

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: P165297

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165297
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13704.8 lumens
Efficiency: N/A
Efficacy: 70.5 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



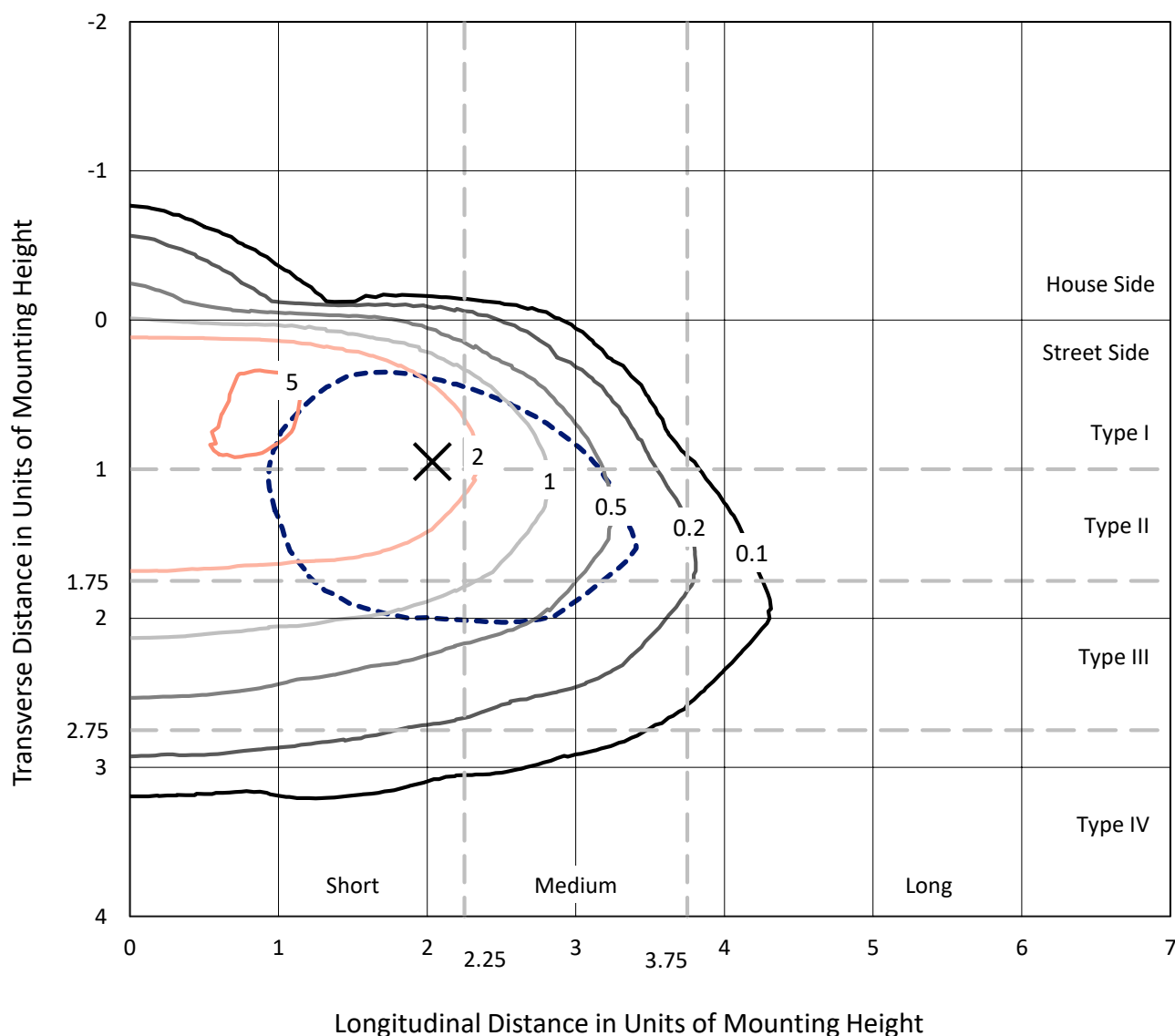
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

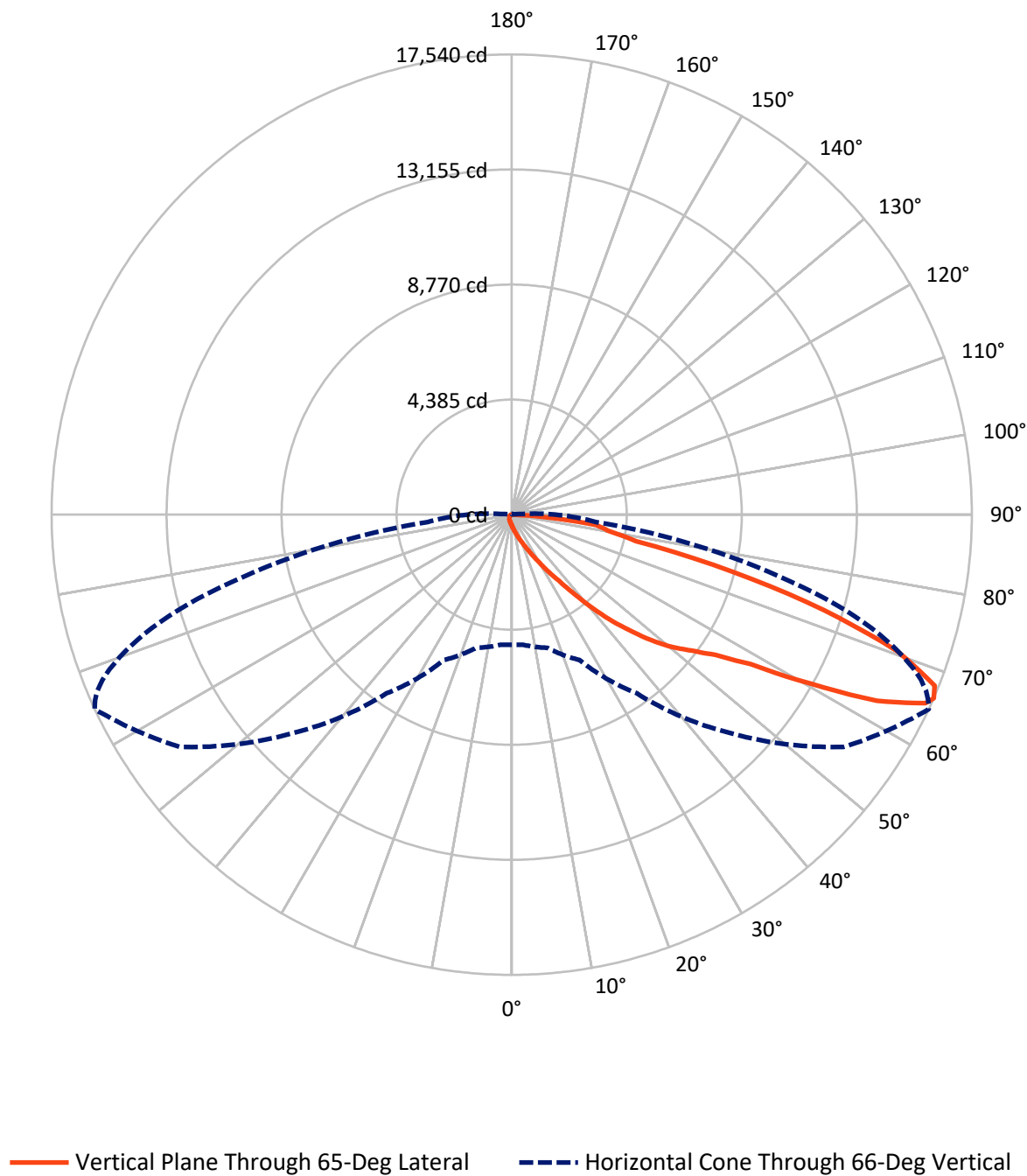


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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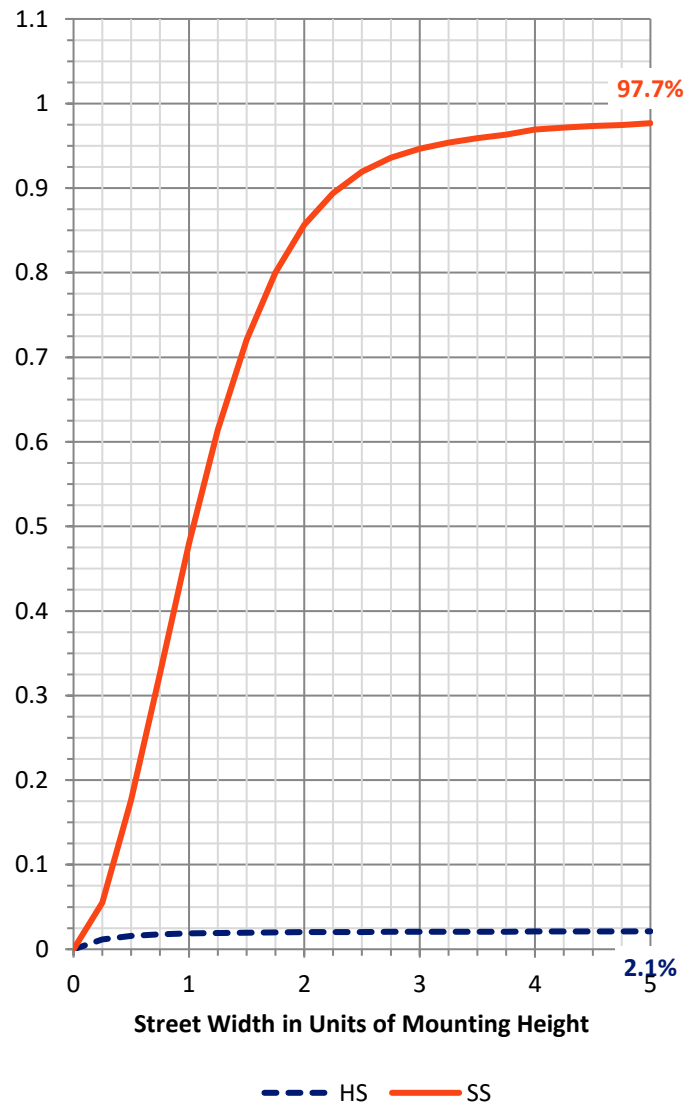
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	297.0	0.0	297.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	13407.8	0.0	13407.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	13704.8	0.0	13704.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	0.3
10°-20°	196.4	1.4
20°-30°	423.5	3.1
30°-40°	904.4	6.6
40°-50°	2000.1	14.6
50°-60°	3389.5	24.7
60°-70°	4523.0	33.0
70°-80°	1992.3	14.5
80°-90°	229.5	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°	13704.8	100.0
0°-180°	13704.8	100.0

Coefficient of Utilization



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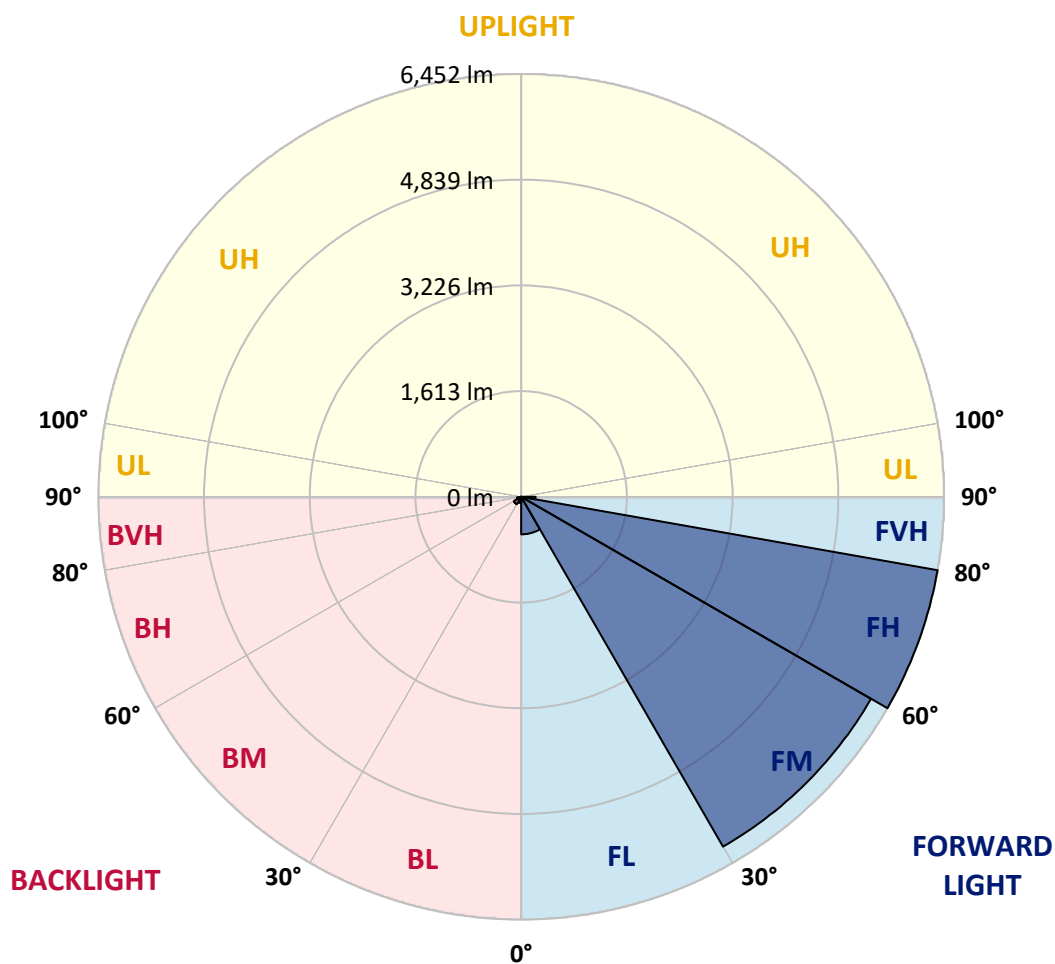
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.5	4.2			
FM	(30°-60°)	6163.5	45.0			
FH	(60°-80°)	6451.5	47.1			G3/7500
FVH	(80°-90°)	220.3	1.6			G2/225
BL	(0°-30°)	93.7	0.7	B0/110		
BM	(30°-60°)	130.4	1.0	B0/220		
BH	(60°-80°)	63.7	0.5	B0/110		G0/110
BVH	(80°-90°)	9.1	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°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6
2.5°	521.8	519.0	508.5	508.5	492.6	482.2	469.0	455.8	455.8	453.1	450.6
5°	690.2	674.6	671.8	642.9	619.2	585.0	553.3	511.2	505.9	500.6	497.9
7.5°	877.4	874.7	851.0	816.8	769.4	706.1	642.9	574.4	563.8	558.6	548.0
10°	1119.8	1106.6	1075.0	1017.0	945.9	861.6	758.9	650.7	637.6	627.0	621.8
12.5°	1351.7	1328.0	1309.4	1235.7	1146.1	1022.2	898.4	743.0	732.5	719.4	698.2
15°	1567.7	1546.6	1515.0	1451.8	1351.7	1196.2	1051.4	861.6	835.2	816.8	801.0
17.5°	1736.3	1723.2	1686.2	1615.2	1507.0	1370.1	1196.2	982.7	961.8	937.9	909.0
20°	1897.1	1878.6	1820.6	1723.2	1607.2	1501.8	1367.5	1140.8	1111.8	1082.9	1051.4
22.5°	2049.9	2031.4	1936.6	1775.8	1652.0	1607.2	1559.8	1320.0	1275.2	1251.5	1219.8
25°	2263.4	2223.8	2076.2	1820.6	1654.7	1689.0	1770.6	1551.8	1509.8	1475.5	1425.4
27.5°	2550.6	2497.8	2265.9	1886.6	1665.1	1778.6	2013.0	1833.8	1789.0	1749.4	1694.2
30°	2874.6	2840.3	2563.7	2044.6	1741.6	1910.2	2284.3	2192.2	2139.5	2092.0	2026.2
32.5°	3201.3	3153.9	2879.8	2345.0	1947.0	2165.8	2624.3	2608.5	2540.0	2495.2	2424.0
35°	3488.5	3464.8	3261.9	2837.6	2416.2	2613.8	3077.4	3095.8	3035.4	2987.8	2908.8
37.5°	3683.5	3683.5	3644.0	3367.2	3161.8	3309.3	3744.0	3746.7	3686.1	3578.1	3538.6
40°	3783.5	3812.5	3954.9	4007.5	3997.0	4186.7	4618.9	4571.4	4521.3	4465.9	4334.2
42.5°	3989.1	4015.4	4318.4	4682.1	4919.2	5169.4	5467.2	5451.4	5390.9	5290.7	5169.4
45°	4337.0	4371.2	4732.2	5309.1	5796.5	6152.3	6341.9	6268.2	6207.5	6112.8	6049.4
47.5°	4779.5	4845.4	5253.8	5967.8	6555.4	7142.9	7340.5	7145.6	7093.0	7019.0	6916.3
50°	5251.2	5314.4	5749.1	6565.9	7229.9	7930.7	8260.2	7930.7	7854.4	7830.6	7714.7
52.5°	5659.5	5712.3	6131.2	7027.0	7746.2	8568.3	9047.8	8613.1	8557.8	8478.7	8394.4
55°	5901.9	5944.2	6336.6	7248.3	8096.8	9142.7	9809.4	9427.4	9345.6	9314.1	9192.8
57.5°	5983.7	6025.8	6378.9	7277.3	8286.4	9667.0	10734.2	10747.4	10649.9	10536.6	10499.7
60°	5983.7	6031.0	6328.8	7206.2	8470.9	10225.6	11967.2	13065.9	12855.2	12834.1	12699.7
62.5°	5736.0	5780.8	6081.1	6987.5	8718.6	10979.2	13685.1	15624.3	15563.8	15426.7	15205.4
65°	5198.4	5224.8	5519.8	6429.0	8623.7	11672.2	15173.8	17326.4	17229.0	16960.2	16675.7
66°	4956.0	4977.1	5253.8	6110.1	8312.8	11767.0	15437.3	17539.8	17379.2	17152.5	16831.0
67.5°	4605.6	4642.6	4837.4	5517.3	7567.2	11437.6	15271.4	17389.8	17250.1	16976.0	16654.6
70°	3074.9	3048.5	3736.2	4234.1	5765.0	9319.4	13701.0	15613.8	15616.5	15487.4	15358.2
72.5°	1459.7	1475.5	1675.7	2605.8	3773.0	6226.1	10905.4	12462.6	12641.8	12409.9	12249.1
75°	1048.6	1072.3	1193.6	1594.1	2250.1	3736.2	7069.1	8715.8	8721.1	8310.1	7944.0
77.5°	305.6	318.9	447.8	982.7	1686.2	2521.4	4060.2	4845.4	4732.2	4437.0	4160.3
80°	126.4	126.4	131.7	313.6	677.1	1712.6	2840.3	3730.9	3717.8	3604.5	3441.1
82.5°	47.4	50.1	63.2	129.1	160.8	421.6	1894.4	3238.2	3230.2	3069.6	2953.6
85°	5.3	5.3	15.8	55.4	60.6	79.0	379.4	1428.0	1420.2	1428.0	1251.5
87.5°	0.0	0.0	2.6	5.3	7.8	10.6	15.8	55.4	60.6	57.9	52.6
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6
2.5°	450.6	445.3	445.3	442.7	442.7	442.7	440.0	437.4	437.4	434.7	432.2
5°	492.6	487.4	484.8	479.5	477.0	474.2	469.0	466.4	461.1	458.4	455.8
7.5°	542.7	532.2	529.6	521.8	513.8	508.5	503.2	495.4	490.1	479.5	477.0
10°	606.1	592.8	582.2	571.7	563.8	550.7	542.7	532.2	521.8	513.8	505.9
12.5°	687.7	669.3	653.4	642.9	624.5	608.6	592.8	585.0	563.8	553.3	540.2
15°	777.3	756.2	737.8	716.6	703.5	677.1	656.0	632.3	621.8	603.4	582.2
17.5°	893.1	858.9	829.9	809.0	782.6	756.2	732.5	708.8	677.1	656.0	629.8
20°	1017.0	988.0	948.5	911.7	880.0	848.5	814.1	782.6	753.6	719.4	687.7
22.5°	1175.2	1133.0	1085.6	1048.6	1006.6	972.3	924.8	882.7	835.2	790.4	753.6
25°	1375.4	1320.0	1275.2	1222.6	1172.5	1119.8	1061.8	1009.1	948.5	906.4	843.2
27.5°	1623.0	1570.4	1509.8	1441.3	1391.2	1312.2	1235.7	1169.9	1098.7	1032.8	961.8
30°	1939.2	1862.9	1799.5	1733.8	1633.6	1557.1	1467.5	1378.1	1280.5	1214.7	1106.6
32.5°	2318.6	2237.0	2142.1	2047.2	1955.0	1847.0	1736.3	1625.6	1517.6	1396.5	1285.8
35°	2782.4	2684.8	2576.8	2474.1	2331.8	2215.8	2076.2	1923.4	1802.2	1662.6	1522.9
37.5°	3396.3	3235.5	3140.6	3032.6	2840.3	2682.2	2526.7	2373.9	2160.5	2013.0	1815.4
40°	4165.6	4070.7	3915.4	3741.4	3567.5	3359.4	3148.6	2945.8	2698.1	2492.5	2263.4
42.5°	5069.3	4929.8	4771.7	4521.3	4344.8	4099.7	3860.0	3591.2	3288.2	3024.8	2756.0
45°	5917.8	5751.8	5630.6	5380.3	5195.8	4905.9	4616.2	4331.7	3981.1	3641.3	3330.4
47.5°	6834.7	6697.6	6497.4	6294.6	6107.5	5780.8	5467.2	5122.1	4753.1	4350.1	3946.9
50°	7641.0	7533.0	7395.8	7150.9	6942.7	6668.6	6299.8	5923.0	5456.6	5056.2	4597.8
52.5°	8325.9	8241.6	8049.3	7875.4	7688.3	7430.1	7100.8	6739.8	6236.6	5796.5	5274.9
55°	9134.9	9074.2	8905.6	8797.6	8631.7	8384.0	8075.7	7741.1	7208.8	6729.3	6139.0
57.5°	10460.2	10412.8	10265.1	10220.3	10057.0	9841.0	9461.6	9103.2	8481.4	7885.9	7211.5
60°	12654.9	12560.2	12344.0	12233.4	11888.2	11598.4	11105.8	10613.0	9862.1	9103.2	8291.7
62.5°	15005.1	14739.0	14328.0	13975.0	13485.0	12981.6	12322.9	11569.4	10689.4	9788.3	8855.5
65°	16272.5	15819.4	15300.3	14739.0	14104.2	13363.7	12533.8	11630.1	10684.2	9733.0	8747.5
66°	16417.4	15906.2	15355.7	14731.2	14025.1	13237.3	12394.1	11445.6	10462.7	9535.4	8549.9
67.5°	16235.7	15700.8	15118.6	14425.6	13661.4	12844.6	11959.4	10973.9	10028.0	9087.4	8128.3
70°	14963.0	14430.7	13911.7	13181.9	12367.7	11545.8	10707.8	9606.6	8710.7	7846.4	6992.8
72.5°	11948.8	11587.8	11074.1	10449.6	9656.5	8692.2	7993.9	7008.6	6231.4	5393.4	4732.2
75°	7467.0	6958.6	6323.5	5527.8	4921.8	4139.2	3730.9	2982.6	2540.0	2152.6	1778.6
77.5°	3817.8	3435.8	2990.6	2542.6	2113.1	1686.2	1304.2	922.2	621.8	432.2	321.4
80°	3153.9	2816.6	2447.7	2039.4	1660.0	1288.5	927.5	632.3	403.2	263.5	205.4
82.5°	2605.8	2321.3	1991.8	1612.5	1283.2	1011.8	703.5	458.4	284.5	184.5	145.0
85°	1109.3	1006.6	777.3	616.5	463.7	342.6	239.8	160.8	113.3	92.2	84.3
87.5°	47.4	52.6	50.1	39.5	29.0	29.0	26.4	21.1	21.1	21.1	21.1
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6
2.5°	432.2	429.4	426.9	426.9	424.2	421.6	405.8	392.6	376.8	366.2	355.7
5°	450.6	447.8	442.7	440.0	434.7	432.2	397.9	368.8	345.1	326.7	313.6
7.5°	469.0	466.4	458.4	450.6	447.8	442.7	387.4	350.4	318.9	297.8	284.5
10°	492.6	484.8	477.0	466.4	458.4	450.6	376.8	329.3	295.0	276.6	263.5
12.5°	526.9	513.8	500.6	487.4	477.0	463.7	371.5	310.9	276.6	255.5	242.4
15°	566.6	548.0	532.2	516.5	497.9	484.8	361.0	295.0	260.8	239.8	224.0
17.5°	603.4	582.2	558.6	534.9	516.5	497.9	350.4	279.4	245.0	224.0	208.2
20°	656.0	624.5	595.5	566.6	540.2	516.5	334.6	263.5	231.8	208.2	192.3
22.5°	714.1	677.1	640.3	600.8	566.6	534.9	321.4	250.2	218.7	195.0	176.5
25°	787.8	743.0	693.0	642.9	603.4	561.3	308.3	237.1	205.4	181.8	163.4
27.5°	890.6	827.4	772.0	708.8	648.2	600.8	297.8	226.6	192.3	168.6	150.2
30°	1030.2	937.9	851.0	782.6	711.4	642.9	287.2	213.4	181.8	155.5	134.4
32.5°	1185.6	1077.6	977.4	874.7	785.1	706.1	276.6	202.9	168.6	142.2	123.8
35°	1378.1	1241.0	1106.6	988.0	880.0	774.6	266.1	192.3	158.1	129.1	110.7
37.5°	1654.7	1483.4	1306.9	1154.1	1014.4	874.7	258.2	181.8	145.0	116.0	97.4
40°	2034.1	1812.8	1596.6	1388.5	1206.7	1032.8	247.7	171.2	134.4	105.4	86.9
42.5°	2445.1	2176.3	1891.8	1657.3	1407.0	1188.3	237.1	160.8	123.8	94.9	76.5
45°	2956.3	2621.6	2276.5	1957.6	1652.0	1370.1	226.6	150.2	110.7	84.3	65.9
47.5°	3514.9	3088.0	2698.1	2297.6	1933.9	1596.6	213.4	142.2	100.2	73.8	57.9
50°	4089.3	3638.7	3145.9	2690.1	2258.1	1823.4	200.3	129.1	89.6	65.9	47.4
52.5°	4708.3	4176.2	3673.0	3106.4	2603.2	2121.0	187.0	118.6	81.6	57.9	39.5
55°	5496.2	4900.8	4310.6	3675.5	3069.6	2466.2	173.9	105.4	71.2	50.1	31.7
57.5°	6486.9	5780.8	5056.2	4339.5	3604.5	2919.4	163.4	92.2	60.6	42.1	26.4
60°	7422.2	6597.6	5720.2	4895.5	4065.4	3267.2	147.5	81.6	52.6	34.2	26.4
62.5°	7907.0	6966.4	6020.5	5111.5	4226.2	3391.0	131.7	68.5	44.8	29.0	23.7
65°	7788.5	6829.4	5912.5	4995.5	4128.8	3312.0	116.0	60.6	39.5	26.4	23.7
66°	7617.3	6668.6	5746.6	4874.4	4047.0	3227.7	108.0	57.9	37.0	26.4	21.1
67.5°	7243.0	6326.1	5446.1	4634.6	3823.0	3066.9	97.4	52.6	34.2	23.7	21.1
70°	6186.6	5353.9	4650.4	3928.5	3267.2	2584.8	79.0	44.8	29.0	21.1	21.1
72.5°	4094.4	3528.0	3059.0	2632.2	2200.0	1707.4	65.9	37.0	23.7	21.1	18.4
75°	1544.0	1396.5	1198.9	1077.6	940.6	824.6	52.6	23.7	18.4	18.4	18.4
77.5°	274.1	253.0	224.0	205.4	189.8	173.9	42.1	15.8	15.8	18.4	18.4
80°	184.5	171.2	155.5	142.2	131.7	118.6	29.0	13.1	15.8	15.8	18.4
82.5°	131.7	123.8	116.0	105.4	97.4	86.9	18.4	13.1	15.8	15.8	15.8
85°	79.0	73.8	68.5	63.2	55.4	52.6	13.1	13.1	13.1	15.8	15.8
87.5°	21.1	18.4	21.1	21.1	15.8	18.4	10.6	10.6	10.6	13.1	13.1
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):

	145°	155°	165°	175°	180°
0°	413.6	413.6	413.6	413.6	413.6
2.5°	350.4	350.4	345.1	353.1	353.1
5°	303.0	303.0	300.3	303.0	303.0
7.5°	276.6	274.1	274.1	274.1	276.6
10°	253.0	250.2	250.2	250.2	250.2
12.5°	231.8	229.3	226.6	229.3	229.3
15°	213.4	208.2	208.2	208.2	208.2
17.5°	197.6	192.3	189.8	189.8	189.8
20°	181.8	173.9	173.9	173.9	173.9
22.5°	165.9	158.1	158.1	158.1	158.1
25°	150.2	142.2	142.2	142.2	142.2
27.5°	137.0	129.1	129.1	129.1	129.1
30°	121.3	116.0	116.0	118.6	116.0
32.5°	110.7	102.7	102.7	105.4	105.4
35°	97.4	92.2	92.2	92.2	92.2
37.5°	84.3	79.0	79.0	79.0	79.0
40°	73.8	68.5	65.9	68.5	68.5
42.5°	63.2	57.9	55.4	55.4	55.4
45°	55.4	47.4	44.8	47.4	47.4
47.5°	44.8	39.5	39.5	42.1	42.1
50°	34.2	34.2	37.0	42.1	42.1
52.5°	31.7	31.7	37.0	42.1	42.1
55°	29.0	31.7	37.0	39.5	42.1
57.5°	26.4	31.7	37.0	39.5	39.5
60°	26.4	29.0	34.2	39.5	39.5
62.5°	23.7	26.4	31.7	37.0	37.0
65°	23.7	26.4	31.7	37.0	37.0
66°	23.7	26.4	31.7	37.0	37.0
67.5°	23.7	26.4	31.7	37.0	37.0
70°	23.7	26.4	31.7	34.2	34.2
72.5°	21.1	23.7	29.0	34.2	34.2
75°	21.1	23.7	29.0	34.2	34.2
77.5°	21.1	23.7	29.0	34.2	34.2
80°	21.1	23.7	29.0	31.7	34.2
82.5°	18.4	23.7	26.4	31.7	31.7
85°	18.4	21.1	26.4	29.0	31.7
87.5°	15.8	18.4	21.1	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)