.3
25°	392.3	327.5	264.8	206.2	157.5	124.0	100.3	86.4	80.8	77.3	74.6
27.5°	492.6	414.6	336.5	254.3	183.9	135.2	103.1	85.0	78.7	74.6	71.8
30°	606.9	520.5	425.0	318.4	218.8	149.8	108.0	84.3	75.9	71.8	68.3
32.5°	730.9	639.6	535.1	400.6	270.3	172.1	114.3	83.6	73.2	68.3	64.1
35°	878.6	793.6	666.1	516.3	350.5	210.4	128.2	85.0	70.4	64.8	59.9
37.5°	1040.2	949.7	814.5	638.9	429.9	253.6	138.7	82.9	65.5	59.9	55.0
40°	1203.3	1099.4	962.2	767.8	530.9	306.6	151.9	80.8	60.6	55.0	50.2
42.5°	1362.1	1252.7	1103.6	900.2	637.5	369.3	168.6	80.8	57.1	50.2	45.3
45°	1528.6	1397.0	1233.9	1027.0	743.4	441.0	192.3	80.1	53.0	46.0	40.4
47.5°	1686.1	1530.0	1342.6	1138.5	857.0	519.8	219.5	80.8	49.5	41.8	36.9
50°	1835.2	1656.1	1454.1	1238.1	965.7	604.8	252.9	81.5	46.0	38.3	33.4
52.5°	1998.2	1799.7	1573.9	1340.5	1073.0	690.5	291.9	82.9	42.5	34.8	30.7
55°	2200.3	1980.1	1721.6	1465.9	1186.5	776.9	329.6	84.3	39.0	32.0	27.9
57.5°	2491.5	2240.7	1961.3	1654.1	1337.0	875.1	368.6	87.8	36.2	30.0	25.8
60°	2965.3	2666.4	2343.8	1981.5	1562.1	1008.2	425.0	95.5	32.7	27.2	24.4
62.5°	3535.2	3175.7	2765.3	2325.7	1773.9	1098.1	462.6	103.8	30.0	25.1	23.0
65°	3822.3	3369.4	2896.3	2421.9	1801.1	1071.6	447.3	101.0	26.5	22.3	19.5
66°	3830.7	3359.0	2878.2	2401.0	1773.2	1039.5	432.7	99.6	25.8	21.6	18.1
67.5°	3751.2	3269.1	2782.1	2306.2	1691.0	977.5	406.2	94.8	23.7	19.5	16.0
70°	3359.0	2889.4	2442.8	2003.1	1454.8	823.5	340.7	83.6	20.9	17.4	14.6
72.5°	2677.6	2295.0	1918.8	1576.0	1130.8	618.0	268.9	68.3	18.1	15.3	12.5
75°	1870.0	1555.8	1269.5	1024.9	710.7	370.0	174.2	48.1	15.3	12.5	10.5
77.5°	1043.7	827.7	625.7	476.6	283.6	115.7	57.8	24.4	13.2	9.8	8.4
80°	530.9	393.7	299.6	220.9	131.0	59.9	29.3	16.0	10.5	7.7	7.0
82.5°	308.7	226.4	180.5	142.8	89.9	45.3	23.7	11.8	7.0	5.6	6.3
85°	69.0	91.3	77.3	65.5	48.1	28.6	16.7	7.7	4.9	4.9	5.6
87.5°	5.6	7.7	7.0	9.1	9.8	9.1	7.0	4.2	3.5	4.2	4.2
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°	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
2.5°	98.2	97.5	97.5	96.8	96.1	96.1	96.1	95.5	96.1	96.1	96.1
5°	95.5	94.8	94.1	93.4	92.7	92.0	92.0	91.3	91.3	91.3	92.0
7.5°	92.7	91.3	90.6	89.2	88.5	87.8	87.8	87.1	87.1	87.1	87.1
10°	89.2	87.8	86.4	85.7	85.0	83.6	83.6	82.9	82.2	82.2	82.2
12.5°	86.4	85.0	83.6	82.2	80.8	80.1	79.4	78.7	78.0	78.0	78.0
15°	83.6	81.5	80.1	78.7	77.3	75.9	75.2	74.6	73.9	73.2	73.2
17.5°	80.8	78.7	76.6	75.2	73.9	72.5	71.8	69.7	69.7	69.0	69.0
20°	77.3	75.2	73.2	71.8	70.4	69.0	67.6	66.2	64.8	64.1	64.1
22.5°	74.6	72.5	70.4	68.3	66.2	64.1	62.7	61.3	60.6	59.9	59.2
25°	71.8	69.0	66.2	64.1	62.0	59.9	58.5	57.1	55.7	55.0	55.0
27.5°	68.3	65.5	62.7	59.9	57.8	55.7	54.3	52.3	51.6	50.9	50.2
30°	64.8	61.3	58.5	55.7	53.6	50.9	49.5	48.1	46.7	46.7	46.0
32.5°	60.6	57.1	54.3	51.6	48.8	46.7	45.3	43.9	43.2	41.8	41.8
35°	56.4	53.0	49.5	46.7	44.6	42.5	41.1	39.7	38.3	37.6	37.6
37.5°	51.6	48.1	45.3	42.5	40.4	38.3	36.9	35.5	34.8	34.1	33.4
40°	46.0	42.5	40.4	38.3	36.2	34.8	32.7	31.4	30.7	30.0	29.3
42.5°	41.1	37.6	36.2	34.8	32.7	31.4	29.3	27.9	26.5	25.8	25.1
45°	36.9	34.1	32.7	31.4	29.3	27.2	25.8	24.4	23.0	22.3	22.3
47.5°	32.7	30.7	29.3	27.9	25.8	24.4	22.3	21.6	20.2	20.2	20.2
50°	30.0	27.9	26.5	25.1	23.7	21.6	20.2	19.5	18.8	18.8	19.5
52.5°	27.9	25.8	24.4	23.0	21.6	20.2	18.8	18.1	18.1	18.8	19.5
55°	25.8	23.7	22.3	20.9	19.5	18.8	17.4	17.4	18.1	18.8	19.5
57.5°	24.4	21.6	20.2	19.5	18.1	17.4	17.4	17.4	18.1	18.8	20.2
60°	22.3	19.5	18.1	18.1	16.7	16.7	16.7	17.4	18.1	19.5	20.2
62.5°	19.5	17.4	16.7	16.7	16.0	16.0	16.7	17.4	18.8	19.5	20.2
65°	16.7	15.3	15.3	15.3	15.3	16.0	16.7	17.4	18.1	19.5	20.2
66°	15.3	14.6	14.6	15.3	15.3	16.0	16.7	17.4	18.1	18.8	19.5
67.5°	14.6	13.9	13.9	14.6	15.3	15.3	16.0	17.4	18.1	18.8	18.8
70°	12.5	12.5	12.5	13.9	14.6	15.3	16.0	16.7	17.4	18.1	18.8
72.5°	11.1	11.1	11.8	12.5	13.9	14.6	15.3	16.0	17.4	18.1	18.1
75°	9.8	9.8	11.1	11.8	13.2	13.9	15.3	16.0	16.7	17.4	17.4
77.5°	8.4	9.1	10.5	11.8	12.5	13.9	14.6	15.3	16.0	16.7	16.7
80°	7.7	9.1	10.5	11.1	11.8	12.5	13.2	14.6	15.3	16.0	16.7
82.5°	7.7	8.4	9.8	10.5	11.1	12.5	13.2	13.9	14.6	15.3	16.0
85°	6.3	7.7	8.4	9.8	10.5	11.8	12.5	12.5	13.2	13.9	14.6
87.5°	4.9	5.6	5.6	7.0	7.7	9.1	10.5	10.5	11.1	11.8	12.5
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°	101.0	101.0	101.0	101.0
2.5°	96.1	96.8	96.8	96.8
5°	92.0	92.0	92.0	92.0
7.5°	87.1	87.1	87.1	87.1
10°	82.2	82.2	82.9	82.2
12.5°	78.0	77.3	77.3	77.3
15°	73.2	73.2	72.5	73.2
17.5°	68.3	68.3	67.6	67.6
20°	63.4	63.4	63.4	63.4
22.5°	59.2	58.5	58.5	58.5
25°	54.3	54.3	54.3	54.3
27.5°	50.2	50.2	50.2	50.2
30°	46.0	46.0	45.3	45.3
32.5°	41.8	41.8	41.8	41.8
35°	37.6	37.6	36.9	36.9
37.5°	32.7	32.7	32.7	32.7
40°	28.6	28.6	28.6	28.6
42.5°	25.1	25.1	24.4	24.4
45°	21.6	21.6	21.6	21.6
47.5°	20.2	20.2	20.2	20.2
50°	19.5	20.2	20.2	20.2
52.5°	20.2	20.2	20.2	20.2
55°	20.2	20.9	20.9	20.9
57.5°	20.2	20.9	20.9	21.6
60°	20.9	21.6	21.6	21.6
62.5°	20.9	21.6	21.6	21.6
65°	20.2	20.9	20.9	20.9
66°	20.2	20.2	20.2	20.9
67.5°	19.5	20.2	20.2	20.2
70°	18.8	19.5	19.5	20.2
72.5°	18.8	19.5	19.5	19.5
75°	18.1	18.1	18.8	18.8
77.5°	17.4	17.4	18.1	18.1
80°	16.7	17.4	17.4	17.4
82.5°	16.0	16.7	16.7	16.7
85°	14.6	15.3	15.3	15.3
87.5°	12.5	12.5	13.2	13.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)