

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: P156286

Luminaire Tested: **AVM-F02-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156286
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-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3276.6 lumens
Efficiency: N/A
Efficacy: 59.6 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

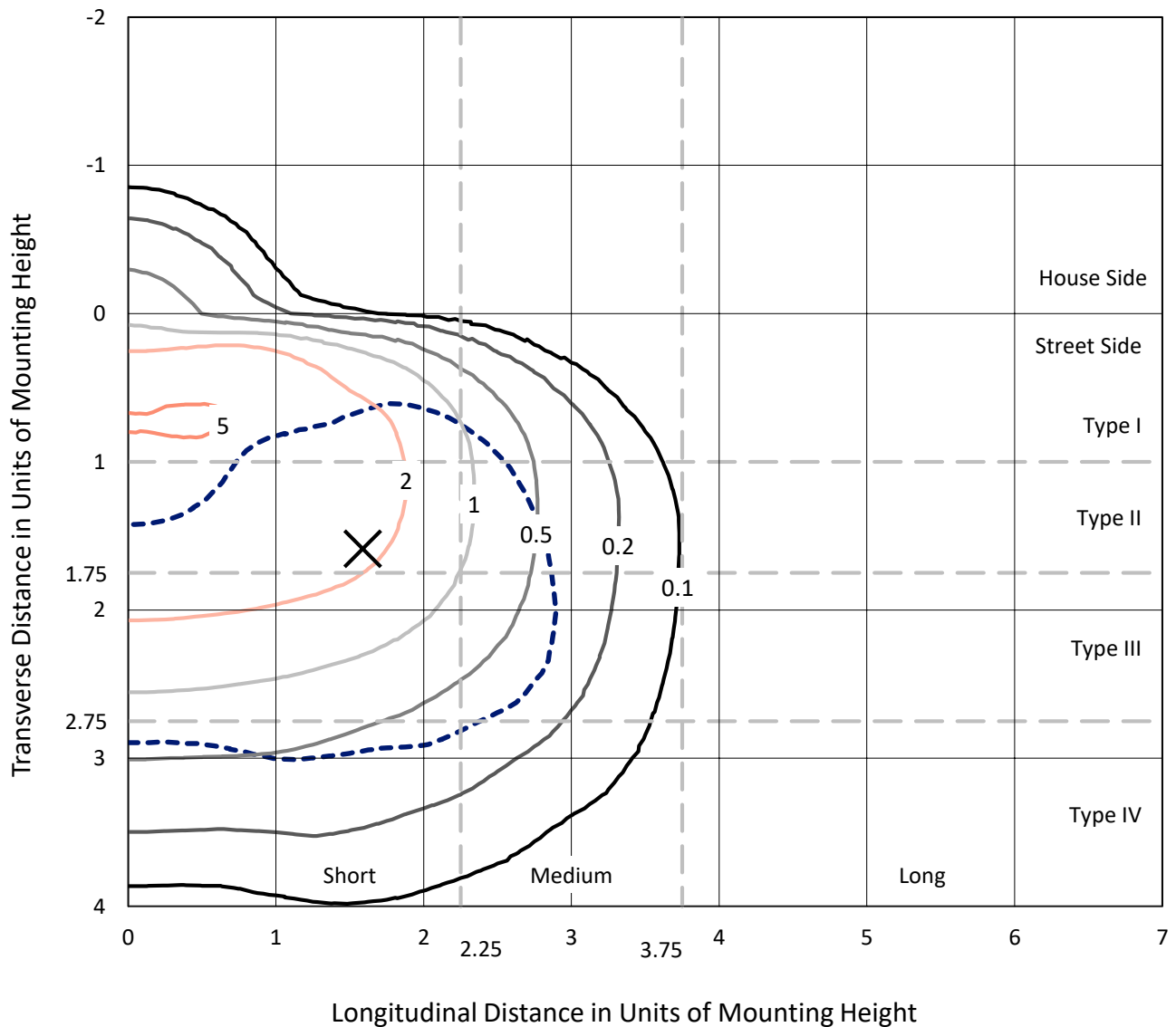
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

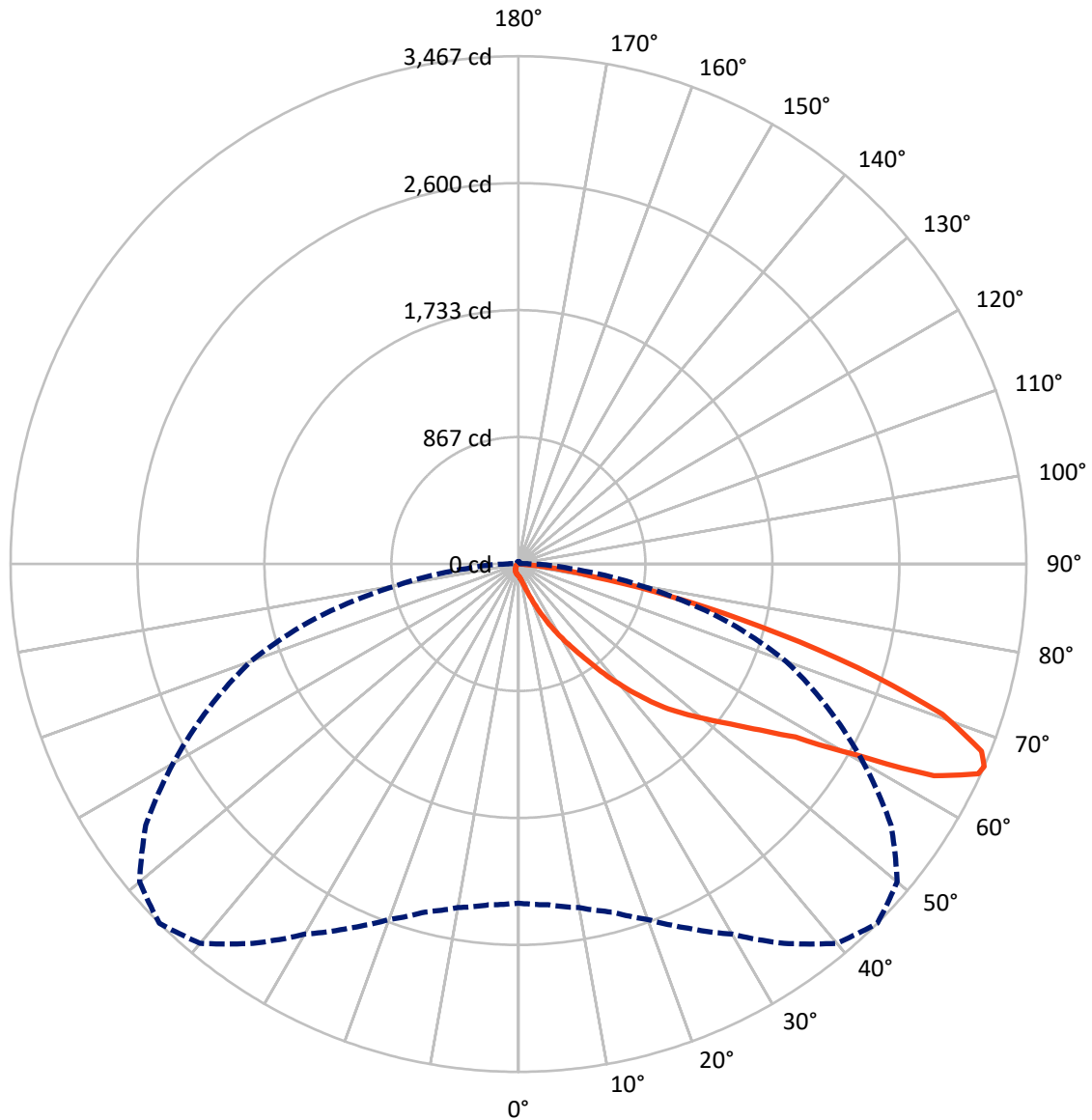
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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	74.3	0.0	74.3
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	3202.3	0.0	3202.3
	% Fixture	97.7	0.0	97.7
Total	Lumens	3276.6	0.0	3276.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.3
10°-20°	33.4	1.0
20°-30°	97.9	3.0
30°-40°	228.7	7.0
40°-50°	429.5	13.1
50°-60°	711.8	21.7
60°-70°	1129.9	34.5
70°-80°	584.4	17.8
80°-90°	52.8	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°	3276.6	100.0
0°-180°	3276.6	100.0



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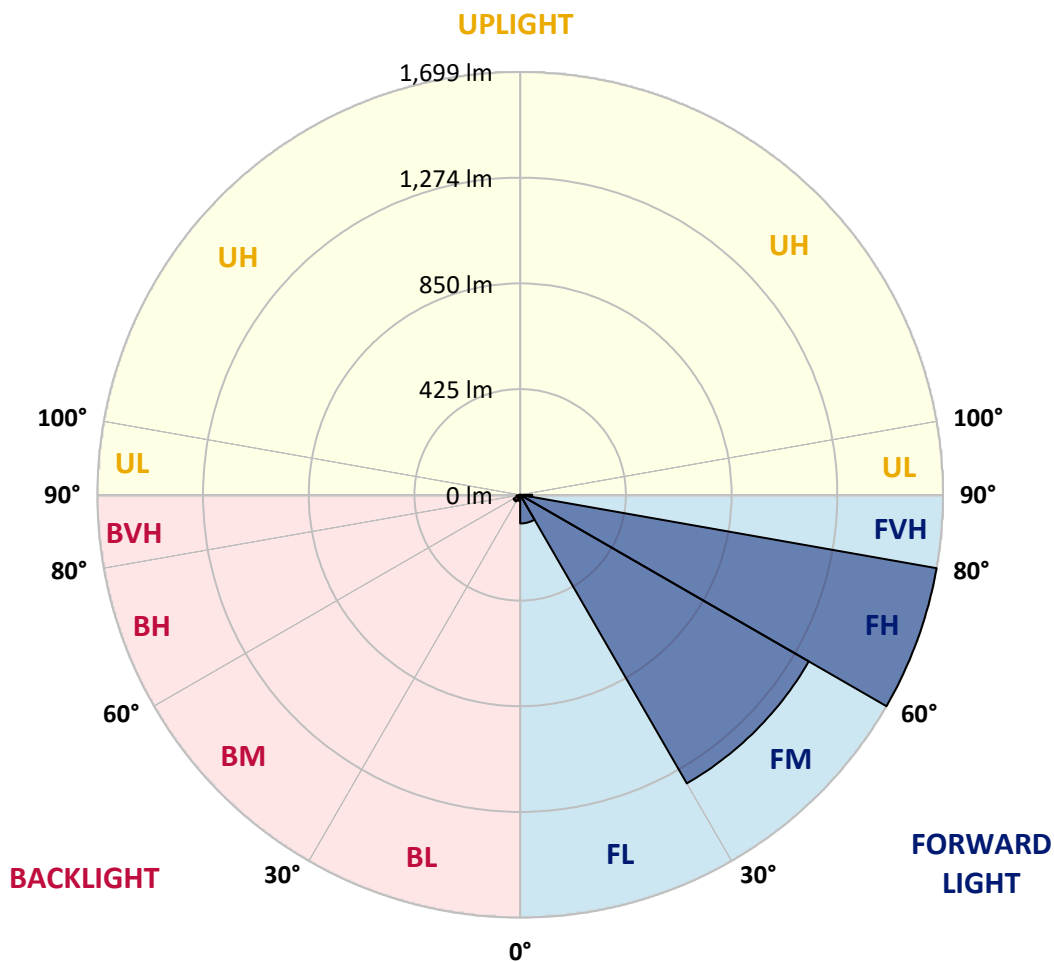
CATALOG NUMBER: AVM-F02-LED-E-U-T4-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.3	3.5			
FM	(30°-60°)	1339.1	40.9			
FH	(60°-80°)	1699.3	51.9			G1/1800
FVH	(80°-90°)	48.6	1.5			G1/100
BL	(0°-30°)	24.3	0.7	B0/110		
BM	(30°-60°)	30.8	0.9	B0/220		
BH	(60°-80°)	15.0	0.5	B0/110		G0/110
BVH	(80°-90°)	4.2	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°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	88.7	88.7	88.7	88.7	88.1	87.5	87.0	86.4	85.8	85.8	85.3
5°	100.5	101.1	100.5	100.0	98.8	98.3	96.6	95.4	93.7	93.2	91.5
7.5°	116.9	116.3	116.9	115.2	112.9	112.4	110.1	107.3	105.0	101.6	99.4
10°	140.6	140.0	140.6	137.2	133.8	131.0	127.1	123.7	118.6	114.6	110.1
12.5°	178.5	178.5	177.3	172.8	168.3	162.1	155.9	148.5	139.5	131.6	124.2
15°	236.6	233.8	228.7	225.9	218.0	208.4	201.6	186.9	173.9	161.5	146.8
17.5°	306.6	301.0	297.0	290.8	280.7	268.2	256.9	235.5	222.5	202.2	181.3
20°	386.8	380.1	378.9	369.3	358.6	345.0	328.7	303.3	281.2	255.8	226.5
22.5°	468.7	469.8	465.3	458.6	447.8	432.0	406.6	383.4	356.3	324.1	286.3
25°	560.2	559.6	555.7	547.8	539.9	520.1	499.8	477.8	445.6	404.3	359.2
27.5°	646.0	645.5	635.9	636.4	621.2	613.8	594.1	570.4	531.4	497.0	447.8
30°	735.8	730.2	724.0	719.4	708.7	695.7	685.6	657.3	628.0	587.3	547.2
32.5°	826.7	820.5	822.2	816.6	808.1	795.1	779.9	756.7	725.1	685.6	648.3
35°	938.0	935.2	930.7	932.3	930.7	921.1	908.1	877.6	843.1	805.3	766.9
37.5°	1020.4	1017.6	1020.4	1032.3	1035.1	1041.3	1031.7	1016.5	991.6	950.4	910.3
40°	1096.7	1097.2	1110.2	1124.9	1135.1	1155.4	1158.8	1152.6	1132.8	1095.0	1042.5
42.5°	1165.0	1173.5	1185.3	1209.6	1231.6	1260.4	1281.9	1285.3	1270.6	1245.8	1192.7
45°	1241.2	1248.6	1267.2	1296.0	1326.5	1362.1	1396.5	1414.6	1413.5	1396.0	1338.9
47.5°	1326.5	1336.1	1356.5	1380.2	1420.8	1460.9	1505.5	1537.7	1551.3	1527.0	1471.7
50°	1429.9	1433.8	1451.3	1481.8	1519.1	1565.4	1614.0	1660.8	1687.4	1664.8	1607.7
52.5°	1552.4	1553.5	1569.9	1598.1	1628.1	1678.9	1726.3	1791.3	1825.7	1813.3	1745.0
55°	1720.7	1717.3	1728.6	1752.9	1777.2	1826.3	1873.7	1947.1	1997.4	1998.5	1925.7
57.5°	1950.5	1942.6	1950.0	1969.2	1996.3	2042.0	2101.9	2166.8	2234.0	2229.5	2169.6
60°	2270.7	2267.9	2281.5	2313.6	2360.0	2407.4	2475.2	2562.7	2622.0	2642.3	2579.6
62.5°	2483.6	2491.5	2522.6	2572.3	2661.5	2759.8	2885.7	3019.5	3132.5	3183.3	3096.9
65°	2392.1	2405.1	2453.7	2527.1	2645.1	2792.5	2959.7	3179.4	3374.2	3451.6	3361.8
66°	2314.8	2335.7	2381.4	2459.3	2582.5	2743.4	2917.9	3160.7	3379.8	3466.8	3375.3
67.5°	2180.9	2195.6	2247.6	2334.0	2466.1	2625.4	2814.0	3070.4	3317.7	3409.8	3318.8
70°	1908.2	1913.8	1956.2	2029.6	2131.8	2295.0	2466.1	2712.9	2940.5	3069.8	2970.4
72.5°	1420.3	1428.2	1498.2	1632.0	1764.7	1857.4	1958.4	2156.1	2302.9	2423.8	2404.6
75°	683.3	686.7	733.6	929.0	1187.6	1298.3	1392.0	1545.1	1601.0	1702.1	1686.8
77.5°	433.1	440.5	471.0	518.4	665.2	796.8	870.8	958.3	974.7	1060.0	1010.3
80°	119.2	138.4	168.9	248.5	426.4	508.2	541.6	538.2	541.6	515.6	498.6
82.5°	24.3	23.7	28.8	44.6	188.1	295.9	319.6	272.2	270.5	260.3	268.8
85°	6.2	5.6	6.8	14.1	32.2	87.5	110.1	61.6	46.9	44.6	39.5
87.5°	1.7	1.7	1.7	2.8	3.4	4.5	6.2	4.5	3.4	3.4	3.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	84.7	84.7	84.1	83.6	83.6	83.0	82.4	81.9	81.3	80.8	80.2
5°	89.8	88.7	87.0	85.8	84.7	83.0	81.9	80.8	79.6	79.1	77.9
7.5°	96.6	93.7	91.5	88.1	85.8	83.6	81.3	79.6	77.9	76.8	75.7
10°	105.0	100.5	96.0	91.5	87.5	84.1	80.8	77.9	76.2	74.5	73.4
12.5°	115.8	109.0	102.8	96.0	89.8	84.7	80.2	76.8	74.5	72.8	71.2
15°	133.3	122.5	111.8	101.6	93.7	85.8	79.6	75.7	72.8	71.2	69.5
17.5°	160.9	141.7	124.8	110.7	97.7	87.5	79.6	74.5	71.2	68.9	67.2
20°	201.0	169.4	142.3	122.0	105.0	90.4	79.6	72.8	69.5	66.6	64.9
22.5°	248.5	208.9	171.7	137.8	113.5	94.3	79.6	71.2	67.2	64.9	62.7
25°	317.9	265.4	214.6	167.2	127.6	100.5	81.3	70.0	65.5	62.7	60.4
27.5°	399.3	336.0	272.8	206.1	149.1	109.6	83.6	68.9	63.8	60.4	58.2
30°	491.9	421.8	344.5	258.1	177.3	121.4	87.5	68.3	61.6	58.2	55.3
32.5°	592.4	518.4	433.7	324.7	219.1	139.5	92.6	67.8	59.3	55.3	52.0
35°	712.1	643.2	539.9	418.5	284.1	170.5	103.9	68.9	57.0	52.5	48.6
37.5°	843.1	769.7	660.2	517.8	348.4	205.6	112.4	67.2	53.1	48.6	44.6
40°	975.3	891.1	779.9	622.3	430.3	248.5	123.1	65.5	49.1	44.6	40.7
42.5°	1104.0	1015.4	894.5	729.6	516.7	299.3	136.7	65.5	46.3	40.7	36.7
45°	1239.0	1132.3	1000.1	832.4	602.6	357.5	155.9	64.9	42.9	37.3	32.8
47.5°	1366.6	1240.1	1088.2	922.7	694.6	421.3	177.9	65.5	40.1	33.9	29.9
50°	1487.5	1342.3	1178.6	1003.5	782.7	490.2	205.0	66.1	37.3	31.1	27.1
52.5°	1619.6	1458.7	1275.7	1086.5	869.7	559.6	236.6	67.2	34.4	28.2	24.8
55°	1783.4	1604.9	1395.4	1188.2	961.7	629.7	267.1	68.3	31.6	26.0	22.6
57.5°	2019.4	1816.1	1589.7	1340.6	1083.7	709.3	298.7	71.2	29.4	24.3	20.9
60°	2403.4	2161.2	1899.7	1606.1	1266.1	817.1	344.5	77.4	26.5	22.0	19.8
62.5°	2865.4	2574.0	2241.4	1885.0	1437.8	890.0	375.0	84.1	24.3	20.3	18.6
65°	3098.0	2731.0	2347.5	1963.0	1459.8	868.5	362.5	81.9	21.5	18.1	15.8
66°	3104.8	2722.5	2332.8	1946.0	1437.2	842.6	350.7	80.8	20.9	17.5	14.7
67.5°	3040.4	2649.7	2254.9	1869.2	1370.6	792.3	329.2	76.8	19.2	15.8	13.0
70°	2722.5	2341.9	1979.9	1623.6	1179.1	667.5	276.1	67.8	16.9	14.1	11.9
72.5°	2170.2	1860.2	1555.2	1277.4	916.5	500.9	218.0	55.3	14.7	12.4	10.2
75°	1515.7	1261.0	1028.9	830.7	576.0	299.9	141.2	39.0	12.4	10.2	8.5
77.5°	845.9	670.9	507.1	386.3	229.8	93.7	46.9	19.8	10.7	7.9	6.8
80°	430.3	319.1	242.8	179.0	106.2	48.6	23.7	13.0	8.5	6.2	5.6
82.5°	250.2	183.5	146.3	115.8	72.8	36.7	19.2	9.6	5.6	4.5	5.1
85°	55.9	74.0	62.7	53.1	39.0	23.2	13.6	6.2	4.0	4.0	4.5
87.5°	4.5	6.2	5.6	7.3	7.9	7.3	5.6	3.4	2.8	3.4	3.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	79.6	79.1	79.1	78.5	77.9	77.9	77.9	77.4	77.9	77.9	77.9
5°	77.4	76.8	76.2	75.7	75.1	74.5	74.5	74.0	74.0	74.0	74.5
7.5°	75.1	74.0	73.4	72.3	71.7	71.2	71.2	70.6	70.6	70.6	70.6
10°	72.3	71.2	70.0	69.5	68.9	67.8	67.8	67.2	66.6	66.6	66.6
12.5°	70.0	68.9	67.8	66.6	65.5	64.9	64.4	63.8	63.2	63.2	63.2
15°	67.8	66.1	64.9	63.8	62.7	61.6	61.0	60.4	59.9	59.3	59.3
17.5°	65.5	63.8	62.1	61.0	59.9	58.7	58.2	56.5	56.5	55.9	55.9
20°	62.7	61.0	59.3	58.2	57.0	55.9	54.8	53.6	52.5	52.0	52.0
22.5°	60.4	58.7	57.0	55.3	53.6	52.0	50.8	49.7	49.1	48.6	48.0
25°	58.2	55.9	53.6	52.0	50.3	48.6	47.4	46.3	45.2	44.6	44.6
27.5°	55.3	53.1	50.8	48.6	46.9	45.2	44.0	42.4	41.8	41.2	40.7
30°	52.5	49.7	47.4	45.2	43.5	41.2	40.1	39.0	37.8	37.8	37.3
32.5°	49.1	46.3	44.0	41.8	39.5	37.8	36.7	35.6	35.0	33.9	33.9
35°	45.7	42.9	40.1	37.8	36.1	34.4	33.3	32.2	31.1	30.5	30.5
37.5°	41.8	39.0	36.7	34.4	32.8	31.1	29.9	28.8	28.2	27.7	27.1
40°	37.3	34.4	32.8	31.1	29.4	28.2	26.5	25.4	24.8	24.3	23.7
42.5°	33.3	30.5	29.4	28.2	26.5	25.4	23.7	22.6	21.5	20.9	20.3
45°	29.9	27.7	26.5	25.4	23.7	22.0	20.9	19.8	18.6	18.1	18.1
47.5°	26.5	24.8	23.7	22.6	20.9	19.8	18.1	17.5	16.4	16.4	16.4
50°	24.3	22.6	21.5	20.3	19.2	17.5	16.4	15.8	15.2	15.2	15.8
52.5°	22.6	20.9	19.8	18.6	17.5	16.4	15.2	14.7	14.7	15.2	15.8
55°	20.9	19.2	18.1	16.9	15.8	15.2	14.1	14.1	14.7	15.2	15.8
57.5°	19.8	17.5	16.4	15.8	14.7	14.1	14.1	14.1	14.7	15.2	16.4
60°	18.1	15.8	14.7	14.7	13.6	13.6	13.6	14.1	14.7	15.8	16.4
62.5°	15.8	14.1	13.6	13.6	13.0	13.0	13.6	14.1	15.2	15.8	16.4
65°	13.6	12.4	12.4	12.4	12.4	13.0	13.6	14.1	14.7	15.8	16.4
66°	12.4	11.9	11.9	12.4	12.4	13.0	13.6	14.1	14.7	15.2	15.8
67.5°	11.9	11.3	11.3	11.9	12.4	12.4	13.0	14.1	14.7	15.2	15.2
70°	10.2	10.2	10.2	11.3	11.9	12.4	13.0	13.6	14.1	14.7	15.2
72.5°	9.0	9.0	9.6	10.2	11.3	11.9	12.4	13.0	14.1	14.7	14.7
75°	7.9	7.9	9.0	9.6	10.7	11.3	12.4	13.0	13.6	14.1	14.1
77.5°	6.8	7.3	8.5	9.6	10.2	11.3	11.9	12.4	13.0	13.6	13.6
80°	6.2	7.3	8.5	9.0	9.6	10.2	10.7	11.9	12.4	13.0	13.6
82.5°	6.2	6.8	7.9	8.5	9.0	10.2	10.7	11.3	11.9	12.4	13.0
85°	5.1	6.2	6.8	7.9	8.5	9.6	10.2	10.2	10.7	11.3	11.9
87.5°	4.0	4.5	4.5	5.6	6.2	7.3	8.5	8.5	9.0	9.6	10.2
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):

	165°	170°	175°	180°
0°	81.9	81.9	81.9	81.9
2.5°	77.9	78.5	78.5	78.5
5°	74.5	74.5	74.5	74.5
7.5°	70.6	70.6	70.6	70.6
10°	66.6	66.6	67.2	66.6
12.5°	63.2	62.7	62.7	62.7
15°	59.3	59.3	58.7	59.3
17.5°	55.3	55.3	54.8	54.8
20°	51.4	51.4	51.4	51.4
22.5°	48.0	47.4	47.4	47.4
25°	44.0	44.0	44.0	44.0
27.5°	40.7	40.7	40.7	40.7
30°	37.3	37.3	36.7	36.7
32.5°	33.9	33.9	33.9	33.9
35°	30.5	30.5	29.9	29.9
37.5°	26.5	26.5	26.5	26.5
40°	23.2	23.2	23.2	23.2
42.5°	20.3	20.3	19.8	19.8
45°	17.5	17.5	17.5	17.5
47.5°	16.4	16.4	16.4	16.4
50°	15.8	16.4	16.4	16.4
52.5°	16.4	16.4	16.4	16.4
55°	16.4	16.9	16.9	16.9
57.5°	16.4	16.9	16.9	17.5
60°	16.9	17.5	17.5	17.5
62.5°	16.9	17.5	17.5	17.5
65°	16.4	16.9	16.9	16.9
66°	16.4	16.4	16.4	16.9
67.5°	15.8	16.4	16.4	16.4
70°	15.2	15.8	15.8	16.4
72.5°	15.2	15.8	15.8	15.8
75°	14.7	14.7	15.2	15.2
77.5°	14.1	14.1	14.7	14.7
80°	13.6	14.1	14.1	14.1
82.5°	13.0	13.6	13.6	13.6
85°	11.9	12.4	12.4	12.4
87.5°	10.2	10.2	10.7	10.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)