

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: P165250

Luminaire Tested: **VST-F03-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165250
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-F03-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3580.7 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 78.3
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



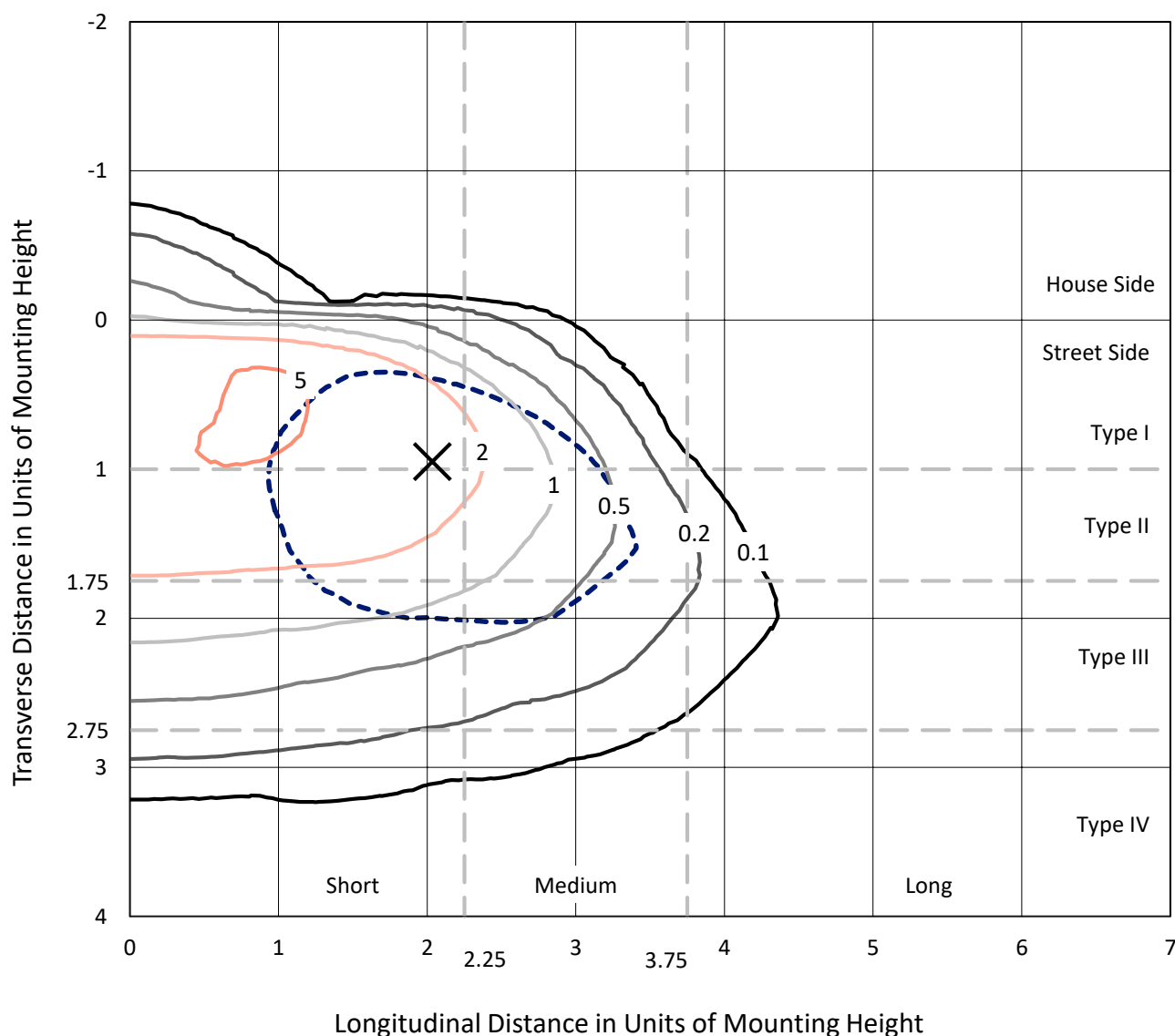
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

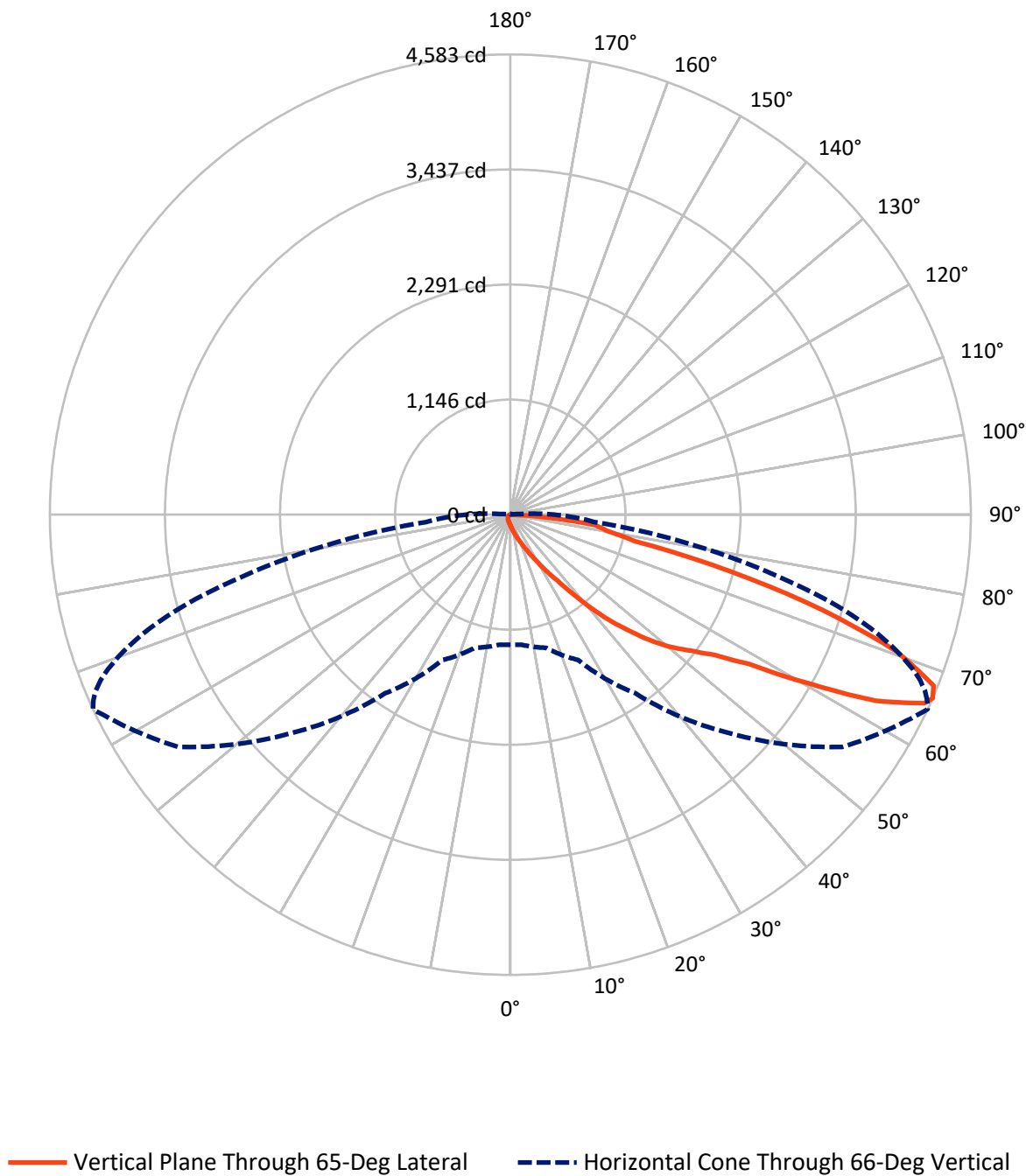


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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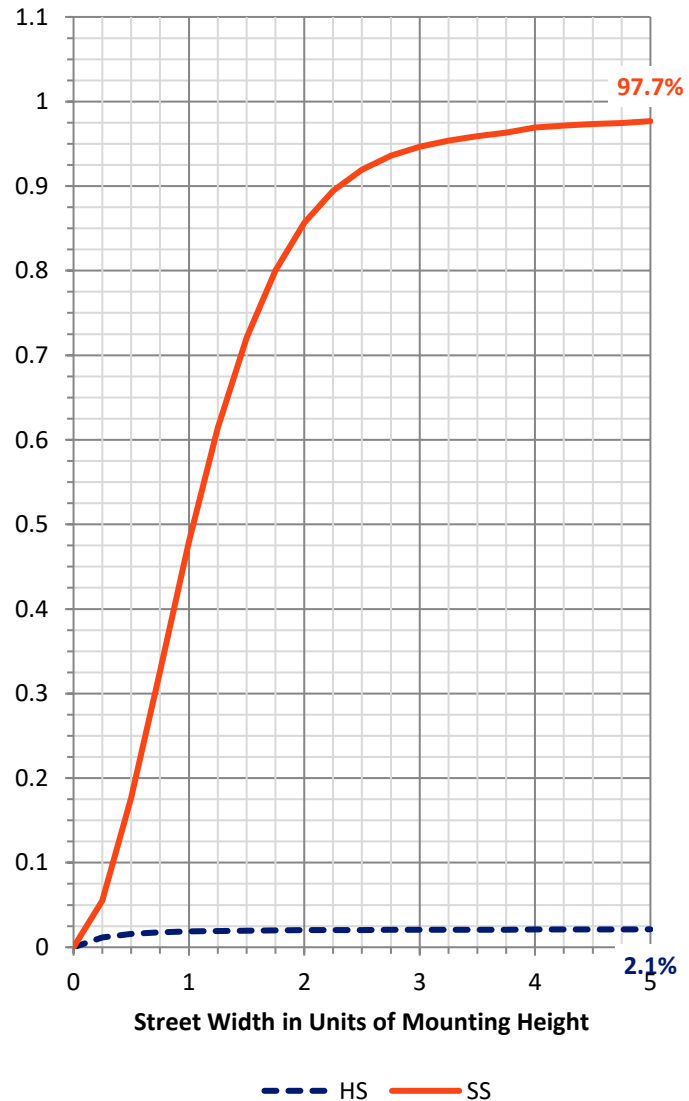
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	77.6	0.0	77.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3503.1	0.0	3503.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	3580.7	0.0	3580.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.3
10°-20°	51.3	1.4
20°-30°	110.6	3.1
30°-40°	236.3	6.6
40°-50°	522.6	14.6
50°-60°	885.6	24.7
60°-70°	1181.7	33.0
70°-80°	520.5	14.5
80°-90°	60.0	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°	3580.7	100.0
0°-180°	3580.7	100.0

Coefficient of Utilization



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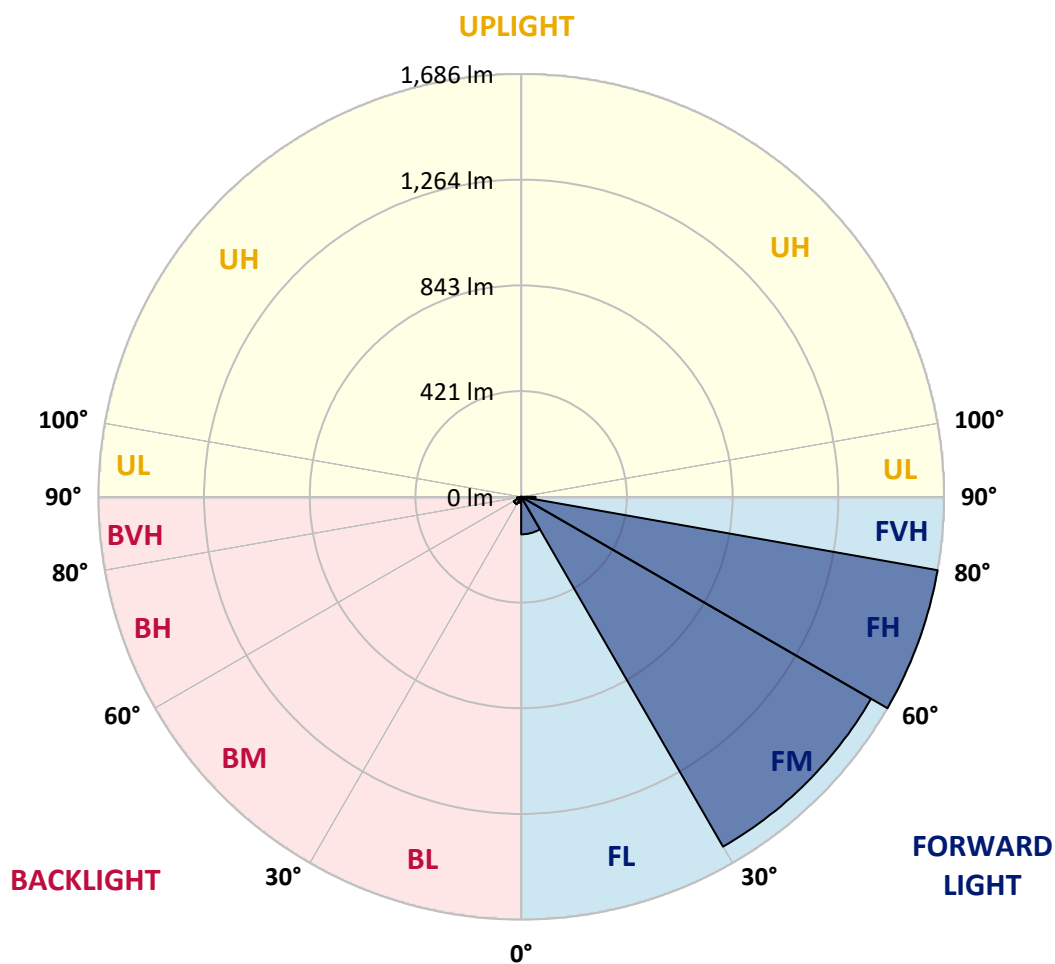
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.6	4.2			
FM	(30°-60°)	1610.4	45.0			
FH	(60°-80°)	1685.6	47.1			G1/1800
FVH	(80°-90°)	57.6	1.6			G1/100
BL	(0°-30°)	24.5	0.7	B0/110		
BM	(30°-60°)	34.1	1.0	B0/220		
BH	(60°-80°)	16.6	0.5	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	136.3	135.6	132.8	132.8	128.7	126.0	122.5	119.1	119.1	118.4	117.7
5°	180.4	176.2	175.6	167.9	161.8	152.8	144.5	133.6	132.2	130.8	130.1
7.5°	229.3	228.5	222.4	213.4	201.1	184.5	167.9	150.1	147.3	145.9	143.2
10°	292.6	289.1	280.9	265.7	247.1	225.1	198.3	170.0	166.6	163.9	162.5
12.5°	353.2	347.0	342.1	322.9	299.5	267.1	234.7	194.2	191.4	188.0	182.5
15°	409.6	404.1	395.8	379.3	353.2	312.5	274.7	225.1	218.2	213.4	209.3
17.5°	453.7	450.2	440.6	422.0	393.8	358.0	312.5	256.7	251.3	245.0	237.5
20°	495.7	490.8	475.7	450.2	419.9	392.4	357.3	298.1	290.5	283.0	274.7
22.5°	535.6	530.8	506.0	464.0	431.6	419.9	407.5	344.9	333.2	327.0	318.7
25°	591.4	581.0	542.5	475.7	432.4	441.3	462.6	405.5	394.4	385.5	372.4
27.5°	666.4	652.6	592.0	492.9	435.1	464.7	526.0	479.1	467.4	457.1	442.7
30°	751.1	742.1	669.8	534.2	455.0	499.1	596.8	572.8	559.0	546.6	529.4
32.5°	836.4	824.0	752.5	612.7	508.7	565.9	685.7	681.5	663.7	652.0	633.4
35°	911.5	905.3	852.2	741.4	631.3	682.9	804.1	808.9	793.1	780.7	760.0
37.5°	962.4	962.4	952.1	879.8	826.1	864.7	978.2	978.9	963.1	934.9	924.5
40°	988.6	996.1	1033.3	1047.1	1044.3	1093.9	1206.8	1194.4	1181.3	1166.8	1132.4
42.5°	1042.3	1049.1	1128.3	1223.3	1285.3	1350.7	1428.4	1424.3	1408.5	1382.3	1350.7
45°	1133.2	1142.1	1236.4	1387.1	1514.5	1607.5	1657.0	1637.7	1621.9	1597.1	1580.6
47.5°	1248.8	1266.0	1372.7	1559.3	1712.8	1866.2	1917.9	1867.0	1853.2	1833.9	1807.1
50°	1372.0	1388.5	1502.1	1715.5	1889.0	2072.1	2158.2	2072.1	2052.2	2045.9	2015.6
52.5°	1478.7	1492.5	1601.9	1836.0	2023.9	2238.7	2364.0	2250.4	2236.0	2215.3	2193.2
55°	1542.0	1553.0	1655.6	1893.8	2115.5	2388.8	2563.0	2463.1	2441.8	2433.5	2401.9
57.5°	1563.4	1574.4	1666.6	1901.4	2165.0	2525.8	2804.6	2808.0	2782.6	2753.0	2743.3
60°	1563.4	1575.8	1653.5	1882.8	2213.2	2671.7	3126.7	3413.8	3358.7	3353.2	3318.1
62.5°	1498.7	1510.4	1588.9	1825.7	2278.0	2868.6	3575.6	4082.3	4066.4	4030.6	3972.8
65°	1358.2	1365.1	1442.2	1679.8	2253.2	3049.7	3964.6	4526.9	4501.5	4431.3	4357.0
66°	1294.9	1300.4	1372.7	1596.4	2171.9	3074.5	4033.4	4582.7	4540.7	4481.5	4397.5
67.5°	1203.4	1213.0	1263.9	1441.6	1977.1	2988.4	3990.1	4543.5	4507.0	4435.4	4351.4
70°	803.4	796.5	976.1	1106.3	1506.2	2434.9	3579.7	4079.5	4080.2	4046.5	4012.7
72.5°	381.4	385.5	437.8	680.8	985.8	1626.7	2849.3	3256.1	3303.0	3242.4	3200.4
75°	274.0	280.2	311.9	416.5	587.9	976.1	1847.0	2277.2	2278.6	2171.2	2075.6
77.5°	79.9	83.3	117.0	256.7	440.6	658.8	1060.8	1266.0	1236.4	1159.3	1087.0
80°	33.0	33.0	34.4	82.0	176.9	447.5	742.1	974.8	971.3	941.8	899.1
82.5°	12.4	13.1	16.5	33.7	42.0	110.2	494.9	846.1	844.0	802.0	771.7
85°	1.4	1.4	4.1	14.5	15.8	20.6	99.1	373.1	371.0	373.1	327.0
87.5°	0.0	0.0	0.7	1.4	2.0	2.8	4.1	14.5	15.8	15.1	13.7
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	117.7	116.3	116.3	115.7	115.7	115.7	115.0	114.3	114.3	113.6	112.9
5°	128.7	127.3	126.7	125.3	124.6	123.9	122.5	121.9	120.5	119.8	119.1
7.5°	141.8	139.0	138.4	136.3	134.2	132.8	131.5	129.4	128.0	125.3	124.6
10°	158.3	154.9	152.1	149.3	147.3	143.9	141.8	139.0	136.3	134.2	132.2
12.5°	179.7	174.8	170.7	167.9	163.1	159.0	154.9	152.8	147.3	144.5	141.1
15°	203.1	197.6	192.8	187.3	183.8	176.9	171.4	165.2	162.5	157.6	152.1
17.5°	233.3	224.4	216.8	211.4	204.5	197.6	191.4	185.2	176.9	171.4	164.5
20°	265.7	258.1	247.8	238.2	229.9	221.7	212.7	204.5	196.9	188.0	179.7
22.5°	307.1	296.0	283.6	274.0	263.0	254.0	241.6	230.6	218.2	206.5	196.9
25°	359.3	344.9	333.2	319.4	306.4	292.6	277.4	263.6	247.8	236.8	220.3
27.5°	424.1	410.3	394.4	376.6	363.5	342.8	322.9	305.7	287.0	269.8	251.3
30°	506.6	486.7	470.2	453.0	426.8	406.9	383.4	360.1	334.6	317.4	289.1
32.5°	605.8	584.5	559.7	534.9	510.8	482.6	453.7	424.7	396.5	364.9	335.9
35°	727.0	701.5	673.3	646.4	609.2	578.9	542.5	502.5	470.9	434.4	397.9
37.5°	887.4	845.3	820.6	792.4	742.1	700.8	660.2	620.2	564.5	526.0	474.3
40°	1088.4	1063.6	1023.0	977.5	932.1	877.7	822.7	769.7	704.9	651.2	591.4
42.5°	1324.5	1288.0	1246.7	1181.3	1135.2	1071.1	1008.5	938.3	859.1	790.3	720.1
45°	1546.1	1502.8	1471.1	1405.7	1357.6	1281.8	1206.1	1131.8	1040.2	951.4	870.2
47.5°	1785.7	1749.9	1697.6	1644.6	1595.8	1510.4	1428.4	1338.3	1241.9	1136.6	1031.2
50°	1996.4	1968.2	1932.4	1868.3	1814.0	1742.3	1646.0	1547.5	1425.7	1321.1	1201.3
52.5°	2175.4	2153.3	2103.1	2057.6	2008.8	1941.3	1855.3	1760.9	1629.5	1514.5	1378.2
55°	2386.7	2370.9	2326.8	2298.6	2255.2	2190.5	2110.0	2022.5	1883.5	1758.2	1604.0
57.5°	2733.0	2720.6	2682.0	2670.3	2627.6	2571.2	2472.1	2378.5	2216.0	2060.4	1884.2
60°	3306.4	3281.6	3225.2	3196.3	3106.1	3030.4	2901.7	2772.9	2576.7	2378.5	2166.4
62.5°	3920.5	3851.0	3743.6	3651.4	3523.3	3391.8	3219.7	3022.8	2792.9	2557.4	2313.7
65°	4251.6	4133.2	3997.6	3851.0	3685.1	3491.6	3274.7	3038.6	2791.5	2543.0	2285.5
66°	4289.5	4155.9	4012.1	3848.9	3664.4	3458.6	3238.3	2990.5	2733.7	2491.4	2233.9
67.5°	4242.0	4102.3	3950.1	3769.1	3569.4	3356.0	3124.7	2867.2	2620.1	2374.3	2123.8
70°	3909.5	3770.4	3634.8	3444.1	3231.4	3016.6	2797.7	2510.0	2275.9	2050.1	1827.1
72.5°	3121.9	3027.6	2893.4	2730.2	2523.0	2271.1	2088.6	1831.2	1628.1	1409.2	1236.4
75°	1951.0	1818.1	1652.2	1444.3	1285.9	1081.5	974.8	779.3	663.7	562.4	464.7
77.5°	997.5	897.7	781.4	664.3	552.1	440.6	340.7	241.0	162.5	112.9	84.0
80°	824.0	735.9	639.5	532.9	433.7	336.7	242.3	165.2	105.4	68.9	53.7
82.5°	680.8	606.5	520.4	421.3	335.3	264.4	183.8	119.8	74.3	48.2	37.9
85°	289.8	263.0	203.1	161.1	121.1	89.5	62.6	42.0	29.6	24.1	22.0
87.5°	12.4	13.7	13.1	10.3	7.6	7.6	6.9	5.5	5.5	5.5	5.5
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1
2.5°	112.9	112.2	111.5	111.5	110.8	110.2	106.0	102.6	98.5	95.7	92.9
5°	117.7	117.0	115.7	115.0	113.6	112.9	104.0	96.4	90.2	85.4	82.0
7.5°	122.5	121.9	119.8	117.7	117.0	115.7	101.2	91.6	83.3	77.8	74.3
10°	128.7	126.7	124.6	121.9	119.8	117.7	98.5	86.0	77.1	72.3	68.9
12.5°	137.6	134.2	130.8	127.3	124.6	121.1	97.1	81.2	72.3	66.8	63.4
15°	148.0	143.2	139.0	134.9	130.1	126.7	94.3	77.1	68.2	62.6	58.5
17.5°	157.6	152.1	145.9	139.7	134.9	130.1	91.6	73.0	64.0	58.5	54.4
20°	171.4	163.1	155.6	148.0	141.1	134.9	87.4	68.9	60.6	54.4	50.2
22.5°	186.6	176.9	167.3	157.0	148.0	139.7	84.0	65.4	57.1	50.9	46.1
25°	205.9	194.2	181.1	167.9	157.6	146.6	80.6	62.0	53.7	47.5	42.7
27.5°	232.7	216.2	201.7	185.2	169.3	157.0	77.8	59.2	50.2	44.0	39.2
30°	269.2	245.0	222.4	204.5	185.9	167.9	75.1	55.7	47.5	40.6	35.1
32.5°	309.8	281.6	255.4	228.5	205.1	184.5	72.3	53.0	44.0	37.1	32.3
35°	360.1	324.2	289.1	258.1	229.9	202.4	69.5	50.2	41.3	33.7	28.9
37.5°	432.4	387.5	341.5	301.6	265.0	228.5	67.5	47.5	37.9	30.3	25.4
40°	531.5	473.6	417.2	362.8	315.3	269.8	64.7	44.8	35.1	27.5	22.7
42.5°	638.9	568.6	494.3	433.0	367.6	310.5	62.0	42.0	32.3	24.8	20.0
45°	772.4	685.0	594.8	511.5	431.6	358.0	59.2	39.2	28.9	22.0	17.2
47.5°	918.4	806.8	704.9	600.3	505.3	417.2	55.7	37.1	26.2	19.3	15.1
50°	1068.4	950.7	821.9	702.8	590.0	476.4	52.3	33.7	23.4	17.2	12.4
52.5°	1230.2	1091.1	959.6	811.6	680.2	554.2	48.8	31.0	21.3	15.1	10.3
55°	1436.0	1280.5	1126.3	960.3	802.0	644.3	45.4	27.5	18.6	13.1	8.3
57.5°	1694.9	1510.4	1321.1	1133.8	941.8	762.8	42.7	24.1	15.8	11.0	6.9
60°	1939.3	1723.8	1494.5	1279.1	1062.2	853.6	38.5	21.3	13.7	8.9	6.9
62.5°	2065.9	1820.2	1573.0	1335.5	1104.2	886.0	34.4	17.9	11.7	7.6	6.2
65°	2035.0	1784.3	1544.8	1305.2	1078.7	865.3	30.3	15.8	10.3	6.9	6.2
66°	1990.2	1742.3	1501.4	1273.6	1057.4	843.3	28.2	15.1	9.7	6.9	5.5
67.5°	1892.5	1652.9	1422.9	1210.9	998.9	801.3	25.4	13.7	8.9	6.2	5.5
70°	1616.4	1398.8	1215.1	1026.4	853.6	675.4	20.6	11.7	7.6	5.5	5.5
72.5°	1069.7	921.8	799.3	687.7	574.8	446.1	17.2	9.7	6.2	5.5	4.8
75°	403.4	364.9	313.3	281.6	245.8	215.5	13.7	6.2	4.8	4.8	4.8
77.5°	71.6	66.1	58.5	53.7	49.6	45.4	11.0	4.1	4.1	4.8	4.8
80°	48.2	44.8	40.6	37.1	34.4	31.0	7.6	3.4	4.1	4.1	4.8
82.5°	34.4	32.3	30.3	27.5	25.4	22.7	4.8	3.4	4.1	4.1	4.1
85°	20.6	19.3	17.9	16.5	14.5	13.7	3.4	3.4	3.4	4.1	4.1
87.5°	5.5	4.8	5.5	5.5	4.1	4.8	2.8	2.8	2.8	3.4	3.4
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):

	145°	155°	165°	175°	180°
0°	108.1	108.1	108.1	108.1	108.1
2.5°	91.6	91.6	90.2	92.3	92.3
5°	79.2	79.2	78.5	79.2	79.2
7.5°	72.3	71.6	71.6	71.6	72.3
10°	66.1	65.4	65.4	65.4	65.4
12.5°	60.6	59.9	59.2	59.9	59.9
15°	55.7	54.4	54.4	54.4	54.4
17.5°	51.6	50.2	49.6	49.6	49.6
20°	47.5	45.4	45.4	45.4	45.4
22.5°	43.4	41.3	41.3	41.3	41.3
25°	39.2	37.1	37.1	37.1	37.1
27.5°	35.8	33.7	33.7	33.7	33.7
30°	31.7	30.3	30.3	31.0	30.3
32.5°	28.9	26.8	26.8	27.5	27.5
35°	25.4	24.1	24.1	24.1	24.1
37.5°	22.0	20.6	20.6	20.6	20.6
40°	19.3	17.9	17.2	17.9	17.9
42.5°	16.5	15.1	14.5	14.5	14.5
45°	14.5	12.4	11.7	12.4	12.4
47.5°	11.7	10.3	10.3	11.0	11.0
50°	8.9	8.9	9.7	11.0	11.0
52.5°	8.3	8.3	9.7	11.0	11.0
55°	7.6	8.3	9.7	10.3	11.0
57.5°	6.9	8.3	9.7	10.3	10.3
60°	6.9	7.6	8.9	10.3	10.3
62.5°	6.2	6.9	8.3	9.7	9.7
65°	6.2	6.9	8.3	9.7	9.7
66°	6.2	6.9	8.3	9.7	9.7
67.5°	6.2	6.9	8.3	9.7	9.7
70°	6.2	6.9	8.3	8.9	8.9
72.5°	5.5	6.2	7.6	8.9	8.9
75°	5.5	6.2	7.6	8.9	8.9
77.5°	5.5	6.2	7.6	8.9	8.9
80°	5.5	6.2	7.6	8.3	8.9
82.5°	4.8	6.2	6.9	8.3	8.3
85°	4.8	5.5	6.9	7.6	8.3
87.5°	4.1	4.8	5.5	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)