

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: P165322

Luminaire Tested: **VST-F10-LED-E-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165322
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (70) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14142 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

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



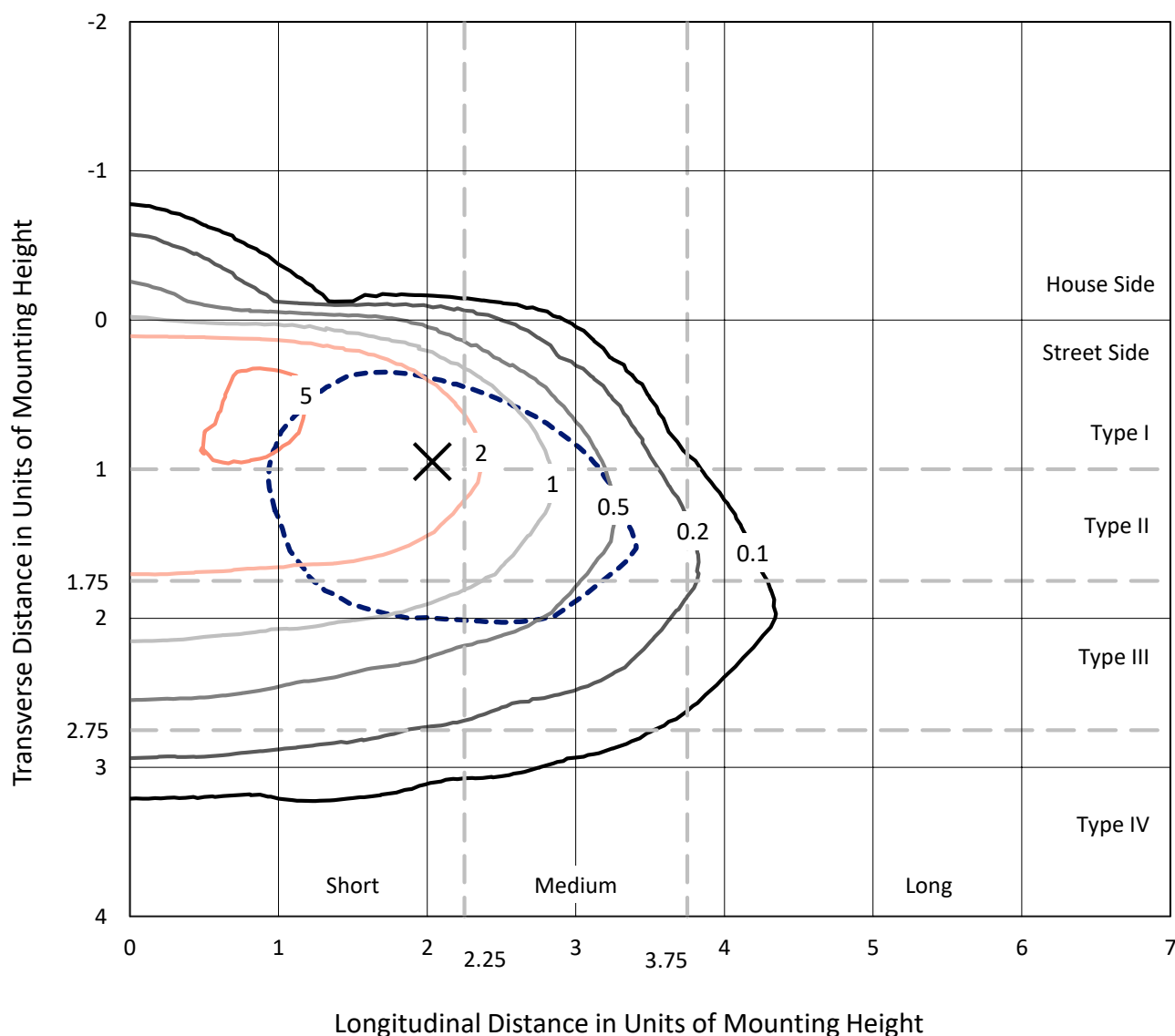
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

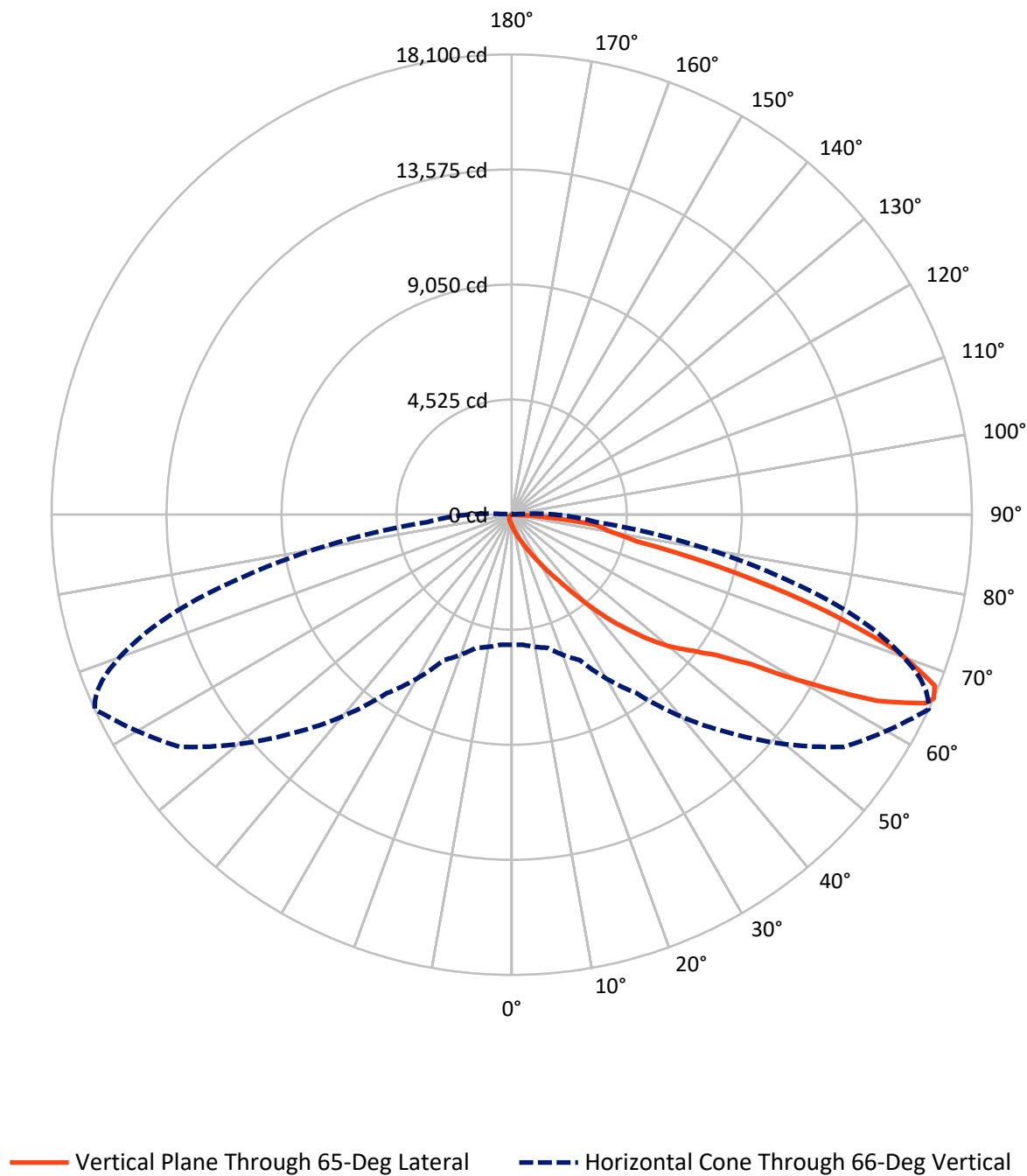


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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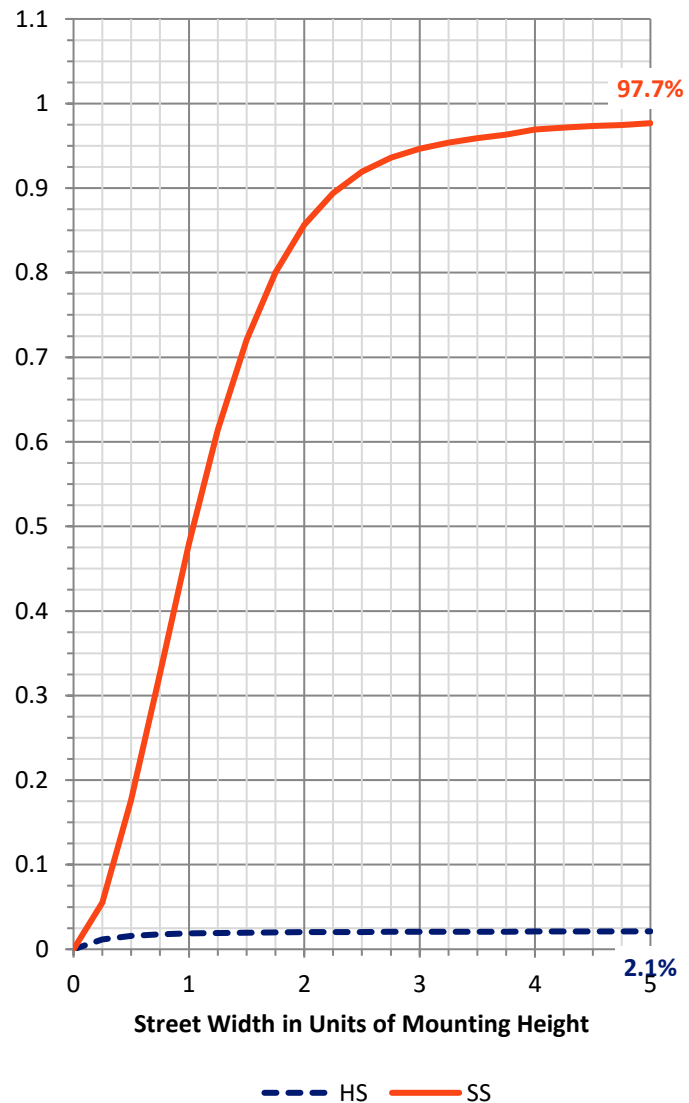
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	306.4	0.0	306.4
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	13835.6	0.0	13835.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	14142.0	0.0	14142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.3
10°-20°	202.6	1.4
20°-30°	437.0	3.1
30°-40°	933.3	6.6
40°-50°	2063.9	14.6
50°-60°	3497.6	24.7
60°-70°	4667.3	33.0
70°-80°	2055.9	14.5
80°-90°	236.8	1.7
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°	14142.0	100.0
0°-180°	14142.0	100.0

Coefficient of Utilization



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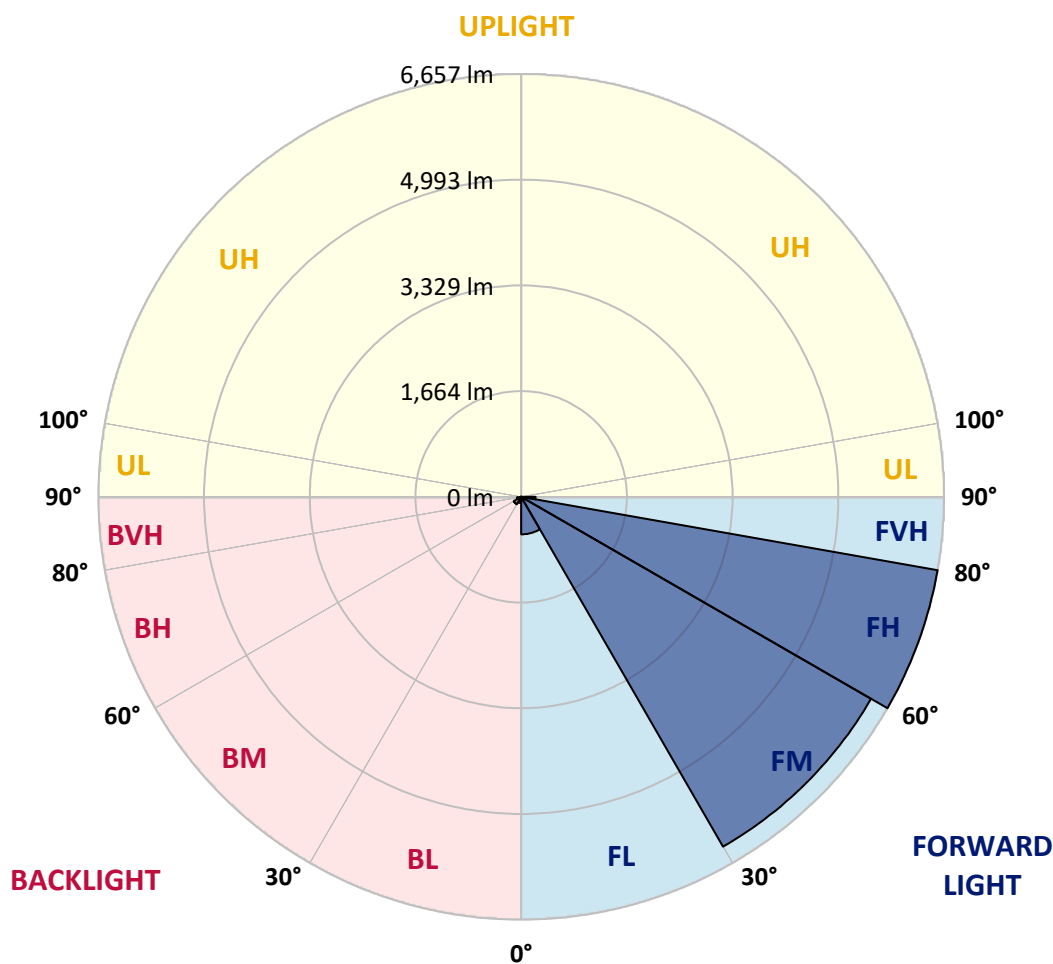
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.7	4.2			
FM	(30°-60°)	6360.1	45.0			
FH	(60°-80°)	6657.4	47.1			G3/7500
FVH	(80°-90°)	227.4	1.6			G3/500
BL	(0°-30°)	96.7	0.7	B0/110		
BM	(30°-60°)	134.6	1.0	B0/220		
BH	(60°-80°)	65.7	0.5	B0/110		G0/110
BVH	(80°-90°)	9.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8
2.5°	538.4	535.6	524.7	524.7	508.4	497.6	483.9	470.4	470.4	467.6	464.9
5°	712.3	696.1	693.3	663.4	639.0	603.6	570.9	527.5	522.1	516.6	513.8
7.5°	905.4	902.6	878.2	842.9	794.0	728.6	663.4	592.7	581.8	576.4	565.5
10°	1155.6	1141.9	1109.3	1049.4	976.1	889.1	783.1	671.5	657.9	647.0	641.6
12.5°	1394.8	1370.4	1351.2	1275.1	1182.6	1054.9	927.1	766.7	755.9	742.3	720.5
15°	1617.7	1595.9	1563.4	1498.2	1394.8	1234.3	1084.9	889.1	861.8	842.9	826.5
17.5°	1791.7	1778.2	1740.0	1666.7	1555.1	1413.8	1234.3	1014.1	992.4	967.8	938.0
20°	1957.6	1938.5	1878.7	1778.2	1658.5	1549.7	1411.2	1177.2	1147.3	1117.4	1084.9
22.5°	2115.3	2096.2	1998.4	1832.5	1704.7	1658.5	1609.6	1362.1	1315.9	1291.5	1258.8
25°	2335.6	2294.8	2142.4	1878.7	1707.5	1742.8	1827.1	1601.4	1557.9	1522.6	1470.9
27.5°	2631.9	2577.5	2338.2	1946.8	1718.2	1835.3	2077.2	1892.3	1846.0	1805.3	1748.3
30°	2966.3	2930.9	2645.5	2109.9	1797.2	1971.2	2357.2	2262.1	2207.8	2158.7	2090.9
32.5°	3303.4	3254.5	2971.7	2419.8	2009.2	2234.9	2708.1	2691.7	2621.0	2574.8	2501.3
35°	3599.8	3575.3	3366.0	2928.1	2493.3	2697.2	3175.6	3194.6	3132.2	3083.2	3001.6
37.5°	3801.0	3801.0	3760.3	3474.6	3262.6	3414.9	3863.5	3866.3	3803.7	3692.2	3651.5
40°	3904.2	3934.1	4081.1	4135.4	4124.5	4320.3	4766.3	4717.2	4665.5	4608.4	4472.5
42.5°	4116.4	4143.5	4456.2	4831.5	5076.2	5334.4	5641.6	5625.3	5562.9	5459.5	5334.4
45°	4475.3	4510.7	4883.1	5478.5	5981.4	6348.6	6544.3	6468.2	6405.6	6307.8	6242.5
47.5°	4932.0	5000.0	5421.4	6158.3	6764.5	7370.8	7574.7	7373.6	7319.3	7243.0	7137.0
50°	5418.7	5484.0	5932.6	6775.4	7460.6	8183.8	8523.7	8183.8	8105.0	8080.4	7960.9
52.5°	5840.1	5894.6	6326.8	7251.2	7993.4	8841.7	9336.5	8887.9	8830.8	8749.2	8662.2
55°	6090.2	6133.8	6538.8	7479.6	8355.1	9434.4	10122.4	9728.2	9643.8	9611.3	9486.1
57.5°	6174.6	6218.0	6582.4	7509.5	8550.8	9975.5	11076.7	11090.3	10989.7	10872.8	10834.7
60°	6174.6	6223.5	6530.7	7436.2	8741.2	10551.9	12349.0	13482.8	13265.4	13243.6	13104.9
62.5°	5919.0	5965.2	6275.1	7210.5	8996.7	11329.5	14121.8	16122.8	16060.4	15918.9	15690.6
65°	5364.3	5391.5	5696.0	6634.1	8898.8	12044.6	15657.9	17879.2	17778.7	17501.3	17207.7
66°	5114.1	5135.9	5421.4	6305.0	8578.0	12142.5	15929.8	18099.5	17933.7	17699.7	17368.1
67.5°	4752.5	4790.7	4991.8	5693.3	7808.6	11802.5	15758.6	17944.6	17800.5	17517.6	17185.9
70°	3173.0	3145.7	3855.4	4369.2	5948.9	9616.7	14138.1	16111.9	16114.7	15981.5	15848.3
72.5°	1506.3	1522.6	1729.1	2688.9	3893.3	6424.7	11253.4	12860.2	13045.1	12805.9	12639.9
75°	1082.1	1106.5	1231.7	1644.9	2321.9	3855.4	7294.7	8993.9	8999.4	8575.2	8197.5
77.5°	315.4	329.1	462.1	1014.1	1740.0	2601.9	4189.7	5000.0	4883.1	4578.5	4293.1
80°	130.4	130.4	135.9	323.6	698.7	1767.3	2930.9	3849.9	3836.4	3719.5	3550.9
82.5°	48.9	51.7	65.2	133.2	165.9	435.1	1954.8	3341.6	3333.3	3167.5	3047.8
85°	5.4	5.4	16.3	57.1	62.6	81.6	391.5	1473.6	1465.5	1473.6	1291.5
87.5°	0.0	0.0	2.6	5.4	8.1	10.9	16.3	57.1	62.6	59.8	54.3
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8
2.5°	464.9	459.5	459.5	456.8	456.8	456.8	454.0	451.4	451.4	448.6	445.9
5°	508.4	502.9	500.3	494.8	492.2	489.4	483.9	481.3	475.8	473.0	470.4
7.5°	560.0	549.1	546.5	538.4	530.2	524.7	519.3	511.2	505.7	494.8	492.2
10°	625.4	611.7	600.8	589.9	581.8	568.3	560.0	549.1	538.4	530.2	522.1
12.5°	709.6	690.6	674.3	663.4	644.4	628.1	611.7	603.6	581.8	570.9	557.4
15°	802.1	780.3	761.3	739.5	726.0	698.7	676.9	652.5	641.6	622.6	600.8
17.5°	921.6	886.3	856.4	834.8	807.5	780.3	755.9	731.4	698.7	676.9	649.9
20°	1049.4	1019.5	978.7	940.8	908.1	875.6	840.1	807.5	777.6	742.3	709.6
22.5°	1212.7	1169.1	1120.2	1082.1	1038.7	1003.3	954.3	910.9	861.8	815.6	777.6
25°	1419.2	1362.1	1315.9	1261.6	1209.9	1155.6	1095.6	1041.3	978.7	935.3	870.1
27.5°	1674.8	1620.5	1557.9	1487.3	1435.6	1354.0	1275.1	1207.2	1133.8	1065.8	992.4
30°	2001.1	1922.3	1856.9	1789.1	1685.7	1606.8	1514.3	1422.0	1321.3	1253.5	1141.9
32.5°	2392.5	2308.3	2210.4	2112.5	2017.4	1906.0	1791.7	1677.5	1566.0	1441.0	1326.8
35°	2871.2	2770.5	2659.0	2553.0	2406.2	2286.5	2142.4	1984.7	1859.7	1715.6	1571.5
37.5°	3504.7	3338.8	3240.8	3129.4	2930.9	2767.8	2607.3	2449.7	2229.4	2077.2	1873.3
40°	4298.5	4200.6	4040.3	3860.8	3681.3	3466.5	3249.1	3039.7	2784.2	2572.0	2335.6
42.5°	5231.0	5087.0	4923.9	4665.5	4483.4	4230.5	3983.2	3705.8	3393.1	3121.3	2843.9
45°	6106.6	5935.4	5810.2	5552.0	5361.6	5062.4	4763.4	4469.9	4108.1	3757.5	3436.7
47.5°	7052.8	6911.3	6704.7	6495.4	6302.4	5965.2	5641.6	5285.5	4904.8	4488.9	4072.8
50°	7884.8	7773.3	7631.8	7379.0	7164.2	6881.4	6500.8	6112.0	5630.7	5217.5	4744.5
52.5°	8591.6	8504.6	8306.1	8126.6	7933.6	7667.1	7327.4	6954.9	6435.6	5981.4	5443.2
55°	9426.3	9363.8	9189.7	9078.3	8907.1	8651.5	8333.3	7988.1	7438.8	6944.0	6334.9
57.5°	10793.9	10745.0	10592.6	10546.4	10377.8	10154.9	9763.5	9393.6	8752.1	8137.5	7441.6
60°	13058.6	12960.9	12737.8	12623.8	12267.5	11968.5	11460.1	10951.6	10176.7	9393.6	8556.2
62.5°	15483.9	15209.3	14785.2	14420.9	13915.2	13395.8	12716.1	11938.6	11030.5	10100.6	9138.1
65°	16791.7	16324.1	15788.5	15209.3	14554.2	13790.1	12933.7	12001.2	11025.1	10043.5	9026.6
66°	16941.3	16413.7	15845.6	15201.2	14472.6	13659.6	12789.5	11810.8	10796.5	9839.6	8822.7
67.5°	16753.7	16201.8	15600.9	14885.9	14097.3	13254.5	12340.9	11324.1	10348.0	9377.3	8387.7
70°	15440.5	14891.1	14355.5	13602.5	12762.3	11914.1	11049.5	9913.1	8988.6	8096.7	7215.9
72.5°	12330.0	11957.6	11427.4	10783.0	9964.6	8969.5	8249.0	7232.3	6430.2	5565.5	4883.1
75°	7705.3	7180.6	6525.3	5704.2	5078.8	4271.3	3849.9	3077.7	2621.0	2221.3	1835.3
77.5°	3939.6	3545.5	3086.0	2623.7	2180.5	1740.0	1345.8	951.7	641.6	445.9	331.7
80°	3254.5	2906.5	2525.8	2104.4	1713.0	1329.6	957.1	652.5	416.1	271.9	212.0
82.5°	2688.9	2395.3	2055.4	1663.9	1324.1	1044.1	726.0	473.0	293.6	190.4	149.6
85°	1144.7	1038.7	802.1	636.1	478.5	353.5	247.5	165.9	116.9	95.1	87.0
87.5°	48.9	54.3	51.7	40.8	29.9	29.9	27.2	21.8	21.8	21.8	21.8
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8
2.5°	445.9	443.1	440.5	440.5	437.7	435.1	418.7	405.2	388.8	377.9	367.0
5°	464.9	462.1	456.8	454.0	448.6	445.9	410.6	380.6	356.1	337.1	323.6
7.5°	483.9	481.3	473.0	464.9	462.1	456.8	399.7	361.6	329.1	307.3	293.6
10°	508.4	500.3	492.2	481.3	473.0	464.9	388.8	339.8	304.5	285.5	271.9
12.5°	543.7	530.2	516.6	502.9	492.2	478.5	383.4	320.8	285.5	263.7	250.1
15°	584.6	565.5	549.1	533.0	513.8	500.3	372.5	304.5	269.1	247.5	231.1
17.5°	622.6	600.8	576.4	551.9	533.0	513.8	361.6	288.3	252.8	231.1	214.8
20°	676.9	644.4	614.5	584.6	557.4	533.0	345.2	271.9	239.2	214.8	198.5
22.5°	736.9	698.7	660.8	620.0	584.6	551.9	331.7	258.2	225.7	201.3	182.1
25°	813.0	766.7	715.1	663.4	622.6	579.2	318.2	244.7	212.0	187.6	168.6
27.5°	919.0	853.8	796.6	731.4	668.8	620.0	307.3	233.8	198.5	174.0	155.0
30°	1063.1	967.8	878.2	807.5	734.1	663.4	296.4	220.3	187.6	160.5	138.7
32.5°	1223.4	1112.0	1008.6	902.6	810.2	728.6	285.5	209.4	174.0	146.8	127.8
35°	1422.0	1280.6	1141.9	1019.5	908.1	799.3	274.6	198.5	163.1	133.2	114.3
37.5°	1707.5	1530.7	1348.6	1190.9	1046.8	902.6	266.5	187.6	149.6	119.7	100.5
40°	2099.0	1870.6	1647.6	1432.8	1245.2	1065.8	255.6	176.7	138.7	108.8	89.7
42.5°	2523.1	2245.8	1952.2	1710.2	1451.9	1226.2	244.7	165.9	127.8	97.9	78.9
45°	3050.6	2705.2	2349.1	2020.1	1704.7	1413.8	233.8	155.0	114.3	87.0	68.0
47.5°	3627.0	3186.5	2784.2	2370.9	1995.6	1647.6	220.3	146.8	103.4	76.1	59.8
50°	4219.8	3754.8	3246.3	2775.9	2330.1	1881.5	206.7	133.2	92.5	68.0	48.9
52.5°	4858.5	4309.4	3790.2	3205.5	2686.3	2188.6	193.0	122.3	84.2	59.8	40.8
55°	5671.5	5057.2	4448.1	3792.8	3167.5	2544.9	179.5	108.8	73.5	51.7	32.7
57.5°	6693.9	5965.2	5217.5	4478.0	3719.5	3012.5	168.6	95.1	62.6	43.4	27.2
60°	7659.1	6808.1	5902.7	5051.7	4195.2	3371.4	152.2	84.2	54.3	35.3	27.2
62.5°	8159.3	7188.7	6212.6	5274.6	4361.1	3499.2	135.9	70.7	46.2	29.9	24.4
65°	8037.0	7047.3	6101.1	5154.9	4260.5	3417.7	119.7	62.6	40.8	27.2	24.4
66°	7860.3	6881.4	5929.9	5029.9	4176.2	3330.7	111.4	59.8	38.1	27.2	21.8
67.5°	7474.1	6527.9	5619.8	4782.4	3945.0	3164.7	100.5	54.3	35.3	24.4	21.8
70°	6383.9	5524.7	4798.8	4053.8	3371.4	2667.3	81.6	46.2	29.9	21.8	21.8
72.5°	4225.0	3640.6	3156.6	2716.1	2270.2	1761.8	68.0	38.1	24.4	21.8	19.0
75°	1593.3	1441.0	1237.1	1112.0	970.7	851.0	54.3	24.4	19.0	19.0	19.0
77.5°	282.8	261.0	231.1	212.0	195.8	179.5	43.4	16.3	16.3	19.0	19.0
80°	190.4	176.7	160.5	146.8	135.9	122.3	29.9	13.5	16.3	16.3	19.0
82.5°	135.9	127.8	119.7	108.8	100.5	89.7	19.0	13.5	16.3	16.3	16.3
85°	81.6	76.1	70.7	65.2	57.1	54.3	13.5	13.5	13.5	16.3	16.3
87.5°	21.8	19.0	21.8	21.8	16.3	19.0	10.9	10.9	10.9	13.5	13.5
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):

	145°	155°	165°	175°	180°
0°	426.8	426.8	426.8	426.8	426.8
2.5°	361.6	361.6	356.1	364.4	364.4
5°	312.7	312.7	309.9	312.7	312.7
7.5°	285.5	282.8	282.8	282.8	285.5
10°	261.0	258.2	258.2	258.2	258.2
12.5°	239.2	236.6	233.8	236.6	236.6
15°	220.3	214.8	214.8	214.8	214.8
17.5°	203.9	198.5	195.8	195.8	195.8
20°	187.6	179.5	179.5	179.5	179.5
22.5°	171.2	163.1	163.1	163.1	163.1
25°	155.0	146.8	146.8	146.8	146.8
27.5°	141.3	133.2	133.2	133.2	133.2
30°	125.1	119.7	119.7	122.3	119.7
32.5°	114.3	106.0	106.0	108.8	108.8
35°	100.5	95.1	95.1	95.1	95.1
37.5°	87.0	81.6	81.6	81.6	81.6
40°	76.1	70.7	68.0	70.7	70.7
42.5°	65.2	59.8	57.1	57.1	57.1
45°	57.1	48.9	46.2	48.9	48.9
47.5°	46.2	40.8	40.8	43.4	43.4
50°	35.3	35.3	38.1	43.4	43.4
52.5°	32.7	32.7	38.1	43.4	43.4
55°	29.9	32.7	38.1	40.8	43.4
57.5°	27.2	32.7	38.1	40.8	40.8
60°	27.2	29.9	35.3	40.8	40.8
62.5°	24.4	27.2	32.7	38.1	38.1
65°	24.4	27.2	32.7	38.1	38.1
66°	24.4	27.2	32.7	38.1	38.1
67.5°	24.4	27.2	32.7	38.1	38.1
70°	24.4	27.2	32.7	35.3	35.3
72.5°	21.8	24.4	29.9	35.3	35.3
75°	21.8	24.4	29.9	35.3	35.3
77.5°	21.8	24.4	29.9	35.3	35.3
80°	21.8	24.4	29.9	32.7	35.3
82.5°	19.0	24.4	27.2	32.7	32.7
85°	19.0	21.8	27.2	29.9	32.7
87.5°	16.3	19.0	21.8	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)