

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: P165296

Luminaire Tested: **VST-E08-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165296
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-E08-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12517.3 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 194.5
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



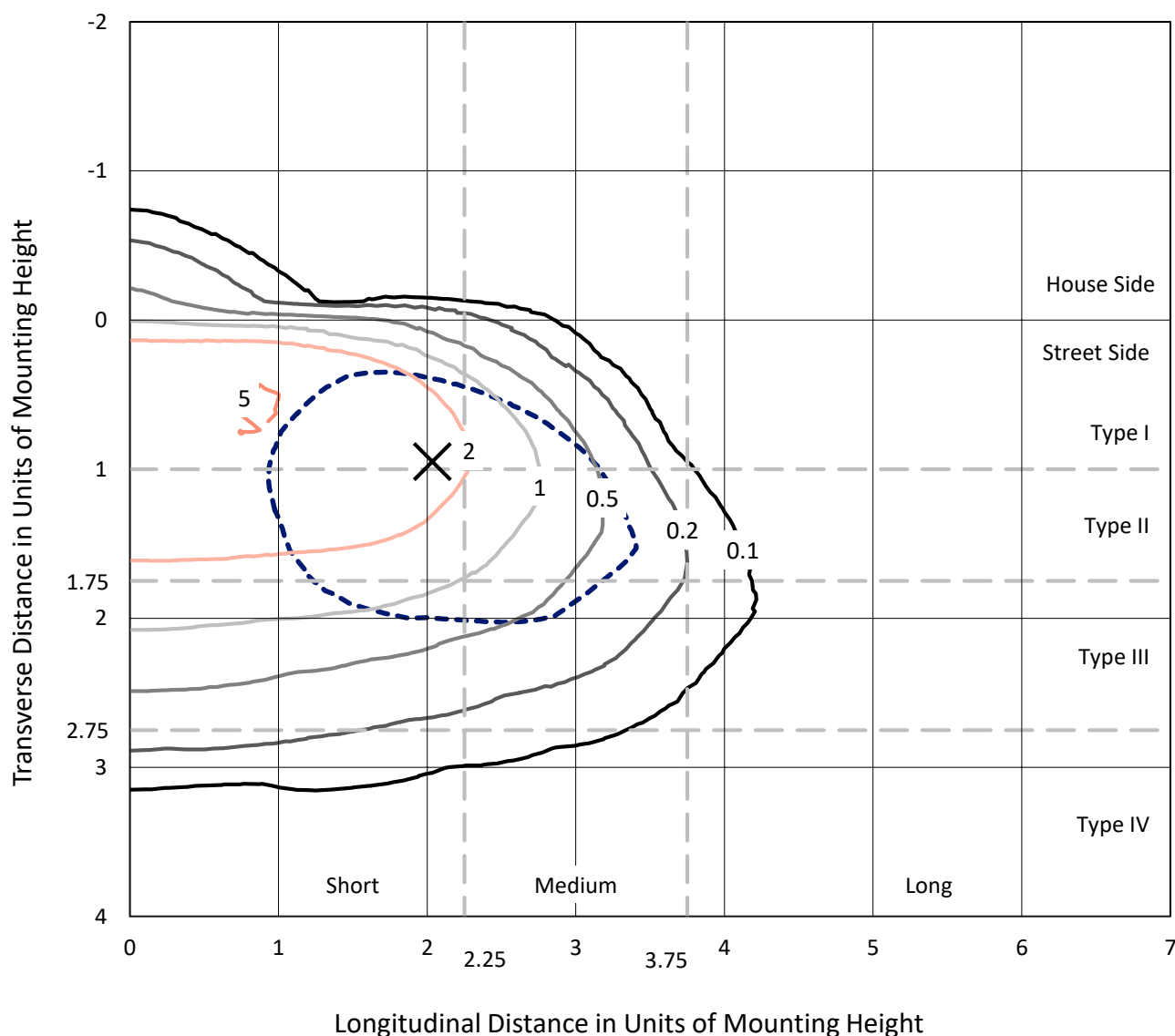
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

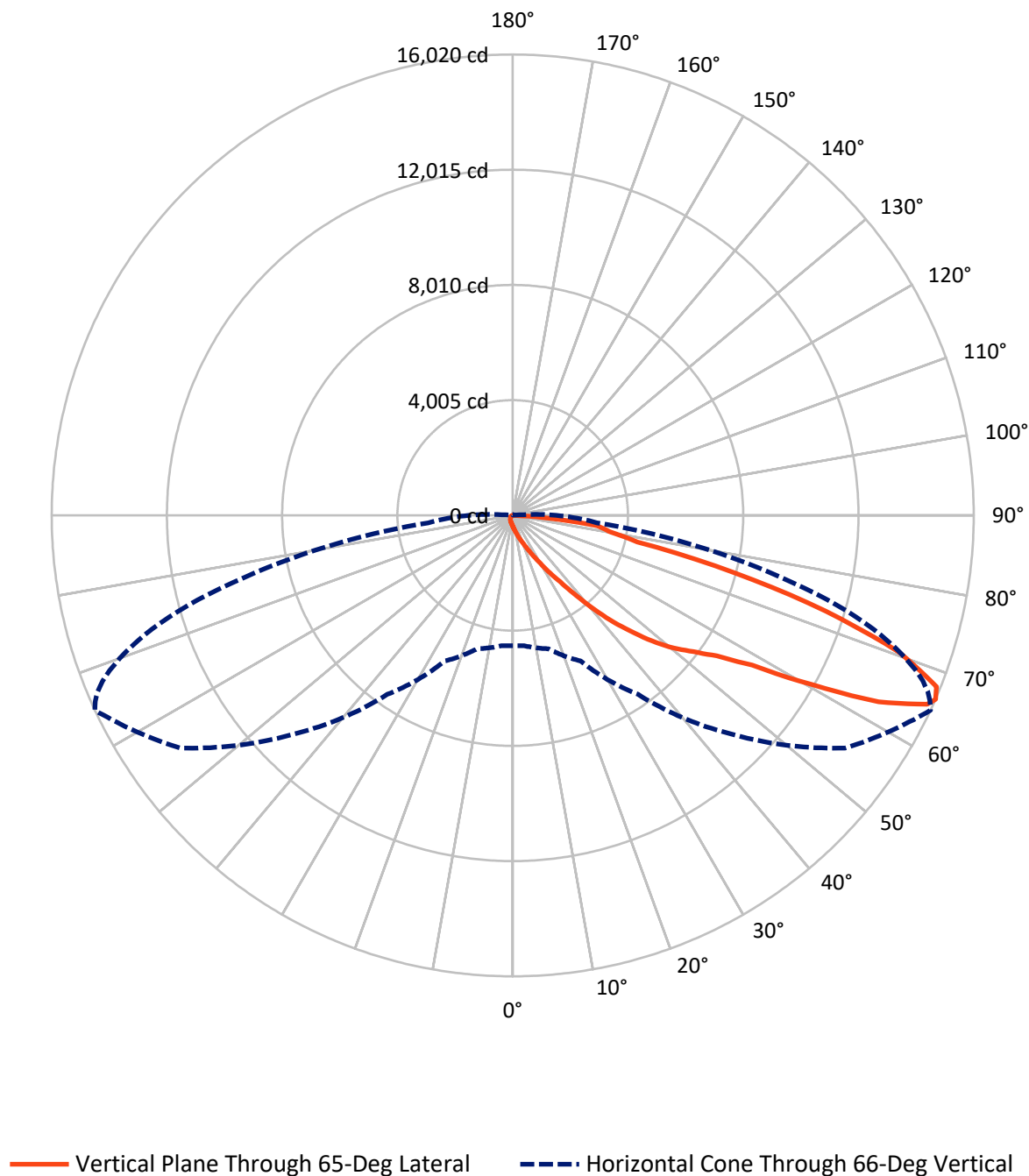


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
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Luminous Intensity Polar Plot



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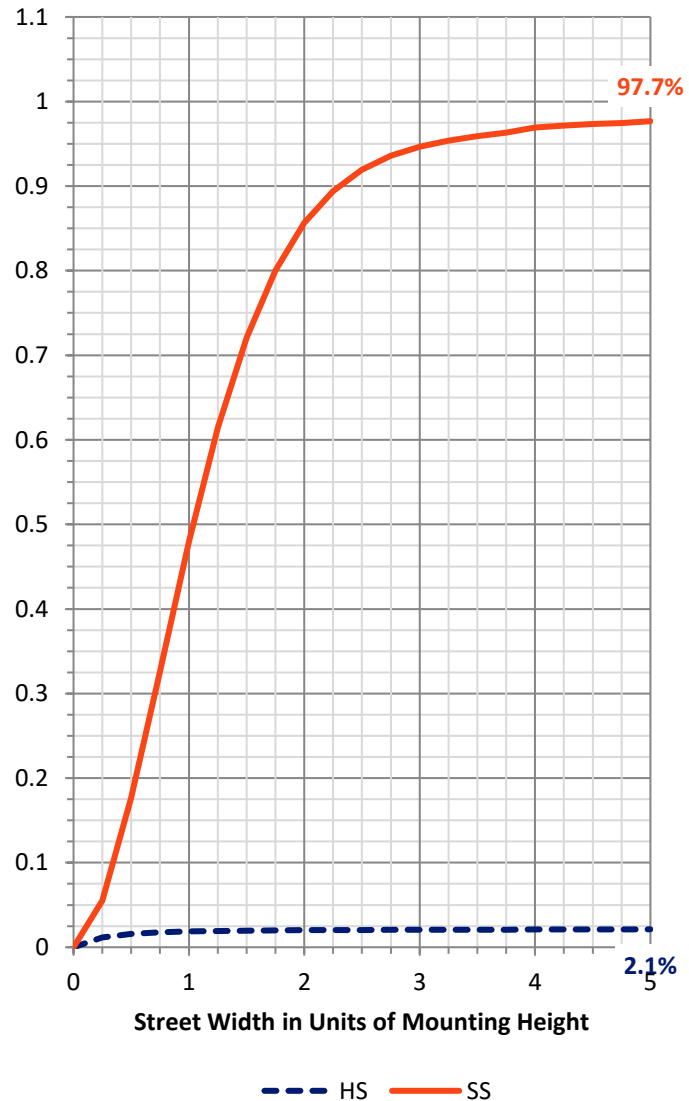
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	271.3	0.0	271.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	12246.0	0.0	12246.0
	% Fixture	97.8	0.0	97.8
Total	Lumens	12517.3	0.0	12517.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	0.3
10°-20°	179.3	1.4
20°-30°	386.8	3.1
30°-40°	826.0	6.6
40°-50°	1826.8	14.6
50°-60°	3095.8	24.7
60°-70°	4131.0	33.0
70°-80°	1819.7	14.5
80°-90°	209.6	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°	12517.3	100.0
0°-180°	12517.3	100.0

Coefficient of Utilization



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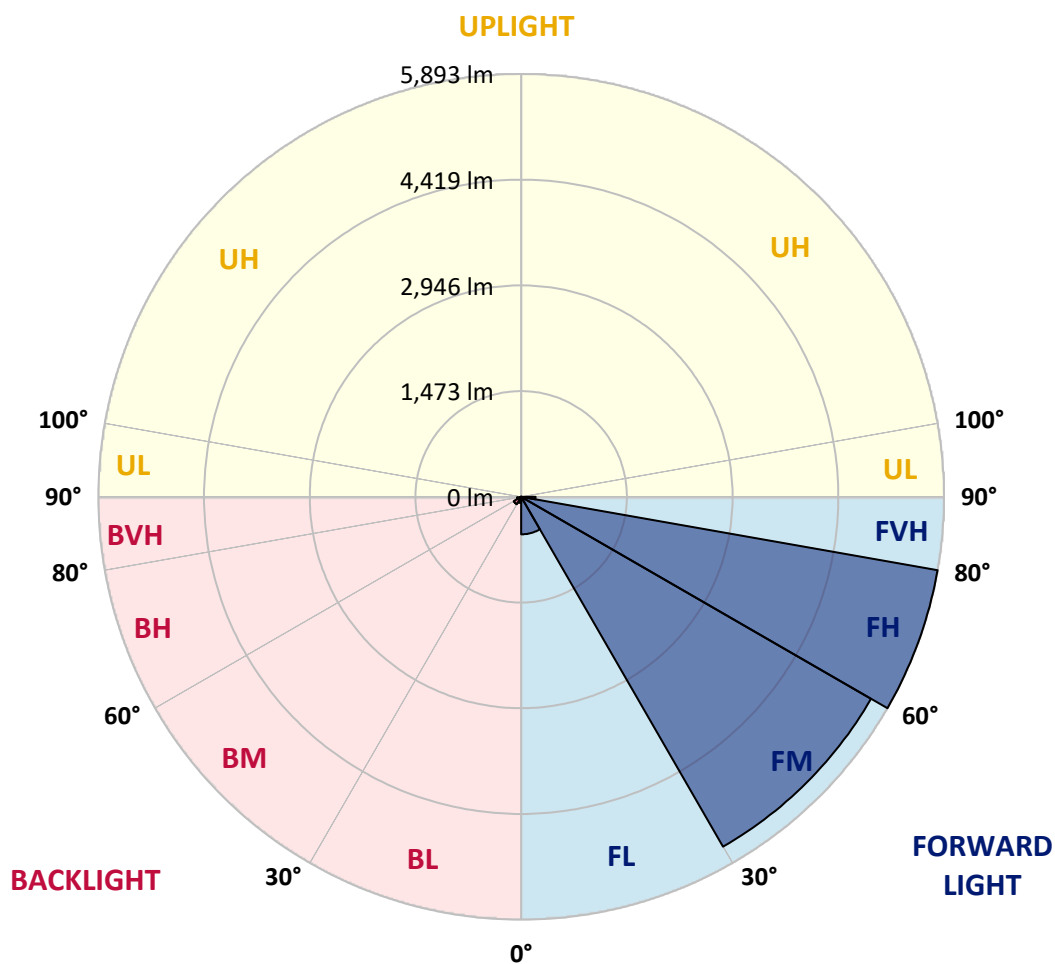
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.8	4.2			
FM	(30°-60°)	5629.4	45.0			
FH	(60°-80°)	5892.5	47.1			G3/7500
FVH	(80°-90°)	201.2	1.6			G2/225
BL	(0°-30°)	85.6	0.7	B0/110		
BM	(30°-60°)	119.1	1.0	B0/220		
BH	(60°-80°)	58.2	0.5	B0/110		G0/110
BVH	(80°-90°)	8.4	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°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	476.5	474.1	464.4	464.4	450.0	440.5	428.3	416.3	416.3	413.9	411.5
5°	630.4	616.1	613.6	587.2	565.5	534.3	505.3	466.9	462.1	457.3	454.8
7.5°	801.4	798.9	777.3	746.0	702.8	644.9	587.2	524.6	515.0	510.2	500.5
10°	1022.8	1010.7	981.9	928.8	864.0	786.9	693.1	594.3	582.4	572.7	567.9
12.5°	1234.6	1212.9	1196.0	1128.6	1046.8	933.7	820.6	678.7	669.0	657.0	637.7
15°	1431.8	1412.6	1383.8	1326.0	1234.6	1092.5	960.3	786.9	762.8	746.0	731.6
17.5°	1585.9	1573.9	1540.1	1475.2	1376.5	1251.4	1092.5	897.6	878.4	856.6	830.2
20°	1732.7	1715.8	1662.9	1573.9	1467.9	1371.6	1249.0	1042.0	1015.5	989.0	960.3
22.5°	1872.3	1855.3	1768.8	1622.0	1508.9	1467.9	1424.7	1205.6	1164.7	1143.1	1114.1
25°	2067.2	2031.1	1896.3	1662.9	1511.3	1542.6	1617.1	1417.4	1378.9	1347.7	1301.9
27.5°	2329.6	2281.3	2069.6	1723.1	1520.8	1624.4	1838.5	1674.9	1633.9	1597.9	1547.4
30°	2625.5	2594.2	2341.5	1867.5	1590.7	1744.7	2086.4	2002.2	1954.1	1910.7	1850.7
32.5°	2923.9	2880.6	2630.3	2141.8	1778.3	1978.1	2396.9	2382.5	2319.9	2279.0	2214.0
35°	3186.2	3164.6	2979.3	2591.7	2206.8	2387.3	2810.8	2827.6	2772.3	2728.9	2656.8
37.5°	3364.3	3364.3	3328.2	3075.4	2887.8	3022.5	3419.6	3422.1	3366.7	3268.0	3231.9
40°	3455.7	3482.1	3612.2	3660.3	3650.6	3823.9	4218.7	4175.3	4129.5	4078.9	3958.7
42.5°	3643.5	3667.4	3944.2	4276.4	4493.0	4721.5	4993.5	4979.0	4923.8	4832.3	4721.5
45°	3961.2	3992.4	4322.1	4849.1	5294.2	5619.2	5792.4	5725.0	5669.6	5583.1	5525.3
47.5°	4365.4	4425.6	4798.5	5450.7	5987.3	6524.0	6704.4	6526.4	6478.4	6410.8	6317.0
50°	4796.2	4853.9	5251.0	5997.0	6603.4	7243.5	7544.4	7243.5	7173.8	7152.0	7046.2
52.5°	5169.1	5217.3	5599.9	6418.1	7075.0	7825.9	8263.8	7866.8	7816.2	7744.0	7667.0
55°	5390.5	5429.1	5787.6	6620.3	7395.2	8350.5	8959.5	8610.5	8535.8	8507.0	8396.2
57.5°	5465.2	5503.6	5826.2	6646.7	7568.4	8829.4	9804.1	9816.1	9727.1	9623.6	9589.9
60°	5465.2	5508.5	5780.4	6581.8	7736.9	9339.6	10930.2	11933.8	11741.3	11722.0	11599.3
62.5°	5239.0	5279.9	5554.2	6382.1	7963.1	10027.9	12499.3	14270.5	14215.2	14090.0	13887.9
65°	4748.0	4772.1	5041.5	5871.9	7876.4	10660.8	13859.0	15825.1	15736.1	15490.6	15230.7
66°	4526.6	4545.9	4798.5	5580.6	7592.5	10747.4	14099.6	16020.0	15873.3	15666.2	15372.6
67.5°	4206.5	4240.3	4418.3	5039.2	6911.5	10446.5	13948.1	15882.9	15755.4	15505.0	15211.4
70°	2808.4	2784.3	3412.4	3867.2	5265.4	8511.8	12513.8	14260.8	14263.3	14145.4	14027.5
72.5°	1333.2	1347.7	1530.5	2380.0	3446.0	5686.6	9960.5	11382.7	11546.4	11334.6	11187.7
75°	957.8	979.4	1090.2	1456.0	2055.1	3412.4	6456.6	7960.6	7965.4	7590.0	7255.7
77.5°	279.1	291.2	409.0	897.6	1540.1	2303.0	3708.3	4425.6	4322.1	4052.5	3799.8
80°	115.4	115.4	120.3	286.4	618.4	1564.2	2594.2	3407.6	3395.6	3292.2	3142.9
82.5°	43.3	45.7	57.7	117.9	146.9	385.1	1730.3	2957.6	2950.3	2803.6	2697.7
85°	4.8	4.8	14.5	50.6	55.4	72.2	346.5	1304.3	1297.1	1304.3	1143.1
87.5°	0.0	0.0	2.3	4.8	7.2	9.6	14.5	50.6	55.4	52.9	48.1
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	411.5	406.7	406.7	404.4	404.4	404.4	401.9	399.5	399.5	397.1	394.7
5°	450.0	445.1	442.8	438.0	435.6	433.1	428.3	426.0	421.2	418.7	416.3
7.5°	495.7	486.0	483.7	476.5	469.2	464.4	459.6	452.4	447.6	438.0	435.6
10°	553.6	541.4	531.8	522.1	515.0	503.0	495.7	486.0	476.5	469.2	462.1
12.5°	628.1	611.3	596.8	587.2	570.4	555.9	541.4	534.3	515.0	505.3	493.4
15°	709.9	690.6	673.8	654.5	642.6	618.4	599.2	577.5	567.9	551.1	531.8
17.5°	815.7	784.5	758.0	738.9	714.8	690.6	669.0	647.4	618.4	599.2	575.2
20°	928.8	902.4	866.3	832.7	803.7	775.0	743.5	714.8	688.3	657.0	628.1
22.5°	1073.4	1034.8	991.5	957.8	919.3	888.1	844.7	806.2	762.8	721.9	688.3
25°	1256.2	1205.6	1164.7	1116.6	1070.9	1022.8	969.8	921.7	866.3	827.9	770.1
27.5°	1482.4	1434.3	1378.9	1316.4	1270.7	1198.5	1128.6	1068.5	1003.5	943.3	878.4
30°	1771.2	1701.5	1643.6	1583.5	1492.0	1422.2	1340.4	1258.7	1169.5	1109.5	1010.7
32.5°	2117.7	2043.1	1956.5	1869.8	1785.6	1687.0	1585.9	1484.7	1386.1	1275.5	1174.3
35°	2541.3	2452.2	2353.5	2259.7	2129.8	2023.8	1896.3	1756.7	1646.1	1518.5	1390.9
37.5°	3102.0	2955.2	2868.5	2769.9	2594.2	2449.8	2307.8	2168.2	1973.3	1838.5	1658.1
40°	3804.7	3718.0	3576.1	3417.2	3258.4	3068.3	2875.8	2690.5	2464.3	2276.5	2067.2
42.5°	4630.0	4502.6	4358.2	4129.5	3968.3	3744.4	3525.5	3280.0	3003.2	2762.7	2517.2
45°	5405.0	5253.4	5142.7	4914.1	4745.6	4480.8	4216.2	3956.3	3636.2	3325.8	3041.8
47.5°	6242.5	6117.3	5934.4	5749.1	5578.3	5279.9	4993.5	4678.3	4341.3	3973.1	3604.9
50°	6978.9	6880.2	6755.0	6531.3	6341.1	6090.8	5754.0	5409.8	4983.8	4618.0	4199.4
52.5°	7604.5	7527.5	7351.8	7193.0	7022.1	6786.3	6485.5	6155.8	5696.2	5294.2	4817.8
55°	8343.3	8288.0	8133.9	8035.3	7883.7	7657.5	7375.9	7070.4	6584.2	6146.2	5607.1
57.5°	9553.8	9510.5	9375.7	9334.7	9185.5	8988.2	8641.8	8314.4	7746.5	7202.6	6586.6
60°	11558.3	11471.8	11274.4	11173.4	10858.1	10593.4	10143.4	9693.4	9007.5	8314.4	7573.2
62.5°	13704.9	13461.9	13086.5	12764.1	12316.5	11856.7	11255.1	10567.0	9763.2	8940.2	8088.2
65°	14862.5	14448.6	13974.6	13461.9	12882.0	12205.7	11447.7	10622.3	9758.4	8889.6	7989.6
66°	14994.9	14528.0	14025.1	13454.7	12809.8	12090.3	11320.1	10453.8	9556.1	8709.1	7809.1
67.5°	14828.9	14340.3	13808.5	13175.6	12477.7	11731.7	10923.1	10023.0	9159.1	8299.9	7424.0
70°	13666.5	13180.3	12706.2	12039.7	11296.0	10545.3	9780.0	8774.2	7955.9	7166.5	6386.9
72.5°	10913.4	10583.8	10114.5	9544.1	8819.7	7939.0	7301.2	6401.3	5691.4	4926.1	4322.1
75°	6820.0	6355.6	5775.6	5048.9	4495.3	3780.5	3407.6	2724.1	2319.9	1966.1	1624.4
77.5°	3487.0	3138.1	2731.4	2322.2	1930.0	1540.1	1191.2	842.3	567.9	394.7	293.6
80°	2880.6	2572.6	2235.6	1862.7	1516.2	1176.8	847.2	577.5	368.3	240.7	187.6
82.5°	2380.0	2120.1	1819.2	1472.8	1172.0	924.2	642.6	418.7	259.8	168.5	132.4
85°	1013.2	919.3	709.9	563.1	423.5	312.9	219.1	146.9	103.5	84.2	77.0
87.5°	43.3	48.1	45.7	36.1	26.5	26.5	24.1	19.3	19.3	19.3	19.3
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	394.7	392.2	389.9	389.9	387.4	385.1	370.6	358.6	344.2	334.5	324.9
5°	411.5	409.0	404.4	401.9	397.1	394.7	363.4	336.8	315.2	298.4	286.4
7.5°	428.3	426.0	418.7	411.5	409.0	404.4	353.8	320.0	291.2	272.0	259.8
10°	450.0	442.8	435.6	426.0	418.7	411.5	344.2	300.7	269.5	252.7	240.7
12.5°	481.2	469.2	457.3	445.1	435.6	423.5	339.3	283.9	252.7	233.4	221.4
15°	517.5	500.5	486.0	471.7	454.8	442.8	329.7	269.5	238.2	219.1	204.6
17.5°	551.1	531.8	510.2	488.5	471.7	454.8	320.0	255.2	223.7	204.6	190.1
20°	599.2	570.4	543.9	517.5	493.4	471.7	305.6	240.7	211.8	190.1	175.7
22.5°	652.2	618.4	584.8	548.7	517.5	488.5	293.6	228.6	199.8	178.1	161.2
25°	719.6	678.7	632.9	587.2	551.1	512.6	281.6	216.6	187.6	166.0	149.2
27.5°	813.4	755.7	705.1	647.4	592.0	548.7	272.0	206.9	175.7	154.0	137.2
30°	941.0	856.6	777.3	714.8	649.7	587.2	262.3	194.9	166.0	142.0	122.8
32.5°	1082.9	984.2	892.7	798.9	717.1	644.9	252.7	185.3	154.0	129.9	113.1
35°	1258.7	1133.4	1010.7	902.4	803.7	707.4	243.0	175.7	144.4	117.9	101.1
37.5°	1511.3	1354.8	1193.6	1054.1	926.5	798.9	235.9	166.0	132.4	105.9	89.0
40°	1857.8	1655.7	1458.3	1268.2	1102.2	943.3	226.2	156.4	122.8	96.3	79.4
42.5°	2233.3	1987.7	1727.9	1513.7	1285.1	1085.4	216.6	146.9	113.1	86.7	69.9
45°	2700.2	2394.4	2079.2	1788.0	1508.9	1251.4	206.9	137.2	101.1	77.0	60.2
47.5°	3210.3	2820.4	2464.3	2098.5	1766.3	1458.3	194.9	129.9	91.5	67.4	52.9
50°	3734.9	3323.4	2873.3	2457.0	2062.4	1665.4	183.0	117.9	81.8	60.2	43.3
52.5°	4300.3	3814.3	3354.7	2837.2	2377.6	1937.2	170.8	108.3	74.5	52.9	36.1
55°	5019.9	4476.1	3937.1	3357.0	2803.6	2252.5	158.8	96.3	65.0	45.7	28.9
57.5°	5924.8	5279.9	4618.0	3963.5	3292.2	2666.4	149.2	84.2	55.4	38.4	24.1
60°	6779.1	6025.9	5224.5	4471.3	3713.2	2984.1	134.7	74.5	48.1	31.3	24.1
62.5°	7221.9	6362.8	5498.8	4668.6	3860.0	3097.2	120.3	62.5	40.9	26.5	21.6
65°	7113.6	6237.7	5400.2	4562.7	3771.0	3025.0	105.9	55.4	36.1	24.1	21.6
66°	6957.2	6090.8	5248.6	4452.0	3696.4	2948.0	98.6	52.9	33.8	24.1	19.3
67.5°	6615.4	5777.9	4974.2	4233.0	3491.8	2801.1	89.0	48.1	31.3	21.6	19.3
70°	5650.5	4890.0	4247.4	3588.1	2984.1	2360.8	72.2	40.9	26.5	19.3	19.3
72.5°	3739.6	3222.3	2794.0	2404.1	2009.4	1559.4	60.2	33.8	21.6	19.3	16.8
75°	1410.2	1275.5	1095.0	984.2	859.1	753.2	48.1	21.6	16.8	16.8	16.8
77.5°	250.3	231.0	204.6	187.6	173.3	158.8	38.4	14.5	14.5	16.8	16.8
80°	168.5	156.4	142.0	129.9	120.3	108.3	26.5	12.0	14.5	14.5	16.8
82.5°	120.3	113.1	105.9	96.3	89.0	79.4	16.8	12.0	14.5	14.5	14.5
85°	72.2	67.4	62.5	57.7	50.6	48.1	12.0	12.0	12.0	14.5	14.5
87.5°	19.3	16.8	19.3	19.3	14.5	16.8	9.6	9.6	9.6	12.0	12.0
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):

	145°	155°	165°	175°	180°
0°	377.8	377.8	377.8	377.8	377.8
2.5°	320.0	320.0	315.2	322.5	322.5
5°	276.8	276.8	274.3	276.8	276.8
7.5°	252.7	250.3	250.3	250.3	252.7
10°	231.0	228.6	228.6	228.6	228.6
12.5°	211.8	209.4	206.9	209.4	209.4
15°	194.9	190.1	190.1	190.1	190.1
17.5°	180.5	175.7	173.3	173.3	173.3
20°	166.0	158.8	158.8	158.8	158.8
22.5°	151.5	144.4	144.4	144.4	144.4
25°	137.2	129.9	129.9	129.9	129.9
27.5°	125.1	117.9	117.9	117.9	117.9
30°	110.8	105.9	105.9	108.3	105.9
32.5°	101.1	93.8	93.8	96.3	96.3
35°	89.0	84.2	84.2	84.2	84.2
37.5°	77.0	72.2	72.2	72.2	72.2
40°	67.4	62.5	60.2	62.5	62.5
42.5°	57.7	52.9	50.6	50.6	50.6
45°	50.6	43.3	40.9	43.3	43.3
47.5°	40.9	36.1	36.1	38.4	38.4
50°	31.3	31.3	33.8	38.4	38.4
52.5°	28.9	28.9	33.8	38.4	38.4
55°	26.5	28.9	33.8	36.1	38.4
57.5°	24.1	28.9	33.8	36.1	36.1
60°	24.1	26.5	31.3	36.1	36.1
62.5°	21.6	24.1	28.9	33.8	33.8
65°	21.6	24.1	28.9	33.8	33.8
66°	21.6	24.1	28.9	33.8	33.8
67.5°	21.6	24.1	28.9	33.8	33.8
70°	21.6	24.1	28.9	31.3	31.3
72.5°	19.3	21.6	26.5	31.3	31.3
75°	19.3	21.6	26.5	31.3	31.3
77.5°	19.3	21.6	26.5	31.3	31.3
80°	19.3	21.6	26.5	28.9	31.3
82.5°	16.8	21.6	24.1	28.9	28.9
85°	16.8	19.3	24.1	26.5	28.9
87.5°	14.5	16.8	19.3	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)