

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: P165541

Luminaire Tested: **VST-F10-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165541
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F10-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (70) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15159 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 258.7
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

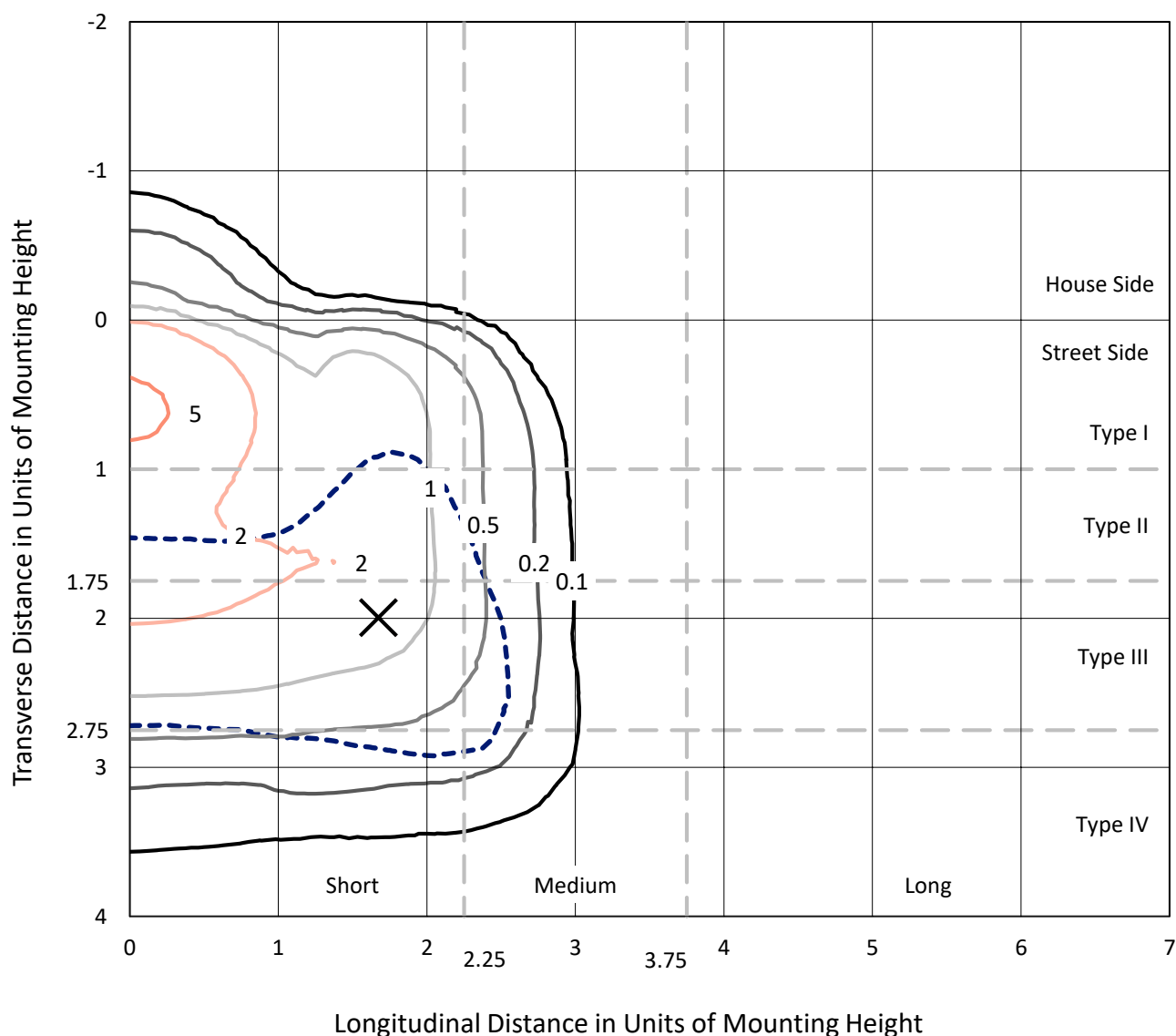


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

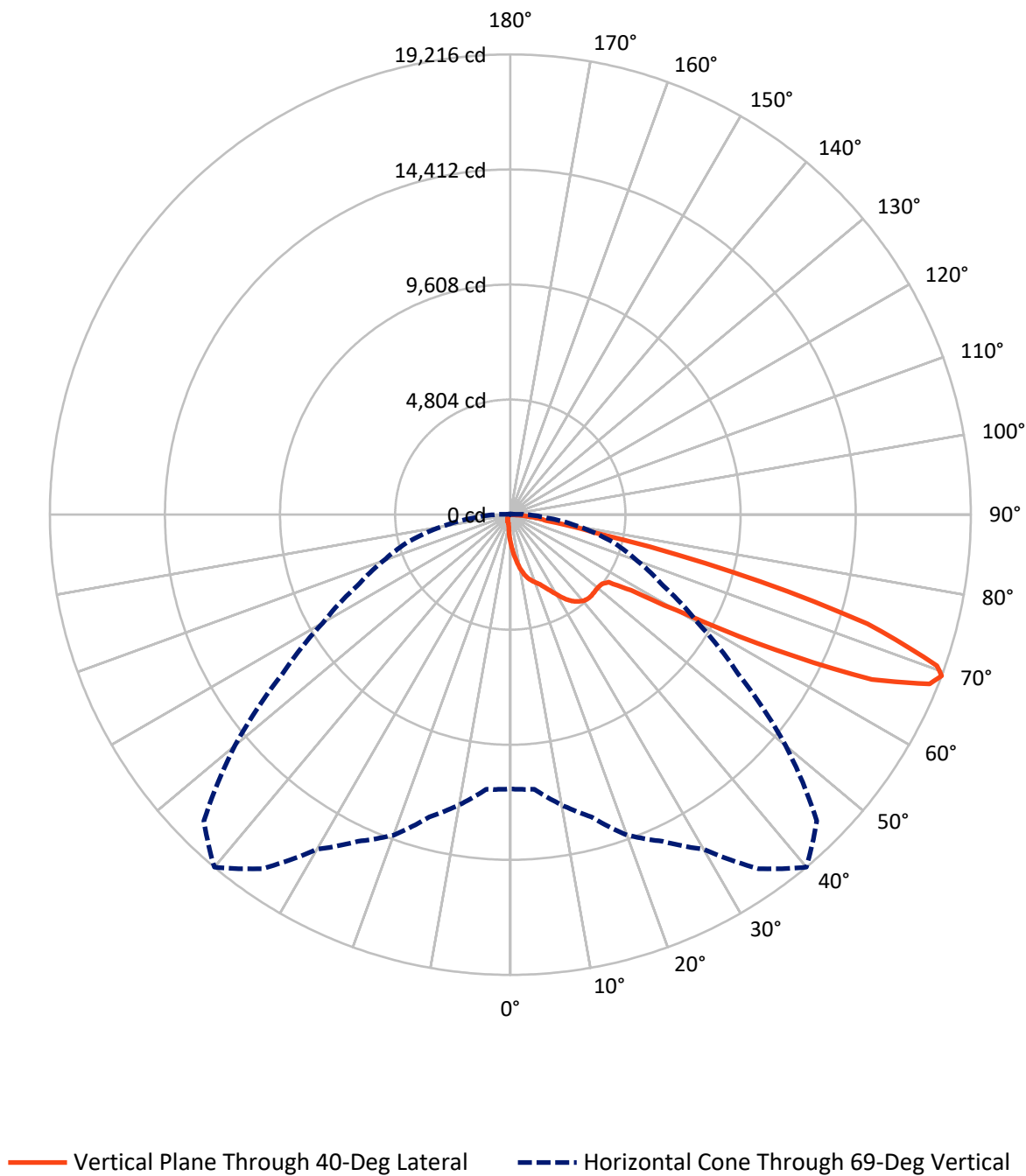


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.4	0.0	451.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	14707.5	0.0	14707.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	15159.0	0.0	15159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	0.8
10°-20°	405.7	2.7
20°-30°	776.5	5.1
30°-40°	1291.3	8.5
40°-50°	1747.3	11.5
50°-60°	2732.6	18.0
60°-70°	5618.2	37.1
70°-80°	2260.7	14.9
80°-90°	209.1	1.4
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°	15159.0	100.0
0°-180°	15159.0	100.0

Coefficient of Utilization



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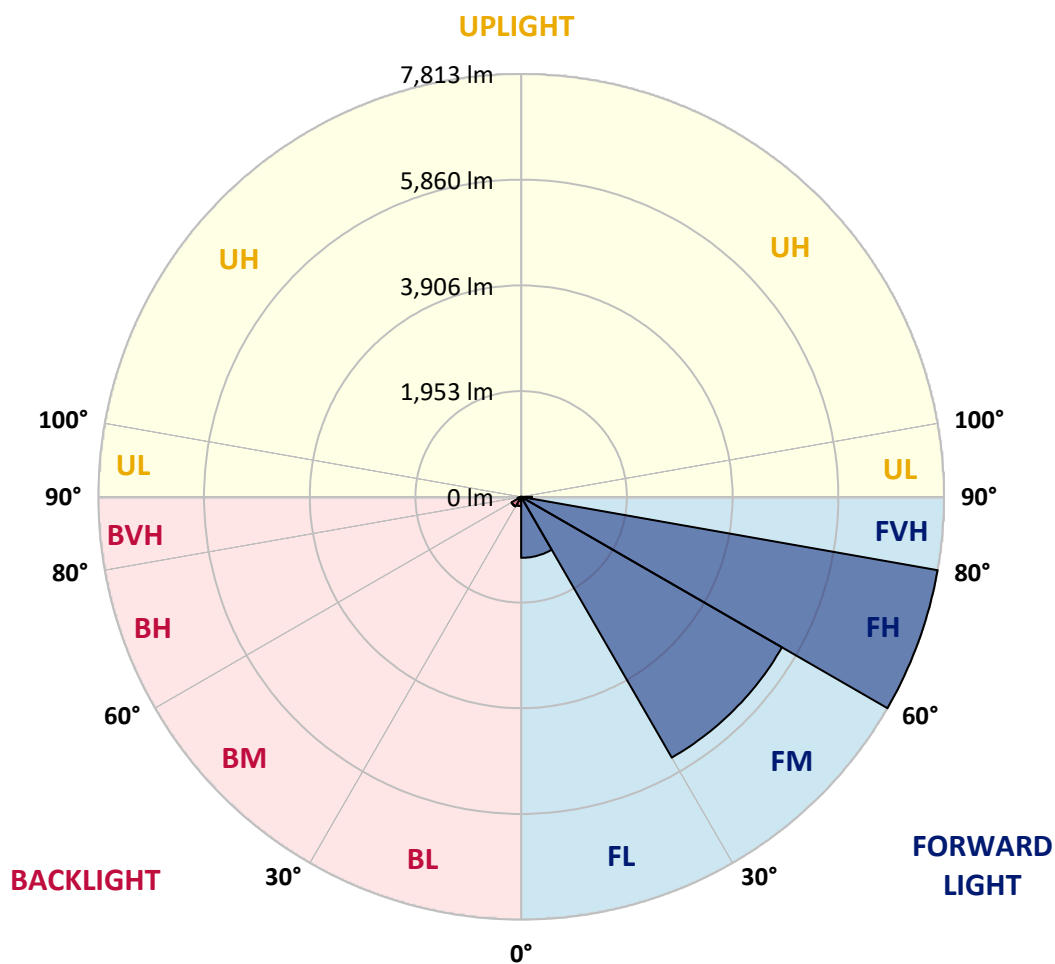
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1128.1	7.4			
FM	(30°-60°)	5565.1	36.7			
FH	(60°-80°)	7813.0	51.5			G4/12000
FVH	(80°-90°)	201.3	1.3			G2/225
BL	(0°-30°)	171.7	1.1	B1/500		
BM	(30°-60°)	206.1	1.4	B0/220		
BH	(60°-80°)	65.8	0.4	B0/110		G0/110
BVH	(80°-90°)	7.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1527.3	1509.8	1489.9	1489.9	1465.2	1465.2	1450.2	1410.6	1405.6	1383.1	1360.8
5°	1949.4	1934.4	1909.7	1887.2	1867.5	1832.7	1807.8	1760.6	1708.5	1658.8	1614.1
7.5°	2361.7	2354.1	2309.5	2301.9	2269.7	2212.7	2162.9	2093.4	2004.0	1934.4	1852.6
10°	2744.1	2726.6	2716.6	2674.4	2627.4	2565.2	2488.2	2403.9	2299.5	2190.2	2073.5
12.5°	3047.0	3037.1	2992.3	2975.0	2925.3	2863.2	2766.4	2657.1	2552.9	2411.3	2274.6
15°	3272.9	3255.6	3225.7	3198.4	3138.9	3084.3	2994.9	2875.6	2749.1	2595.1	2431.2
17.5°	3461.7	3429.5	3421.9	3379.7	3317.7	3253.0	3153.8	3044.5	2895.5	2741.5	2562.7
20°	3714.9	3670.3	3655.4	3593.2	3521.3	3431.9	3317.7	3181.1	3024.6	2855.8	2672.0
22.5°	4012.9	3980.6	3948.4	3893.8	3801.9	3675.3	3508.9	3359.9	3161.2	2975.0	2776.4
25°	4435.1	4407.8	4355.7	4281.2	4166.9	4015.5	3814.3	3595.8	3362.4	3123.9	2890.5
27.5°	4844.9	4820.0	4782.7	4725.7	4596.5	4430.2	4181.8	3903.7	3608.2	3320.1	3061.8
30°	5229.8	5207.4	5170.1	5113.1	4998.8	4834.9	4554.3	4256.3	3888.8	3553.6	3243.2
32.5°	5644.5	5637.0	5594.8	5512.9	5413.5	5192.6	4887.1	4566.8	4194.3	3806.9	3444.2
35°	6113.8	6056.7	6017.0	5935.0	5766.2	5530.2	5172.7	4822.5	4430.2	4032.8	3628.1
37.5°	6511.2	6456.6	6406.8	6302.6	6096.5	5795.9	5391.2	5006.2	4601.5	4196.7	3784.4
40°	6801.6	6774.3	6714.8	6578.1	6347.3	5989.7	5552.6	5132.9	4725.7	4318.4	3911.1
42.5°	7017.7	6975.5	6908.5	6766.9	6493.8	6086.5	5617.1	5185.1	4782.7	4392.9	3993.1
45°	7097.2	7062.5	7000.4	6846.4	6550.8	6113.8	5614.7	5170.1	4785.3	4415.2	4047.7
47.5°	7050.0	7015.3	6960.6	6816.6	6526.1	6081.6	5570.1	5127.9	4760.4	4422.8	4097.4
50°	6893.6	6873.7	6831.5	6709.8	6449.1	6019.4	5530.2	5105.6	4755.4	4460.0	4166.9
52.5°	6878.7	6866.3	6814.1	6692.4	6426.7	5999.5	5525.3	5118.1	4797.7	4507.2	4216.6
55°	8405.8	8229.5	7834.7	7499.5	6948.2	6292.7	5776.0	5319.1	4976.5	4693.5	4489.7
57.5°	11947.0	11683.9	11164.8	10526.7	9260.1	8016.0	7020.3	6300.1	5944.9	5815.9	5892.8
60°	13605.8	13558.8	13476.7	13173.8	12525.6	11455.4	10263.4	8974.6	8458.0	8413.4	8569.7
62.5°	14393.1	14363.3	14388.2	14350.9	14149.7	13836.8	13494.1	12937.9	12426.3	12096.0	11395.7
65°	14755.7	14775.6	14917.0	15028.7	15053.6	15135.5	15386.4	16079.2	16585.7	15734.0	13789.6
67.5°	13834.3	13951.0	14276.4	14683.6	15160.4	15622.3	16367.2	17827.4	18867.9	17867.2	15105.8
69°	11452.9	11510.0	12304.6	13072.0	14236.6	15051.2	16131.4	18045.9	19215.7	18085.7	15001.5
70°	9016.7	9068.9	9920.7	10963.7	12932.9	13980.8	15393.8	17676.0	18890.3	17795.2	14465.1
72.5°	4067.6	3993.1	4293.5	4852.2	6992.8	8656.7	11127.6	14321.1	15585.0	14256.5	10822.1
75°	2840.9	2808.6	2840.9	2843.3	3176.1	4097.4	5170.1	7762.7	9600.3	8284.3	5170.1
77.5°	2200.2	2177.8	2155.5	2130.6	2170.4	2431.2	2535.4	2753.9	3575.9	3382.3	1971.7
80°	1740.8	1720.9	1775.5	1758.2	1758.2	1788.0	1768.1	1686.1	1532.1	1420.4	1271.4
82.5°	809.5	814.5	814.5	884.0	1065.4	1244.1	1301.2	1219.4	1082.7	921.2	742.5
85°	76.9	86.9	146.6	226.0	449.5	506.5	509.1	422.1	422.1	332.8	268.1
87.5°	0.0	2.4	2.4	2.4	22.3	62.1	52.2	14.9	7.4	7.4	12.4
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°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1321.1	1313.6	1283.9	1254.0	1226.7	1196.9	1169.6	1142.3	1112.4	1090.1	1062.8
5°	1544.6	1489.9	1427.9	1368.3	1308.6	1246.7	1182.1	1125.0	1065.4	1010.7	958.5
7.5°	1770.5	1663.8	1579.3	1472.5	1375.7	1278.9	1189.5	1097.7	1013.2	933.7	859.3
10°	1961.7	1832.7	1701.0	1564.5	1425.3	1296.3	1172.2	1062.8	951.1	854.3	762.4
12.5°	2118.3	1954.4	1793.0	1621.5	1465.2	1301.2	1147.3	1015.6	884.0	774.8	680.4
15°	2259.7	2071.1	1877.3	1678.7	1480.1	1293.9	1122.4	958.5	824.4	700.3	593.5
17.5°	2374.0	2157.9	1939.4	1715.9	1502.4	1283.9	1090.1	918.8	762.4	633.2	529.0
20°	2473.4	2247.4	2011.5	1760.6	1517.3	1281.3	1062.8	869.2	707.7	571.2	469.3
22.5°	2565.2	2339.2	2086.0	1817.7	1539.7	1278.9	1037.9	832.0	660.5	524.0	422.1
25°	2669.6	2431.2	2165.5	1877.3	1579.3	1288.9	1023.2	802.1	618.3	479.2	384.8
27.5°	2786.3	2535.4	2259.7	1951.8	1631.5	1308.6	1018.2	769.8	581.0	437.0	355.1
30°	2950.1	2659.6	2354.1	2026.3	1678.7	1331.1	1013.2	749.9	543.8	404.7	325.3
32.5°	3094.2	2781.3	2458.5	2103.3	1730.9	1353.4	1010.7	722.6	509.1	372.5	303.0
35°	3245.6	2893.1	2547.9	2177.8	1775.5	1378.1	1008.2	702.7	476.8	340.2	280.6
37.5°	3377.3	2987.3	2617.4	2242.4	1825.3	1400.6	1010.7	685.4	447.0	312.9	260.7
40°	3489.0	3084.3	2694.3	2301.9	1877.3	1435.3	1013.2	668.0	417.3	288.0	243.4
42.5°	3588.4	3176.1	2776.4	2369.0	1937.0	1475.1	1028.1	653.1	392.4	265.7	226.0
45°	3665.3	3260.6	2865.6	2463.4	2033.8	1539.7	1055.4	643.2	367.5	245.8	211.1
47.5°	3744.8	3384.7	3017.2	2612.4	2175.4	1641.4	1102.6	640.7	347.6	230.9	198.6
50°	3854.1	3508.9	3151.2	2763.8	2304.5	1745.8	1159.6	643.2	322.9	216.1	186.2
52.5°	3933.6	3635.5	3325.1	3027.1	2612.4	2063.5	1380.7	687.8	310.3	203.6	171.3
55°	4402.9	4350.7	4358.1	4407.8	4087.5	3511.3	2309.5	993.3	365.1	230.9	168.9
57.5°	6208.2	6391.9	6498.7	6496.3	5967.3	4949.2	3101.6	1276.4	407.3	268.1	201.2
60°	8582.3	8443.2	8247.0	7762.7	7059.9	5649.5	3469.1	1373.3	352.6	213.5	183.8
62.5°	10680.6	9866.0	9143.4	8358.8	7437.4	5892.8	3543.6	1365.8	307.9	161.4	129.1
65°	11989.3	10524.1	9357.1	8373.5	7288.4	5689.2	3352.4	1254.0	260.7	131.6	106.8
67.5°	12302.2	10169.0	8517.7	7263.5	6088.9	4427.8	2460.9	943.7	203.6	109.3	94.4
69°	11619.2	9039.2	7057.5	5634.6	4430.2	2937.7	1522.3	596.0	156.4	99.4	86.9
70°	10688.0	7862.0	5748.7	4522.0	3280.5	2063.5	1065.4	419.7	126.7	91.8	79.5
72.5°	6876.3	4129.6	2826.0	1966.7	1353.4	822.0	417.3	188.8	96.8	76.9	64.5
75°	2667.0	1527.3	1107.6	841.8	658.1	456.9	253.3	121.7	81.9	64.5	49.6
77.5°	1313.6	1005.7	822.0	563.7	327.8	203.6	136.6	94.4	67.1	47.2	32.3
80°	1037.9	690.4	412.3	255.8	193.6	146.6	104.4	76.9	49.6	29.9	22.3
82.5°	531.4	290.6	213.5	173.9	144.0	114.3	84.4	54.6	32.3	19.9	17.3
85°	166.3	121.7	109.3	106.8	99.4	81.9	59.6	34.8	19.9	12.4	12.4
87.5°	12.4	17.3	22.3	17.3	19.9	17.3	22.3	14.9	10.0	10.0	7.4
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°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1042.9	1013.2	985.9	968.4	936.2	923.8	911.4	906.5	884.0	889.0	869.2
5°	911.4	859.3	819.4	779.8	742.5	715.2	692.8	665.5	643.2	633.2	613.3
7.5°	792.1	725.2	673.0	630.8	586.0	551.3	521.5	501.6	481.8	461.9	451.9
10°	687.8	615.9	556.3	514.1	471.8	442.0	419.7	404.7	392.4	384.8	382.4
12.5°	591.0	521.5	466.9	429.6	397.4	382.4	372.5	365.1	362.5	360.1	360.1
15°	516.5	447.0	404.7	377.4	362.5	355.1	352.6	347.6	342.8	340.2	340.2
17.5°	447.0	394.8	365.1	350.2	342.8	337.8	332.8	327.8	322.9	320.3	320.3
20°	399.8	357.5	342.8	332.8	325.3	320.3	312.9	307.9	305.5	303.0	300.5
22.5°	362.5	335.2	325.3	317.9	307.9	300.5	295.6	290.6	285.6	283.0	280.6
25°	335.2	317.9	310.3	300.5	290.6	283.0	275.7	268.1	263.3	260.7	255.8
27.5°	315.3	303.0	293.0	280.6	270.7	263.3	255.8	248.4	243.4	238.4	235.8
30°	298.0	285.6	273.1	263.3	250.8	243.4	233.4	226.0	223.5	218.5	213.5
32.5°	280.6	268.1	255.8	243.4	230.9	221.1	216.1	206.1	201.2	198.6	193.6
35°	260.7	248.4	233.4	223.5	211.1	201.2	193.6	186.2	181.3	176.3	173.9
37.5°	243.4	228.5	213.5	201.2	191.2	181.3	173.9	166.3	161.4	156.4	154.0
40°	223.5	208.6	193.6	181.3	171.3	163.9	156.4	149.0	144.0	141.6	141.6
42.5°	206.1	188.8	173.9	163.9	156.4	146.6	139.0	131.6	129.1	126.7	129.1
45°	188.8	171.3	158.9	149.0	141.6	131.6	124.1	119.1	116.7	119.1	121.7
47.5°	173.9	156.4	144.0	136.6	129.1	121.7	114.3	109.3	109.3	114.3	119.1
50°	158.9	141.6	131.6	126.7	119.1	111.7	101.8	99.4	101.8	106.8	111.7
52.5°	144.0	124.1	116.7	114.3	106.8	99.4	91.8	89.4	91.8	96.8	94.4
55°	129.1	109.3	106.8	104.4	96.8	86.9	79.5	79.5	79.5	76.9	72.1
57.5°	124.1	96.8	94.4	91.8	84.4	74.5	69.5	64.5	62.1	54.6	52.2
60°	129.1	86.9	86.9	81.9	74.5	64.5	57.2	49.6	44.6	39.7	39.7
62.5°	104.4	79.5	76.9	72.1	62.1	52.2	44.6	37.2	34.8	32.3	32.3
65°	84.4	72.1	67.1	59.6	52.2	42.2	34.8	29.9	27.3	27.3	29.9
67.5°	76.9	64.5	57.2	49.6	42.2	32.3	27.3	24.9	24.9	27.3	27.3
69°	72.1	59.6	52.2	44.6	37.2	29.9	24.9	24.9	24.9	24.9	27.3
70°	67.1	57.2	49.6	42.2	32.3	24.9	22.3	22.3	24.9	24.9	27.3
72.5°	52.2	44.6	42.2	34.8	24.9	22.3	19.9	22.3	22.3	24.9	24.9
75°	39.7	32.3	32.3	27.3	19.9	17.3	17.3	19.9	19.9	22.3	22.3
77.5°	27.3	22.3	22.3	19.9	17.3	14.9	14.9	17.3	19.9	19.9	22.3
80°	19.9	17.3	14.9	17.3	14.9	12.4	14.9	17.3	17.3	19.9	19.9
82.5°	14.9	14.9	14.9	14.9	12.4	12.4	14.9	14.9	17.3	19.9	19.9
85°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	14.9	14.9	17.3	17.3
87.5°	7.4	7.4	7.4	10.0	10.0	12.4	12.4	12.4	12.4	14.9	14.9
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°	1144.9	1144.9	1144.9	1144.9
2.5°	864.2	861.7	851.7	854.3
5°	605.9	591.0	600.9	598.5
7.5°	444.6	442.0	439.6	444.6
10°	380.0	380.0	377.4	380.0
12.5°	357.5	357.5	357.5	357.5
15°	340.2	340.2	337.8	337.8
17.5°	320.3	320.3	320.3	317.9
20°	300.5	298.0	298.0	298.0
22.5°	278.1	275.7	275.7	275.7
25°	255.8	253.3	253.3	253.3
27.5°	233.4	230.9	228.5	228.5
30°	211.1	208.6	206.1	206.1
32.5°	188.8	186.2	183.8	183.8
35°	168.9	168.9	166.3	163.9
37.5°	151.6	151.6	151.6	151.6
40°	139.0	141.6	141.6	141.6
42.5°	131.6	134.1	136.6	139.0
45°	126.7	131.6	134.1	134.1
47.5°	124.1	126.7	129.1	129.1
50°	114.3	111.7	111.7	111.7
52.5°	91.8	86.9	84.4	81.9
55°	67.1	64.5	59.6	59.6
57.5°	47.2	47.2	44.6	44.6
60°	37.2	37.2	34.8	37.2
62.5°	32.3	32.3	32.3	32.3
65°	29.9	29.9	29.9	29.9
67.5°	29.9	29.9	29.9	29.9
69°	27.3	27.3	27.3	27.3
70°	27.3	27.3	27.3	27.3
72.5°	24.9	24.9	24.9	24.9
75°	22.3	24.9	24.9	24.9
77.5°	22.3	22.3	22.3	22.3
80°	19.9	19.9	22.3	22.3
82.5°	19.9	19.9	19.9	19.9
85°	17.3	17.3	19.9	19.9
87.5°	14.9	14.9	17.3	17.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)