

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: P165510

Luminaire Tested: **VST-F07-LED-E-U-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165510
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9805.5 lumens
Efficiency: N/A
Efficacy: 54.3 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



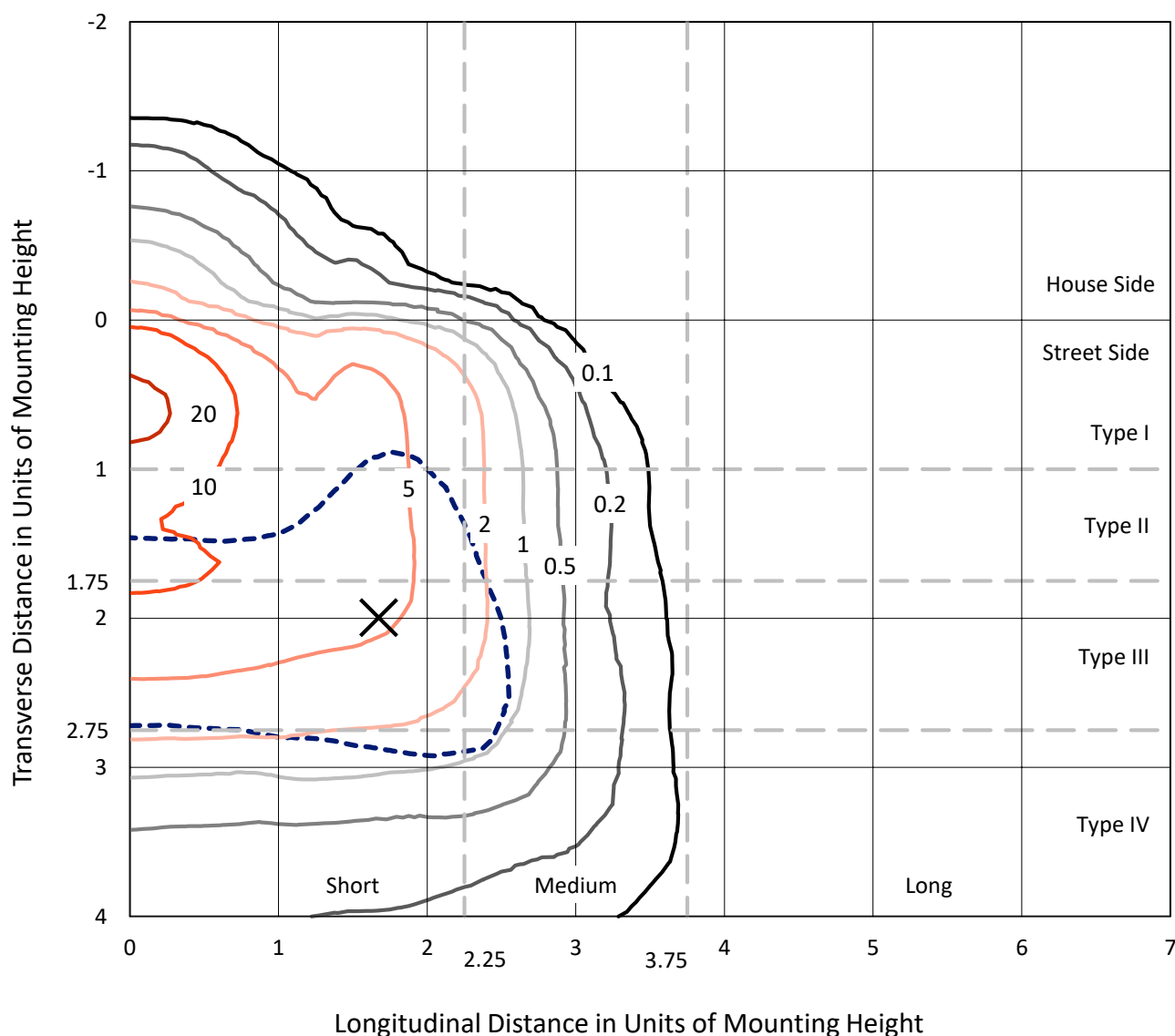
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

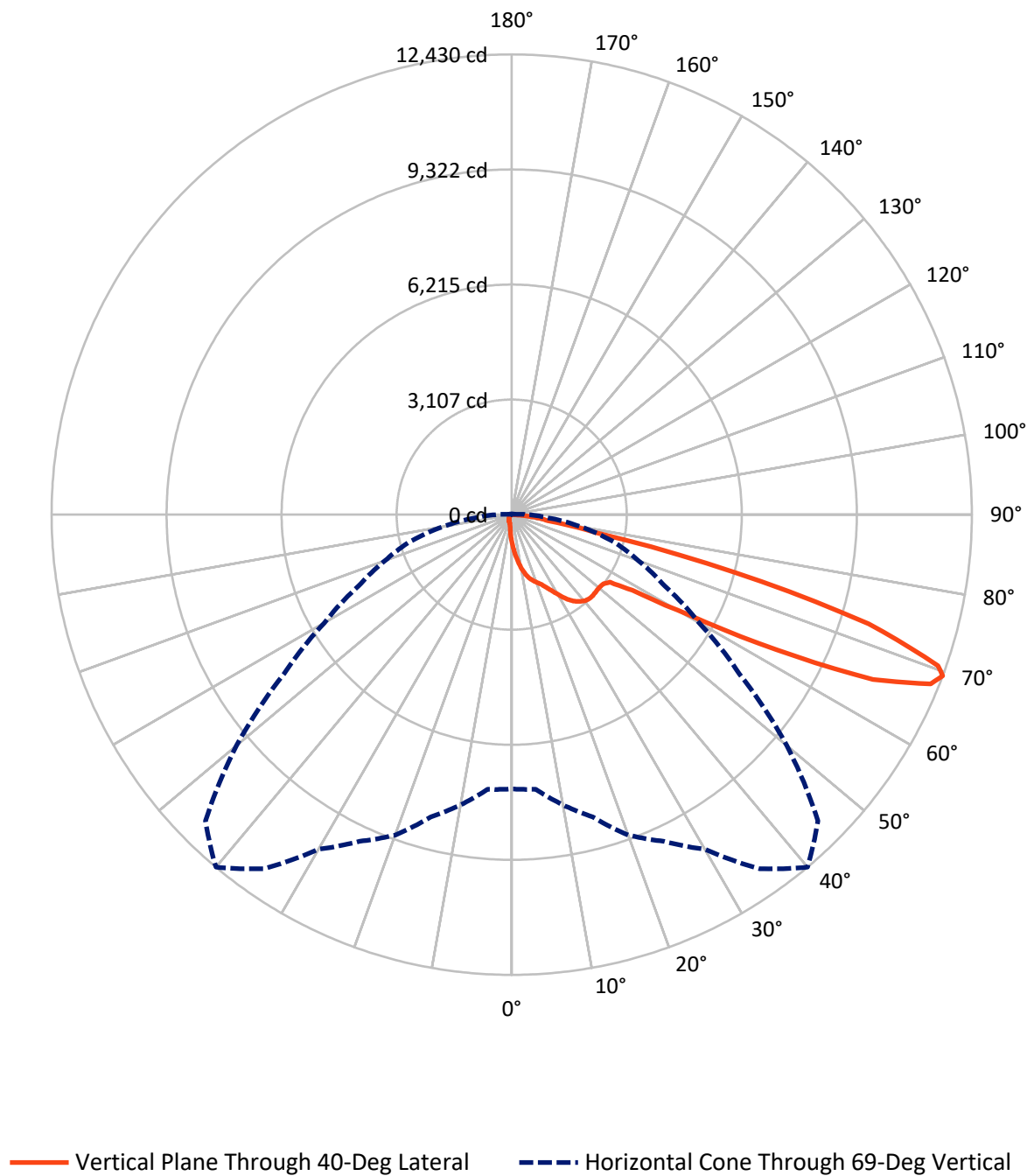


Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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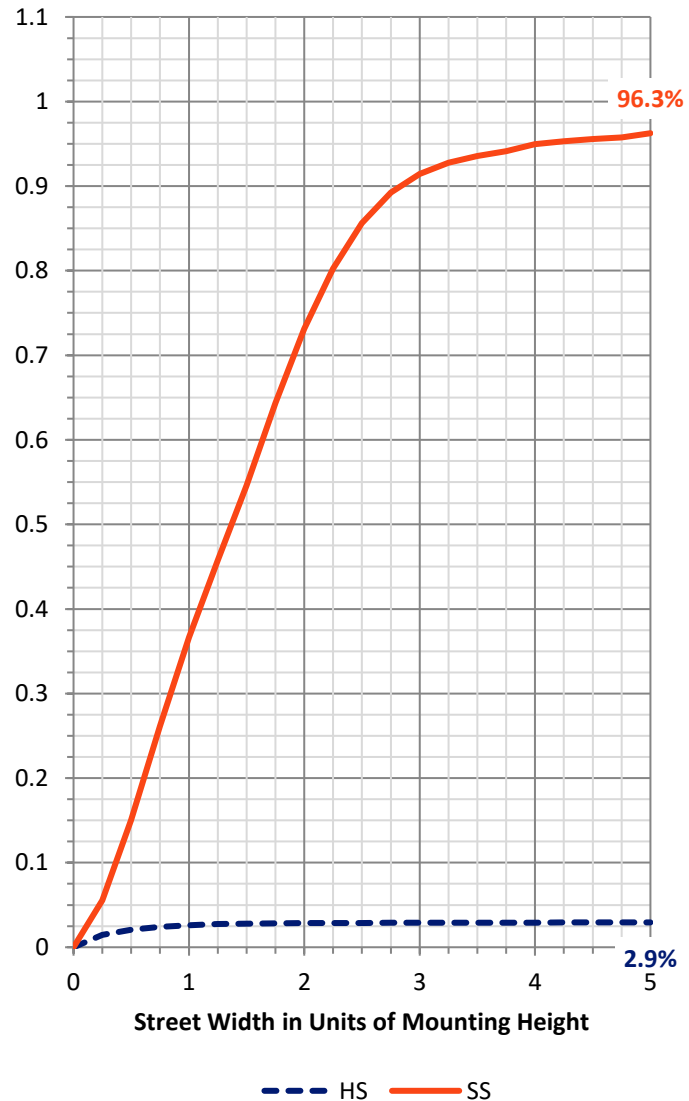
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	292.0	0.0	292.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	9513.5	0.0	9513.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	9805.5	0.0	9805.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	0.8
10°-20°	262.4	2.7
20°-30°	502.2	5.1
30°-40°	835.3	8.5
40°-50°	1130.2	11.5
50°-60°	1767.6	18.0
60°-70°	3634.1	37.1
70°-80°	1462.3	14.9
80°-90°	135.3	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°	9805.5	100.0
0°-180°	9805.5	100.0

Coefficient of Utilization



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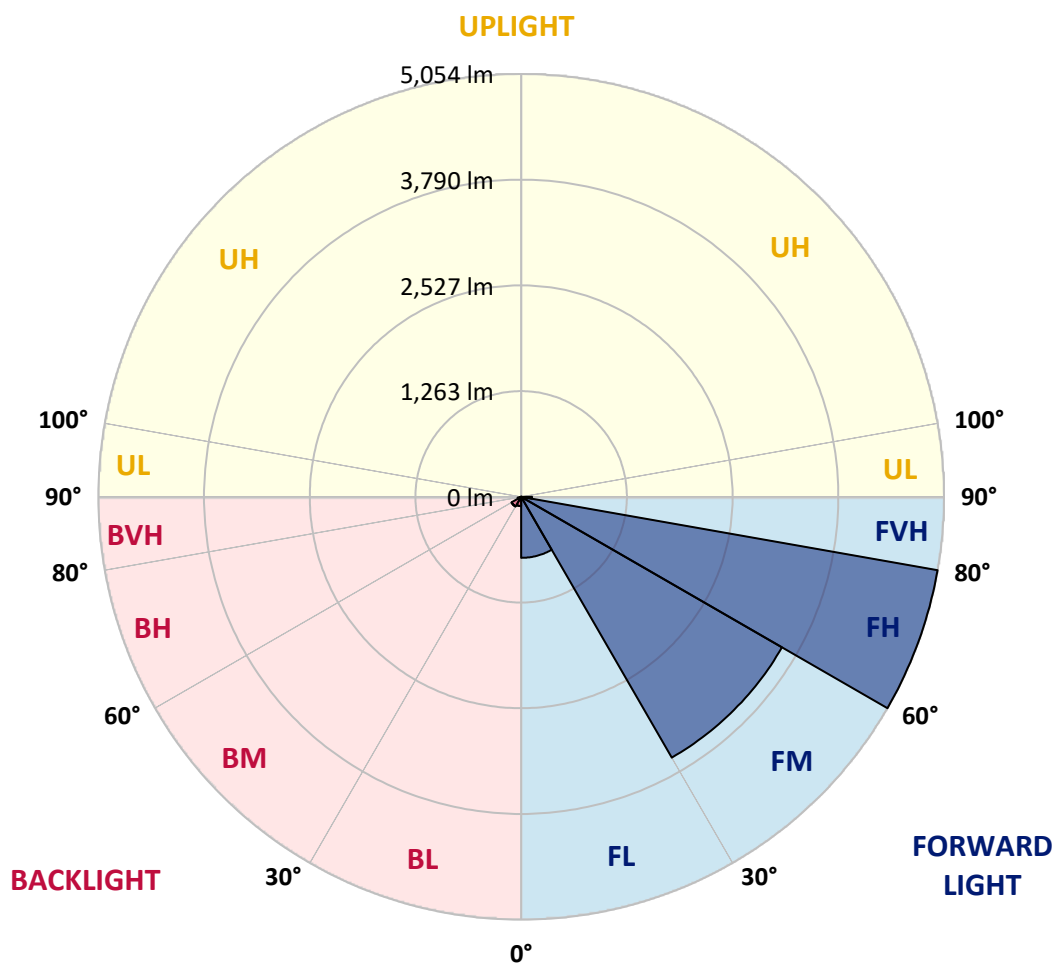
CATALOG NUMBER: VST-F07-LED-E-U-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.7	7.4			
FM	(30°-60°)	3599.7	36.7			
FH	(60°-80°)	5053.8	51.5			G3/7500
FVH	(80°-90°)	130.2	1.3			G2/225
BL	(0°-30°)	111.1	1.1	B1/500		
BM	(30°-60°)	133.3	1.4	B0/220		
BH	(60°-80°)	42.6	0.4	B0/110		G0/110
BVH	(80°-90°)	5.0	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°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
2.5°	987.9	976.6	963.7	963.7	947.7	947.7	938.1	912.4	909.2	894.7	880.2
5°	1260.9	1251.3	1235.3	1220.8	1208.0	1185.4	1169.3	1138.8	1105.2	1073.0	1044.1
7.5°	1527.6	1522.7	1493.9	1489.0	1468.1	1431.2	1399.1	1354.1	1296.2	1251.3	1198.3
10°	1775.0	1763.7	1757.2	1729.9	1699.5	1659.3	1609.5	1554.9	1487.4	1416.7	1341.2
12.5°	1971.0	1964.5	1935.5	1924.3	1892.2	1852.0	1789.4	1718.7	1651.3	1559.7	1471.3
15°	2117.1	2105.9	2086.5	2068.9	2030.4	1995.0	1937.2	1860.0	1778.2	1678.6	1572.6
17.5°	2239.2	2218.3	2213.4	2186.1	2146.0	2104.2	2040.0	1969.3	1872.9	1773.3	1657.6
20°	2403.0	2374.1	2364.4	2324.3	2277.7	2219.9	2146.0	2057.7	1956.4	1847.3	1728.4
22.5°	2595.7	2574.8	2554.0	2518.7	2459.3	2377.3	2269.7	2173.4	2044.8	1924.3	1795.9
25°	2868.8	2851.2	2817.4	2769.2	2695.3	2597.4	2467.3	2325.9	2174.9	2020.7	1869.7
27.5°	3133.9	3117.8	3093.7	3056.8	2973.2	2865.6	2705.0	2525.1	2333.9	2147.6	1980.5
30°	3382.9	3368.4	3344.3	3307.4	3233.5	3127.4	2945.9	2753.2	2515.4	2298.6	2097.9
32.5°	3651.1	3646.3	3618.9	3566.0	3501.7	3358.8	3161.2	2954.0	2713.1	2462.5	2227.9
35°	3954.7	3917.7	3892.1	3839.0	3729.8	3577.2	3345.9	3119.4	2865.6	2608.6	2346.8
37.5°	4211.7	4176.4	4144.2	4076.8	3943.5	3749.1	3487.3	3238.2	2976.4	2714.6	2447.9
40°	4399.6	4381.9	4343.4	4255.0	4105.7	3874.4	3591.6	3320.2	3056.8	2793.3	2529.9
42.5°	4539.4	4512.0	4468.7	4377.1	4200.5	3937.0	3633.4	3353.9	3093.7	2841.5	2582.9
45°	4590.8	4568.3	4528.1	4428.5	4237.4	3954.7	3631.8	3344.3	3095.3	2856.0	2618.2
47.5°	4560.2	4537.8	4502.4	4409.2	4221.4	3933.8	3602.9	3316.9	3079.2	2860.8	2650.3
50°	4459.1	4446.2	4418.9	4340.2	4171.5	3893.6	3577.2	3302.5	3076.0	2884.9	2695.3
52.5°	4449.4	4441.4	4407.7	4329.0	4157.1	3880.7	3574.0	3310.6	3103.3	2915.5	2727.5
55°	5437.2	5323.2	5067.8	4851.0	4494.4	4070.4	3736.2	3440.6	3219.0	3035.9	2904.1
57.5°	7727.8	7557.6	7221.9	6809.1	5989.8	5185.1	4541.0	4075.2	3845.4	3761.9	3811.7
60°	8800.8	8770.4	8717.3	8521.4	8102.1	7409.9	6638.8	5805.2	5471.0	5442.1	5543.3
62.5°	9310.1	9290.8	9306.9	9282.8	9152.7	8950.3	8728.5	8368.8	8037.8	7824.2	7371.2
65°	9544.6	9557.5	9649.0	9721.2	9737.3	9790.3	9952.6	10400.7	10728.4	10177.4	8919.7
67.5°	8948.6	9024.1	9234.6	9498.0	9806.4	10105.2	10587.0	11531.5	12204.6	11557.3	9771.1
69°	7408.2	7445.2	7959.1	8455.5	9208.8	9735.8	10434.5	11672.9	12429.5	11698.6	9703.6
70°	5832.4	5866.1	6417.2	7091.8	8365.6	9043.4	9957.4	11433.6	12219.0	11510.7	9356.6
72.5°	2631.1	2582.9	2777.2	3138.6	4523.3	5599.6	7197.8	9263.5	10081.1	9221.7	7000.2
75°	1837.6	1816.7	1837.6	1839.2	2054.5	2650.3	3344.3	5021.2	6209.9	5358.6	3344.3
77.5°	1423.2	1408.7	1394.3	1378.2	1403.9	1572.6	1640.0	1781.3	2313.0	2187.8	1275.4
80°	1126.0	1113.2	1148.5	1137.3	1137.3	1156.6	1143.7	1090.6	991.0	918.8	822.4
82.5°	523.6	526.8	526.8	571.8	689.1	804.7	841.7	788.7	700.4	595.9	480.3
85°	49.7	56.2	94.8	146.2	290.8	327.6	329.3	273.0	273.0	215.3	173.4
87.5°	0.0	1.6	1.6	1.6	14.4	40.2	33.7	9.7	4.8	4.8	8.0
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°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
2.5°	854.6	849.7	830.5	811.2	793.5	774.2	756.5	738.9	719.6	705.1	687.5
5°	999.1	963.7	923.6	885.1	846.5	806.4	764.6	727.7	689.1	653.7	620.0
7.5°	1145.3	1076.2	1021.6	952.5	889.9	827.3	769.4	710.0	655.4	604.0	555.8
10°	1268.9	1185.4	1100.3	1012.0	922.0	838.5	758.2	687.5	615.2	552.6	493.2
12.5°	1370.2	1264.2	1159.8	1048.9	947.7	841.7	742.1	657.0	571.8	501.2	440.1
15°	1461.7	1339.7	1214.3	1085.8	957.4	836.9	726.0	620.0	533.3	453.0	383.9
17.5°	1535.6	1395.8	1254.5	1109.9	971.8	830.5	705.1	594.3	493.2	409.6	342.2
20°	1599.9	1453.7	1301.1	1138.8	981.5	828.8	687.5	562.2	457.8	369.5	303.6
22.5°	1659.3	1513.1	1349.3	1175.8	995.9	827.3	671.4	538.1	427.2	339.0	273.0
25°	1726.8	1572.6	1400.7	1214.3	1021.6	833.7	661.8	518.8	399.9	310.0	248.9
27.5°	1802.3	1640.0	1461.7	1262.5	1055.3	846.5	658.6	498.0	375.8	282.7	229.7
30°	1908.2	1720.4	1522.7	1310.7	1085.8	861.0	655.4	485.1	351.7	261.8	210.4
32.5°	2001.5	1799.1	1590.2	1360.5	1119.6	875.4	653.7	467.4	329.3	240.9	196.0
35°	2099.4	1871.4	1648.1	1408.7	1148.5	891.4	652.2	454.6	308.4	220.1	181.5
37.5°	2184.6	1932.3	1693.1	1450.5	1180.7	906.0	653.7	443.3	289.1	202.4	168.7
40°	2256.9	1995.0	1742.8	1489.0	1214.3	928.4	655.4	432.1	269.9	186.3	157.4
42.5°	2321.1	2054.5	1795.9	1532.4	1252.9	954.2	665.0	422.5	253.8	171.9	146.2
45°	2370.9	2109.1	1853.6	1593.5	1315.6	995.9	682.7	416.0	237.7	159.0	136.6
47.5°	2422.3	2189.4	1951.6	1689.8	1407.2	1061.8	713.2	414.5	224.8	149.3	128.5
50°	2493.0	2269.7	2038.4	1787.8	1490.7	1129.3	750.1	416.0	208.8	139.8	120.5
52.5°	2544.4	2351.6	2150.8	1958.1	1689.8	1334.8	893.1	444.9	200.7	131.7	110.8
55°	2848.0	2814.2	2819.0	2851.2	2644.0	2271.3	1493.9	642.5	236.2	149.3	109.2
57.5°	4015.7	4134.6	4203.6	4202.1	3859.9	3201.4	2006.3	825.6	263.5	173.4	130.1
60°	5551.4	5461.4	5334.5	5021.2	4566.7	3654.4	2244.0	888.3	228.1	138.1	118.9
62.5°	6908.7	6381.7	5914.3	5406.8	4810.8	3811.7	2292.2	883.4	199.2	104.4	83.5
65°	7755.2	6807.4	6052.5	5416.4	4714.4	3680.0	2168.5	811.2	168.7	85.2	69.1
67.5°	7957.6	6577.7	5509.6	4698.4	3938.6	2864.1	1591.8	610.4	131.7	70.7	61.1
69°	7515.8	5846.9	4565.1	3644.7	2865.6	1900.2	984.7	385.5	101.2	64.3	56.2
70°	6913.5	5085.5	3718.5	2925.0	2121.9	1334.8	689.1	271.5	81.9	59.4	51.4
72.5°	4447.9	2671.2	1828.0	1272.2	875.4	531.7	269.9	122.1	62.6	49.7	41.7
75°	1725.1	987.9	716.5	544.5	425.7	295.6	163.9	78.7	53.0	41.7	32.1
77.5°	849.7	650.5	531.7	364.6	212.1	131.7	88.4	61.1	43.4	30.5	20.9
80°	671.4	446.6	266.7	165.4	125.2	94.8	67.5	49.7	32.1	19.3	14.4
82.5°	343.7	188.0	138.1	112.5	93.2	73.9	54.6	35.3	20.9	12.9	11.2
85°	107.6	78.7	70.7	69.1	64.3	53.0	38.5	22.5	12.9	8.0	8.0
87.5°	8.0	11.2	14.4	11.2	12.9	11.2	14.4	9.7	6.4	6.4	4.8
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°	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5	740.5
2.5°	674.6	655.4	637.7	626.4	605.5	597.5	589.5	586.3	571.8	575.0	562.2
5°	589.5	555.8	530.0	504.4	480.3	462.6	448.1	430.5	416.0	409.6	396.7
7.5°	512.4	469.1	435.3	408.0	379.1	356.6	337.3	324.4	311.6	298.8	292.3
10°	444.9	398.4	359.8	332.5	305.2	285.9	271.5	261.8	253.8	248.9	247.4
12.5°	382.3	337.3	302.0	277.9	257.0	247.4	240.9	236.2	234.5	232.9	232.9
15°	334.1	289.1	261.8	244.2	234.5	229.7	228.1	224.8	221.7	220.1	220.1
17.5°	289.1	255.4	236.2	226.5	221.7	218.5	215.3	212.1	208.8	207.2	207.2
20°	258.6	231.3	221.7	215.3	210.4	207.2	202.4	199.2	197.6	196.0	194.4
22.5°	234.5	216.8	210.4	205.6	199.2	194.4	191.2	188.0	184.7	183.1	181.5
25°	216.8	205.6	200.7	194.4	188.0	183.1	178.3	173.4	170.3	168.7	165.4
27.5°	204.0	196.0	189.5	181.5	175.1	170.3	165.4	160.7	157.4	154.2	152.6
30°	192.7	184.7	176.7	170.3	162.2	157.4	151.0	146.2	144.6	141.3	138.1
32.5°	181.5	173.4	165.4	157.4	149.3	143.0	139.8	133.3	130.1	128.5	125.2
35°	168.7	160.7	151.0	144.6	136.6	130.1	125.2	120.5	117.2	114.0	112.5
37.5°	157.4	147.8	138.1	130.1	123.7	117.2	112.5	107.6	104.4	101.2	99.6
40°	144.6	134.9	125.2	117.2	110.8	106.0	101.2	96.4	93.2	91.6	91.6
42.5°	133.3	122.1	112.5	106.0	101.2	94.8	89.9	85.2	83.5	81.9	83.5
45°	122.1	110.8	102.8	96.4	91.6	85.2	80.3	77.1	75.5	77.1	78.7
47.5°	112.5	101.2	93.2	88.4	83.5	78.7	73.9	70.7	70.7	73.9	77.1
50°	102.8	91.6	85.2	81.9	77.1	72.3	65.8	64.3	65.8	69.1	72.3
52.5°	93.2	80.3	75.5	73.9	69.1	64.3	59.4	57.8	59.4	62.6	61.1
55°	83.5	70.7	69.1	67.5	62.6	56.2	51.4	51.4	51.4	49.7	46.6
57.5°	80.3	62.6	61.1	59.4	54.6	48.2	45.0	41.7	40.2	35.3	33.7
60°	83.5	56.2	56.2	53.0	48.2	41.7	37.0	32.1	28.9	25.7	25.7
62.5°	67.5	51.4	49.7	46.6	40.2	33.7	28.9	24.1	22.5	20.9	20.9
65°	54.6	46.6	43.4	38.5	33.7	27.3	22.5	19.3	17.7	17.7	19.3
67.5°	49.7	41.7	37.0	32.1	27.3	20.9	17.7	16.1	16.1	17.7	17.7
69°	46.6	38.5	33.7	28.9	24.1	19.3	16.1	16.1	16.1	16.1	17.7
70°	43.4	37.0	32.1	27.3	20.9	16.1	14.4	14.4	16.1	16.1	17.7
72.5°	33.7	28.9	27.3	22.5	16.1	14.4	12.9	14.4	14.4	16.1	16.1
75°	25.7	20.9	20.9	17.7	12.9	11.2	11.2	12.9	12.9	14.4	14.4
77.5°	17.7	14.4	14.4	12.9	11.2	9.7	9.7	11.2	12.9	12.9	14.4
80°	12.9	11.2	9.7	11.2	9.7	8.0	9.7	11.2	11.2	12.9	12.9
82.5°	9.7	9.7	9.7	9.7	8.0	8.0	9.7	9.7	11.2	12.9	12.9
85°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.7	9.7	11.2	11.2
87.5°	4.8	4.8	4.8	6.4	6.4	8.0	8.0	8.0	8.0	9.7	9.7
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):

	165°	170°	175°	180°
0°	740.5	740.5	740.5	740.5
2.5°	559.0	557.4	550.9	552.6
5°	391.9	382.3	388.7	387.1
7.5°	287.6	285.9	284.3	287.6
10°	245.8	245.8	244.2	245.8
12.5°	231.3	231.3	231.3	231.3
15°	220.1	220.1	218.5	218.5
17.5°	207.2	207.2	207.2	205.6
20°	194.4	192.7	192.7	192.7
22.5°	179.9	178.3	178.3	178.3
25°	165.4	163.9	163.9	163.9
27.5°	151.0	149.3	147.8	147.8
30°	136.6	134.9	133.3	133.3
32.5°	122.1	120.5	118.9	118.9
35°	109.2	109.2	107.6	106.0
37.5°	98.0	98.0	98.0	98.0
40°	89.9	91.6	91.6	91.6
42.5°	85.2	86.7	88.4	89.9
45°	81.9	85.2	86.7	86.7
47.5°	80.3	81.9	83.5	83.5
50°	73.9	72.3	72.3	72.3
52.5°	59.4	56.2	54.6	53.0
55°	43.4	41.7	38.5	38.5
57.5°	30.5	30.5	28.9	28.9
60°	24.1	24.1	22.5	24.1
62.5°	20.9	20.9	20.9	20.9
65°	19.3	19.3	19.3	19.3
67.5°	19.3	19.3	19.3	19.3
69°	17.7	17.7	17.7	17.7
70°	17.7	17.7	17.7	17.7
72.5°	16.1	16.1	16.1	16.1
75°	14.4	16.1	16.1	16.1
77.5°	14.4	14.4	14.4	14.4
80°	12.9	12.9	14.4	14.4
82.5°	12.9	12.9	12.9	12.9
85°	11.2	11.2	12.9	12.9
87.5°	9.7	9.7	11.2	11.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)