

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: P165246

Luminaire Tested: **VST-E03-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165246
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-E03-LED-E-U-SL3-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4694 lumens
Efficiency: N/A
Efficacy: 62.4 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 - G2

Input Watts (W): 75.2
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

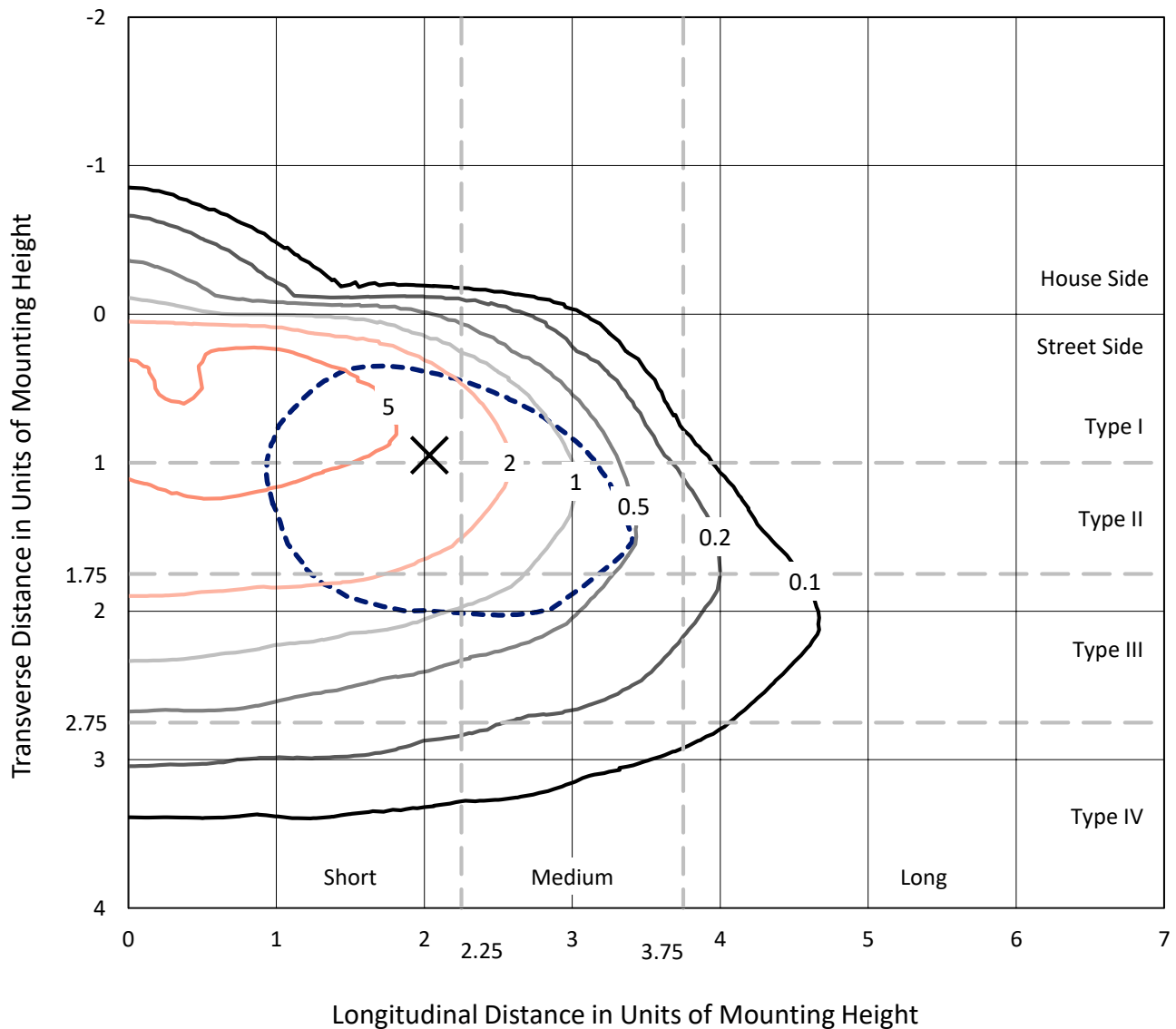


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

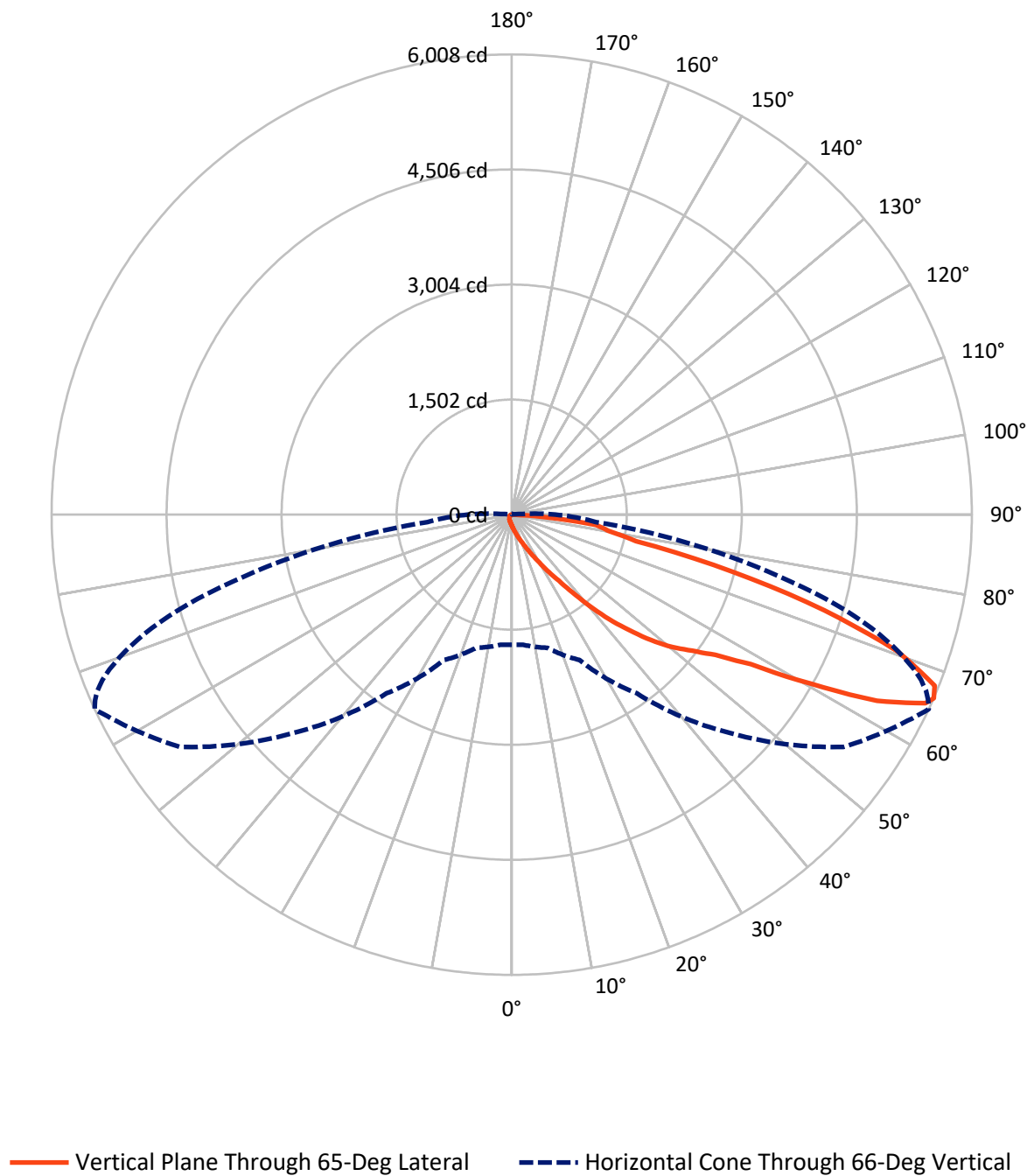


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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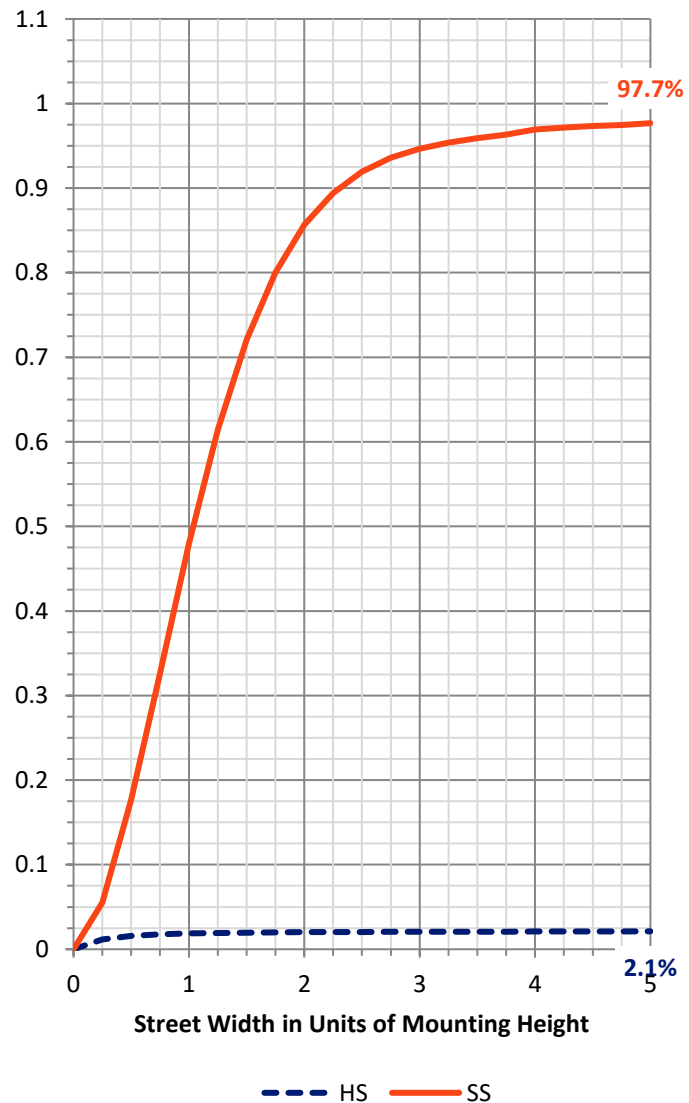
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	101.8	0.0	101.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4592.3	0.0	4592.3
	% Fixture	97.8	0.0	97.8
Total	Lumens	4694.0	0.0	4694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.9	0.3
10°-20°	67.3	1.4
20°-30°	145.0	3.1
30°-40°	309.8	6.6
40°-50°	685.0	14.6
50°-60°	1160.9	24.7
60°-70°	1549.2	33.0
70°-80°	682.4	14.5
80°-90°	78.6	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°	4694.0	100.0
0°-180°	4694.0	100.0

Coefficient of Utilization



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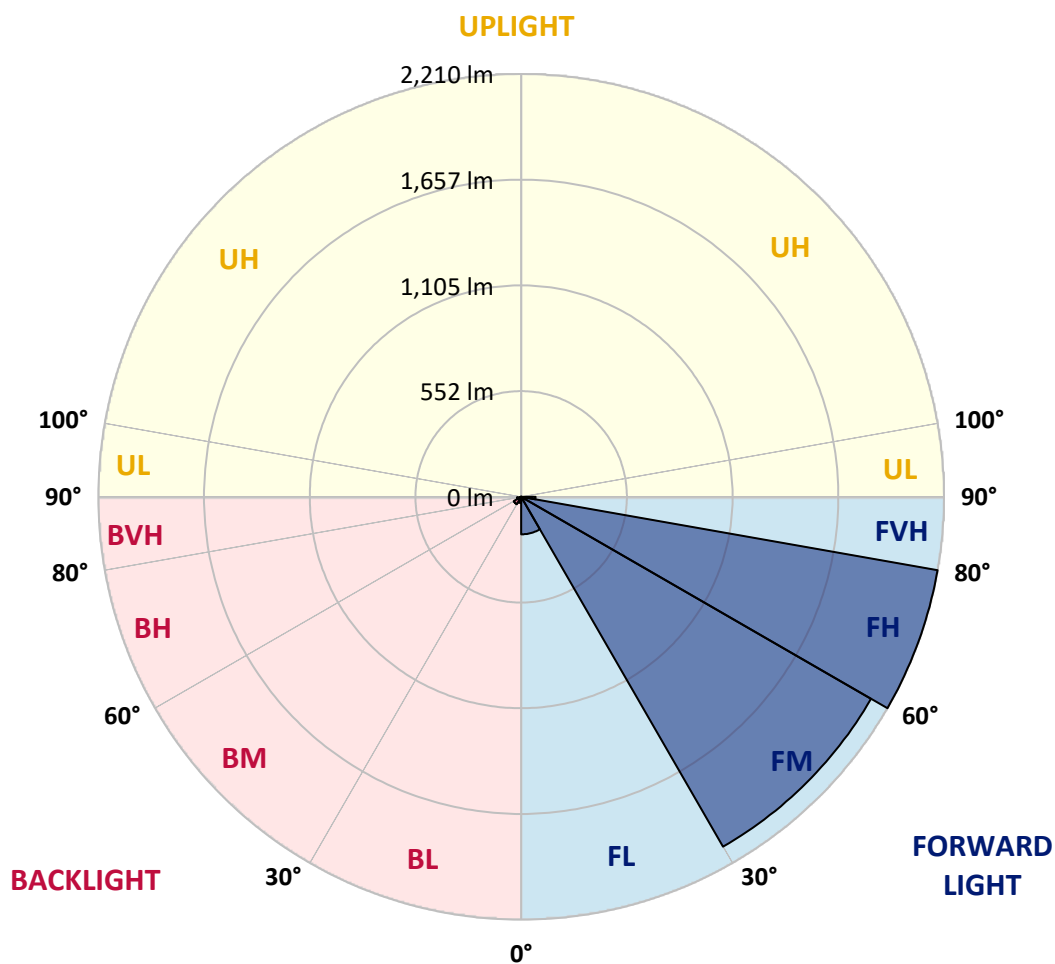
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.1	4.2			
FM	(30°-60°)	2111.0	45.0			
FH	(60°-80°)	2209.7	47.1			G2/5000
FVH	(80°-90°)	75.5	1.6			G1/100
BL	(0°-30°)	32.1	0.7	B0/110		
BM	(30°-60°)	44.7	1.0	B0/220		
BH	(60°-80°)	21.8	0.5	B0/110		G0/110
BVH	(80°-90°)	3.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7
2.5°	178.7	177.8	174.2	174.2	168.7	165.2	160.6	156.1	156.1	155.2	154.3
5°	236.4	231.1	230.1	220.2	212.1	200.3	189.5	175.1	173.3	171.5	170.5
7.5°	300.5	299.6	291.5	279.8	263.5	241.9	220.2	196.7	193.1	191.3	187.7
10°	383.6	379.0	368.2	348.3	324.0	295.1	259.9	222.9	218.4	214.7	212.9
12.5°	463.0	454.9	448.5	423.2	392.5	350.1	307.7	254.5	250.9	246.4	239.2
15°	536.9	529.7	518.9	497.3	463.0	409.7	360.1	295.1	286.1	279.8	274.3
17.5°	594.7	590.2	577.6	553.2	516.2	469.3	409.7	336.6	329.4	321.2	311.3
20°	649.8	643.4	623.6	590.2	550.5	514.4	468.4	390.7	380.8	370.9	360.1
22.5°	702.1	695.8	663.3	608.2	565.8	550.5	534.2	452.1	436.7	428.6	417.8
25°	775.2	761.7	711.1	623.6	566.8	578.5	606.4	531.5	517.1	505.4	488.2
27.5°	873.6	855.5	776.1	646.1	570.3	609.2	689.5	628.1	612.7	599.2	580.3
30°	984.5	972.8	878.1	700.3	596.5	654.2	782.4	750.8	732.8	716.5	694.0
32.5°	1096.4	1080.2	986.3	803.2	666.9	741.8	898.9	893.4	869.9	854.6	830.2
35°	1194.8	1186.7	1117.2	971.9	827.6	895.2	1054.0	1060.3	1039.6	1023.4	996.3
37.5°	1261.6	1261.6	1248.1	1153.3	1082.9	1133.5	1282.3	1283.3	1262.5	1225.5	1212.0
40°	1295.9	1305.8	1354.6	1372.6	1369.0	1434.0	1582.0	1565.7	1548.5	1529.6	1484.5
42.5°	1366.3	1375.3	1479.1	1603.6	1684.9	1770.5	1872.5	1867.1	1846.4	1812.1	1770.5
45°	1485.4	1497.2	1620.8	1818.4	1985.3	2107.2	2172.1	2146.9	2126.1	2093.7	2072.0
47.5°	1637.0	1659.6	1799.5	2044.0	2245.3	2446.5	2514.2	2447.4	2429.4	2404.1	2368.9
50°	1798.6	1820.2	1969.1	2248.9	2476.3	2716.3	2829.2	2716.3	2690.2	2682.0	2642.3
52.5°	1938.4	1956.5	2100.0	2406.8	2653.1	2934.7	3098.9	2950.0	2931.1	2904.0	2875.1
55°	2021.5	2035.9	2170.3	2482.6	2773.2	3131.5	3359.8	3229.0	3200.9	3190.1	3148.6
57.5°	2049.4	2063.9	2184.8	2492.5	2838.1	3311.0	3676.6	3681.1	3647.6	3608.9	3596.2
60°	2049.4	2065.7	2167.7	2468.2	2901.4	3502.3	4098.8	4475.2	4403.0	4395.8	4349.7
62.5°	1964.6	1979.9	2082.8	2393.3	2986.1	3760.4	4687.3	5351.4	5330.7	5283.7	5207.9
65°	1780.5	1789.5	1890.6	2201.9	2953.7	3997.8	5197.1	5934.4	5901.0	5809.0	5711.5
66°	1697.5	1704.7	1799.5	2092.7	2847.2	4030.3	5287.4	6007.5	5952.5	5874.8	5764.7
67.5°	1577.5	1590.1	1656.8	1889.7	2591.8	3917.5	5230.6	5956.1	5908.3	5814.4	5704.3
70°	1053.2	1044.1	1279.7	1450.2	1974.5	3191.9	4692.7	5347.8	5348.8	5304.5	5260.3
72.5°	499.9	505.4	574.0	892.5	1292.3	2132.5	3735.2	4268.5	4329.9	4250.5	4195.4
75°	359.2	367.3	408.8	546.0	770.6	1279.7	2421.2	2985.2	2987.0	2846.3	2720.9
77.5°	104.6	109.2	153.4	336.6	577.6	863.6	1390.6	1659.6	1620.8	1519.7	1424.9
80°	43.3	43.3	45.1	107.4	231.9	586.6	972.8	1277.9	1273.4	1234.6	1178.6
82.5°	16.2	17.2	21.7	44.2	55.1	144.4	648.8	1109.1	1106.4	1051.4	1011.6
85°	1.8	1.8	5.4	19.0	20.8	27.1	130.0	489.1	486.4	489.1	428.6
87.5°	0.0	0.0	0.9	1.8	2.7	3.6	5.4	19.0	20.8	19.9	18.0
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°	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7
2.5°	154.3	152.5	152.5	151.6	151.6	151.6	150.7	149.8	149.8	148.9	148.0
5°	168.7	166.9	166.0	164.2	163.4	162.4	160.6	159.7	157.9	157.0	156.1
7.5°	185.9	182.3	181.4	178.7	176.0	174.2	172.3	169.7	167.9	164.2	163.4
10°	207.6	203.0	199.4	195.8	193.1	188.6	185.9	182.3	178.7	176.0	173.3
12.5°	235.6	229.3	223.8	220.2	213.9	208.4	203.0	200.3	193.1	189.5	185.0
15°	266.2	259.0	252.7	245.5	241.0	231.9	224.7	216.6	212.9	206.6	199.4
17.5°	305.9	294.2	284.3	277.1	268.0	259.0	250.9	242.8	231.9	224.7	215.7
20°	348.3	338.4	324.8	312.2	301.4	290.6	278.8	268.0	258.1	246.4	235.6
22.5°	402.5	388.0	371.8	359.2	344.8	333.0	316.7	302.3	286.1	270.7	258.1
25°	471.1	452.1	436.7	418.7	401.6	383.6	363.7	345.7	324.8	310.4	288.8
27.5°	555.9	537.9	517.1	493.6	476.5	449.4	423.2	400.7	376.3	353.8	329.4
30°	664.2	638.0	616.3	593.8	559.5	533.3	502.6	472.0	438.6	416.0	379.0
32.5°	794.1	766.2	733.7	701.2	669.6	632.6	594.7	556.8	519.8	478.3	440.4
35°	953.0	919.6	882.6	847.4	798.7	758.9	711.1	658.7	617.3	569.5	521.6
37.5°	1163.3	1108.2	1075.7	1038.7	972.8	918.7	865.4	813.1	740.0	689.5	621.8
40°	1426.7	1394.2	1341.1	1281.5	1221.9	1150.6	1078.4	1009.0	924.1	853.7	775.2
42.5°	1736.3	1688.5	1634.3	1548.5	1488.1	1404.2	1322.1	1230.0	1126.2	1036.0	943.9
45°	2026.9	1970.0	1928.5	1842.8	1779.6	1680.3	1581.1	1483.6	1363.6	1247.2	1140.7
47.5°	2341.0	2294.0	2225.4	2155.9	2091.8	1979.9	1872.5	1754.3	1628.0	1489.9	1351.9
50°	2617.1	2580.1	2533.1	2449.2	2377.9	2284.1	2157.7	2028.7	1868.9	1731.8	1574.8
52.5°	2851.7	2822.8	2756.9	2697.4	2633.3	2544.8	2432.0	2308.4	2136.1	1985.3	1806.7
55°	3128.8	3108.0	3050.2	3013.3	2956.4	2871.6	2766.0	2651.4	2469.1	2304.8	2102.6
57.5°	3582.7	3566.5	3515.9	3500.5	3444.6	3370.6	3240.7	3117.9	2905.0	2701.0	2470.0
60°	4334.4	4301.9	4227.9	4190.0	4071.8	3972.5	3803.8	3635.0	3377.8	3117.9	2840.0
62.5°	5139.4	5048.2	4907.5	4786.6	4618.7	4446.3	4220.6	3962.6	3661.2	3352.6	3033.1
65°	5573.4	5418.2	5240.5	5048.2	4830.8	4577.2	4292.9	3983.4	3659.4	3333.6	2996.1
66°	5623.1	5448.0	5259.4	5045.5	4803.7	4533.8	4245.1	3920.2	3583.6	3265.9	2928.4
67.5°	5560.8	5377.6	5178.2	4940.9	4679.2	4399.4	4096.1	3758.6	3434.6	3112.5	2784.0
70°	5125.0	4942.6	4764.8	4514.9	4236.0	3954.5	3667.5	3290.3	2983.5	2687.5	2395.1
72.5°	4092.5	3968.9	3793.0	3579.1	3307.4	2977.1	2738.0	2400.5	2134.3	1847.3	1620.8
75°	2557.5	2383.4	2165.8	1893.3	1685.8	1417.7	1277.9	1021.6	869.9	737.3	609.2
77.5°	1307.6	1176.8	1024.3	870.8	723.8	577.6	446.7	315.9	212.9	148.0	110.1
80°	1080.2	964.7	838.3	698.5	568.6	441.3	317.7	216.6	138.1	90.2	70.4
82.5°	892.5	795.1	682.2	552.3	439.5	346.6	241.0	157.0	97.4	63.2	49.6
85°	379.9	344.8	266.2	211.1	158.8	117.3	82.1	55.1	38.8	31.6	28.9
87.5°	16.2	18.0	17.2	13.6	9.9	9.9	9.1	7.3	7.3	7.3	7.3
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°	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7
2.5°	148.0	147.1	146.2	146.2	145.3	144.4	139.0	134.5	129.1	125.5	121.8
5°	154.3	153.4	151.6	150.7	148.9	148.0	136.3	126.3	118.2	111.9	107.4
7.5°	160.6	159.7	157.0	154.3	153.4	151.6	132.7	120.0	109.2	102.0	97.4
10°	168.7	166.0	163.4	159.7	157.0	154.3	129.1	112.8	101.0	94.7	90.2
12.5°	180.5	176.0	171.5	166.9	163.4	158.8	127.3	106.5	94.7	87.5	83.0
15°	194.0	187.7	182.3	176.9	170.5	166.0	123.7	101.0	89.3	82.1	76.7
17.5°	206.6	199.4	191.3	183.2	176.9	170.5	120.0	95.7	83.9	76.7	71.3
20°	224.7	213.9	203.9	194.0	185.0	176.9	114.6	90.2	79.4	71.3	65.9
22.5°	244.6	231.9	219.3	205.8	194.0	183.2	110.1	85.7	74.9	66.8	60.4
25°	269.8	254.5	237.4	220.2	206.6	192.2	105.6	81.2	70.4	62.3	56.0
27.5°	305.0	283.4	264.4	242.8	222.0	205.8	102.0	77.6	65.9	57.8	51.5
30°	352.9	321.2	291.5	268.0	243.7	220.2	98.3	73.1	62.3	53.3	46.0
32.5°	406.1	369.1	334.8	299.6	268.9	241.9	94.7	69.5	57.8	48.7	42.4
35°	472.0	425.0	379.0	338.4	301.4	265.3	91.1	65.9	54.1	44.2	37.9
37.5°	566.8	508.1	447.6	395.3	347.5	299.6	88.4	62.3	49.6	39.7	33.4
40°	696.7	620.9	546.8	475.6	413.3	353.8	84.8	58.6	46.0	36.1	29.8
42.5°	837.5	745.4	647.9	567.6	481.9	407.0	81.2	55.1	42.4	32.5	26.2
45°	1012.6	897.9	779.7	670.5	565.8	469.3	77.6	51.5	37.9	28.9	22.6
47.5°	1203.8	1057.7	924.1	787.0	662.4	546.8	73.1	48.7	34.3	25.3	19.9
50°	1400.6	1246.3	1077.5	921.4	773.4	624.5	68.6	44.2	30.7	22.6	16.2
52.5°	1612.6	1430.3	1258.0	1064.0	891.6	726.4	64.1	40.6	28.0	19.9	13.6
55°	1882.4	1678.6	1476.4	1258.9	1051.4	844.7	59.6	36.1	24.4	17.2	10.9
57.5°	2221.8	1979.9	1731.8	1486.3	1234.6	999.9	56.0	31.6	20.8	14.4	9.1
60°	2542.1	2259.7	1959.2	1676.8	1392.4	1119.1	50.5	28.0	18.0	11.7	9.1
62.5°	2708.2	2386.0	2062.1	1750.7	1447.5	1161.5	45.1	23.5	15.4	9.9	8.1
65°	2667.6	2339.1	2025.1	1711.0	1414.1	1134.4	39.7	20.8	13.6	9.1	8.1
66°	2609.0	2284.1	1968.2	1669.5	1386.1	1105.5	37.0	19.9	12.7	9.1	7.3
67.5°	2480.8	2166.7	1865.3	1587.4	1309.4	1050.4	33.4	18.0	11.7	8.1	7.3
70°	2119.0	1833.8	1592.8	1345.5	1119.1	885.3	27.1	15.4	9.9	7.3	7.3
72.5°	1402.4	1208.3	1047.7	901.6	753.5	584.8	22.6	12.7	8.1	7.3	6.3
75°	528.8	478.3	410.6	369.1	322.2	282.4	18.0	8.1	6.3	6.3	6.3
77.5°	93.9	86.6	76.7	70.4	65.0	59.6	14.4	5.4	5.4	6.3	6.3
80°	63.2	58.6	53.3	48.7	45.1	40.6	9.9	4.5	5.4	5.4	6.3
82.5°	45.1	42.4	39.7	36.1	33.4	29.8	6.3	4.5	5.4	5.4	5.4
85°	27.1	25.3	23.5	21.7	19.0	18.0	4.5	4.5	4.5	5.4	5.4
87.5°	7.3	6.3	7.3	7.3	5.4	6.3	3.6	3.6	3.6	4.5	4.5
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):

	145°	155°	165°	175°	180°
0°	141.7	141.7	141.7	141.7	141.7
2.5°	120.0	120.0	118.2	121.0	121.0
5°	103.8	103.8	102.8	103.8	103.8
7.5°	94.7	93.9	93.9	93.9	94.7
10°	86.6	85.7	85.7	85.7	85.7
12.5°	79.4	78.5	77.6	78.5	78.5
15°	73.1	71.3	71.3	71.3	71.3
17.5°	67.7	65.9	65.0	65.0	65.0
20°	62.3	59.6	59.6	59.6	59.6
22.5°	56.8	54.1	54.1	54.1	54.1
25°	51.5	48.7	48.7	48.7	48.7
27.5°	46.9	44.2	44.2	44.2	44.2
30°	41.5	39.7	39.7	40.6	39.7
32.5°	37.9	35.2	35.2	36.1	36.1
35°	33.4	31.6	31.6	31.6	31.6
37.5°	28.9	27.1	27.1	27.1	27.1
40°	25.3	23.5	22.6	23.5	23.5
42.5°	21.7	19.9	19.0	19.0	19.0
45°	19.0	16.2	15.4	16.2	16.2
47.5°	15.4	13.6	13.6	14.4	14.4
50°	11.7	11.7	12.7	14.4	14.4
52.5°	10.9	10.9	12.7	14.4	14.4
55°	9.9	10.9	12.7	13.6	14.4
57.5°	9.1	10.9	12.7	13.6	13.6
60°	9.1	9.9	11.7	13.6	13.6
62.5°	8.1	9.1	10.9	12.7	12.7
65°	8.1	9.1	10.9	12.7	12.7
66°	8.1	9.1	10.9	12.7	12.7
67.5°	8.1	9.1	10.9	12.7	12.7
70°	8.1	9.1	10.9	11.7	11.7
72.5°	7.3	8.1	9.9	11.7	11.7
75°	7.3	8.1	9.9	11.7	11.7
77.5°	7.3	8.1	9.9	11.7	11.7
80°	7.3	8.1	9.9	10.9	11.7
82.5°	6.3	8.1	9.1	10.9	10.9
85°	6.3	7.3	9.1	9.9	10.9
87.5°	5.4	6.3	7.3	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)