

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: P165293

Luminaire Tested: **VST-F07-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165293
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-F07-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (49) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10157.9 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 180.5
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



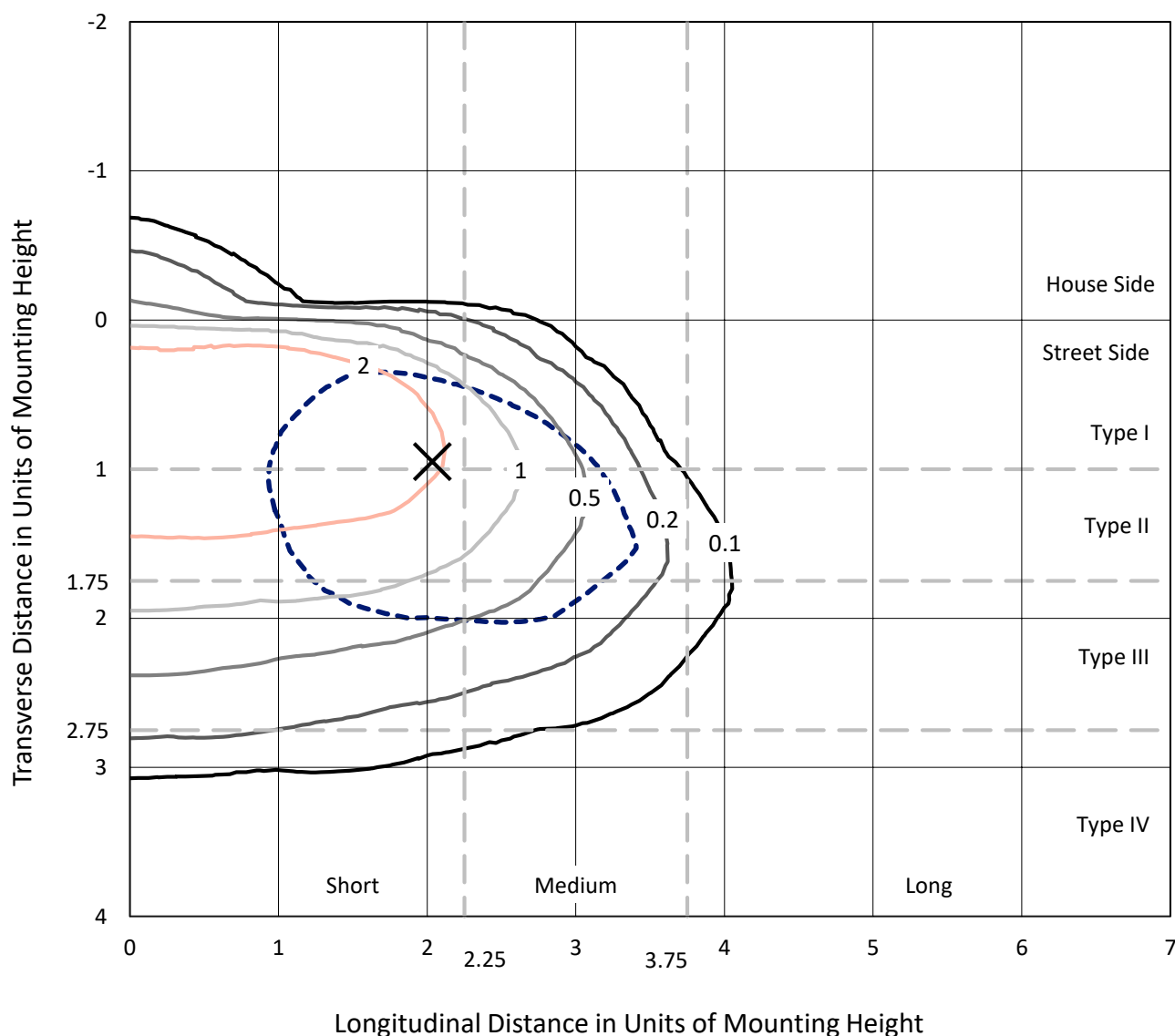
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

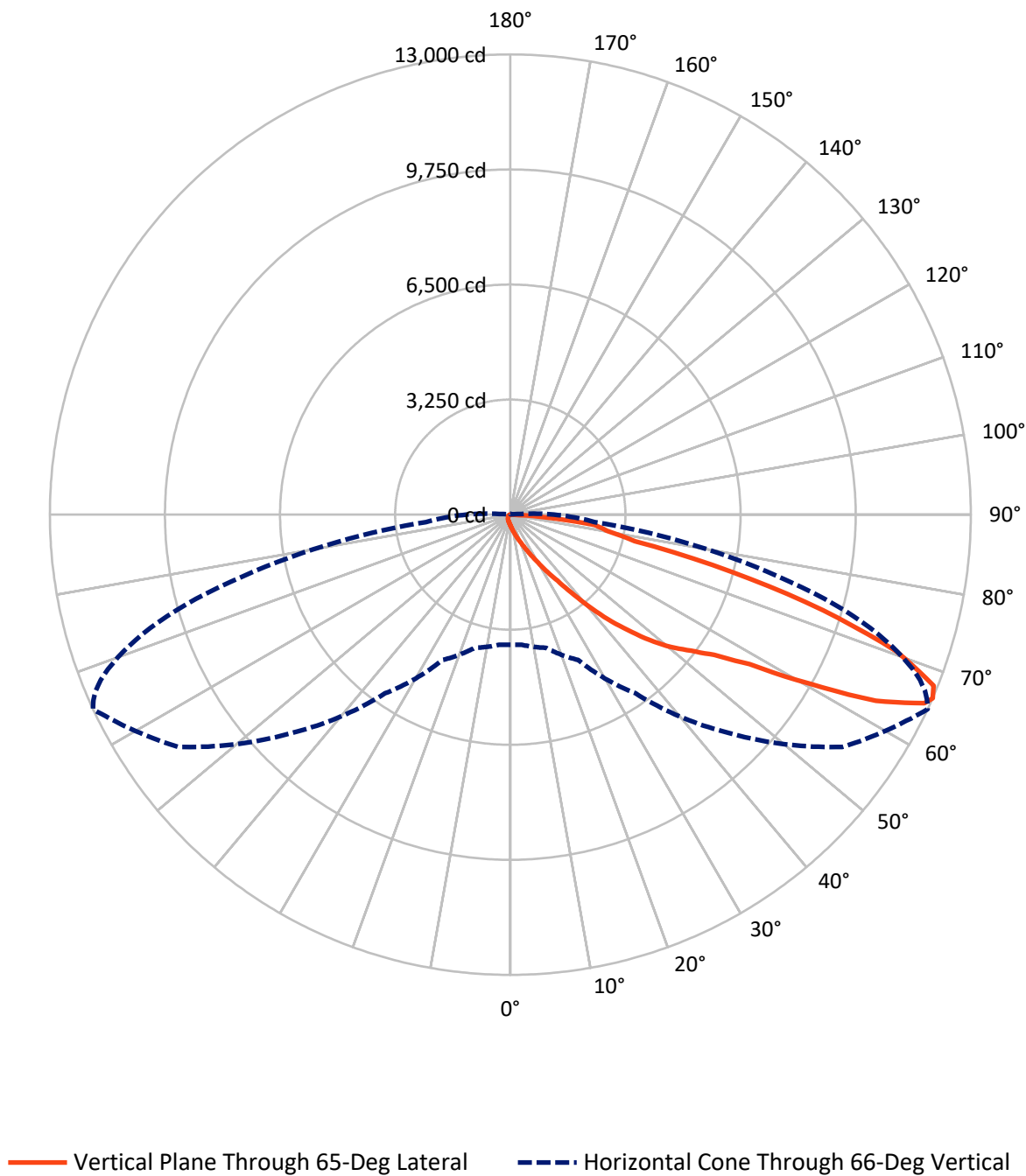


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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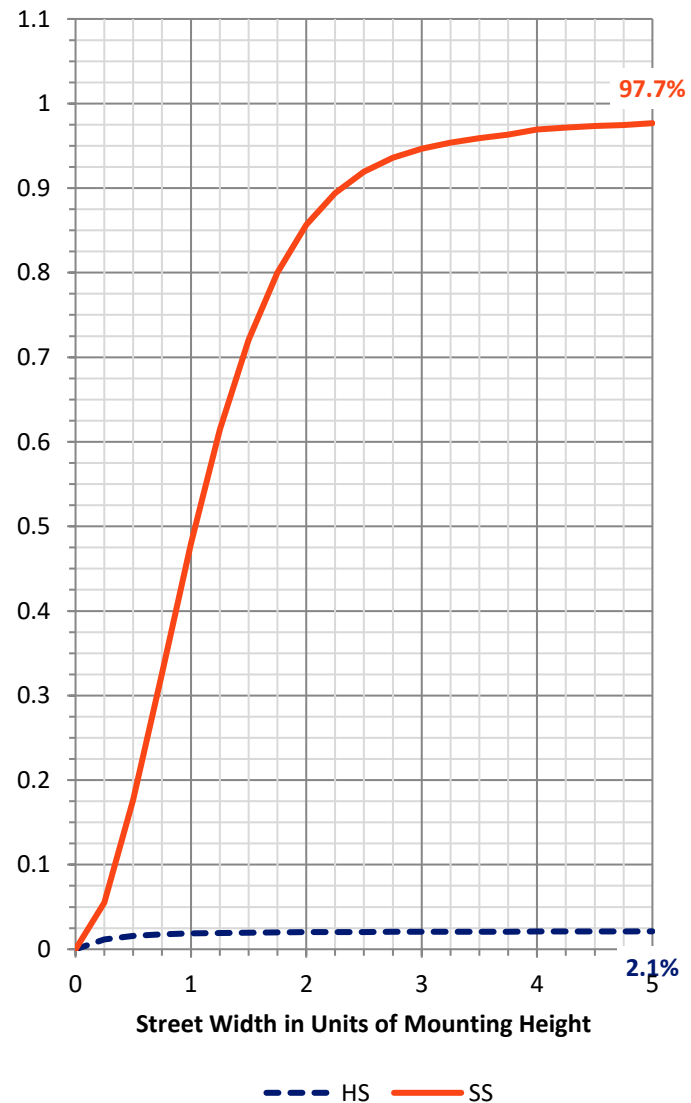
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.1	0.0	220.1
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	9937.8	0.0	9937.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	10157.9	0.0	10157.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	0.3
10°-20°	145.5	1.4
20°-30°	313.9	3.1
30°-40°	670.3	6.6
40°-50°	1482.4	14.6
50°-60°	2512.2	24.7
60°-70°	3352.4	33.0
70°-80°	1476.7	14.5
80°-90°	170.1	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°	10157.9	100.0
0°-180°	10157.9	100.0

Coefficient of Utilization



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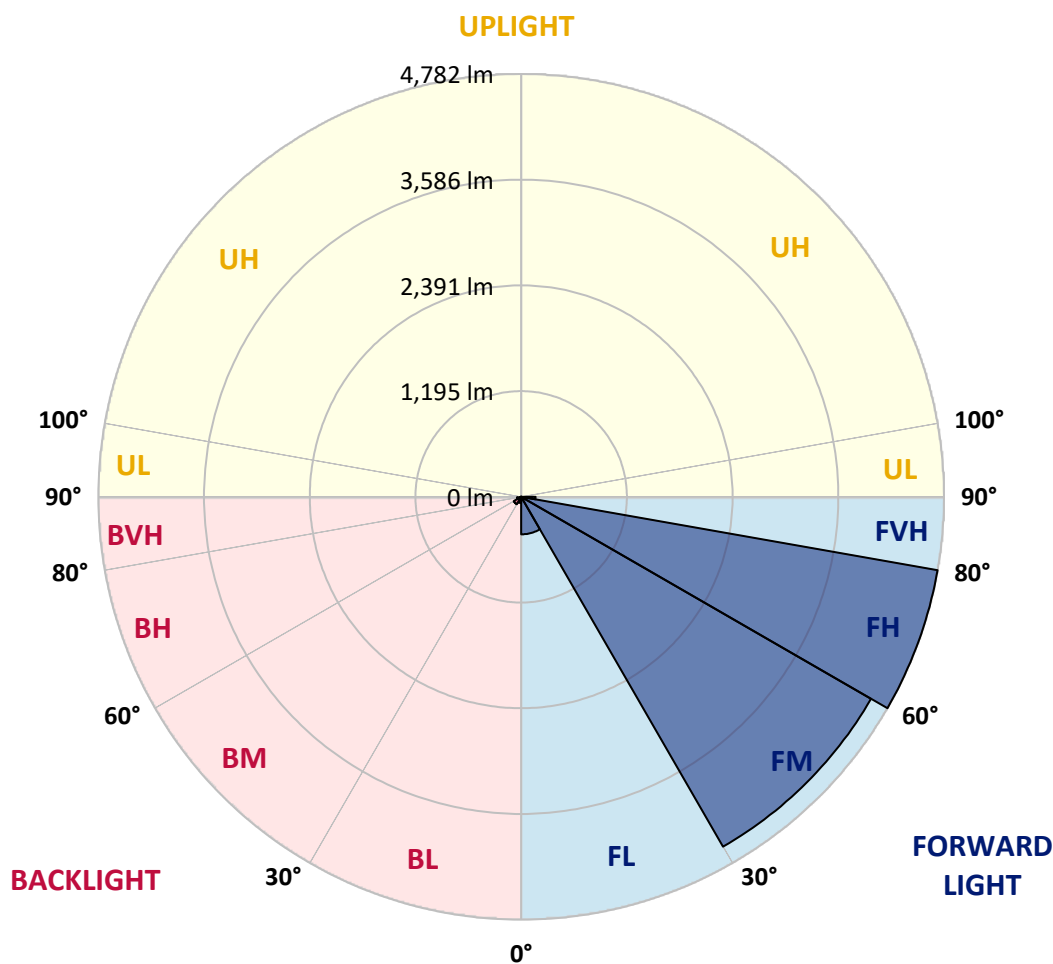
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.3	4.2			
FM	(30°-60°)	4568.3	45.0			
FH	(60°-80°)	4781.8	47.1			G2/5000
FVH	(80°-90°)	163.3	1.6			G2/225
BL	(0°-30°)	69.5	0.7	B0/110		
BM	(30°-60°)	96.7	1.0	B0/220		
BH	(60°-80°)	47.2	0.5	B0/110		G0/110
BVH	(80°-90°)	6.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6
2.5°	386.7	384.7	376.9	376.9	365.1	357.4	347.6	337.9	337.9	335.8	334.0
5°	511.6	500.0	498.0	476.5	458.9	433.6	410.1	378.9	375.0	371.1	369.1
7.5°	650.4	648.3	630.8	605.4	570.3	523.3	476.5	425.7	417.9	414.0	406.2
10°	830.0	820.2	796.8	753.8	701.1	638.6	562.5	482.3	472.6	464.8	460.8
12.5°	1001.9	984.3	970.5	915.9	849.5	757.7	665.9	550.7	542.9	533.2	517.5
15°	1162.0	1146.3	1122.9	1076.1	1001.9	886.6	779.3	638.6	619.0	605.4	593.7
17.5°	1286.9	1277.2	1249.8	1197.2	1117.0	1015.5	886.6	728.4	712.8	695.2	673.7
20°	1406.1	1392.4	1349.4	1277.2	1191.2	1113.1	1013.6	845.6	824.1	802.6	779.3
22.5°	1519.4	1505.6	1435.4	1316.2	1224.4	1191.2	1156.1	978.4	945.2	927.6	904.1
25°	1677.6	1648.3	1538.8	1349.4	1226.5	1251.8	1312.3	1150.2	1119.0	1093.6	1056.5
27.5°	1890.5	1851.3	1679.5	1398.3	1234.2	1318.3	1492.0	1359.2	1326.0	1296.7	1255.8
30°	2130.6	2105.2	1900.2	1515.5	1290.9	1415.9	1693.1	1624.8	1585.8	1550.6	1501.8
32.5°	2372.8	2337.7	2134.5	1738.1	1443.1	1605.2	1945.1	1933.4	1882.6	1849.4	1796.6
35°	2585.6	2568.1	2417.7	2103.2	1790.8	1937.3	2281.0	2294.6	2249.8	2214.6	2156.0
37.5°	2730.2	2730.2	2700.9	2495.7	2343.5	2452.8	2775.0	2777.0	2732.1	2652.0	2622.7
40°	2804.3	2825.8	2931.3	2970.3	2962.5	3103.2	3423.5	3388.3	3351.1	3310.1	3212.5
42.5°	2956.7	2976.1	3200.8	3470.3	3646.1	3831.5	4052.2	4040.5	3995.7	3921.4	3831.5
45°	3214.5	3239.9	3507.4	3935.1	4296.3	4560.0	4700.6	4645.9	4601.0	4530.8	4483.8
47.5°	3542.5	3591.4	3894.0	4423.3	4858.8	5294.2	5440.7	5296.3	5257.2	5202.5	5126.3
50°	3892.1	3939.0	4261.2	4866.6	5358.8	5878.2	6122.4	5878.2	5821.6	5803.9	5718.1
52.5°	4194.8	4233.9	4544.4	5208.4	5741.4	6350.8	6706.2	6384.0	6342.9	6284.4	6221.9
55°	4374.5	4405.8	4696.7	5372.4	6001.3	6776.5	7270.7	6987.5	6926.9	6903.5	6813.6
57.5°	4435.1	4466.2	4728.0	5393.9	6141.8	7165.1	7956.1	7965.8	7893.6	7809.7	7782.3
60°	4435.1	4470.2	4690.9	5341.2	6278.5	7579.1	8870.0	9684.3	9528.2	9512.5	9412.9
62.5°	4251.5	4284.7	4507.3	5179.1	6462.1	8137.7	10143.3	11580.6	11535.8	11434.1	11270.1
65°	3853.0	3872.6	4091.3	4765.1	6391.8	8651.3	11246.7	12842.2	12770.0	12570.7	12359.9
66°	3673.3	3689.0	3894.0	4528.7	6161.4	8721.6	11442.0	13000.4	12881.3	12713.3	12475.0
67.5°	3413.6	3441.0	3585.5	4089.4	5608.7	8477.4	11319.0	12889.1	12785.6	12582.5	12344.2
70°	2279.1	2259.5	2769.2	3138.3	4272.9	6907.4	10155.0	11572.8	11574.8	11479.1	11383.4
72.5°	1081.9	1093.6	1242.0	1931.4	2796.5	4614.7	8083.0	9237.1	9370.0	9198.1	9078.9
75°	777.2	794.8	884.7	1181.5	1667.7	2769.2	5239.6	6460.1	6464.0	6159.4	5888.0
77.5°	226.5	236.4	331.9	728.4	1249.8	1868.9	3009.4	3591.4	3507.4	3288.6	3083.6
80°	93.7	93.7	97.6	232.4	501.9	1269.4	2105.2	2765.3	2755.6	2671.6	2550.5
82.5°	35.1	37.1	46.8	95.7	119.2	312.5	1404.1	2400.2	2394.2	2275.2	2189.2
85°	3.9	3.9	11.7	41.0	44.9	58.6	281.2	1058.4	1052.6	1058.4	927.6
87.5°	0.0	0.0	1.9	3.9	5.8	7.8	11.7	41.0	44.9	42.9	39.0
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6
2.5°	334.0	330.0	330.0	328.1	328.1	328.1	326.1	324.2	324.2	322.2	320.3
5°	365.1	361.2	359.3	355.4	353.5	351.5	347.6	345.7	341.8	339.8	337.9
7.5°	402.3	394.4	392.5	386.7	380.8	376.9	373.0	367.2	363.2	355.4	353.5
10°	449.2	439.4	431.6	423.7	417.9	408.2	402.3	394.4	386.7	380.8	375.0
12.5°	509.7	496.1	484.3	476.5	462.9	451.1	439.4	433.6	417.9	410.1	400.4
15°	576.1	560.5	546.8	531.2	521.4	501.9	486.2	468.7	460.8	447.2	431.6
17.5°	662.0	636.6	615.1	599.6	580.0	560.5	542.9	525.4	501.9	486.2	466.8
20°	753.8	732.3	703.0	675.7	652.2	628.9	603.4	580.0	558.6	533.2	509.7
22.5°	871.0	839.7	804.6	777.2	746.1	720.7	685.5	654.3	619.0	585.8	558.6
25°	1019.4	978.4	945.2	906.2	869.0	830.0	787.0	748.0	703.0	671.8	625.0
27.5°	1203.0	1164.0	1119.0	1068.3	1031.1	972.6	915.9	867.1	814.4	765.5	712.8
30°	1437.3	1380.8	1333.8	1285.0	1210.8	1154.1	1087.7	1021.4	949.1	900.3	820.2
32.5°	1718.5	1658.0	1587.7	1517.4	1449.1	1369.0	1286.9	1204.9	1124.8	1035.1	953.0
35°	2062.3	1990.0	1909.9	1833.8	1728.3	1642.4	1538.8	1425.6	1335.8	1232.3	1128.7
37.5°	2517.3	2398.1	2327.8	2247.8	2105.2	1988.1	1872.8	1759.5	1601.3	1492.0	1345.5
40°	3087.5	3017.2	2902.0	2773.1	2644.2	2489.9	2333.7	2183.4	1999.8	1847.4	1677.6
42.5°	3757.3	3653.9	3536.7	3351.1	3220.3	3038.6	2861.0	2661.8	2437.2	2242.0	2042.7
45°	4386.2	4263.2	4173.3	3987.8	3851.1	3636.2	3421.5	3210.6	2950.8	2698.9	2468.5
47.5°	5065.8	4964.2	4815.8	4665.5	4526.8	4284.7	4052.2	3796.4	3523.0	3224.2	2925.4
50°	5663.4	5583.4	5481.7	5300.2	5145.9	4942.7	4669.4	4390.1	4044.4	3747.6	3407.8
52.5°	6171.1	6108.6	5966.1	5837.1	5698.5	5507.1	5263.1	4995.5	4622.5	4296.3	3909.7
55°	6770.7	6725.7	6600.8	6520.7	6397.7	6214.1	5985.6	5737.6	5343.1	4987.7	4550.2
57.5°	7753.0	7717.9	7608.4	7575.2	7454.1	7294.0	7012.9	6747.2	6286.4	5845.0	5345.1
60°	9379.7	9309.5	9149.3	9067.3	8811.4	8596.6	8231.5	7866.2	7309.7	6747.2	6145.7
62.5°	11121.7	10924.4	10619.8	10358.2	9994.9	9621.8	9133.6	8575.2	7922.9	7255.0	6563.6
65°	12061.0	11725.2	11340.5	10924.4	10453.9	9905.0	9289.9	8620.1	7919.0	7214.0	6483.6
66°	12168.5	11789.6	11381.5	10918.6	10395.3	9811.4	9186.4	8483.4	7754.9	7067.5	6337.1
67.5°	12033.7	11637.3	11205.7	10692.1	10125.7	9520.3	8864.2	8133.8	7432.7	6735.5	6024.6
70°	11090.5	10695.9	10311.2	9770.3	9166.8	8557.6	7936.6	7120.3	6456.3	5815.7	5183.0
72.5°	8856.3	8588.8	8208.0	7745.2	7157.3	6442.6	5925.0	5194.7	4618.6	3997.6	3507.4
75°	5534.5	5157.6	4686.9	4097.2	3648.0	3067.9	2765.3	2210.6	1882.6	1595.5	1318.3
77.5°	2829.7	2546.6	2216.6	1884.5	1566.2	1249.8	966.6	683.6	460.8	320.3	238.2
80°	2337.7	2087.7	1814.2	1511.6	1230.4	955.0	687.5	468.7	298.8	195.3	152.3
82.5°	1931.4	1720.5	1476.3	1195.2	951.1	750.0	521.4	339.8	210.9	136.7	107.4
85°	822.2	746.1	576.1	456.9	343.7	253.9	177.8	119.2	84.0	68.3	62.5
87.5°	35.1	39.0	37.1	29.3	21.5	21.5	19.6	15.7	15.7	15.7	15.7
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°	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6	306.6
2.5°	320.3	318.3	316.4	316.4	314.4	312.5	300.7	291.0	279.3	271.5	263.6
5°	334.0	331.9	328.1	326.1	322.2	320.3	294.9	273.4	255.8	242.2	232.4
7.5°	347.6	345.7	339.8	334.0	331.9	328.1	287.1	259.7	236.4	220.7	210.9
10°	365.1	359.3	353.5	345.7	339.8	334.0	279.3	244.1	218.7	205.0	195.3
12.5°	390.5	380.8	371.1	361.2	353.5	343.7	275.4	230.4	205.0	189.4	179.7
15°	419.9	406.2	394.4	382.8	369.1	359.3	267.5	218.7	193.3	177.8	166.0
17.5°	447.2	431.6	414.0	396.4	382.8	369.1	259.7	207.1	181.6	166.0	154.3
20°	486.2	462.9	441.4	419.9	400.4	382.8	248.0	195.3	171.8	154.3	142.5
22.5°	529.3	501.9	474.6	445.3	419.9	396.4	238.2	185.5	162.1	144.6	130.8
25°	583.9	550.7	513.6	476.5	447.2	416.0	228.5	175.8	152.3	134.7	121.1
27.5°	660.1	613.2	572.2	525.4	480.4	445.3	220.7	167.9	142.5	125.0	111.4
30°	763.6	695.2	630.8	580.0	527.3	476.5	212.9	158.2	134.7	115.3	99.6
32.5°	878.8	798.7	724.5	648.3	581.9	523.3	205.0	150.4	125.0	105.4	91.8
35°	1021.4	919.8	820.2	732.3	652.2	574.1	197.2	142.5	117.2	95.7	82.1
37.5°	1226.5	1099.5	968.6	855.4	751.9	648.3	191.4	134.7	107.4	86.0	72.2
40°	1507.6	1343.6	1183.4	1029.1	894.4	765.5	183.6	126.9	99.6	78.2	64.4
42.5°	1812.3	1613.1	1402.2	1228.4	1042.9	880.8	175.8	119.2	91.8	70.3	56.7
45°	2191.2	1943.1	1687.3	1451.0	1224.4	1015.5	167.9	111.4	82.1	62.5	48.9
47.5°	2605.2	2288.8	1999.8	1703.0	1433.4	1183.4	158.2	105.4	74.2	54.7	42.9
50°	3030.9	2697.0	2331.7	1993.9	1673.7	1351.5	148.5	95.7	66.4	48.9	35.1
52.5°	3489.8	3095.3	2722.4	2302.4	1929.5	1572.0	138.6	87.9	60.5	42.9	29.3
55°	4073.7	3632.4	3194.9	2724.3	2275.2	1828.0	128.9	78.2	52.8	37.1	23.5
57.5°	4808.0	4284.7	3747.6	3216.4	2671.6	2163.8	121.1	68.3	44.9	31.2	19.6
60°	5501.3	4890.1	4239.7	3628.5	3013.3	2421.6	109.3	60.5	39.0	25.4	19.6
62.5°	5860.6	5163.4	4462.3	3788.6	3132.5	2513.4	97.6	50.8	33.2	21.5	17.6
65°	5772.8	5061.9	4382.3	3702.6	3060.2	2454.8	86.0	44.9	29.3	19.6	17.6
66°	5645.9	4942.7	4259.3	3612.9	2999.6	2392.3	80.0	42.9	27.4	19.6	15.7
67.5°	5368.5	4688.8	4036.6	3435.1	2833.6	2273.1	72.2	39.0	25.4	17.6	15.7
70°	4585.4	3968.3	3446.8	2911.8	2421.6	1915.8	58.6	33.2	21.5	15.7	15.7
72.5°	3034.7	2614.9	2267.3	1950.9	1630.6	1265.5	48.9	27.4	17.6	15.7	13.6
75°	1144.4	1035.1	888.6	798.7	697.2	611.2	39.0	17.6	13.6	13.6	13.6
77.5°	203.1	187.5	166.0	152.3	140.6	128.9	31.2	11.7	11.7	13.6	13.6
80°	136.7	126.9	115.3	105.4	97.6	87.9	21.5	9.7	11.7	11.7	13.6
82.5°	97.6	91.8	86.0	78.2	72.2	64.4	13.6	9.7	11.7	11.7	11.7
85°	58.6	54.7	50.8	46.8	41.0	39.0	9.7	9.7	9.7	11.7	11.7
87.5°	15.7	13.6	15.7	15.7	11.7	13.6	7.8	7.8	7.8	9.7	9.7
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°	306.6	306.6	306.6	306.6	306.6
2.5°	259.7	259.7	255.8	261.7	261.7
5°	224.6	224.6	222.6	224.6	224.6
7.5°	205.0	203.1	203.1	203.1	205.0
10°	187.5	185.5	185.5	185.5	185.5
12.5°	171.8	169.9	167.9	169.9	169.9
15°	158.2	154.3	154.3	154.3	154.3
17.5°	146.5	142.5	140.6	140.6	140.6
20°	134.7	128.9	128.9	128.9	128.9
22.5°	123.0	117.2	117.2	117.2	117.2
25°	111.4	105.4	105.4	105.4	105.4
27.5°	101.5	95.7	95.7	95.7	95.7
30°	89.9	86.0	86.0	87.9	86.0
32.5°	82.1	76.1	76.1	78.2	78.2
35°	72.2	68.3	68.3	68.3	68.3
37.5°	62.5	58.6	58.6	58.6	58.6
40°	54.7	50.8	48.9	50.8	50.8
42.5°	46.8	42.9	41.0	41.0	41.0
45°	41.0	35.1	33.2	35.1	35.1
47.5°	33.2	29.3	29.3	31.2	31.2
50°	25.4	25.4	27.4	31.2	31.2
52.5°	23.5	23.5	27.4	31.2	31.2
55°	21.5	23.5	27.4	29.3	31.2
57.5°	19.6	23.5	27.4	29.3	29.3
60°	19.6	21.5	25.4	29.3	29.3
62.5°	17.6	19.6	23.5	27.4	27.4
65°	17.6	19.6	23.5	27.4	27.4
66°	17.6	19.6	23.5	27.4	27.4
67.5°	17.6	19.6	23.5	27.4	27.4
70°	17.6	19.6	23.5	25.4	25.4
72.5°	15.7	17.6	21.5	25.4	25.4
75°	15.7	17.6	21.5	25.4	25.4
77.5°	15.7	17.6	21.5	25.4	25.4
80°	15.7	17.6	21.5	23.5	25.4
82.5°	13.6	17.6	19.6	23.5	23.5
85°	13.6	15.7	19.6	21.5	23.5
87.5°	11.7	13.6	15.7	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)