

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: P156294

Luminaire Tested: **AVM-F03-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156294
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-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4374.8 lumens
Efficiency: N/A
Efficacy: 55.9 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

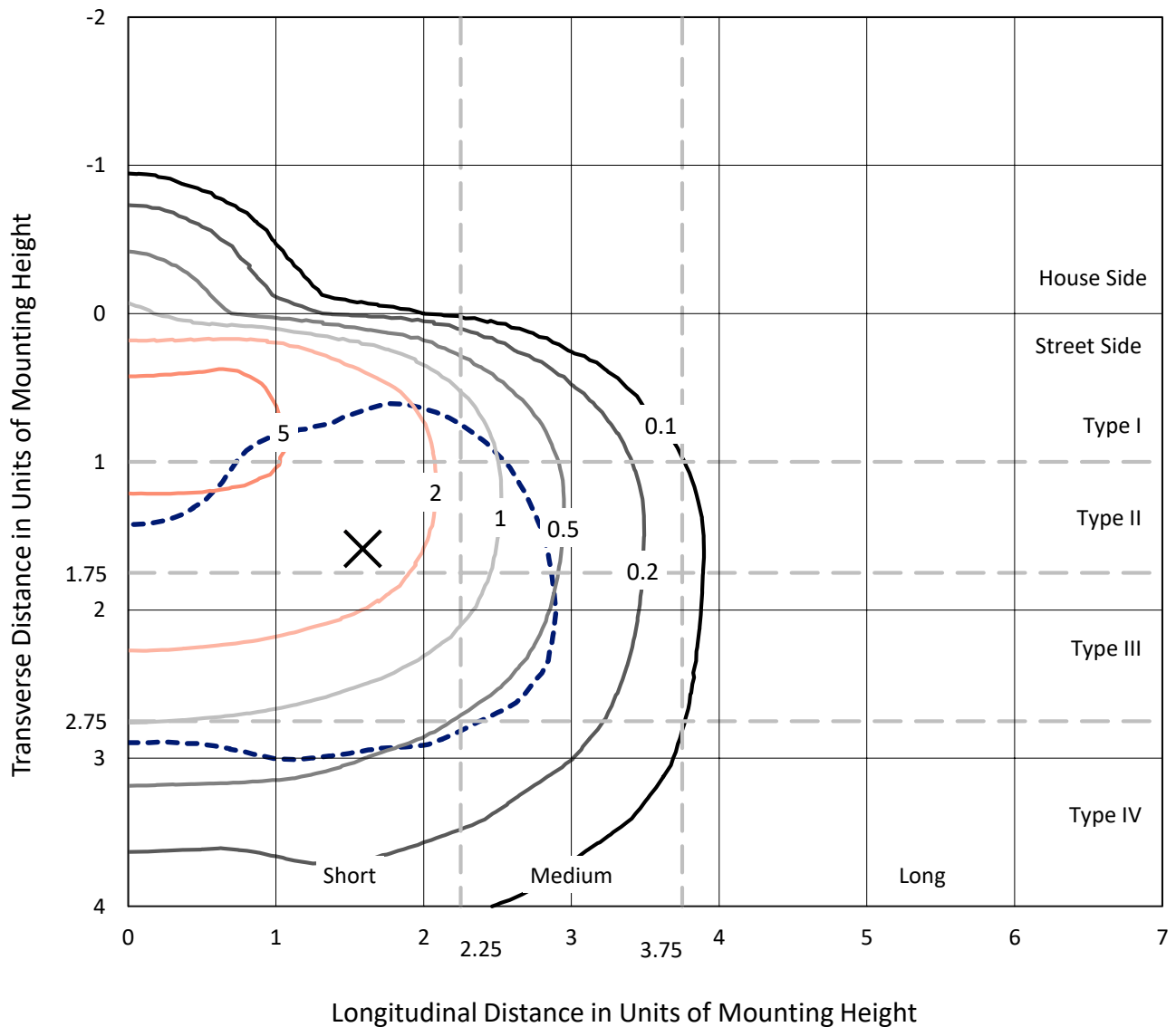
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

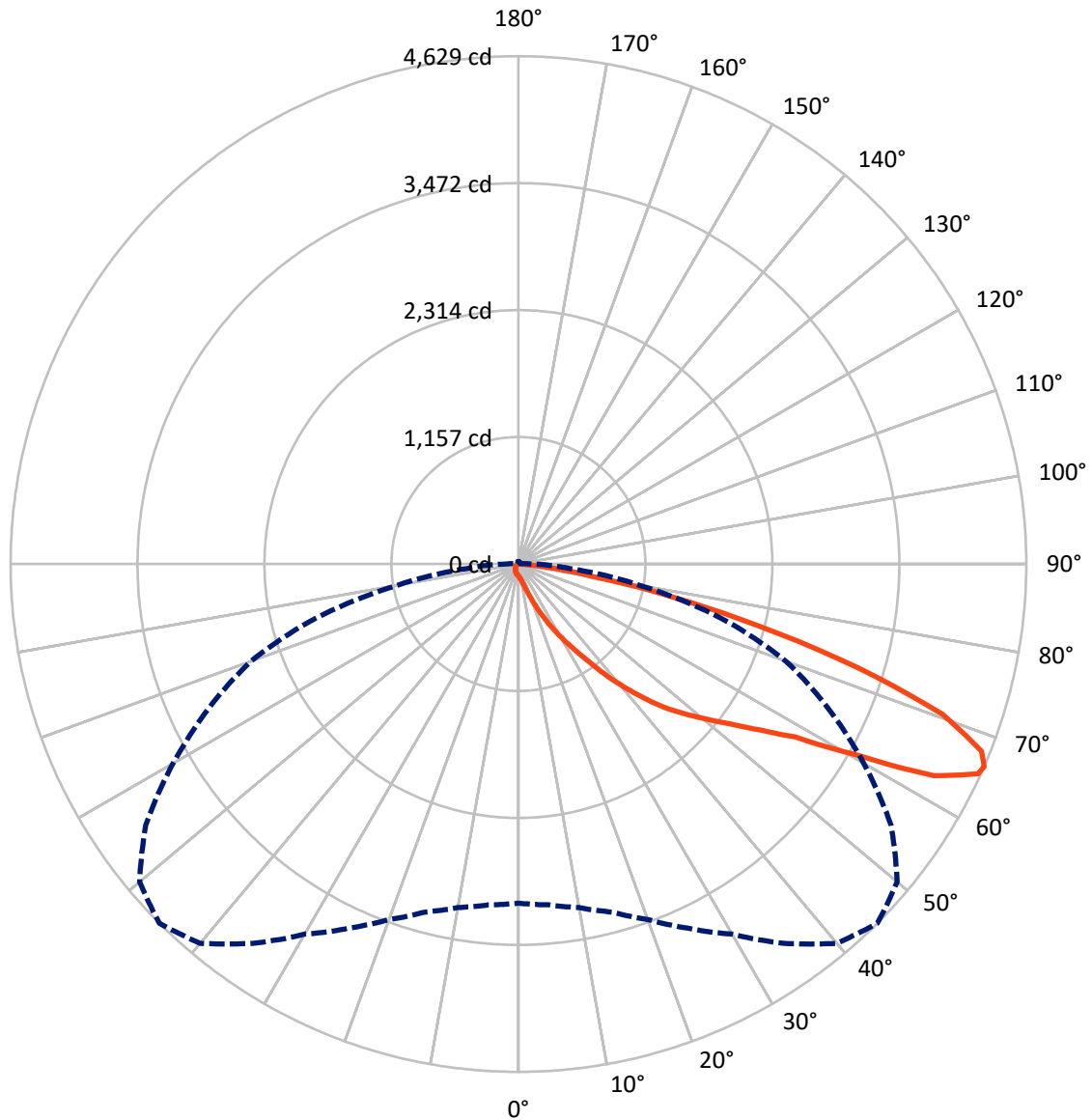
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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	99.2	0.0	99.2
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	4275.6	0.0	4275.6
	% Fixture	97.7	0.0	97.7
Total	Lumens	4374.8	0.0	4374.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.3
10°-20°	44.6	1.0
20°-30°	130.7	3.0
30°-40°	305.3	7.0
40°-50°	573.5	13.1
50°-60°	950.3	21.7
60°-70°	1508.7	34.5
70°-80°	780.2	17.8
80°-90°	70.5	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°	4374.8	100.0
0°-180°	4374.8	100.0



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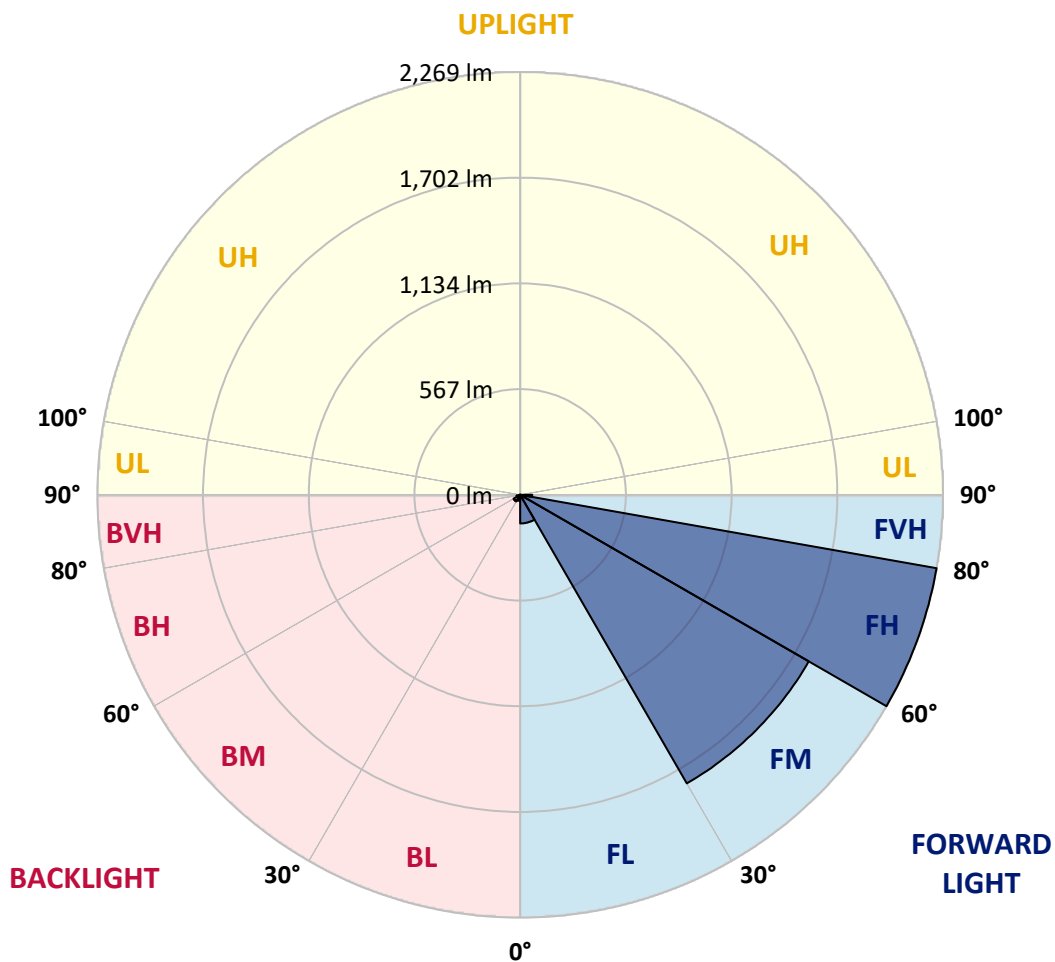
CATALOG NUMBER: AVM-F03-LED-E-U-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	153.9	3.5			
FM	(30°-60°)	1788.0	40.9			
FH	(60°-80°)	2268.8	51.9			G2/5000
FVH	(80°-90°)	64.9	1.5			G1/100
BL	(0°-30°)	32.4	0.7	B0/110		
BM	(30°-60°)	41.1	0.9	B0/220		
BH	(60°-80°)	20.1	0.5	B0/110		G0/110
BVH	(80°-90°)	5.6	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°	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3
2.5°	118.4	118.4	118.4	118.4	117.6	116.9	116.1	115.4	114.6	114.6	113.9
5°	134.2	135.0	134.2	133.5	131.9	131.2	128.9	127.4	125.2	124.4	122.1
7.5°	156.1	155.3	156.1	153.8	150.8	150.0	147.0	143.3	140.2	135.7	132.7
10°	187.7	187.0	187.7	183.2	178.7	174.9	169.6	165.1	158.3	153.1	147.0
12.5°	238.3	238.3	236.8	230.7	224.7	216.4	208.1	198.3	186.2	175.7	165.9
15°	315.9	312.2	305.4	301.6	291.0	278.2	269.2	249.6	232.2	215.6	196.0
17.5°	409.4	401.9	396.6	388.3	374.7	358.1	343.1	314.4	297.1	269.9	242.0
20°	516.5	507.4	505.9	493.1	478.8	460.7	438.8	404.9	375.5	341.6	302.4
22.5°	625.8	627.3	621.3	612.2	597.9	576.8	542.9	512.0	475.8	432.8	382.3
25°	748.0	747.2	741.9	731.4	720.8	694.4	667.3	637.9	594.9	539.9	479.5
27.5°	862.6	861.8	849.0	849.8	829.4	819.6	793.2	761.5	709.5	663.5	597.9
30°	982.5	974.9	966.6	960.6	946.3	928.9	915.3	877.6	838.4	784.2	730.6
32.5°	1103.8	1095.6	1097.8	1090.3	1079.0	1061.6	1041.3	1010.4	968.1	915.3	865.6
35°	1252.4	1248.6	1242.6	1244.8	1242.6	1229.8	1212.4	1171.7	1125.7	1075.2	1023.9
37.5°	1362.5	1358.7	1362.5	1378.3	1382.1	1390.4	1377.5	1357.2	1324.0	1269.0	1215.4
40°	1464.3	1465.0	1482.4	1502.0	1515.5	1542.7	1547.2	1538.9	1512.5	1462.0	1391.9
42.5°	1555.5	1566.8	1582.6	1615.1	1644.5	1682.9	1711.6	1716.1	1696.5	1663.3	1592.4
45°	1657.3	1667.1	1692.0	1730.4	1771.1	1818.6	1864.6	1888.8	1887.2	1863.9	1787.7
47.5°	1771.1	1783.9	1811.1	1842.8	1897.0	1950.6	2010.1	2053.1	2071.2	2038.8	1964.9
50°	1909.1	1914.4	1937.8	1978.5	2028.2	2090.1	2154.9	2217.5	2252.9	2222.8	2146.6
52.5°	2072.7	2074.2	2096.1	2133.8	2173.8	2241.6	2305.0	2391.7	2437.7	2421.1	2329.8
55°	2297.4	2292.9	2308.0	2340.4	2372.8	2438.4	2501.8	2599.8	2666.9	2668.4	2571.1
57.5°	2604.3	2593.7	2603.5	2629.2	2665.4	2726.4	2806.4	2893.1	2982.8	2976.8	2896.8
60°	3031.8	3028.0	3046.1	3089.1	3150.9	3214.3	3304.8	3421.6	3500.8	3527.9	3444.2
62.5°	3316.1	3326.6	3368.1	3434.4	3553.6	3684.8	3852.9	4031.6	4182.4	4250.3	4134.9
65°	3193.9	3211.3	3276.1	3374.1	3531.7	3728.5	3951.7	4245.0	4505.1	4608.4	4488.5
66°	3090.6	3118.5	3179.6	3283.6	3448.0	3662.9	3895.9	4220.1	4512.7	4628.8	4506.6
67.5°	2911.9	2931.5	3000.9	3116.3	3292.7	3505.3	3757.1	4099.5	4429.7	4552.6	4431.2
70°	2547.7	2555.3	2611.8	2709.9	2846.3	3064.2	3292.7	3622.2	3926.0	4098.7	3966.0
72.5°	1896.3	1906.8	2000.3	2179.0	2356.2	2479.9	2614.8	2878.7	3074.8	3236.1	3210.5
75°	912.3	916.9	979.4	1240.3	1585.6	1733.4	1858.6	2062.9	2137.6	2272.5	2252.2
77.5°	578.3	588.1	628.8	692.2	888.2	1063.9	1162.7	1279.5	1301.4	1415.2	1348.9
80°	159.1	184.7	225.4	331.8	569.3	678.6	723.1	718.6	723.1	688.4	665.8
82.5°	32.4	31.7	38.5	59.6	251.1	395.1	426.8	363.4	361.2	347.6	358.9
85°	8.3	7.5	9.0	18.8	43.0	116.9	147.0	82.2	62.6	59.6	52.8
87.5°	2.3	2.3	2.3	3.8	4.5	6.0	8.3	6.0	4.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3
2.5°	113.1	113.1	112.3	111.6	111.6	110.8	110.1	109.3	108.6	107.8	107.1
5°	119.9	118.4	116.1	114.6	113.1	110.8	109.3	107.8	106.3	105.6	104.1
7.5°	128.9	125.2	122.1	117.6	114.6	111.6	108.6	106.3	104.1	102.5	101.0
10°	140.2	134.2	128.2	122.1	116.9	112.3	107.8	104.1	101.8	99.5	98.0
12.5°	154.6	145.5	137.2	128.2	119.9	113.1	107.1	102.5	99.5	97.3	95.0
15°	177.9	163.6	149.3	135.7	125.2	114.6	106.3	101.0	97.3	95.0	92.7
17.5°	214.9	189.3	166.6	147.8	130.4	116.9	106.3	99.5	95.0	92.0	89.7
20°	268.4	226.2	190.0	162.9	140.2	120.6	106.3	97.3	92.7	89.0	86.7
22.5°	331.8	279.0	229.2	184.0	151.6	125.9	106.3	95.0	89.7	86.7	83.7
25°	424.5	354.4	286.5	223.2	170.4	134.2	108.6	93.5	87.5	83.7	80.7
27.5°	533.1	448.6	364.2	275.2	199.1	146.3	111.6	92.0	85.2	80.7	77.7
30°	656.7	563.2	459.9	344.6	236.8	162.1	116.9	91.2	82.2	77.7	73.9
32.5°	790.9	692.2	579.1	433.5	292.5	186.2	123.7	90.5	79.2	73.9	69.4
35°	950.8	858.8	720.8	558.7	379.3	227.7	138.7	92.0	76.2	70.1	64.8
37.5°	1125.7	1027.7	881.4	691.4	465.2	274.5	150.0	89.7	70.9	64.8	59.6
40°	1302.1	1189.8	1041.3	830.9	574.5	331.8	164.4	87.5	65.6	59.6	54.3
42.5°	1474.1	1355.7	1194.3	974.2	689.9	399.6	182.5	87.5	61.8	54.3	49.0
45°	1654.3	1511.8	1335.3	1111.4	804.5	477.3	208.1	86.7	57.3	49.8	43.7
47.5°	1824.7	1655.8	1452.9	1232.0	927.4	562.5	237.5	87.5	53.5	45.2	40.0
50°	1986.0	1792.2	1573.6	1339.8	1045.0	654.5	273.7	88.2	49.8	41.5	36.2
52.5°	2162.5	1947.6	1703.3	1450.7	1161.1	747.2	315.9	89.7	46.0	37.7	33.2
55°	2381.1	2142.8	1863.1	1586.4	1284.1	840.7	356.6	91.2	42.2	34.7	30.2
57.5°	2696.3	2424.8	2122.5	1790.0	1446.9	947.0	398.9	95.0	39.2	32.4	27.9
60°	3209.0	2885.5	2536.4	2144.4	1690.5	1091.0	459.9	103.3	35.4	29.4	26.4
62.5°	3825.8	3436.7	2992.6	2516.8	1919.7	1188.3	500.7	112.3	32.4	27.1	24.9
65°	4136.4	3646.3	3134.4	2620.9	1949.1	1159.6	484.1	109.3	28.7	24.1	21.1
66°	4145.5	3635.0	3114.7	2598.3	1918.9	1125.0	468.2	107.8	27.9	23.4	19.6
67.5°	4059.5	3537.7	3010.7	2495.7	1829.9	1057.9	439.6	102.5	25.6	21.1	17.3
70°	3635.0	3126.8	2643.5	2167.7	1574.3	891.2	368.7	90.5	22.6	18.8	15.8
72.5°	2897.6	2483.7	2076.5	1705.5	1223.7	668.8	291.0	73.9	19.6	16.6	13.6
75°	2023.7	1683.7	1373.8	1109.1	769.1	400.4	188.5	52.0	16.6	13.6	11.3
77.5°	1129.5	895.7	677.1	515.7	306.9	125.2	62.6	26.4	14.3	10.6	9.0
80°	574.5	426.0	324.2	239.0	141.8	64.8	31.7	17.3	11.3	8.3	7.5
82.5°	334.0	245.0	195.3	154.6	97.3	49.0	25.6	12.8	7.5	6.0	6.8
85°	74.6	98.8	83.7	70.9	52.0	30.9	18.1	8.3	5.3	5.3	6.0
87.5°	6.0	8.3	7.5	9.8	10.6	9.8	7.5	4.5	3.8	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3	109.3
2.5°	106.3	105.6	105.6	104.8	104.1	104.1	104.1	103.3	104.1	104.1	104.1
5°	103.3	102.5	101.8	101.0	100.3	99.5	99.5	98.8	98.8	98.8	99.5
7.5°	100.3	98.8	98.0	96.5	95.8	95.0	95.0	94.2	94.2	94.2	94.2
10°	96.5	95.0	93.5	92.7	92.0	90.5	90.5	89.7	89.0	89.0	89.0
12.5°	93.5	92.0	90.5	89.0	87.5	86.7	86.0	85.2	84.4	84.4	84.4
15°	90.5	88.2	86.7	85.2	83.7	82.2	81.4	80.7	79.9	79.2	79.2
17.5°	87.5	85.2	82.9	81.4	79.9	78.4	77.7	75.4	75.4	74.6	74.6
20°	83.7	81.4	79.2	77.7	76.2	74.6	73.1	71.6	70.1	69.4	69.4
22.5°	80.7	78.4	76.2	73.9	71.6	69.4	67.9	66.4	65.6	64.8	64.1
25°	77.7	74.6	71.6	69.4	67.1	64.8	63.3	61.8	60.3	59.6	59.6
27.5°	73.9	70.9	67.9	64.8	62.6	60.3	58.8	56.5	55.8	55.0	54.3
30°	70.1	66.4	63.3	60.3	58.1	55.0	53.5	52.0	50.5	50.5	49.8
32.5°	65.6	61.8	58.8	55.8	52.8	50.5	49.0	47.5	46.7	45.2	45.2
35°	61.1	57.3	53.5	50.5	48.3	46.0	44.5	43.0	41.5	40.7	40.7
37.5°	55.8	52.0	49.0	46.0	43.7	41.5	40.0	38.5	37.7	36.9	36.2
40°	49.8	46.0	43.7	41.5	39.2	37.7	35.4	33.9	33.2	32.4	31.7
42.5°	44.5	40.7	39.2	37.7	35.4	33.9	31.7	30.2	28.7	27.9	27.1
45°	40.0	36.9	35.4	33.9	31.7	29.4	27.9	26.4	24.9	24.1	24.1
47.5°	35.4	33.2	31.7	30.2	27.9	26.4	24.1	23.4	21.9	21.9	21.9
50°	32.4	30.2	28.7	27.1	25.6	23.4	21.9	21.1	20.4	20.4	21.1
52.5°	30.2	27.9	26.4	24.9	23.4	21.9	20.4	19.6	19.6	20.4	21.1
55°	27.9	25.6	24.1	22.6	21.1	20.4	18.8	18.8	19.6	20.4	21.1
57.5°	26.4	23.4	21.9	21.1	19.6	18.8	18.8	18.8	19.6	20.4	21.9
60°	24.1	21.1	19.6	19.6	18.1	18.1	18.1	18.8	19.6	21.1	21.9
62.5°	21.1	18.8	18.1	18.1	17.3	17.3	18.1	18.8	20.4	21.1	21.9
65°	18.1	16.6	16.6	16.6	16.6	17.3	18.1	18.8	19.6	21.1	21.9
66°	16.6	15.8	15.8	16.6	16.6	17.3	18.1	18.8	19.6	20.4	21.1
67.5°	15.8	15.1	15.1	15.8	16.6	16.6	17.3	18.8	19.6	20.4	20.4
70°	13.6	13.6	13.6	15.1	15.8	16.6	17.3	18.1	18.8	19.6	20.4
72.5°	12.1	12.1	12.8	13.6	15.1	15.8	16.6	17.3	18.8	19.6	19.6
75°	10.6	10.6	12.1	12.8	14.3	15.1	16.6	17.3	18.1	18.8	18.8
77.5°	9.0	9.8	11.3	12.8	13.6	15.1	15.8	16.6	17.3	18.1	18.1
80°	8.3	9.8	11.3	12.1	12.8	13.6	14.3	15.8	16.6	17.3	18.1
82.5°	8.3	9.0	10.6	11.3	12.1	13.6	14.3	15.1	15.8	16.6	17.3
85°	6.8	8.3	9.0	10.6	11.3	12.8	13.6	13.6	14.3	15.1	15.8
87.5°	5.3	6.0	6.0	7.5	8.3	9.8	11.3	11.3	12.1	12.8	13.6
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°	109.3	109.3	109.3	109.3
2.5°	104.1	104.8	104.8	104.8
5°	99.5	99.5	99.5	99.5
7.5°	94.2	94.2	94.2	94.2
10°	89.0	89.0	89.7	89.0
12.5°	84.4	83.7	83.7	83.7
15°	79.2	79.2	78.4	79.2
17.5°	73.9	73.9	73.1	73.1
20°	68.6	68.6	68.6	68.6
22.5°	64.1	63.3	63.3	63.3
25°	58.8	58.8	58.8	58.8
27.5°	54.3	54.3	54.3	54.3
30°	49.8	49.8	49.0	49.0
32.5°	45.2	45.2	45.2	45.2
35°	40.7	40.7	40.0	40.0
37.5°	35.4	35.4	35.4	35.4
40°	30.9	30.9	30.9	30.9
42.5°	27.1	27.1	26.4	26.4
45°	23.4	23.4	23.4	23.4
47.5°	21.9	21.9	21.9	21.9
50°	21.1	21.9	21.9	21.9
52.5°	21.9	21.9	21.9	21.9
55°	21.9	22.6	22.6	22.6
57.5°	21.9	22.6	22.6	23.4
60°	22.6	23.4	23.4	23.4
62.5°	22.6	23.4	23.4	23.4
65°	21.9	22.6	22.6	22.6
66°	21.9	21.9	21.9	22.6
67.5°	21.1	21.9	21.9	21.9
70°	20.4	21.1	21.1	21.9
72.5°	20.4	21.1	21.1	21.1
75°	19.6	19.6	20.4	20.4
77.5°	18.8	18.8	19.6	19.6
80°	18.1	18.8	18.8	18.8
82.5°	17.3	18.1	18.1	18.1
85°	15.8	16.6	16.6	16.6
87.5°	13.6	13.6	14.3	14.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)