

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: P156306

Luminaire Tested: **AVM-F04-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156306
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-F04-LED-E-U-T4-HSS-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6553.1 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

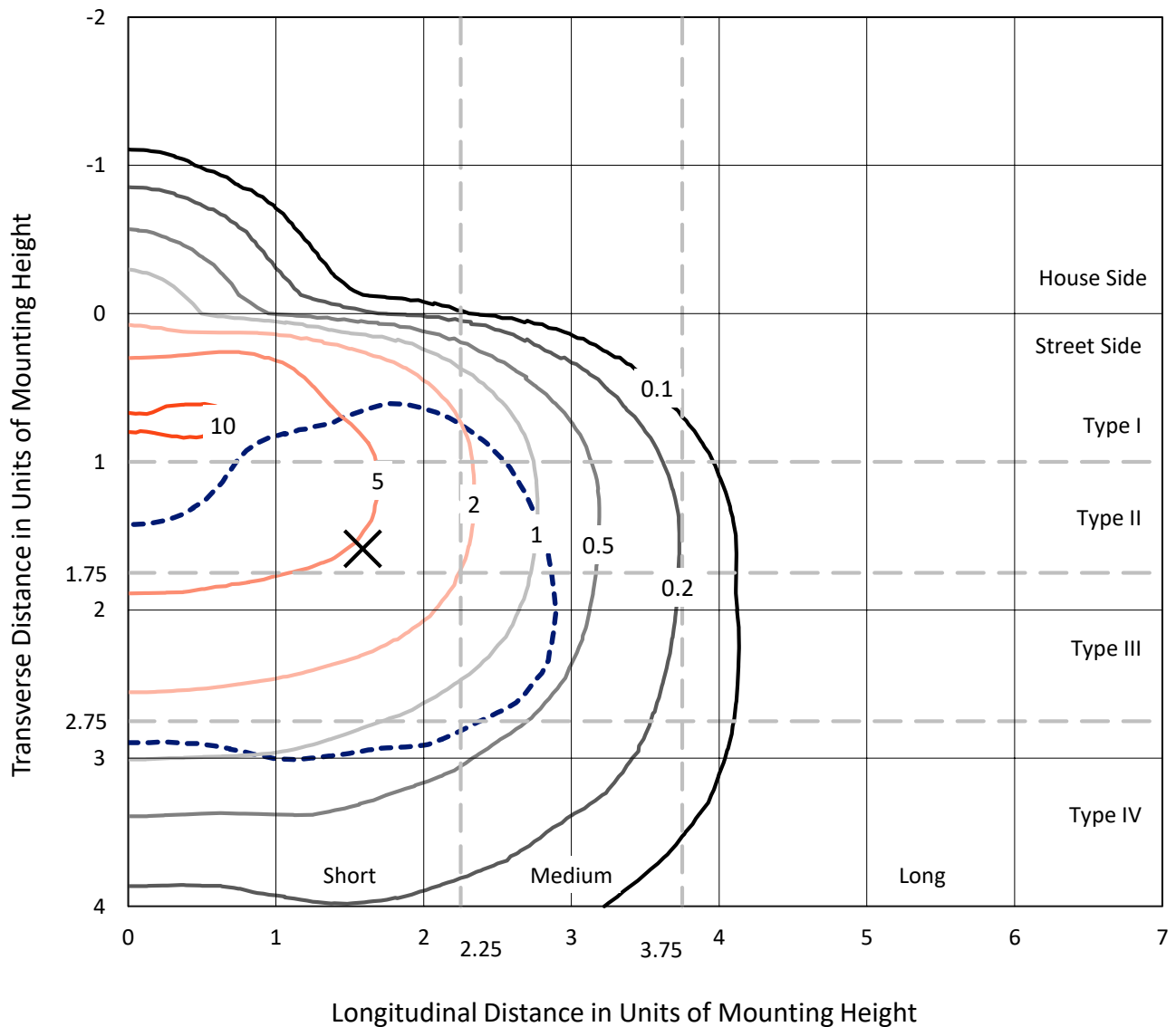
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

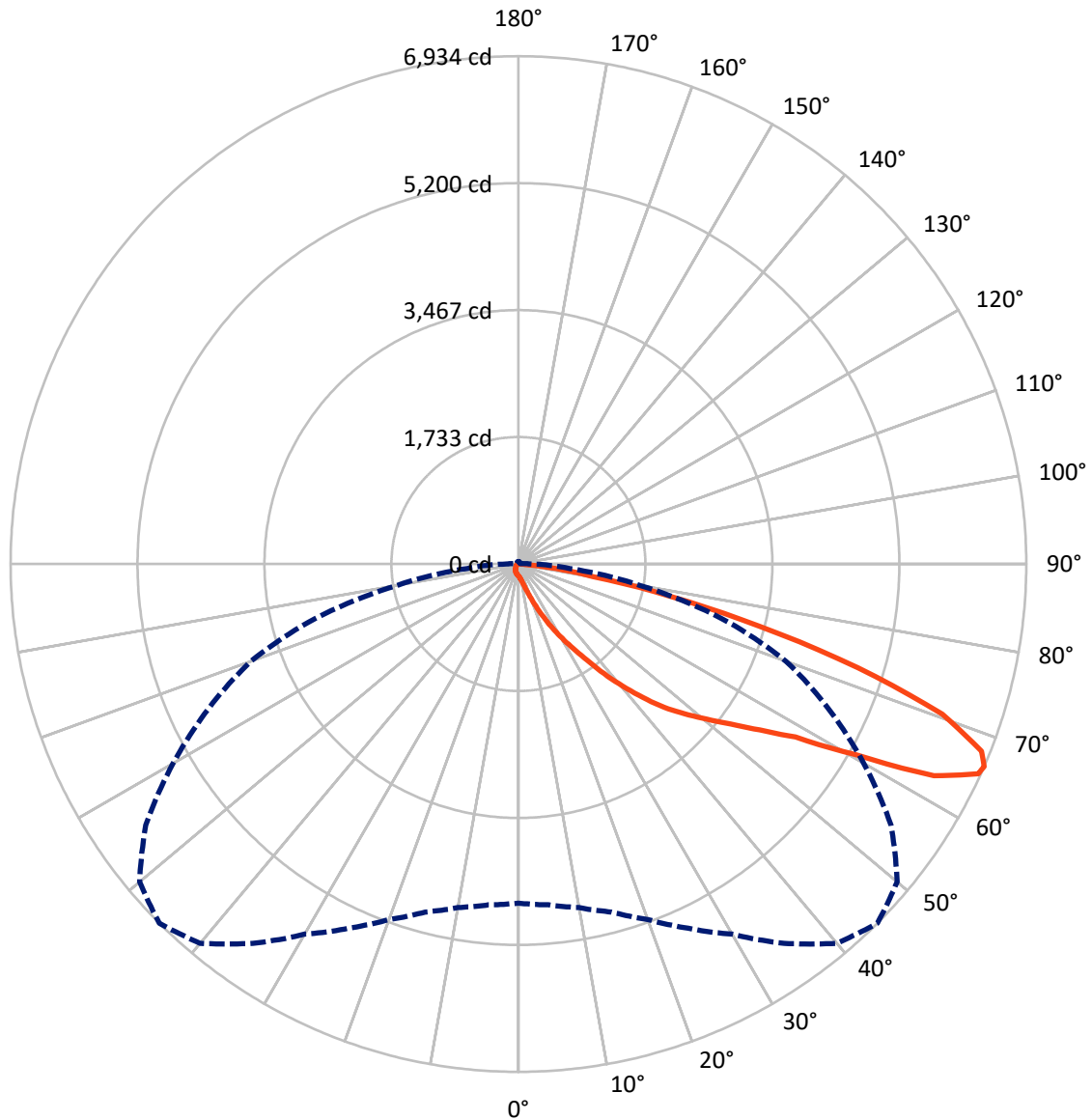
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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	148.5	0.0	148.5
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	6404.6	0.0	6404.6
	% Fixture	97.7	0.0	97.7
Total	Lumens	6553.1	0.0	6553.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	0.3
10°-20°	66.8	1.0
20°-30°	195.8	3.0
30°-40°	457.3	7.0
40°-50°	859.0	13.1
50°-60°	1423.6	21.7
60°-70°	2259.9	34.5
70°-80°	1168.7	17.8
80°-90°	105.6	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°	6553.1	100.0
0°-180°	6553.1	100.0



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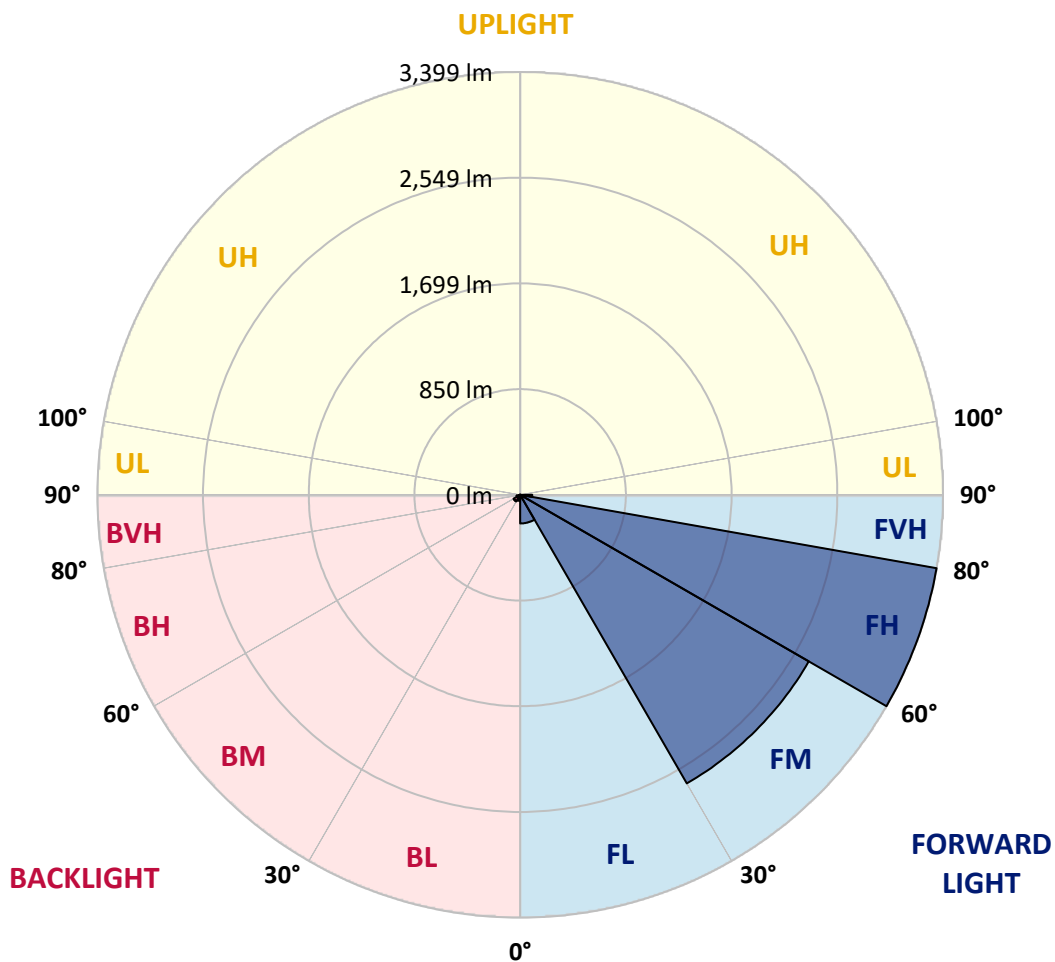
CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.6	3.5			
FM	(30°-60°)	2678.3	40.9			
FH	(60°-80°)	3398.5	51.9			G2/5000
FVH	(80°-90°)	97.2	1.5			G1/100
BL	(0°-30°)	48.5	0.7	B0/110		
BM	(30°-60°)	61.6	0.9	B0/220		
BH	(60°-80°)	30.1	0.5	B0/110		G0/110
BVH	(80°-90°)	8.3	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°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8
2.5°	177.3	177.3	177.3	177.3	176.2	175.1	173.9	172.8	171.7	171.7	170.5
5°	201.0	202.2	201.0	199.9	197.7	196.5	193.1	190.9	187.5	186.4	183.0
7.5°	233.8	232.7	233.8	230.4	225.9	224.8	220.2	214.6	210.1	203.3	198.8
10°	281.2	280.1	281.2	274.5	267.7	262.0	254.1	247.3	237.2	229.3	220.2
12.5°	356.9	356.9	354.6	345.6	336.6	324.1	311.7	297.0	279.0	263.2	248.5
15°	473.2	467.6	457.4	451.8	436.0	416.8	403.2	373.8	347.9	323.0	293.7
17.5°	613.3	602.0	594.1	581.7	561.3	536.5	513.9	471.0	445.0	404.3	362.5
20°	773.7	760.1	757.9	738.6	717.2	690.1	657.3	606.5	562.5	511.6	452.9
22.5°	937.4	939.7	930.7	917.1	895.6	864.0	813.2	766.9	712.7	648.3	572.6
25°	1120.4	1119.3	1111.4	1095.6	1079.7	1040.2	999.5	955.5	891.1	808.7	718.3
27.5°	1292.1	1290.9	1271.7	1272.9	1242.4	1227.7	1188.2	1140.7	1062.8	993.9	895.6
30°	1471.7	1460.4	1447.9	1438.9	1417.4	1391.5	1371.1	1314.7	1255.9	1174.6	1094.4
32.5°	1653.5	1641.1	1644.5	1633.2	1616.2	1590.2	1559.7	1513.4	1450.2	1371.1	1296.6
35°	1876.0	1870.3	1861.3	1864.7	1861.3	1842.1	1816.1	1755.1	1686.2	1610.6	1533.8
37.5°	2040.9	2035.2	2040.9	2064.6	2070.3	2082.7	2063.5	2033.0	1983.3	1900.8	1820.6
40°	2193.4	2194.5	2220.5	2249.8	2270.2	2310.8	2317.6	2305.2	2265.6	2190.0	2084.9
42.5°	2330.0	2347.0	2370.7	2419.2	2463.3	2520.9	2563.8	2570.6	2541.2	2491.5	2385.4
45°	2482.5	2497.2	2534.5	2592.1	2653.0	2724.2	2793.1	2829.2	2827.0	2792.0	2677.9
47.5°	2653.0	2672.2	2712.9	2760.3	2841.7	2921.8	3011.1	3075.4	3102.6	3054.0	2943.3
50°	2859.7	2867.6	2902.6	2963.6	3038.2	3130.8	3227.9	3321.7	3374.7	3329.6	3215.5
52.5°	3104.8	3107.1	3139.8	3196.3	3256.2	3357.8	3452.7	3582.6	3651.5	3626.6	3490.0
55°	3441.4	3434.6	3457.2	3505.8	3554.3	3652.6	3747.5	3894.3	3994.8	3997.1	3851.4
57.5°	3901.1	3885.3	3899.9	3938.3	3992.5	4084.0	4203.8	4333.6	4468.0	4459.0	4339.3
60°	4541.5	4535.8	4562.9	4627.3	4719.9	4814.8	4950.3	5125.4	5244.0	5284.6	5159.3
62.5°	4967.3	4983.1	5045.2	5144.6	5323.0	5519.5	5771.4	6039.1	6265.0	6366.6	6193.8
65°	4784.3	4810.3	4907.4	5054.2	5290.3	5585.1	5919.4	6358.7	6748.4	6903.1	6723.5
66°	4629.6	4671.3	4762.8	4918.7	5164.9	5486.8	5835.8	6321.4	6759.7	6933.6	6750.6
67.5°	4361.9	4391.2	4495.1	4668.0	4932.2	5250.7	5628.0	6140.7	6635.4	6819.5	6637.7
70°	3816.4	3827.7	3912.4	4059.2	4263.6	4590.0	4932.2	5425.8	5881.0	6139.6	5940.8
72.5°	2840.5	2856.3	2996.4	3264.1	3529.5	3714.7	3916.9	4312.2	4605.8	4847.5	4809.1
75°	1366.6	1373.4	1467.1	1857.9	2375.2	2596.6	2784.1	3090.1	3201.9	3404.1	3373.6
77.5°	866.3	881.0	941.9	1036.8	1330.5	1593.6	1741.6	1916.6	1949.4	2119.9	2020.6
80°	238.3	276.7	337.7	497.0	852.7	1016.5	1083.1	1076.4	1083.1	1031.2	997.3
82.5°	48.6	47.4	57.6	89.2	376.1	591.8	639.3	544.4	541.0	520.7	537.6
85°	12.4	11.3	13.6	28.2	64.4	175.1	220.2	123.1	93.7	89.2	79.1
87.5°	3.4	3.4	3.4	5.6	6.8	9.0	12.4	9.0	6.8	6.8	6.8
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°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8
2.5°	169.4	169.4	168.3	167.2	167.2	166.0	164.9	163.8	162.6	161.5	160.4
5°	179.6	177.3	173.9	171.7	169.4	166.0	163.8	161.5	159.3	158.1	155.9
7.5°	193.1	187.5	183.0	176.2	171.7	167.2	162.6	159.3	155.9	153.6	151.3
10°	210.1	201.0	192.0	183.0	175.1	168.3	161.5	155.9	152.5	149.1	146.8
12.5°	231.5	218.0	205.6	192.0	179.6	169.4	160.4	153.6	149.1	145.7	142.3
15°	266.5	245.1	223.6	203.3	187.5	171.7	159.3	151.3	145.7	142.3	138.9
17.5°	321.9	283.5	249.6	221.4	195.4	175.1	159.3	149.1	142.3	137.8	134.4
20°	402.1	338.8	284.6	244.0	210.1	180.7	159.3	145.7	138.9	133.3	129.9
22.5°	497.0	417.9	343.3	275.6	227.0	188.6	159.3	142.3	134.4	129.9	125.4
25°	635.9	530.8	429.2	334.3	255.3	201.0	162.6	140.0	131.0	125.4	120.8
27.5°	798.5	672.0	545.5	412.2	298.2	219.1	167.2	137.8	127.6	120.8	116.3
30°	983.7	843.7	689.0	516.2	354.6	242.8	175.1	136.7	123.1	116.3	110.7
32.5°	1184.8	1036.8	867.4	649.4	438.2	279.0	185.2	135.5	118.6	110.7	103.9
35°	1424.2	1286.4	1079.7	836.9	568.1	341.1	207.8	137.8	114.1	105.0	97.1
37.5°	1686.2	1539.4	1320.3	1035.7	696.9	411.1	224.8	134.4	106.2	97.1	89.2
40°	1950.5	1782.2	1559.7	1244.6	860.6	497.0	246.2	131.0	98.3	89.2	81.3
42.5°	2208.0	2030.7	1789.0	1459.2	1033.4	598.6	273.3	131.0	92.6	81.3	73.4
45°	2478.0	2264.5	2000.2	1664.8	1205.1	714.9	311.7	129.9	85.8	74.5	65.5
47.5°	2733.2	2480.2	2176.4	1845.5	1389.2	842.6	355.8	131.0	80.2	67.8	59.9
50°	2974.9	2684.7	2357.1	2007.0	1565.4	980.3	410.0	132.1	74.5	62.1	54.2
52.5°	3239.2	2917.3	2551.4	2173.0	1739.3	1119.3	473.2	134.4	68.9	56.5	49.7
55°	3566.8	3209.9	2790.8	2376.3	1923.4	1259.3	534.2	136.7	63.2	52.0	45.2
57.5°	4038.9	3632.3	3179.4	2681.3	2167.4	1418.6	597.5	142.3	58.7	48.6	41.8
60°	4806.9	4322.3	3799.4	3212.1	2532.2	1634.3	689.0	154.7	53.1	44.0	39.5
62.5°	5730.7	5148.0	4482.7	3770.1	2875.5	1780.0	749.9	168.3	48.6	40.7	37.3
65°	6196.1	5461.9	4695.1	3925.9	2919.6	1737.1	725.1	163.8	42.9	36.1	31.6
66°	6209.6	5445.0	4665.7	3892.0	2874.4	1685.1	701.4	161.5	41.8	35.0	29.4
67.5°	6080.9	5299.3	4509.8	3738.4	2741.1	1584.6	658.5	153.6	38.4	31.6	26.0
70°	5445.0	4683.8	3959.8	3247.1	2358.3	1335.0	552.3	135.5	33.9	28.2	23.7
72.5°	4340.4	3720.4	3110.5	2554.8	1833.1	1001.8	436.0	110.7	29.4	24.8	20.3
75°	3031.4	2522.0	2057.8	1661.4	1152.0	599.7	282.4	77.9	24.8	20.3	16.9
77.5°	1691.9	1341.8	1014.2	772.5	459.7	187.5	93.7	39.5	21.5	15.8	13.6
80°	860.6	638.1	485.7	358.0	212.3	97.1	47.4	26.0	16.9	12.4	11.3
82.5°	500.3	367.1	292.5	231.5	145.7	73.4	38.4	19.2	11.3	9.0	10.2
85°	111.8	148.0	125.4	106.2	77.9	46.3	27.1	12.4	7.9	7.9	9.0
87.5°	9.0	12.4	11.3	14.7	15.8	14.7	11.3	6.8	5.6	6.8	6.8
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°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8
2.5°	159.3	158.1	158.1	157.0	155.9	155.9	155.9	154.7	155.9	155.9	155.9
5°	154.7	153.6	152.5	151.3	150.2	149.1	149.1	148.0	148.0	148.0	149.1
7.5°	150.2	148.0	146.8	144.6	143.4	142.3	142.3	141.2	141.2	141.2	141.2
10°	144.6	142.3	140.0	138.9	137.8	135.5	135.5	134.4	133.3	133.3	133.3
12.5°	140.0	137.8	135.5	133.3	131.0	129.9	128.8	127.6	126.5	126.5	126.5
15°	135.5	132.1	129.9	127.6	125.4	123.1	122.0	120.8	119.7	118.6	118.6
17.5°	131.0	127.6	124.2	122.0	119.7	117.5	116.3	112.9	112.9	111.8	111.8
20°	125.4	122.0	118.6	116.3	114.1	111.8	109.6	107.3	105.0	103.9	103.9
22.5°	120.8	117.5	114.1	110.7	107.3	103.9	101.6	99.4	98.3	97.1	96.0
25°	116.3	111.8	107.3	103.9	100.5	97.1	94.9	92.6	90.4	89.2	89.2
27.5°	110.7	106.2	101.6	97.1	93.7	90.4	88.1	84.7	83.6	82.4	81.3
30°	105.0	99.4	94.9	90.4	87.0	82.4	80.2	77.9	75.7	75.7	74.5
32.5°	98.3	92.6	88.1	83.6	79.1	75.7	73.4	71.2	70.0	67.8	67.8
35°	91.5	85.8	80.2	75.7	72.3	68.9	66.6	64.4	62.1	61.0	61.0
37.5°	83.6	77.9	73.4	68.9	65.5	62.1	59.9	57.6	56.5	55.3	54.2
40°	74.5	68.9	65.5	62.1	58.7	56.5	53.1	50.8	49.7	48.6	47.4
42.5°	66.6	61.0	58.7	56.5	53.1	50.8	47.4	45.2	42.9	41.8	40.7
45°	59.9	55.3	53.1	50.8	47.4	44.0	41.8	39.5	37.3	36.1	36.1
47.5°	53.1	49.7	47.4	45.2	41.8	39.5	36.1	35.0	32.8	32.8	32.8
50°	48.6	45.2	42.9	40.7	38.4	35.0	32.8	31.6	30.5	30.5	31.6
52.5°	45.2	41.8	39.5	37.3	35.0	32.8	30.5	29.4	29.4	30.5	31.6
55°	41.8	38.4	36.1	33.9	31.6	30.5	28.2	28.2	29.4	30.5	31.6
57.5°	39.5	35.0	32.8	31.6	29.4	28.2	28.2	28.2	29.4	30.5	32.8
60°	36.1	31.6	29.4	29.4	27.1	27.1	27.1	28.2	29.4	31.6	32.8
62.5°	31.6	28.2	27.1	27.1	26.0	26.0	27.1	28.2	30.5	31.6	32.8
65°	27.1	24.8	24.8	24.8	24.8	26.0	27.1	28.2	29.4	31.6	32.8
66°	24.8	23.7	23.7	24.8	24.8	26.0	27.1	28.2	29.4	30.5	31.6
67.5°	23.7	22.6	22.6	23.7	24.8	24.8	26.0	28.2	29.4	30.5	30.5
70°	20.3	20.3	20.3	22.6	23.7	24.8	26.0	27.1	28.2	29.4	30.5
72.5°	18.1	18.1	19.2	20.3	22.6	23.7	24.8	26.0	28.2	29.4	29.4
75°	15.8	15.8	18.1	19.2	21.5	22.6	24.8	26.0	27.1	28.2	28.2
77.5°	13.6	14.7	16.9	19.2	20.3	22.6	23.7	24.8	26.0	27.1	27.1
80°	12.4	14.7	16.9	18.1	19.2	20.3	21.5	23.7	24.8	26.0	27.1
82.5°	12.4	13.6	15.8	16.9	18.1	20.3	21.5	22.6	23.7	24.8	26.0
85°	10.2	12.4	13.6	15.8	16.9	19.2	20.3	20.3	21.5	22.6	23.7
87.5°	7.9	9.0	9.0	11.3	12.4	14.7	16.9	16.9	18.1	19.2	20.3
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°	163.8	163.8	163.8	163.8
2.5°	155.9	157.0	157.0	157.0
5°	149.1	149.1	149.1	149.1
7.5°	141.2	141.2	141.2	141.2
10°	133.3	133.3	134.4	133.3
12.5°	126.5	125.4	125.4	125.4
15°	118.6	118.6	117.5	118.6
17.5°	110.7	110.7	109.6	109.6
20°	102.8	102.8	102.8	102.8
22.5°	96.0	94.9	94.9	94.9
25°	88.1	88.1	88.1	88.1
27.5°	81.3	81.3	81.3	81.3
30°	74.5	74.5	73.4	73.4
32.5°	67.8	67.8	67.8	67.8
35°	61.0	61.0	59.9	59.9
37.5°	53.1	53.1	53.1	53.1
40°	46.3	46.3	46.3	46.3
42.5°	40.7	40.7	39.5	39.5
45°	35.0	35.0	35.0	35.0
47.5°	32.8	32.8	32.8	32.8
50°	31.6	32.8	32.8	32.8
52.5°	32.8	32.8	32.8	32.8
55°	32.8	33.9	33.9	33.9
57.5°	32.8	33.9	33.9	35.0
60°	33.9	35.0	35.0	35.0
62.5°	33.9	35.0	35.0	35.0
65°	32.8	33.9	33.9	33.9
66°	32.8	32.8	32.8	33.9
67.5°	31.6	32.8	32.8	32.8
70°	30.5	31.6	31.6	32.8
72.5°	30.5	31.6	31.6	31.6
75°	29.4	29.4	30.5	30.5
77.5°	28.2	28.2	29.4	29.4
80°	27.1	28.2	28.2	28.2
82.5°	26.0	27.1	27.1	27.1
85°	23.7	24.8	24.8	24.8
87.5°	20.3	20.3	21.5	21.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)