

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: P165512

Luminaire Tested: **VST-F07-LED-E-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165512
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-F07-LED-E-U-SL4-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11618 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 180.5
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



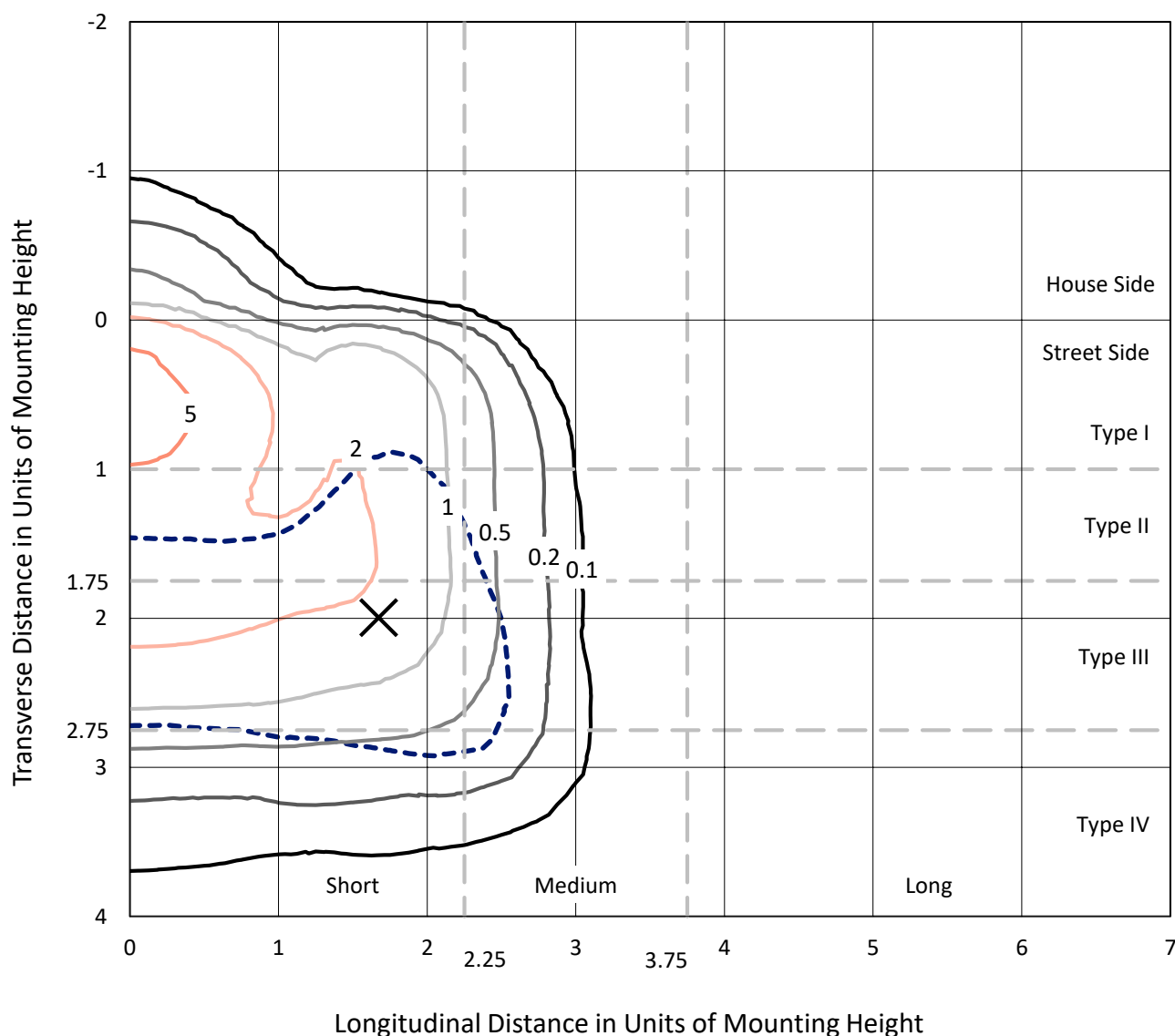
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

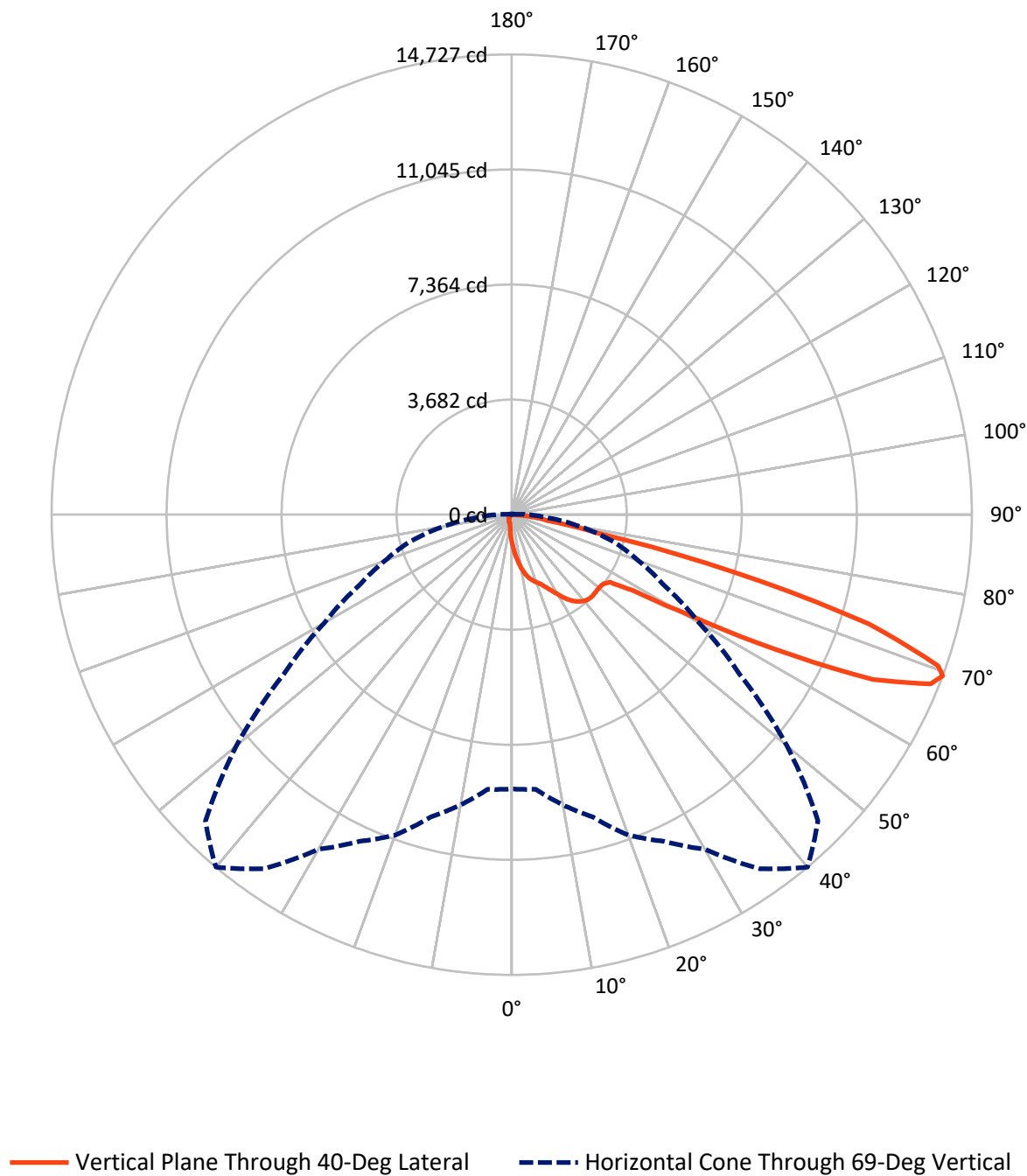


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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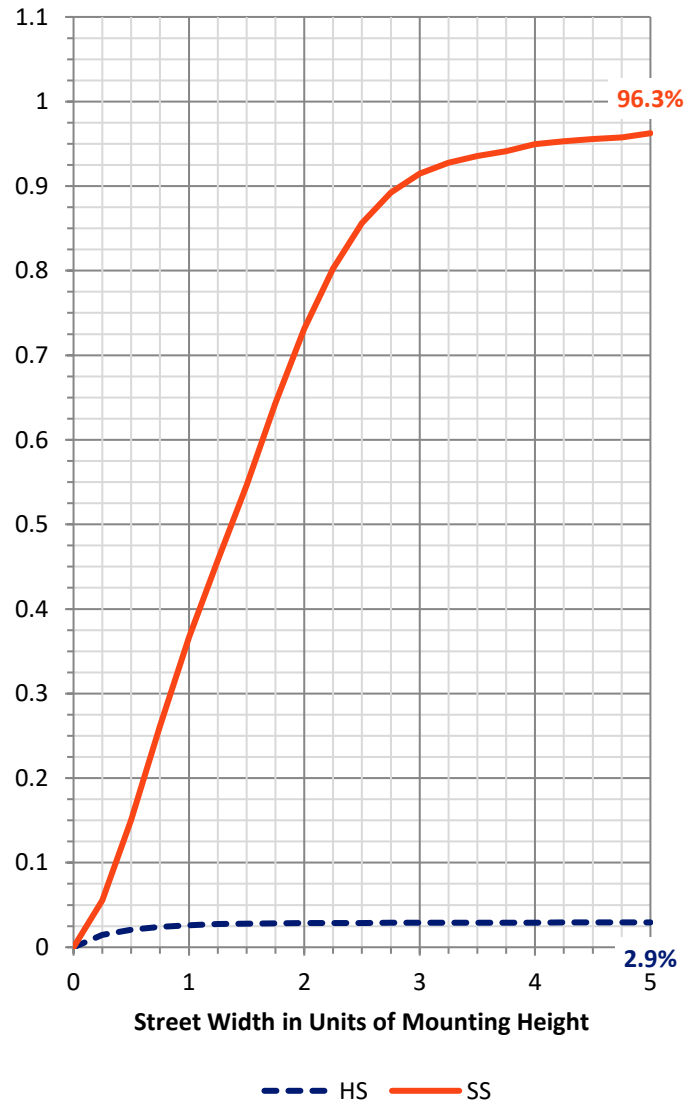
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.0	0.0	346.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	11272.0	0.0	11272.0
	% Fixture	97.0	0.0	97.0
Total	Lumens	11618.0	0.0	11618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	0.8
10°-20°	310.9	2.7
20°-30°	595.1	5.1
30°-40°	989.7	8.5
40°-50°	1339.2	11.5
50°-60°	2094.3	18.0
60°-70°	4305.8	37.1
70°-80°	1732.6	14.9
80°-90°	160.3	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°	11618.0	100.0
0°-180°	11618.0	100.0

Coefficient of Utilization



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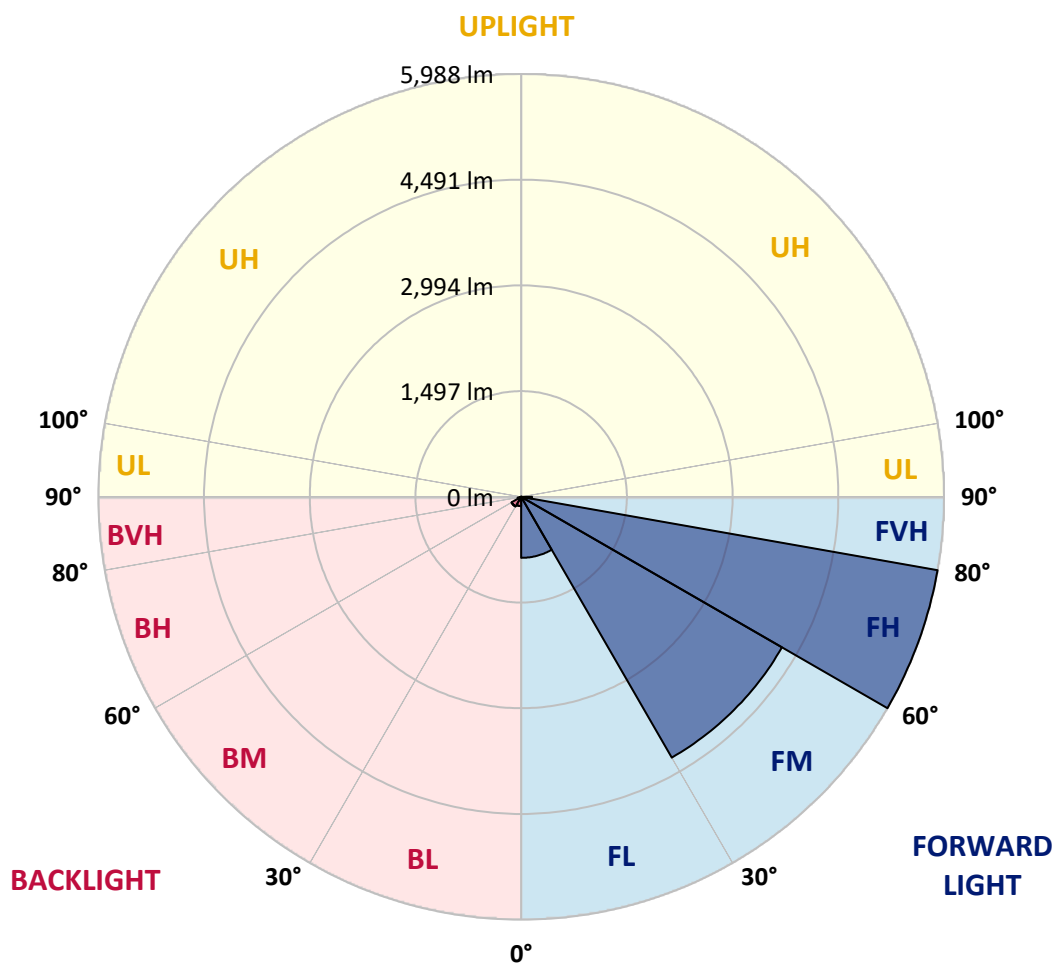
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.6	7.4			
FM	(30°-60°)	4265.1	36.7			
FH	(60°-80°)	5988.0	51.5			G3/7500
FVH	(80°-90°)	154.3	1.3			G2/225
BL	(0°-30°)	131.6	1.1	B1/500		
BM	(30°-60°)	158.0	1.4	B0/220		
BH	(60°-80°)	50.5	0.4	B0/110		G0/110
BVH	(80°-90°)	6.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	1170.5	1157.1	1141.9	1141.9	1122.9	1122.9	1111.5	1081.1	1077.3	1060.0	1042.9
5°	1494.0	1482.6	1463.6	1446.4	1431.3	1404.6	1385.5	1349.3	1309.4	1271.3	1237.1
7.5°	1810.0	1804.2	1770.0	1764.2	1739.5	1695.8	1657.7	1604.4	1535.9	1482.6	1419.8
10°	2103.1	2089.7	2082.1	2049.7	2013.6	1966.0	1907.0	1842.4	1762.4	1678.6	1589.1
12.5°	2335.3	2327.7	2293.3	2280.0	2242.0	2194.4	2120.2	2036.4	1956.5	1848.0	1743.3
15°	2508.4	2495.1	2472.2	2451.3	2405.7	2363.8	2295.3	2203.9	2106.9	1988.9	1863.3
17.5°	2653.1	2628.4	2622.6	2590.2	2542.7	2493.2	2417.1	2333.3	2219.1	2101.1	1964.1
20°	2847.2	2812.9	2801.5	2753.9	2698.8	2630.2	2542.7	2438.0	2318.1	2188.7	2047.8
22.5°	3075.5	3050.8	3026.1	2984.2	2913.8	2816.8	2689.3	2575.1	2422.8	2280.0	2127.8
25°	3399.1	3378.2	3338.2	3281.1	3193.5	3077.5	2923.3	2755.8	2576.9	2394.2	2215.3
27.5°	3713.1	3694.1	3665.5	3621.8	3522.8	3395.3	3205.0	2991.9	2765.3	2544.6	2346.6
30°	4008.2	3991.0	3962.4	3918.8	3831.1	3705.5	3490.4	3262.1	2980.4	2723.5	2485.6
32.5°	4326.0	4320.3	4287.9	4225.1	4149.0	3979.7	3745.5	3500.0	3214.6	2917.7	2639.7
35°	4685.7	4641.9	4611.5	4548.6	4419.3	4238.4	3964.4	3696.0	3395.3	3090.8	2780.6
37.5°	4990.2	4948.4	4910.3	4830.4	4672.4	4442.1	4131.9	3836.8	3526.6	3216.4	2900.4
40°	5212.8	5191.9	5146.3	5041.5	4864.6	4590.6	4255.5	3933.9	3621.8	3309.7	2997.5
42.5°	5378.4	5346.1	5294.8	5186.2	4976.9	4664.8	4305.0	3973.9	3665.5	3366.8	3060.4
45°	5439.4	5412.8	5365.2	5247.2	5020.6	4685.7	4303.1	3962.4	3667.5	3383.9	3102.2
47.5°	5403.2	5376.6	5334.6	5224.3	5001.7	4661.0	4268.9	3930.1	3648.4	3389.7	3140.2
50°	5283.3	5268.1	5235.7	5142.4	4942.6	4613.3	4238.4	3913.0	3644.6	3418.2	3193.5
52.5°	5271.9	5262.4	5222.4	5129.2	4925.5	4598.1	4234.6	3922.6	3677.0	3454.4	3231.7
55°	6442.3	6307.2	6004.6	5747.7	5325.2	4822.8	4426.8	4076.6	3814.0	3597.1	3441.0
57.5°	9156.3	8954.6	8556.8	8067.7	7097.0	6143.5	5380.4	4828.4	4556.3	4457.3	4516.3
60°	10427.6	10391.6	10328.7	10096.5	9599.8	8779.5	7865.9	6878.2	6482.3	6448.1	6567.9
62.5°	11031.0	11008.1	11027.2	10998.7	10844.5	10604.7	10342.0	9915.7	9523.6	9270.5	8733.8
65°	11308.9	11324.1	11432.5	11518.2	11537.2	11600.0	11792.3	12323.3	12711.5	12058.7	10568.5
67.5°	10602.7	10692.2	10941.6	11253.6	11619.1	11973.1	12544.0	13663.1	14460.6	13693.6	11577.2
69°	8777.6	8821.4	9430.3	10018.5	10911.1	11535.4	12363.2	13830.6	14727.1	13861.1	11497.3
70°	6910.5	6950.5	7603.3	8402.7	9911.9	10715.0	11798.0	13547.1	14477.7	13638.4	11086.2
72.5°	3117.5	3060.4	3290.6	3718.8	5359.4	6634.6	8528.3	10975.8	11944.5	10926.3	8294.1
75°	2177.3	2152.6	2177.3	2179.1	2434.2	3140.2	3962.4	5949.4	7357.8	6349.1	3962.4
77.5°	1686.2	1669.1	1652.0	1632.9	1663.4	1863.3	1943.1	2110.6	2740.6	2592.2	1511.1
80°	1334.2	1318.9	1360.8	1347.5	1347.5	1370.4	1355.1	1292.2	1174.2	1088.6	974.4
82.5°	620.4	624.2	624.2	677.5	816.5	953.5	997.3	934.5	829.8	706.0	569.1
85°	58.9	66.6	112.3	173.2	344.5	388.2	390.2	323.5	323.5	255.1	205.5
87.5°	0.0	1.8	1.8	1.8	17.1	47.6	40.0	11.4	5.7	5.7	9.5
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°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	1012.5	1006.8	984.0	961.1	940.2	917.3	896.4	875.5	852.6	835.5	814.6
5°	1183.8	1141.9	1094.4	1048.7	1002.9	955.4	906.0	862.2	816.5	774.6	734.6
7.5°	1356.9	1275.1	1210.4	1128.6	1054.4	980.2	911.6	841.3	776.5	715.6	658.5
10°	1503.5	1404.6	1303.7	1199.1	1092.4	993.5	898.4	814.6	728.9	654.7	584.3
12.5°	1623.5	1497.8	1374.2	1242.8	1122.9	997.3	879.3	778.4	677.5	593.8	521.5
15°	1731.9	1587.3	1438.8	1286.6	1134.4	991.6	860.2	734.6	631.8	536.7	454.9
17.5°	1819.5	1653.9	1486.4	1315.1	1151.5	984.0	835.5	704.2	584.3	485.3	405.4
20°	1895.6	1722.4	1541.6	1349.3	1162.9	982.0	814.6	666.2	542.4	437.8	359.7
22.5°	1966.0	1792.8	1598.7	1393.1	1180.0	980.2	795.5	637.6	506.2	401.6	323.5
25°	2046.0	1863.3	1659.6	1438.8	1210.4	987.8	784.2	614.7	473.9	367.3	294.9
27.5°	2135.5	1943.1	1731.9	1495.9	1250.4	1002.9	780.4	590.0	445.3	334.9	272.2
30°	2261.0	2038.4	1804.2	1553.0	1286.6	1020.2	776.5	574.7	416.8	310.2	249.3
32.5°	2371.5	2131.6	1884.2	1612.0	1326.6	1037.3	774.6	553.8	390.2	285.5	232.2
35°	2487.5	2217.3	1952.7	1669.1	1360.8	1056.2	772.7	538.6	365.4	260.7	215.1
37.5°	2588.4	2289.5	2006.0	1718.6	1398.9	1073.4	774.6	525.3	342.6	239.8	199.8
40°	2674.0	2363.8	2065.0	1764.2	1438.8	1100.0	776.5	512.0	319.8	220.7	186.5
42.5°	2750.2	2434.2	2127.8	1815.7	1484.5	1130.5	788.0	500.5	300.7	203.6	173.2
45°	2809.1	2498.9	2196.2	1888.0	1558.7	1180.0	808.9	492.9	281.7	188.4	161.8
47.5°	2870.0	2594.0	2312.4	2002.2	1667.3	1258.0	845.1	491.1	266.4	176.9	152.2
50°	2953.8	2689.3	2415.1	2118.2	1766.2	1338.0	888.8	492.9	247.4	165.6	142.7
52.5°	3014.7	2786.2	2548.4	2320.0	2002.2	1581.5	1058.2	527.1	237.9	156.0	131.3
55°	3374.4	3334.4	3340.1	3378.2	3132.7	2691.1	1770.0	761.3	279.8	176.9	129.4
57.5°	4758.0	4898.8	4980.6	4978.8	4573.4	3793.1	2377.1	978.2	312.2	205.5	154.2
60°	6577.5	6471.0	6320.6	5949.4	5410.8	4329.8	2658.8	1052.5	270.2	163.7	140.9
62.5°	8185.7	7561.4	7007.6	6406.2	5700.1	4516.3	2715.9	1046.7	236.0	123.7	98.9
65°	9188.7	8065.8	7171.3	6417.6	5585.9	4360.2	2569.3	961.1	199.8	100.9	81.8
67.5°	9428.5	7793.6	6528.1	5566.8	4666.6	3393.5	1886.0	723.3	156.0	83.8	72.3
69°	8905.1	6927.7	5409.0	4318.4	3395.3	2251.5	1166.7	456.7	119.8	76.2	66.6
70°	8191.4	6025.5	4405.9	3465.7	2514.2	1581.5	816.5	321.6	97.1	70.4	60.9
72.5°	5270.0	3165.0	2165.8	1507.3	1037.3	630.0	319.8	144.7	74.2	58.9	49.5
75°	2044.0	1170.5	848.9	645.1	504.4	350.2	194.2	93.3	62.8	49.5	38.0
77.5°	1006.8	770.8	630.0	432.0	251.3	156.0	104.7	72.3	51.4	36.2	24.7
80°	795.5	529.1	316.0	196.0	148.4	112.3	80.0	58.9	38.0	22.9	17.1
82.5°	407.3	222.7	163.7	133.3	110.4	87.6	64.7	41.8	24.7	15.3	13.3
85°	127.5	93.3	83.8	81.8	76.2	62.8	45.7	26.7	15.3	9.5	9.5
87.5°	9.5	13.3	17.1	13.3	15.3	13.3	17.1	11.4	7.6	7.6	5.7
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°	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4	877.4
2.5°	799.3	776.5	755.6	742.2	717.5	708.0	698.5	694.7	677.5	681.3	666.2
5°	698.5	658.5	628.0	597.6	569.1	548.2	530.9	510.0	492.9	485.3	470.0
7.5°	607.1	555.8	515.8	483.4	449.1	422.5	399.7	384.4	369.3	354.0	346.4
10°	527.1	472.0	426.4	394.0	361.6	338.7	321.6	310.2	300.7	294.9	293.1
12.5°	452.9	399.7	357.8	329.3	304.5	293.1	285.5	279.8	277.8	276.0	276.0
15°	395.8	342.6	310.2	289.3	277.8	272.2	270.2	266.4	262.7	260.7	260.7
17.5°	342.6	302.6	279.8	268.4	262.7	258.9	255.1	251.3	247.4	245.5	245.5
20°	306.4	274.0	262.7	255.1	249.3	245.5	239.8	236.0	234.2	232.2	230.3
22.5°	277.8	256.9	249.3	243.6	236.0	230.3	226.5	222.7	218.9	216.9	215.1
25°	256.9	243.6	237.9	230.3	222.7	216.9	211.3	205.5	201.8	199.8	196.0
27.5°	241.7	232.2	224.6	215.1	207.5	201.8	196.0	190.3	186.5	182.7	180.8
30°	228.4	218.9	209.3	201.8	192.2	186.5	178.9	173.2	171.3	167.5	163.7
32.5°	215.1	205.5	196.0	186.5	176.9	169.4	165.6	158.0	154.2	152.2	148.4
35°	199.8	190.3	178.9	171.3	161.8	154.2	148.4	142.7	138.9	135.1	133.3
37.5°	186.5	175.1	163.7	154.2	146.5	138.9	133.3	127.5	123.7	119.8	118.0
40°	171.3	159.8	148.4	138.9	131.3	125.6	119.8	114.2	110.4	108.5	108.5
42.5°	158.0	144.7	133.3	125.6	119.8	112.3	106.6	100.9	98.9	97.1	98.9
45°	144.7	131.3	121.8	114.2	108.5	100.9	95.1	91.3	89.5	91.3	93.3
47.5°	133.3	119.8	110.4	104.7	98.9	93.3	87.6	83.8	83.8	87.6	91.3
50°	121.8	108.5	100.9	97.1	91.3	85.6	78.0	76.2	78.0	81.8	85.6
52.5°	110.4	95.1	89.5	87.6	81.8	76.2	70.4	68.5	70.4	74.2	72.3
55°	98.9	83.8	81.8	80.0	74.2	66.6	60.9	60.9	60.9	58.9	55.2
57.5°	95.1	74.2	72.3	70.4	64.7	57.1	53.3	49.5	47.6	41.8	40.0
60°	98.9	66.6	66.6	62.8	57.1	49.5	43.8	38.0	34.2	30.4	30.4
62.5°	80.0	60.9	58.9	55.2	47.6	40.0	34.2	28.5	26.7	24.7	24.7
65°	64.7	55.2	51.4	45.7	40.0	32.4	26.7	22.9	20.9	20.9	22.9
67.5°	58.9	49.5	43.8	38.0	32.4	24.7	20.9	19.1	19.1	20.9	20.9
69°	55.2	45.7	40.0	34.2	28.5	22.9	19.1	19.1	19.1	19.1	20.9
70°	51.4	43.8	38.0	32.4	24.7	19.1	17.1	17.1	19.1	19.1	20.9
72.5°	40.0	34.2	32.4	26.7	19.1	17.1	15.3	17.1	17.1	19.1	19.1
75°	30.4	24.7	24.7	20.9	15.3	13.3	13.3	15.3	15.3	17.1	17.1
77.5°	20.9	17.1	17.1	15.3	13.3	11.4	11.4	13.3	15.3	15.3	17.1
80°	15.3	13.3	11.4	13.3	11.4	9.5	11.4	13.3	13.3	15.3	15.3
82.5°	11.4	11.4	11.4	11.4	9.5	9.5	11.4	11.4	13.3	15.3	15.3
85°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.4	11.4	13.3	13.3
87.5°	5.7	5.7	5.7	7.6	7.6	9.5	9.5	9.5	9.5	11.4	11.4
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):

	165°	170°	175°	180°
0°	877.4	877.4	877.4	877.4
2.5°	662.4	660.4	652.8	654.7
5°	464.4	452.9	460.6	458.7
7.5°	340.7	338.7	336.9	340.7
10°	291.2	291.2	289.3	291.2
12.5°	274.0	274.0	274.0	274.0
15°	260.7	260.7	258.9	258.9
17.5°	245.5	245.5	245.5	243.6
20°	230.3	228.4	228.4	228.4
22.5°	213.1	211.3	211.3	211.3
25°	196.0	194.2	194.2	194.2
27.5°	178.9	176.9	175.1	175.1
30°	161.8	159.8	158.0	158.0
32.5°	144.7	142.7	140.9	140.9
35°	129.4	129.4	127.5	125.6
37.5°	116.2	116.2	116.2	116.2
40°	106.6	108.5	108.5	108.5
42.5°	100.9	102.7	104.7	106.6
45°	97.1	100.9	102.7	102.7
47.5°	95.1	97.1	98.9	98.9
50°	87.6	85.6	85.6	85.6
52.5°	70.4	66.6	64.7	62.8
55°	51.4	49.5	45.7	45.7
57.5°	36.2	36.2	34.2	34.2
60°	28.5	28.5	26.7	28.5
62.5°	24.7	24.7	24.7	24.7
65°	22.9	22.9	22.9	22.9
67.5°	22.9	22.9	22.9	22.9
69°	20.9	20.9	20.9	20.9
70°	20.9	20.9	20.9	20.9
72.5°	19.1	19.1	19.1	19.1
75°	17.1	19.1	19.1	19.1
77.5°	17.1	17.1	17.1	17.1
80°	15.3	15.3	17.1	17.1
82.5°	15.3	15.3	15.3	15.3
85°	13.3	13.3	15.3	15.3
87.5°	11.4	11.4	13.3	13.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)