

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: P165498

Luminaire Tested: **VST-E06-LED-E-U-SL4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165498
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-E06-LED-E-U-SL4-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12377.9 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 150.5
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



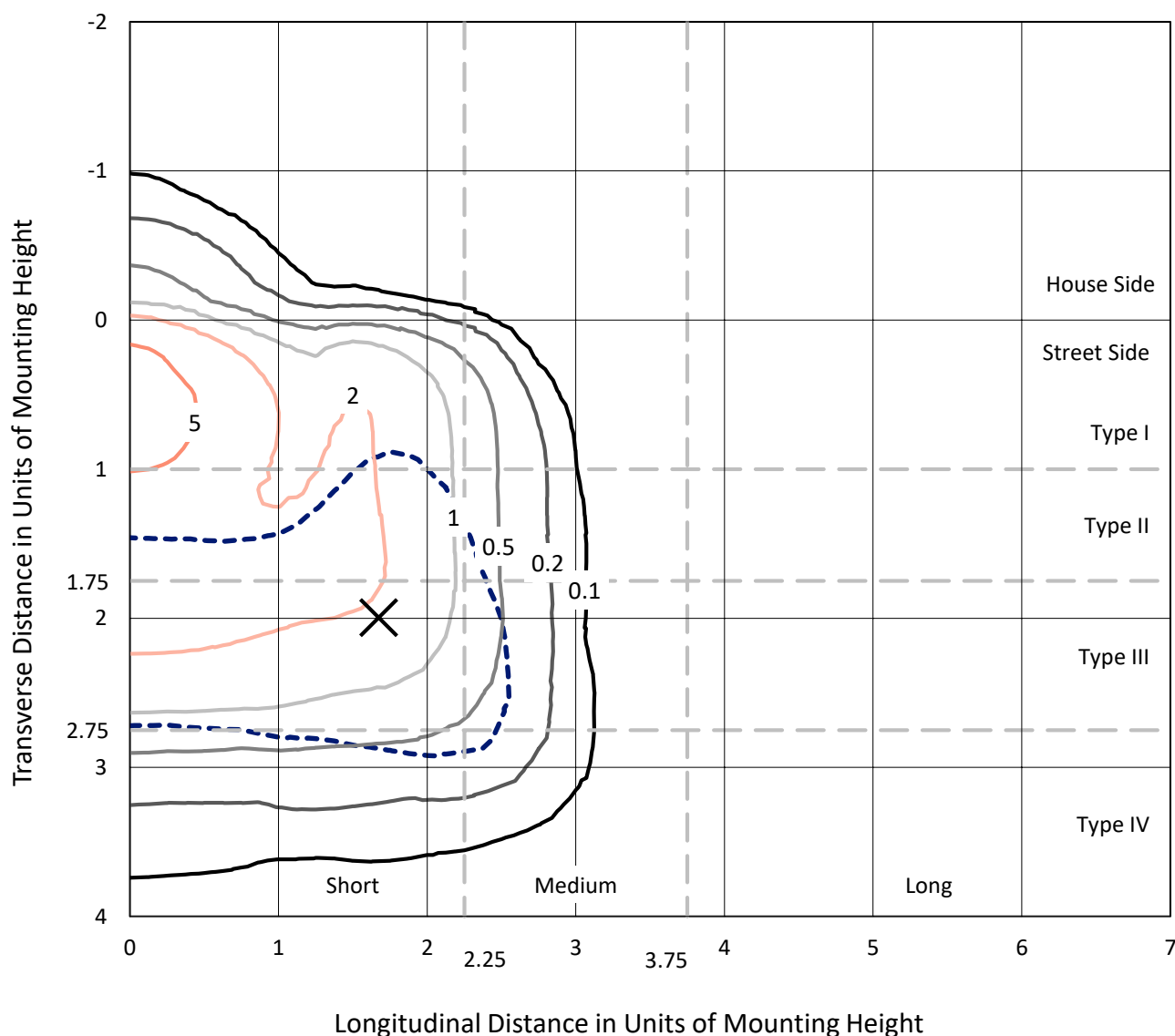
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

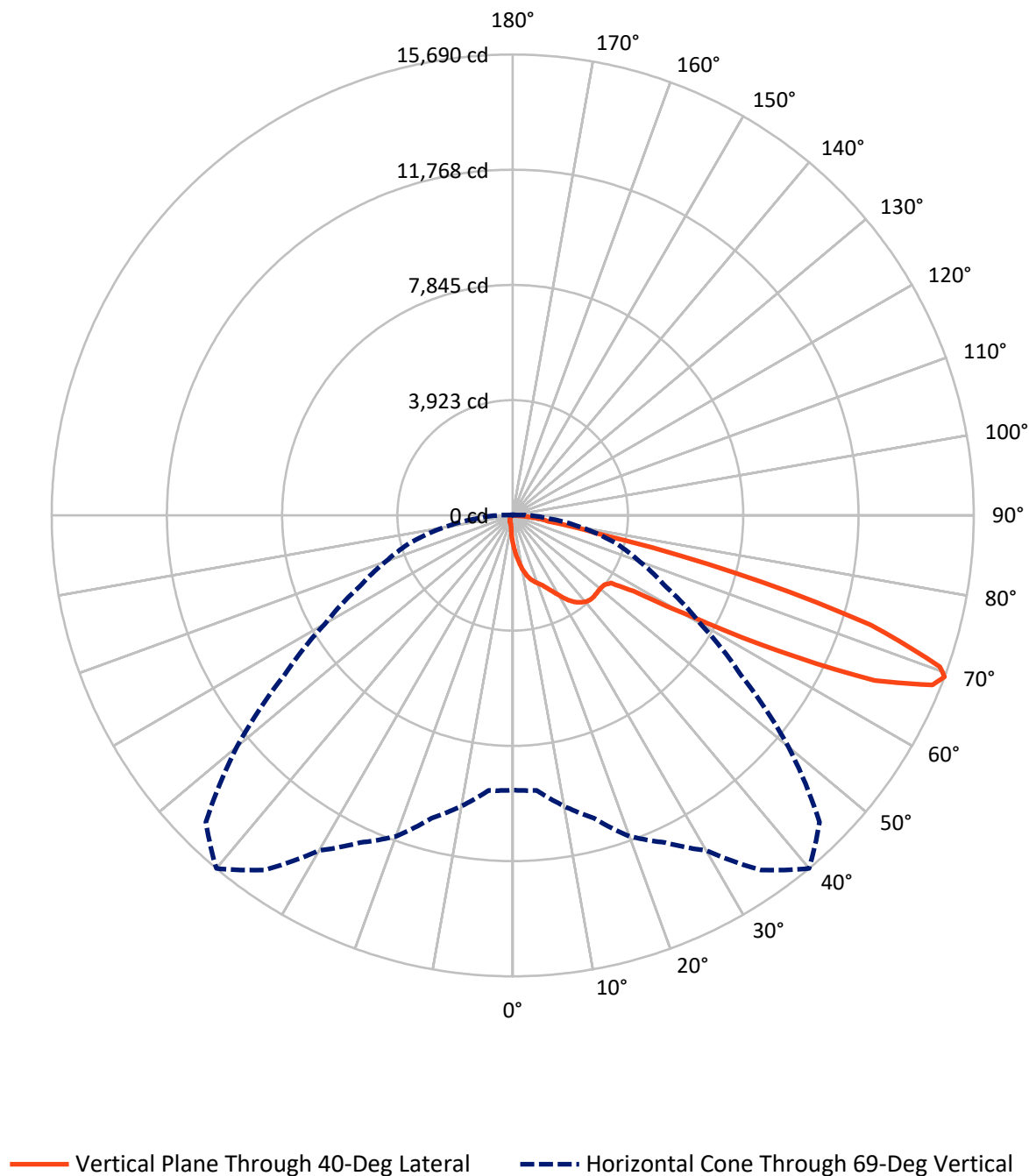


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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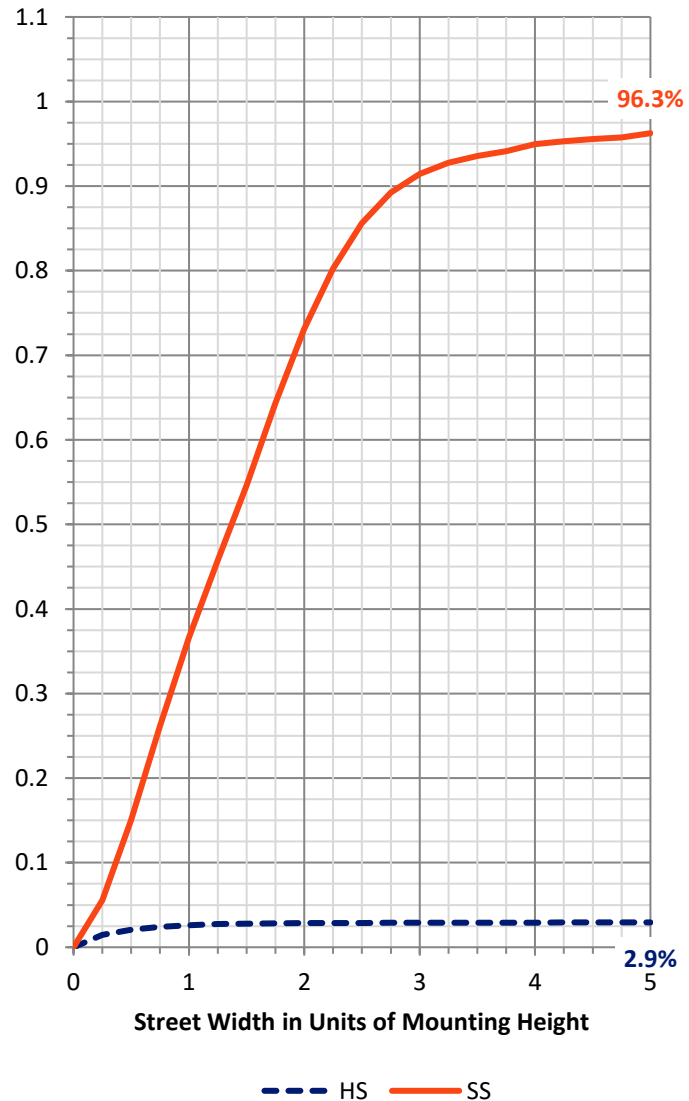
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	368.6	0.0	368.6
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	12009.2	0.0	12009.2
	% Fixture	97.0	0.0	97.0
Total	Lumens	12377.9	0.0	12377.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	0.8
10°-20°	331.3	2.7
20°-30°	634.0	5.1
30°-40°	1054.4	8.5
40°-50°	1426.7	11.5
50°-60°	2231.3	18.0
60°-70°	4587.5	37.1
70°-80°	1845.9	14.9
80°-90°	170.8	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°	12377.9	100.0
0°-180°	12377.9	100.0

Coefficient of Utilization



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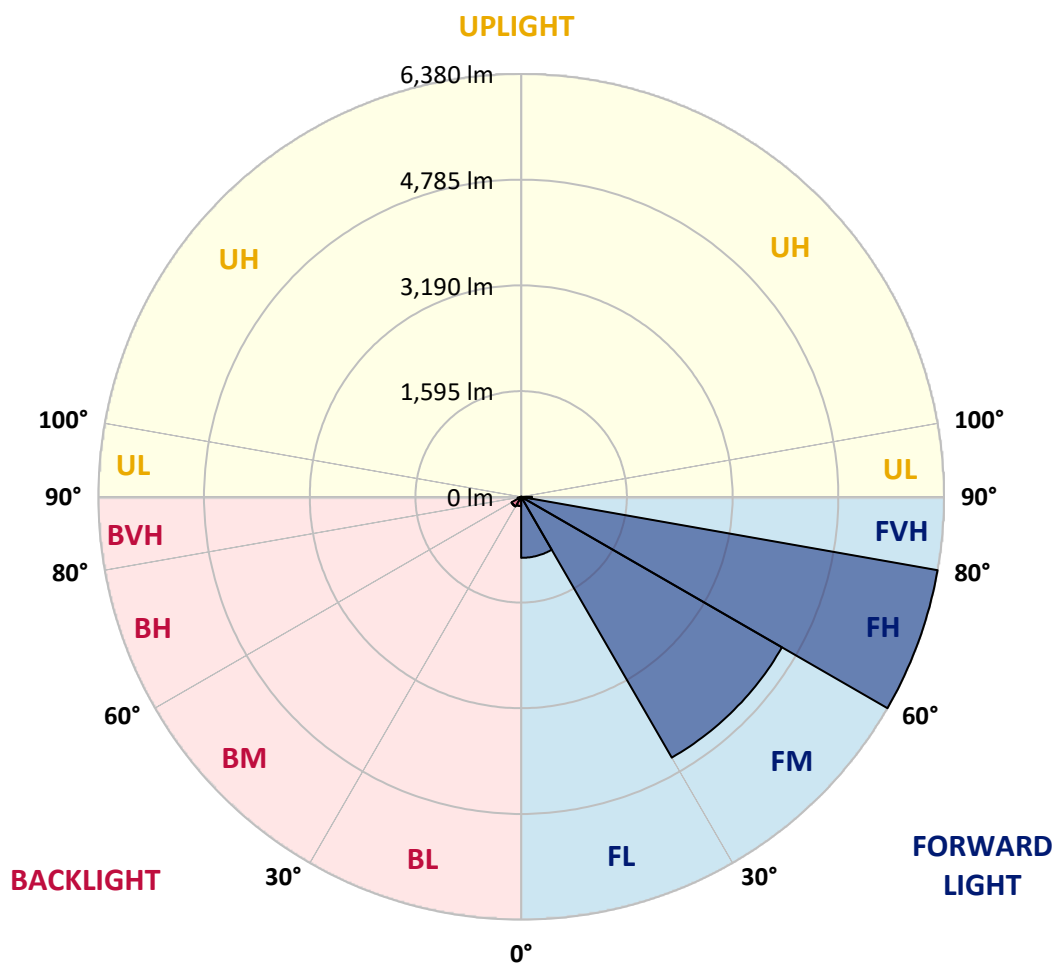
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.2	7.4			
FM	(30°-60°)	4544.1	36.7			
FH	(60°-80°)	6379.6	51.5			G3/7500
FVH	(80°-90°)	164.4	1.3			G2/225
BL	(0°-30°)	140.2	1.1	B1/500		
BM	(30°-60°)	168.3	1.4	B0/220		
BH	(60°-80°)	53.8	0.4	B0/110		G0/110
BVH	(80°-90°)	6.4	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°	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8
2.5°	1247.1	1232.8	1216.6	1216.6	1196.4	1196.4	1184.2	1151.8	1147.7	1129.4	1111.1
5°	1591.7	1579.5	1559.4	1541.0	1524.9	1496.4	1476.1	1437.6	1395.1	1354.5	1318.0
7.5°	1928.4	1922.2	1885.8	1879.6	1853.3	1806.7	1766.1	1709.3	1636.3	1579.5	1512.7
10°	2240.6	2226.4	2218.2	2183.8	2145.3	2094.6	2031.7	1962.9	1877.6	1788.4	1693.1
12.5°	2488.0	2479.9	2443.3	2429.2	2388.7	2337.9	2258.9	2169.6	2084.5	1968.9	1857.3
15°	2672.5	2658.3	2633.9	2611.6	2563.0	2518.4	2445.4	2348.0	2244.7	2119.0	1985.1
17.5°	2826.6	2800.3	2794.1	2759.6	2709.0	2656.2	2575.2	2485.9	2364.3	2238.6	2092.5
20°	3033.4	2996.9	2984.7	2934.0	2875.3	2802.3	2709.0	2597.5	2469.7	2331.9	2181.8
22.5°	3276.7	3250.3	3224.0	3179.4	3104.4	3001.0	2865.2	2743.5	2581.2	2429.2	2267.0
25°	3621.5	3599.2	3556.6	3495.7	3402.4	3278.8	3114.5	2936.1	2745.5	2550.8	2360.2
27.5°	3956.0	3935.7	3905.3	3858.7	3753.2	3617.4	3414.6	3187.5	2946.2	2711.0	2500.1
30°	4270.4	4252.0	4221.6	4175.1	4081.7	3947.9	3718.7	3475.4	3175.3	2901.6	2648.2
32.5°	4609.0	4602.8	4568.3	4501.5	4420.3	4239.9	3990.5	3728.9	3424.8	3108.5	2812.3
35°	4992.2	4945.5	4913.1	4846.1	4708.3	4515.6	4223.7	3937.8	3617.4	3292.9	2962.4
37.5°	5316.6	5272.0	5231.4	5146.3	4978.0	4732.6	4402.1	4087.8	3757.3	3426.8	3090.1
40°	5553.8	5531.5	5482.9	5371.3	5182.8	4890.8	4533.9	4191.2	3858.7	3526.1	3193.6
42.5°	5730.2	5695.7	5641.1	5525.5	5302.5	4969.9	4586.6	4233.8	3905.3	3587.0	3260.6
45°	5795.1	5766.8	5716.1	5590.3	5349.0	4992.2	4584.6	4221.6	3907.4	3605.2	3305.1
47.5°	5756.6	5728.3	5683.6	5566.0	5328.8	4965.8	4548.2	4187.1	3887.1	3611.4	3345.6
50°	5628.9	5612.6	5578.2	5478.8	5265.9	4915.1	4515.6	4168.9	3883.0	3641.8	3402.4
52.5°	5616.7	5606.6	5564.0	5464.6	5247.7	4898.8	4511.6	4179.1	3917.5	3680.3	3443.0
55°	6863.7	6719.7	6397.4	6123.6	5673.5	5138.2	4716.4	4343.3	4063.5	3832.4	3666.0
57.5°	9755.2	9540.3	9116.5	8595.4	7561.2	6545.4	5732.3	5144.2	4854.3	4748.9	4811.7
60°	11109.6	11071.2	11004.2	10756.9	10227.6	9353.8	8380.4	7328.1	6906.3	6869.8	6997.5
62.5°	11752.5	11728.1	11748.5	11718.0	11553.8	11298.3	11018.4	10564.3	10146.5	9876.8	9305.0
65°	12048.5	12064.8	12180.3	12271.5	12291.8	12358.7	12563.6	13129.3	13542.9	12847.4	11259.7
67.5°	11296.2	11391.5	11657.2	11989.7	12379.0	12756.2	13364.4	14556.7	15406.4	14589.2	12334.4
69°	9351.7	9398.3	10047.1	10673.8	11624.7	12289.9	13171.9	14735.2	15690.3	14767.7	12249.2
70°	7362.5	7405.1	8100.7	8952.2	10560.2	11415.9	12569.6	14433.1	15424.6	14530.4	11811.3
72.5°	3321.4	3260.6	3505.8	3962.0	5709.9	7068.6	9086.1	11693.7	12725.8	11641.0	8836.6
75°	2319.7	2293.3	2319.7	2321.7	2593.4	3345.6	4221.6	6338.5	7839.0	6764.4	4221.6
77.5°	1796.5	1778.3	1760.1	1739.7	1772.2	1985.1	2070.2	2248.6	2919.8	2761.7	1610.0
80°	1421.4	1405.2	1449.8	1435.6	1435.6	1460.0	1443.7	1376.7	1251.0	1159.8	1038.1
82.5°	661.0	665.0	665.0	721.8	869.9	1015.8	1062.5	995.7	884.1	752.2	606.3
85°	62.8	70.9	119.7	184.6	367.1	413.6	415.7	344.6	344.6	271.8	218.9
87.5°	0.0	2.0	2.0	2.0	18.2	50.7	42.6	12.2	6.0	6.0	10.1
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°	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8
2.5°	1078.8	1072.6	1048.4	1024.0	1001.7	977.3	955.0	932.7	908.3	890.1	867.8
5°	1261.2	1216.6	1165.9	1117.3	1068.5	1017.9	965.2	918.6	869.9	825.2	782.6
7.5°	1445.7	1358.5	1289.6	1202.4	1123.3	1044.3	971.3	896.3	827.3	762.4	701.6
10°	1601.8	1496.4	1388.9	1277.5	1163.8	1058.4	957.1	867.8	776.6	697.5	622.6
12.5°	1729.6	1595.8	1464.0	1324.0	1196.4	1062.5	936.8	829.3	721.8	632.7	555.6
15°	1845.1	1691.1	1532.9	1370.7	1208.5	1056.5	916.5	782.6	673.2	571.8	484.7
17.5°	1938.5	1762.0	1583.6	1401.1	1226.8	1048.4	890.1	750.2	622.6	517.0	431.9
20°	2019.6	1835.0	1642.5	1437.6	1239.0	1046.3	867.8	709.7	577.9	466.4	383.2
22.5°	2094.6	1910.0	1703.3	1484.2	1257.2	1044.3	847.5	679.3	539.3	427.9	344.6
25°	2179.8	1985.1	1768.2	1532.9	1289.6	1052.4	835.5	654.9	504.8	391.3	314.2
27.5°	2275.1	2070.2	1845.1	1593.7	1332.2	1068.5	831.4	628.6	474.4	356.8	290.0
30°	2408.8	2171.7	1922.2	1654.5	1370.7	1086.9	827.3	612.3	444.0	330.5	265.6
32.5°	2526.6	2271.1	2007.4	1717.5	1413.3	1105.1	825.2	590.1	415.7	304.1	247.4
35°	2650.2	2362.3	2080.4	1778.3	1449.8	1125.3	823.3	573.8	389.3	277.8	229.1
37.5°	2757.7	2439.3	2137.2	1831.0	1490.4	1143.7	825.2	559.6	365.0	255.5	212.9
40°	2848.9	2518.4	2200.0	1879.6	1532.9	1172.0	827.3	545.5	340.7	235.2	198.7
42.5°	2930.1	2593.4	2267.0	1934.4	1581.6	1204.5	839.5	533.3	320.4	217.0	184.6
45°	2992.9	2662.4	2339.9	2011.5	1660.7	1257.2	861.8	525.2	300.1	200.7	172.4
47.5°	3057.8	2763.7	2463.6	2133.2	1776.3	1340.3	900.3	523.2	283.8	188.5	162.2
50°	3147.0	2865.2	2573.1	2256.8	1881.7	1425.5	946.9	525.2	263.6	176.4	152.1
52.5°	3211.9	2968.5	2715.1	2471.8	2133.2	1684.9	1127.4	561.6	253.4	166.2	139.9
55°	3595.1	3552.5	3558.5	3599.2	3337.6	2867.1	1885.8	811.1	298.1	188.5	137.9
57.5°	5069.2	5219.2	5306.4	5304.4	4872.5	4041.2	2532.6	1042.2	332.6	218.9	164.3
60°	7007.7	6894.2	6734.0	6338.5	5764.7	4613.0	2832.7	1121.4	287.9	174.4	150.1
62.5°	8721.1	8056.0	7465.9	6825.2	6072.9	4811.7	2893.5	1115.2	251.4	131.8	105.4
65°	9789.7	8593.3	7640.4	6837.3	5951.2	4645.4	2737.4	1024.0	212.9	107.5	87.2
67.5°	10045.2	8303.3	6955.0	5930.9	4971.9	3615.4	2009.4	770.6	166.2	89.3	77.1
69°	9487.5	7380.8	5762.7	4600.9	3617.4	2398.7	1243.0	486.6	127.7	81.1	70.9
70°	8727.1	6419.6	4694.1	3692.4	2678.6	1684.9	869.9	342.7	103.4	75.0	64.9
72.5°	5614.7	3372.0	2307.5	1605.9	1105.1	671.2	340.7	154.2	79.1	62.8	52.7
75°	2177.7	1247.1	904.4	687.3	537.4	373.1	206.9	99.4	66.9	52.7	40.5
77.5°	1072.6	821.2	671.2	460.3	267.7	166.2	111.6	77.1	54.8	38.5	26.4
80°	847.5	563.7	336.6	208.8	158.1	119.7	85.2	62.8	40.5	24.4	18.2
82.5°	433.9	237.3	174.4	142.0	117.6	93.3	69.0	44.6	26.4	16.3	14.2
85°	135.8	99.4	89.3	87.2	81.1	66.9	48.6	28.4	16.3	10.1	10.1
87.5°	10.1	14.2	18.2	14.2	16.3	14.2	18.2	12.2	8.1	8.1	6.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8	934.8
2.5°	851.6	827.3	805.0	790.8	764.4	754.3	744.2	740.2	721.8	725.9	709.7
5°	744.2	701.6	669.1	636.7	606.3	584.0	565.7	543.4	525.2	517.0	500.8
7.5°	646.8	592.1	549.5	515.1	478.5	450.2	425.8	409.5	393.4	377.2	369.0
10°	561.6	502.9	454.2	419.8	385.3	360.9	342.7	330.5	320.4	314.2	312.3
12.5°	482.6	425.8	381.2	350.8	324.5	312.3	304.1	298.1	296.0	294.0	294.0
15°	421.7	365.0	330.5	308.2	296.0	290.0	287.9	283.8	279.9	277.8	277.8
17.5°	365.0	322.4	298.1	285.9	279.9	275.8	271.8	267.7	263.6	261.5	261.5
20°	326.4	291.9	279.9	271.8	265.6	261.5	255.5	251.4	249.5	247.4	245.4
22.5°	296.0	273.7	265.6	259.6	251.4	245.4	241.3	237.3	233.2	231.1	229.1
25°	273.7	259.6	253.4	245.4	237.3	231.1	225.1	218.9	215.0	212.9	208.8
27.5°	257.5	247.4	239.2	229.1	221.0	215.0	208.8	202.8	198.7	194.7	192.6
30°	243.3	233.2	223.0	215.0	204.8	198.7	190.6	184.6	182.5	178.4	174.4
32.5°	229.1	218.9	208.8	198.7	188.5	180.5	176.4	168.3	164.3	162.2	158.1
35°	212.9	202.8	190.6	182.5	172.4	164.3	158.1	152.1	148.0	143.9	142.0
37.5°	198.7	186.5	174.4	164.3	156.1	148.0	142.0	135.8	131.8	127.7	125.7
40°	182.5	170.3	158.1	148.0	139.9	133.8	127.7	121.7	117.6	115.6	115.6
42.5°	168.3	154.2	142.0	133.8	127.7	119.7	113.5	107.5	105.4	103.4	105.4
45°	154.2	139.9	129.8	121.7	115.6	107.5	101.3	97.3	95.3	97.3	99.4
47.5°	142.0	127.7	117.6	111.6	105.4	99.4	93.3	89.3	89.3	93.3	97.3
50°	129.8	115.6	107.5	103.4	97.3	91.2	83.1	81.1	83.1	87.2	91.2
52.5°	117.6	101.3	95.3	93.3	87.2	81.1	75.0	73.0	75.0	79.1	77.1
55°	105.4	89.3	87.2	85.2	79.1	70.9	64.9	64.9	64.9	62.8	58.9
57.5°	101.3	79.1	77.1	75.0	69.0	60.8	56.8	52.7	50.7	44.6	42.6
60°	105.4	70.9	70.9	66.9	60.8	52.7	46.7	40.5	36.4	32.4	32.4
62.5°	85.2	64.9	62.8	58.9	50.7	42.6	36.4	30.4	28.4	26.4	26.4
65°	69.0	58.9	54.8	48.6	42.6	34.5	28.4	24.4	22.3	22.3	24.4
67.5°	62.8	52.7	46.7	40.5	34.5	26.4	22.3	20.3	20.3	22.3	22.3
69°	58.9	48.6	42.6	36.4	30.4	24.4	20.3	20.3	20.3	20.3	22.3
70°	54.8	46.7	40.5	34.5	26.4	20.3	18.2	18.2	20.3	20.3	22.3
72.5°	42.6	36.4	34.5	28.4	20.3	18.2	16.3	18.2	18.2	20.3	20.3
75°	32.4	26.4	26.4	22.3	16.3	14.2	14.2	16.3	16.3	18.2	18.2
77.5°	22.3	18.2	18.2	16.3	14.2	12.2	12.2	14.2	16.3	16.3	18.2
80°	16.3	14.2	12.2	14.2	12.2	10.1	12.2	14.2	14.2	16.3	16.3
82.5°	12.2	12.2	12.2	12.2	10.1	10.1	12.2	12.2	14.2	16.3	16.3
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	12.2	12.2	14.2	14.2
87.5°	6.0	6.0	6.0	8.1	8.1	10.1	10.1	10.1	10.1	12.2	12.2
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°	934.8	934.8	934.8	934.8
2.5°	705.7	703.6	695.5	697.5
5°	494.7	482.6	490.7	488.7
7.5°	363.0	360.9	358.9	363.0
10°	310.3	310.3	308.2	310.3
12.5°	291.9	291.9	291.9	291.9
15°	277.8	277.8	275.8	275.8
17.5°	261.5	261.5	261.5	259.6
20°	245.4	243.3	243.3	243.3
22.5°	227.1	225.1	225.1	225.1
25°	208.8	206.9	206.9	206.9
27.5°	190.6	188.5	186.5	186.5
30°	172.4	170.3	168.3	168.3
32.5°	154.2	152.1	150.1	150.1
35°	137.9	137.9	135.8	133.8
37.5°	123.7	123.7	123.7	123.7
40°	113.5	115.6	115.6	115.6
42.5°	107.5	109.5	111.6	113.5
45°	103.4	107.5	109.5	109.5
47.5°	101.3	103.4	105.4	105.4
50°	93.3	91.2	91.2	91.2
52.5°	75.0	70.9	69.0	66.9
55°	54.8	52.7	48.6	48.6
57.5°	38.5	38.5	36.4	36.4
60°	30.4	30.4	28.4	30.4
62.5°	26.4	26.4	26.4	26.4
65°	24.4	24.4	24.4	24.4
67.5°	24.4	24.4	24.4	24.4
69°	22.3	22.3	22.3	22.3
70°	22.3	22.3	22.3	22.3
72.5°	20.3	20.3	20.3	20.3
75°	18.2	20.3	20.3	20.3
77.5°	18.2	18.2	18.2	18.2
80°	16.3	16.3	18.2	18.2
82.5°	16.3	16.3	16.3	16.3
85°	14.2	14.2	16.3	16.3
87.5°	12.2	12.2	14.2	14.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)