

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: P165330

Luminaire Tested: **VST-F11-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165330
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-F11-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (77) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13129.3 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 282.7
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



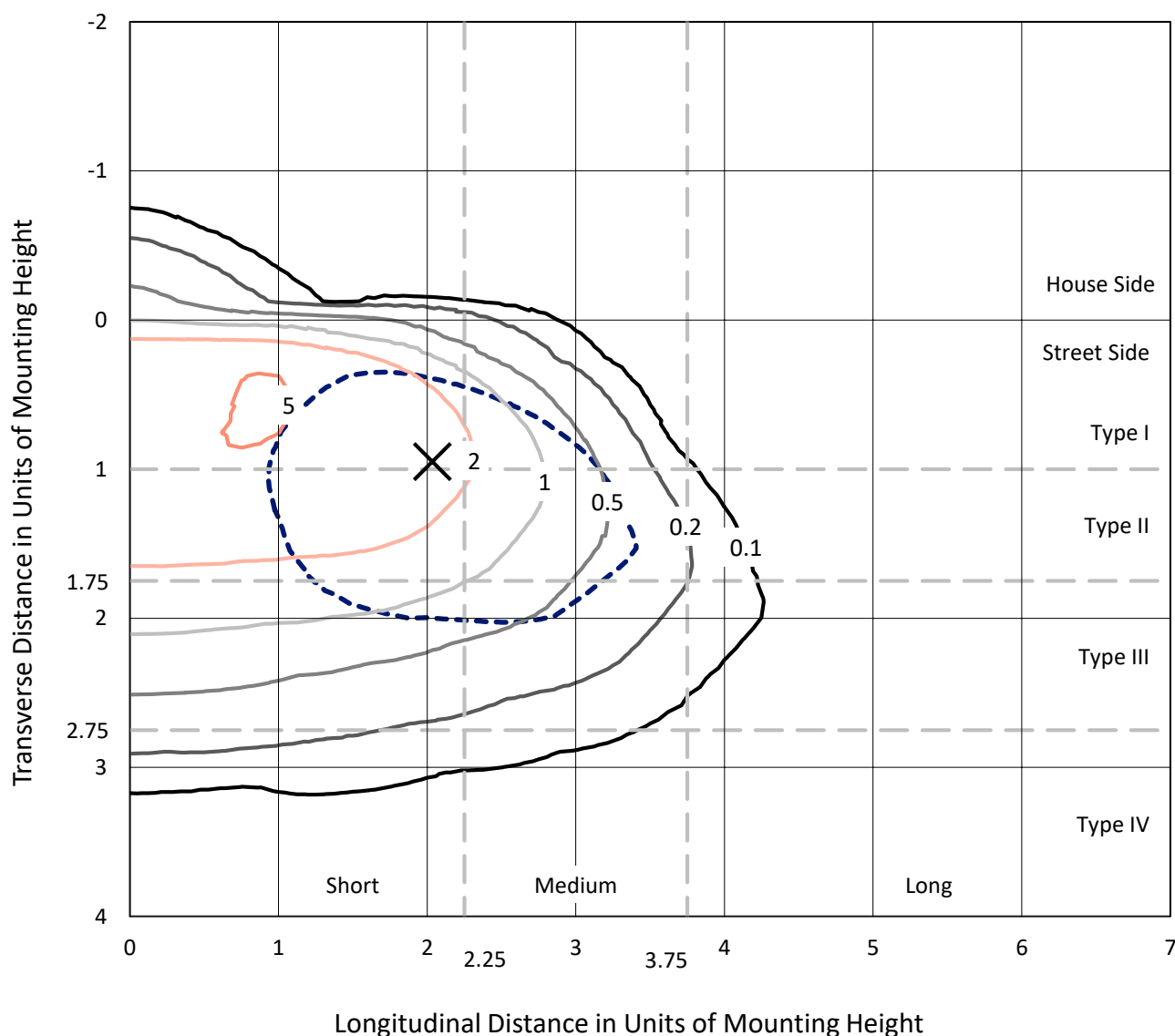
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

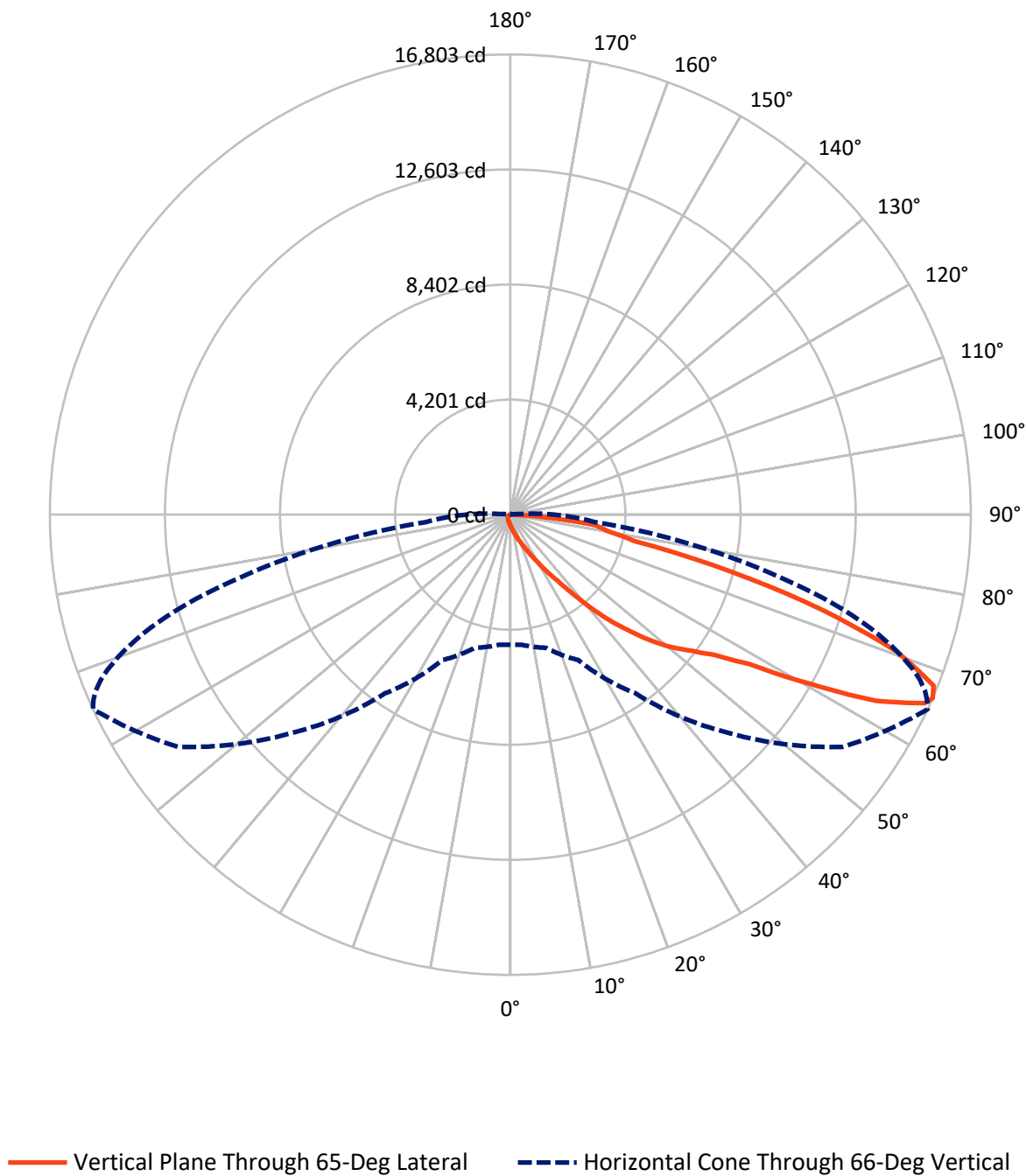


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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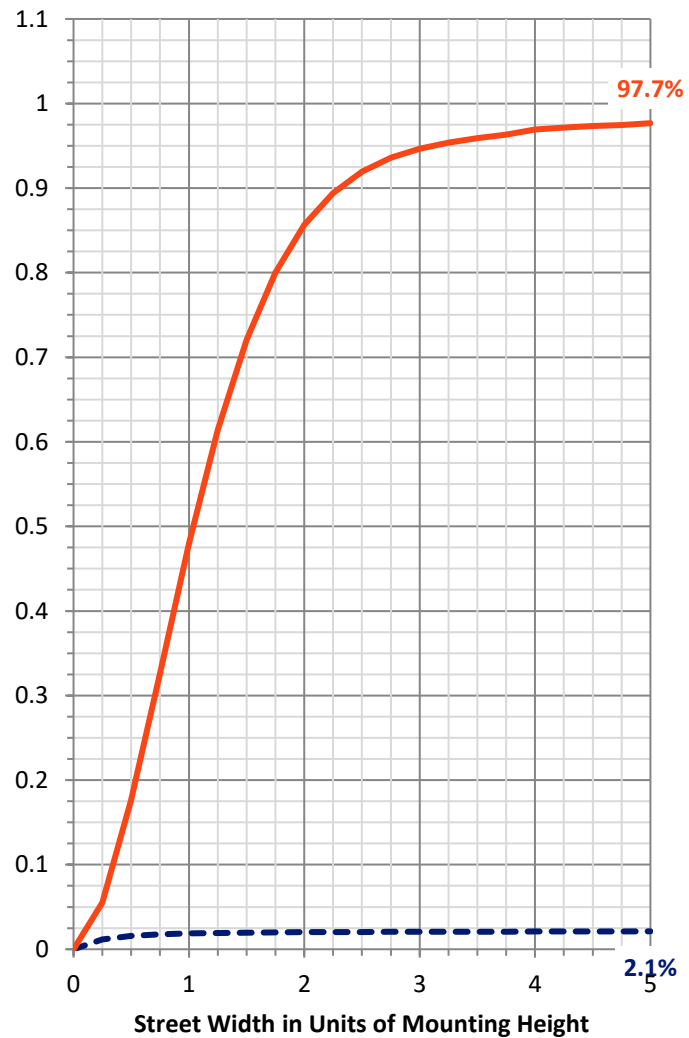
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	284.5	0.0	284.5
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	12844.8	0.0	12844.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	13129.3	0.0	13129.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	0.3
10°-20°	188.1	1.4
20°-30°	405.7	3.1
30°-40°	866.4	6.6
40°-50°	1916.1	14.6
50°-60°	3247.1	24.7
60°-70°	4333.0	33.0
70°-80°	1908.6	14.5
80°-90°	219.9	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°	13129.3	100.0
0°-180°	13129.3	100.0

Coefficient of Utilization



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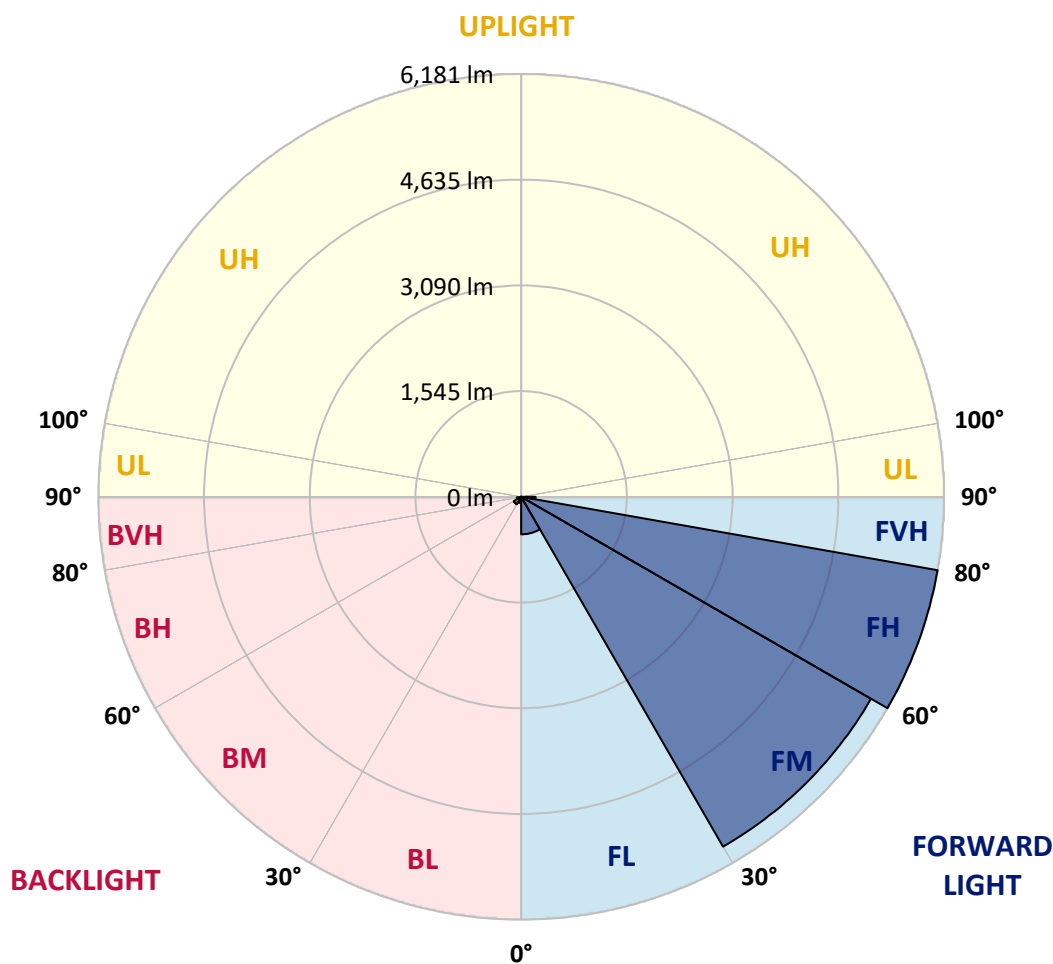
CATALOG NUMBER: VST-F11-LED-E-U-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.4	4.2			
FM	(30°-60°)	5904.7	45.0			
FH	(60°-80°)	6180.7	47.1			G3/7500
FVH	(80°-90°)	211.1	1.6			G2/225
BL	(0°-30°)	89.8	0.7	B0/110		
BM	(30°-60°)	124.9	1.0	B0/220		
BH	(60°-80°)	61.0	0.5	B0/110		G0/110
BVH	(80°-90°)	8.8	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°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	499.9	497.2	487.1	487.1	472.0	462.0	449.3	436.7	436.7	434.1	431.6
5°	661.3	646.2	643.6	615.9	593.2	560.4	530.0	489.7	484.7	479.6	477.0
7.5°	840.6	838.0	815.3	782.5	737.1	676.4	615.9	550.3	540.2	535.1	525.0
10°	1072.8	1060.1	1029.9	974.3	906.2	825.4	727.0	623.4	610.8	600.7	595.7
12.5°	1294.9	1272.2	1254.5	1183.8	1098.0	979.3	860.7	711.8	701.7	689.2	668.9
15°	1501.9	1481.6	1451.4	1390.9	1294.9	1145.9	1007.2	825.4	800.1	782.5	767.3
17.5°	1663.4	1650.8	1615.4	1547.4	1443.8	1312.6	1145.9	941.5	921.4	898.5	870.8
20°	1817.5	1799.7	1744.2	1650.8	1539.7	1438.7	1310.1	1092.9	1065.2	1037.4	1007.2
22.5°	1963.8	1946.1	1855.3	1701.3	1582.6	1539.7	1494.3	1264.6	1221.7	1199.0	1168.6
25°	2168.3	2130.5	1989.0	1744.2	1585.2	1618.0	1696.2	1486.7	1446.4	1413.6	1365.6
27.5°	2443.5	2392.9	2170.8	1807.3	1595.2	1703.9	1928.4	1756.8	1713.8	1676.0	1623.1
30°	2753.9	2721.1	2456.0	1958.8	1668.5	1830.0	2188.4	2100.1	2049.7	2004.2	1941.2
32.5°	3066.9	3021.5	2758.9	2246.5	1865.3	2074.8	2514.1	2499.0	2433.3	2390.4	2322.2
35°	3342.0	3319.3	3125.0	2718.5	2314.7	2504.0	2948.2	2965.8	2907.9	2862.4	2786.7
37.5°	3528.9	3528.9	3491.0	3225.8	3029.0	3170.3	3586.8	3589.4	3531.3	3427.8	3390.0
40°	3624.7	3652.4	3788.8	3839.2	3829.1	4010.9	4424.9	4379.4	4331.4	4278.4	4152.3
42.5°	3821.6	3846.8	4137.1	4485.5	4712.6	4952.4	5237.6	5222.5	5164.5	5068.6	4952.4
45°	4154.9	4187.7	4533.5	5086.2	5553.1	5894.0	6075.6	6005.0	5946.9	5856.1	5795.4
47.5°	4578.8	4642.0	5033.2	5717.3	6280.1	6843.0	7032.3	6845.6	6795.1	6724.3	6625.9
50°	5030.7	5091.3	5507.7	6290.2	6926.3	7597.7	7913.3	7597.7	7524.6	7501.8	7390.8
52.5°	5421.9	5472.5	5873.8	6732.0	7421.0	8208.5	8667.9	8251.5	8198.4	8122.7	8041.9
55°	5654.1	5694.6	6070.6	6944.0	7756.8	8758.8	9397.6	9031.5	8953.2	8923.0	8806.8
57.5°	5732.4	5772.7	6111.0	6971.7	7938.5	9261.1	10283.5	10296.1	10202.7	10094.2	10058.8
60°	5732.4	5777.8	6063.1	6903.7	8115.2	9796.2	11464.7	12517.3	12315.4	12295.2	12166.4
62.5°	5495.2	5538.1	5825.8	6694.1	8352.5	10518.2	13110.5	14968.3	14910.3	14779.0	14567.0
65°	4980.1	5005.4	5288.1	6159.0	8261.6	11182.1	14536.6	16598.9	16505.5	16248.0	15975.5
66°	4747.9	4768.1	5033.2	5853.5	7963.8	11273.0	14789.1	16803.4	16649.5	16432.3	16124.3
67.5°	4412.2	4447.6	4634.3	5285.6	7249.5	10957.4	14630.1	16659.6	16525.8	16263.2	15955.3
70°	2945.8	2920.5	3579.3	4056.3	5522.9	8928.1	13125.7	14958.2	14960.8	14837.1	14713.4
72.5°	1398.4	1413.6	1605.3	2496.3	3614.5	5964.7	10447.5	11939.3	12110.9	11888.8	11734.8
75°	1004.6	1027.3	1143.5	1527.1	2155.6	3579.3	6772.3	8349.9	8354.9	7961.2	7610.4
77.5°	292.8	305.5	429.0	941.5	1615.4	2415.6	3889.7	4642.0	4533.5	4250.7	3985.6
80°	121.1	121.1	126.2	300.4	648.7	1640.7	2721.1	3574.2	3561.7	3453.1	3296.6
82.5°	45.4	48.0	60.5	123.7	154.0	403.9	1814.9	3102.3	3094.6	2940.7	2829.6
85°	5.1	5.1	15.2	53.0	58.1	75.7	363.4	1368.0	1360.5	1368.0	1199.0
87.5°	0.0	0.0	2.5	5.1	7.5	10.1	15.2	53.0	58.1	55.5	50.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	431.6	426.6	426.6	424.1	424.1	424.1	421.5	419.1	419.1	416.5	414.0
5°	472.0	466.9	464.4	459.4	456.9	454.3	449.3	446.8	441.8	439.2	436.7
7.5°	519.9	509.8	507.4	499.9	492.2	487.1	482.1	474.6	469.5	459.4	456.9
10°	580.6	567.9	557.8	547.7	540.2	527.6	519.9	509.8	499.9	492.2	484.7
12.5°	658.8	641.2	626.0	615.9	598.3	583.1	567.9	560.4	540.2	530.0	517.5
15°	744.6	724.4	706.8	686.5	674.0	648.7	628.5	605.8	595.7	578.0	557.8
17.5°	855.6	822.8	795.1	775.0	749.7	724.4	701.7	679.0	648.7	628.5	603.3
20°	974.3	946.5	908.7	873.4	843.1	812.9	779.9	749.7	722.0	689.2	658.8
22.5°	1125.9	1085.4	1040.0	1004.6	964.3	931.5	886.0	845.7	800.1	757.2	722.0
25°	1317.6	1264.6	1221.7	1171.2	1123.2	1072.8	1017.2	966.7	908.7	868.3	807.8
27.5°	1554.9	1504.5	1446.4	1380.8	1332.8	1257.1	1183.8	1120.8	1052.6	989.4	921.4
30°	1857.8	1784.7	1724.0	1661.0	1565.0	1491.7	1405.9	1320.2	1226.7	1163.7	1060.1
32.5°	2221.2	2143.0	2052.1	1961.2	1873.0	1769.5	1663.4	1557.3	1453.9	1337.8	1231.8
35°	2665.6	2572.1	2468.6	2370.2	2233.9	2122.8	1989.0	1842.6	1726.6	1592.8	1458.9
37.5°	3253.7	3099.7	3008.8	2905.3	2721.1	2569.6	2420.6	2274.2	2069.8	1928.4	1739.1
40°	3990.7	3899.8	3751.0	3584.3	3417.7	3218.3	3016.4	2822.1	2584.8	2387.8	2168.3
42.5°	4856.4	4722.8	4571.3	4331.4	4162.4	3927.5	3697.9	3440.4	3150.1	2897.8	2640.3
45°	5669.3	5510.3	5394.1	5154.4	4977.7	4699.9	4422.3	4149.8	3814.0	3488.4	3190.6
47.5°	6547.7	6416.4	6224.6	6030.3	5851.1	5538.1	5237.6	4907.0	4553.5	4167.4	3781.2
50°	7320.1	7216.7	7085.3	6850.6	6651.2	6388.6	6035.3	5674.3	5227.5	4843.9	4404.7
52.5°	7976.3	7895.5	7711.3	7544.7	7365.5	7118.1	6802.6	6456.8	5974.8	5553.1	5053.4
55°	8751.3	8693.2	8531.7	8428.2	8269.2	8032.0	7736.6	7416.1	6906.1	6446.7	5881.3
57.5°	10021.0	9975.6	9834.1	9791.2	9634.7	9427.8	9064.3	8721.0	8125.3	7554.8	6908.7
60°	12123.5	12032.8	11825.7	11719.8	11389.0	11111.4	10639.4	10167.3	9448.0	8721.0	7943.5
62.5°	14375.1	14120.2	13726.4	13388.2	12918.7	12436.5	11805.5	11083.7	10240.6	9377.3	8483.7
65°	15589.2	15155.1	14657.9	14120.2	13511.9	12802.6	12007.5	11141.7	10235.5	9324.3	8380.2
66°	15728.1	15238.4	14710.9	14112.7	13436.2	12681.5	11873.7	10965.0	10023.4	9135.0	8190.9
67.5°	15554.0	15041.5	14483.8	13819.9	13087.8	12305.3	11457.2	10513.1	9606.9	8705.8	7787.0
70°	14334.8	13824.8	13327.5	12628.4	11848.4	11061.0	10258.2	9203.2	8345.0	7516.9	6699.2
72.5°	11447.1	11101.3	10609.1	10010.8	9251.0	8327.2	7658.3	6714.4	5969.7	5167.0	4533.5
75°	7153.5	6666.4	6058.0	5295.7	4715.1	3965.4	3574.2	2857.3	2433.3	2062.3	1703.9
77.5°	3657.5	3291.6	2865.0	2435.8	2024.4	1615.4	1249.4	883.5	595.7	414.0	307.9
80°	3021.5	2698.4	2344.9	1953.7	1590.3	1234.4	888.6	605.8	386.3	252.5	196.8
82.5°	2496.3	2223.8	1908.2	1544.8	1229.3	969.4	674.0	439.2	272.5	176.7	138.9
85°	1062.7	964.3	744.6	590.6	444.2	328.2	229.8	154.0	108.5	88.3	80.8
87.5°	45.4	50.4	48.0	37.9	27.7	27.7	25.3	20.2	20.2	20.2	20.2
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	414.0	411.4	409.0	409.0	406.4	403.9	388.7	376.2	361.0	350.9	340.7
5°	431.6	429.0	424.1	421.5	416.5	414.0	381.2	353.3	330.6	313.0	300.4
7.5°	449.3	446.8	439.2	431.6	429.0	424.1	371.1	335.7	305.5	285.3	272.5
10°	472.0	464.4	456.9	446.8	439.2	431.6	361.0	315.5	282.7	265.0	252.5
12.5°	504.8	492.2	479.6	466.9	456.9	444.2	355.9	297.8	265.0	244.8	232.2
15°	542.8	525.0	509.8	494.8	477.0	464.4	345.8	282.7	249.8	229.8	214.6
17.5°	578.0	557.8	535.1	512.4	494.8	477.0	335.7	267.6	234.7	214.6	199.4
20°	628.5	598.3	570.5	542.8	517.5	494.8	320.5	252.5	222.1	199.4	184.2
22.5°	684.1	648.7	613.4	575.6	542.8	512.4	307.9	239.7	209.5	186.9	169.1
25°	754.8	711.8	663.9	615.9	578.0	537.7	295.4	227.2	196.8	174.1	156.5
27.5°	853.2	792.6	739.6	679.0	620.9	575.6	285.3	217.0	184.2	161.6	143.9
30°	987.0	898.5	815.3	749.7	681.5	615.9	275.1	204.5	174.1	149.0	128.8
32.5°	1135.8	1032.4	936.4	838.0	752.2	676.4	265.0	194.4	161.6	136.3	118.6
35°	1320.2	1188.9	1060.1	946.5	843.1	742.0	254.9	184.2	151.4	123.7	106.1
37.5°	1585.2	1421.1	1252.0	1105.6	971.8	838.0	247.4	174.1	138.9	111.1	93.3
40°	1948.7	1736.7	1529.6	1330.2	1156.1	989.4	237.3	164.0	128.8	101.0	83.2
42.5°	2342.5	2084.9	1812.4	1587.7	1348.0	1138.4	227.2	154.0	118.6	90.9	73.3
45°	2832.2	2511.5	2180.9	1875.4	1582.6	1312.6	217.0	143.9	106.1	80.8	63.2
47.5°	3367.3	2958.3	2584.8	2201.1	1852.7	1529.6	204.5	136.3	96.0	70.7	55.5
50°	3917.6	3485.9	3013.8	2577.1	2163.3	1746.8	191.9	123.7	85.8	63.2	45.4
52.5°	4510.6	4000.8	3518.7	2976.0	2493.9	2031.9	179.2	113.6	78.2	55.5	37.9
55°	5265.4	4695.0	4129.6	3521.2	2940.7	2362.7	166.6	101.0	68.2	48.0	30.3
57.5°	6214.5	5538.1	4843.9	4157.3	3453.1	2796.8	156.5	88.3	58.1	40.3	25.3
60°	7110.6	6320.6	5480.0	4690.0	3894.7	3130.0	141.3	78.2	50.4	32.8	25.3
62.5°	7575.0	6673.9	5767.7	4896.9	4048.8	3248.7	126.2	65.6	42.9	27.7	22.7
65°	7461.5	6542.7	5664.2	4785.8	3955.4	3172.9	111.1	58.1	37.9	25.3	22.7
66°	7297.4	6388.6	5505.3	4669.7	3877.1	3092.2	103.5	55.5	35.4	25.3	20.2
67.5°	6938.9	6060.5	5217.4	4440.0	3662.5	2938.1	93.3	50.4	32.8	22.7	20.2
70°	5926.8	5129.1	4455.1	3763.5	3130.0	2476.3	75.7	42.9	27.7	20.2	20.2
72.5°	3922.5	3379.9	2930.6	2521.6	2107.6	1635.7	63.2	35.4	22.7	20.2	17.6
75°	1479.2	1337.8	1148.5	1032.4	901.1	790.0	50.4	22.7	17.6	17.6	17.6
77.5°	262.6	242.3	214.6	196.8	181.8	166.6	40.3	15.2	15.2	17.6	17.6
80°	176.7	164.0	149.0	136.3	126.2	113.6	27.7	12.6	15.2	15.2	17.6
82.5°	126.2	118.6	111.1	101.0	93.3	83.2	17.6	12.6	15.2	15.2	15.2
85°	75.7	70.7	65.6	60.5	53.0	50.4	12.6	12.6	12.6	15.2	15.2
87.5°	20.2	17.6	20.2	20.2	15.2	17.6	10.1	10.1	10.1	12.6	12.6
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°	396.2	396.2	396.2	396.2	396.2
2.5°	335.7	335.7	330.6	338.3	338.3
5°	290.3	290.3	287.7	290.3	290.3
7.5°	265.0	262.6	262.6	262.6	265.0
10°	242.3	239.7	239.7	239.7	239.7
12.5°	222.1	219.7	217.0	219.7	219.7
15°	204.5	199.4	199.4	199.4	199.4
17.5°	189.3	184.2	181.8	181.8	181.8
20°	174.1	166.6	166.6	166.6	166.6
22.5°	159.0	151.4	151.4	151.4	151.4
25°	143.9	136.3	136.3	136.3	136.3
27.5°	131.2	123.7	123.7	123.7	123.7
30°	116.2	111.1	111.1	113.6	111.1
32.5°	106.1	98.4	98.4	101.0	101.0
35°	93.3	88.3	88.3	88.3	88.3
37.5°	80.8	75.7	75.7	75.7	75.7
40°	70.7	65.6	63.2	65.6	65.6
42.5°	60.5	55.5	53.0	53.0	53.0
45°	53.0	45.4	42.9	45.4	45.4
47.5°	42.9	37.9	37.9	40.3	40.3
50°	32.8	32.8	35.4	40.3	40.3
52.5°	30.3	30.3	35.4	40.3	40.3
55°	27.7	30.3	35.4	37.9	40.3
57.5°	25.3	30.3	35.4	37.9	37.9
60°	25.3	27.7	32.8	37.9	37.9
62.5°	22.7	25.3	30.3	35.4	35.4
65°	22.7	25.3	30.3	35.4	35.4
66°	22.7	25.3	30.3	35.4	35.4
67.5°	22.7	25.3	30.3	35.4	35.4
70°	22.7	25.3	30.3	32.8	32.8
72.5°	20.2	22.7	27.7	32.8	32.8
75°	20.2	22.7	27.7	32.8	32.8
77.5°	20.2	22.7	27.7	32.8	32.8
80°	20.2	22.7	27.7	30.3	32.8
82.5°	17.6	22.7	25.3	30.3	30.3
85°	17.6	20.2	25.3	27.7	30.3
87.5°	15.2	17.6	20.2	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)