

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: P165266

Luminaire Tested: **VST-E05-LED-E-U-SL3-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165266  
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-E05-LED-E-U-SL3-HSS-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (105) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

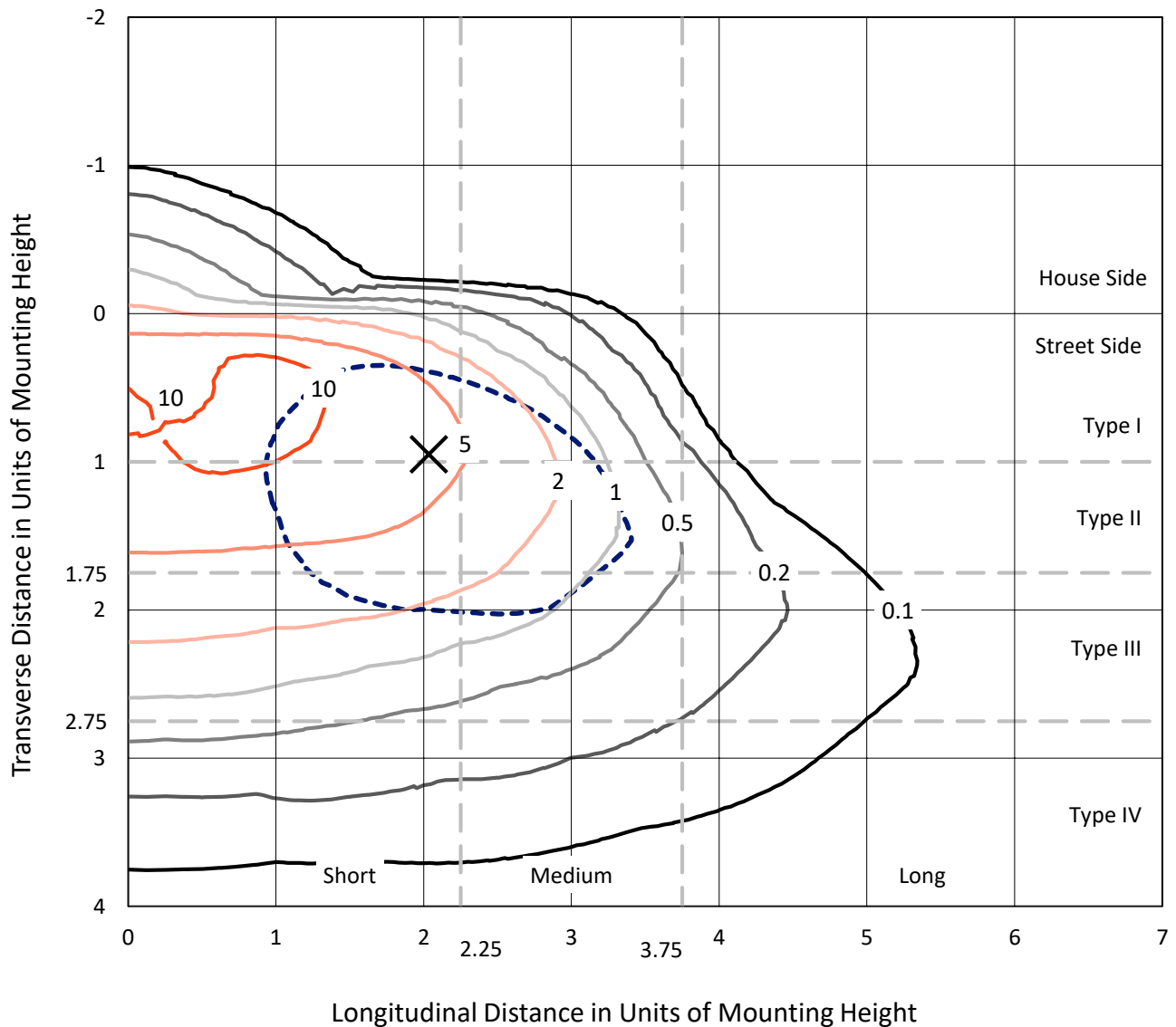
Lumens per Lamp: N/A  
Luminaire Lumens: 7823.3 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 127.3  
Input Voltage (V): NR  
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

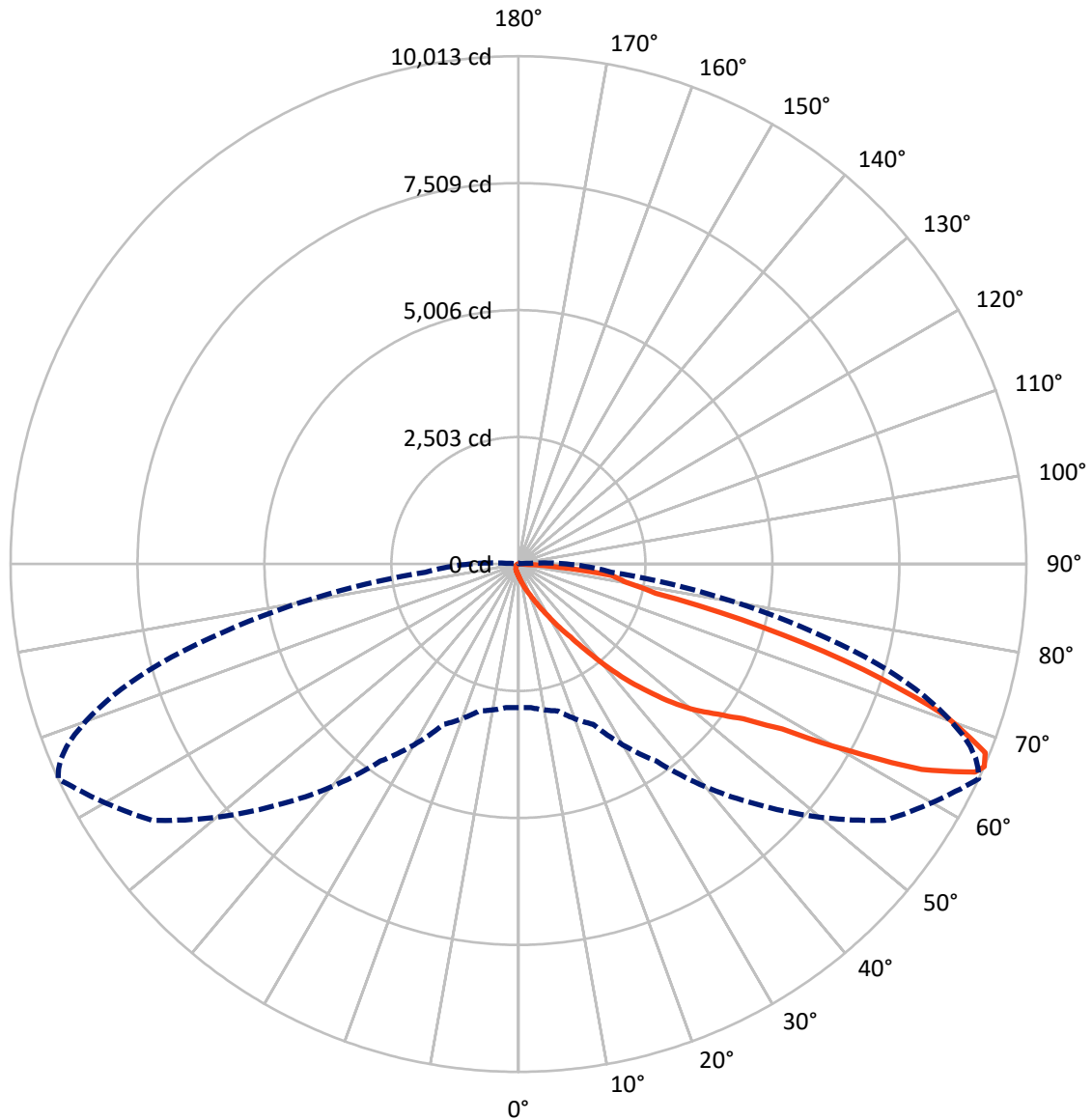
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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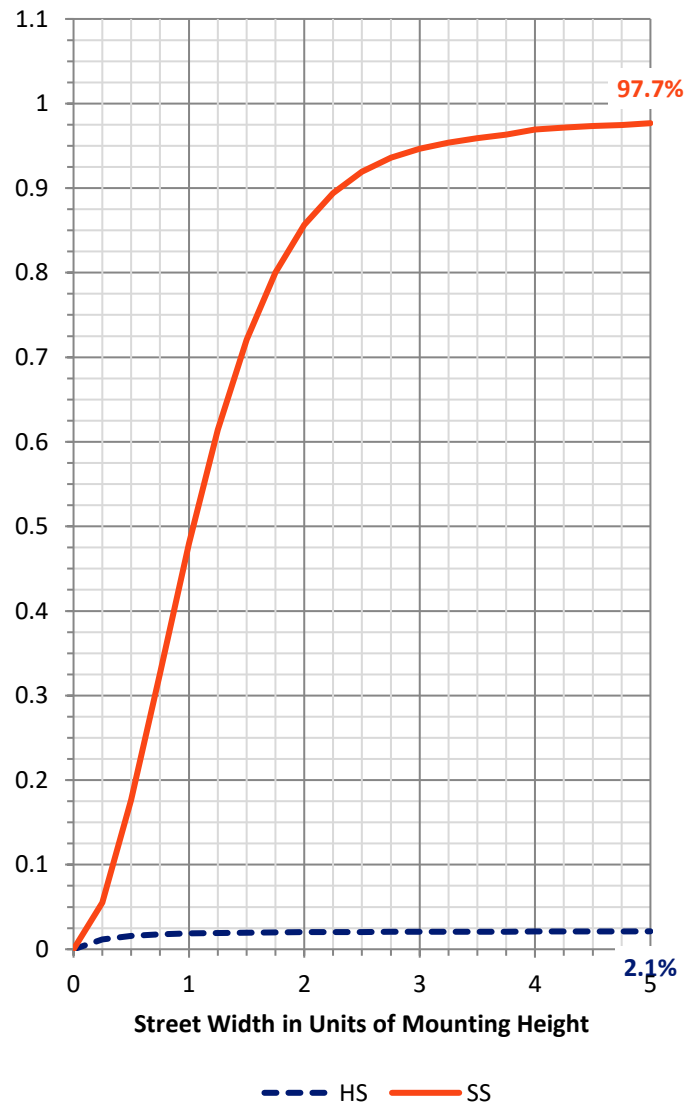
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	169.5	0.0	169.5
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	7653.8	0.0	7653.8
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	7823.3	0.0	7823.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.4	0.3
10°-20°	112.1	1.4
20°-30°	241.7	3.1
30°-40°	516.3	6.6
40°-50°	1141.7	14.6
50°-60°	1934.9	24.7
60°-70°	2581.9	33.0
70°-80°	1137.3	14.5
80°-90°	131.0	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°	7823.3	100.0
0°-180°	7823.3	100.0



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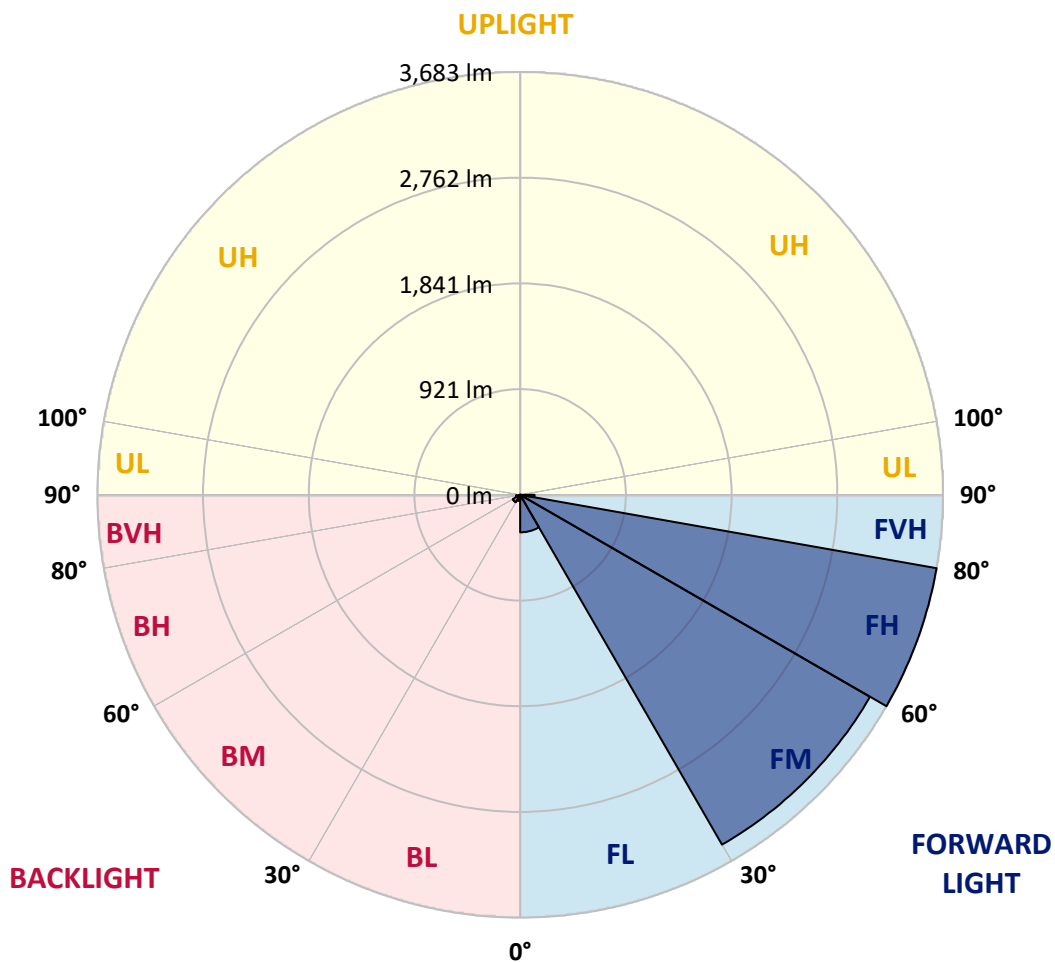
CATALOG NUMBER: VST-E05-LED-E-U-SL3-HSS-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.8	4.2			
FM	(30°-60°)	3518.4	45.0			
FH	(60°-80°)	3682.8	47.1			G2/5000
FVH	(80°-90°)	125.8	1.6			G2/225
BL	(0°-30°)	53.5	0.7	B0/110		
BM	(30°-60°)	74.4	1.0	B0/220		
BH	(60°-80°)	36.4	0.5	B0/110		G0/110
BVH	(80°-90°)	5.2	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°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	297.8	296.3	290.3	290.3	281.2	275.3	267.7	260.2	260.2	258.7	257.2
5°	394.0	385.1	383.5	367.0	353.5	333.9	315.8	291.8	288.8	285.8	284.2
7.5°	500.9	499.3	485.8	466.3	439.2	403.1	367.0	327.9	321.9	318.9	312.8
10°	639.3	631.7	613.7	580.5	540.0	491.8	433.2	371.5	364.0	357.9	354.9
12.5°	771.6	758.1	747.5	705.4	654.2	583.5	512.8	424.2	418.1	410.6	398.6
15°	894.9	882.8	864.9	828.8	771.6	682.8	600.2	491.8	476.8	466.3	457.2
17.5°	991.2	983.7	962.6	922.0	860.3	782.1	682.8	561.0	549.0	535.4	518.9
20°	1083.0	1072.4	1039.3	983.7	917.5	857.3	780.6	651.2	634.7	618.2	600.2
22.5°	1170.2	1159.6	1105.5	1013.7	943.0	917.5	890.4	753.5	727.9	714.4	696.3
25°	1292.0	1269.5	1185.2	1039.3	944.6	964.1	1010.7	885.9	861.8	842.3	813.7
27.5°	1456.0	1425.8	1293.5	1076.9	950.5	1015.3	1149.1	1046.8	1021.2	998.7	967.1
30°	1640.9	1621.4	1463.5	1167.2	994.2	1090.4	1304.0	1251.4	1221.3	1194.2	1156.7
32.5°	1827.4	1800.4	1643.9	1338.6	1111.5	1236.3	1498.1	1489.0	1449.9	1424.4	1383.7
35°	1991.4	1977.9	1862.0	1619.8	1379.3	1492.0	1756.7	1767.2	1732.7	1705.6	1660.5
37.5°	2102.7	2102.7	2080.2	1922.1	1804.9	1889.1	2137.2	2138.8	2104.2	2042.5	2020.0
40°	2159.8	2176.3	2257.6	2287.7	2281.6	2390.0	2636.7	2609.5	2580.9	2549.3	2474.2
42.5°	2277.2	2292.1	2465.1	2672.7	2808.1	2950.9	3120.9	3111.9	3077.4	3020.2	2950.9
45°	2475.7	2495.3	2701.3	3030.7	3308.9	3512.0	3620.2	3578.1	3543.5	3489.5	3453.3
47.5°	2728.4	2766.0	2999.1	3406.7	3742.1	4077.5	4190.3	4079.0	4049.0	4006.8	3948.1
50°	2997.6	3033.7	3281.9	3748.1	4127.2	4527.2	4715.3	4527.2	4483.6	4470.0	4403.9
52.5°	3230.7	3260.8	3500.0	4011.3	4421.9	4891.2	5164.9	4916.7	4885.1	4840.0	4791.9
55°	3369.1	3393.2	3617.2	4137.7	4622.0	5219.1	5599.7	5381.6	5334.9	5316.9	5247.7
57.5°	3415.7	3439.8	3641.3	4154.2	4730.2	5518.4	6127.6	6135.1	6079.4	6014.8	5993.7
60°	3415.7	3442.8	3612.8	4113.6	4835.6	5837.2	6831.4	7458.6	7338.3	7326.3	7249.5
62.5°	3274.4	3299.9	3471.4	3988.8	4976.9	6267.4	7812.1	8919.0	8884.5	8806.2	8679.9
65°	2967.5	2982.5	3151.0	3669.9	4922.8	6663.0	8661.8	9890.7	9835.0	9681.6	9519.2
66°	2829.1	2841.2	2999.1	3487.9	4745.3	6717.1	8812.3	10012.5	9920.8	9791.4	9607.9
67.5°	2629.1	2650.2	2761.4	3149.5	4319.7	6529.1	8717.6	9926.8	9847.1	9690.6	9507.2
70°	1755.3	1740.2	2132.8	2417.0	3290.9	5319.9	7821.1	8913.0	8914.6	8840.9	8767.2
72.5°	833.2	842.3	956.6	1487.5	2153.8	3554.1	6225.3	7114.2	7216.5	7084.1	6992.3
75°	598.6	612.1	681.4	910.0	1284.4	2132.8	4035.4	4975.4	4978.4	4743.8	4534.8
77.5°	174.4	182.0	255.6	561.0	962.6	1439.3	2317.7	2766.0	2701.3	2532.8	2374.9
80°	72.2	72.2	75.2	179.0	386.5	977.7	1621.4	2129.8	2122.3	2057.6	1964.3
82.5°	27.0	28.6	36.1	73.7	91.8	240.7	1081.4	1848.5	1844.0	1752.3	1686.0
85°	3.0	3.0	9.0	31.6	34.6	45.1	216.6	815.2	810.7	815.2	714.4
87.5°	0.0	0.0	1.5	3.0	4.5	6.0	9.0	31.6	34.6	33.1	30.0
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°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	257.2	254.2	254.2	252.7	252.7	252.7	251.2	249.7	249.7	248.2	246.7
5°	281.2	278.2	276.7	273.7	272.3	270.7	267.7	266.2	263.2	261.7	260.2
7.5°	309.8	303.8	302.3	297.8	293.3	290.3	287.2	282.8	279.8	273.7	272.3
10°	346.0	338.4	332.4	326.3	321.9	314.4	309.8	303.8	297.8	293.3	288.8
12.5°	392.6	382.1	373.0	367.0	356.5	347.4	338.4	333.9	321.9	315.8	308.3
15°	443.7	431.6	421.1	409.1	401.6	386.5	374.5	361.0	354.9	344.4	332.4
17.5°	509.8	490.3	473.8	461.8	446.7	431.6	418.1	404.6	386.5	374.5	359.5
20°	580.5	564.0	541.4	520.4	502.3	484.3	464.7	446.7	430.2	410.6	392.6
22.5°	670.9	646.7	619.7	598.6	574.6	555.0	527.9	503.9	476.8	451.2	430.2
25°	785.1	753.5	727.9	697.9	669.3	639.3	606.1	576.1	541.4	517.4	481.3
27.5°	926.5	896.5	861.8	822.7	794.2	749.0	705.4	667.8	627.2	589.6	549.0
30°	1107.0	1063.4	1027.2	989.7	932.5	888.9	837.7	786.7	731.0	693.4	631.7
32.5°	1323.5	1277.0	1222.8	1168.6	1116.0	1054.4	991.2	928.0	866.3	797.2	734.0
35°	1588.3	1532.6	1471.0	1412.3	1331.1	1264.9	1185.2	1097.9	1028.8	949.1	869.3
37.5°	1938.8	1847.0	1792.8	1731.2	1621.4	1531.1	1442.4	1355.1	1233.3	1149.1	1036.3
40°	2377.9	2323.7	2235.1	2135.8	2036.5	1917.7	1797.4	1681.6	1540.2	1422.8	1292.0
42.5°	2893.8	2814.1	2723.9	2580.9	2480.2	2340.3	2203.5	2050.0	1877.0	1726.7	1573.2
45°	3378.1	3283.4	3214.2	3071.3	2966.0	2800.5	2635.1	2472.7	2272.6	2078.6	1901.1
47.5°	3901.6	3823.3	3709.0	3593.2	3486.4	3299.9	3120.9	2923.9	2713.3	2483.2	2253.1
50°	4361.8	4300.1	4221.9	4082.0	3963.2	3806.8	3596.2	3381.1	3114.9	2886.3	2624.6
52.5°	4752.8	4704.7	4594.9	4495.6	4388.8	4241.4	4053.4	3847.4	3560.1	3308.9	3011.1
55°	5214.6	5180.0	5083.7	5022.1	4927.3	4786.0	4610.0	4419.0	4115.1	3841.4	3504.4
57.5°	5971.1	5944.1	5859.8	5834.2	5741.0	5617.7	5401.1	5196.5	4841.6	4501.6	4116.7
60°	7224.0	7169.9	7046.5	6983.4	6786.3	6620.9	6339.7	6058.3	5629.7	5196.5	4733.3
62.5°	8565.6	8413.7	8179.1	7977.6	7697.8	7410.5	7034.4	6604.3	6102.0	5587.6	5055.1
65°	9289.0	9030.4	8734.1	8413.7	8051.3	7628.6	7154.8	6639.0	6099.0	5556.0	4993.5
66°	9371.8	9080.0	8765.7	8409.2	8006.2	7556.4	7075.1	6533.7	5972.6	5443.2	4880.7
67.5°	9268.0	8962.7	8630.3	8234.8	7798.6	7332.3	6826.9	6264.4	5724.4	5187.5	4640.0
70°	8541.6	8237.7	7941.4	7524.8	7060.0	6590.8	6112.5	5483.8	4972.5	4479.1	3991.8
72.5°	6820.9	6614.8	6321.6	5965.1	5512.3	4961.9	4563.3	4000.8	3557.1	3078.8	2701.3
75°	4262.5	3972.3	3609.7	3155.5	2809.6	2362.8	2129.8	1702.6	1449.9	1228.8	1015.3
77.5°	2179.3	1961.3	1707.1	1451.4	1206.3	962.6	744.5	526.5	354.9	246.7	183.5
80°	1800.4	1607.9	1397.2	1164.2	947.6	735.5	529.5	361.0	230.2	150.4	117.3
82.5°	1487.5	1325.1	1137.0	920.5	732.5	577.6	401.6	261.7	162.4	105.3	82.7
85°	633.2	574.6	443.7	351.9	264.7	195.5	136.9	91.8	64.7	52.6	48.1
87.5°	27.0	30.0	28.6	22.6	16.5	16.5	15.1	12.1	12.1	12.1	12.1
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°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	246.7	245.1	243.7	243.7	242.1	240.7	231.6	224.1	215.1	209.1	203.0
5°	257.2	255.6	252.7	251.2	248.2	246.7	227.2	210.5	197.0	186.5	179.0
7.5°	267.7	266.2	261.7	257.2	255.6	252.7	221.1	200.0	182.0	170.0	162.4
10°	281.2	276.7	272.3	266.2	261.7	257.2	215.1	188.0	168.4	157.9	150.4
12.5°	300.8	293.3	285.8	278.2	272.3	264.7	212.1	177.5	157.9	145.9	138.4
15°	323.4	312.8	303.8	294.8	284.2	276.7	206.1	168.4	148.9	136.9	127.9
17.5°	344.4	332.4	318.9	305.3	294.8	284.2	200.0	159.5	139.8	127.9	118.8
20°	374.5	356.5	339.9	323.4	308.3	294.8	191.0	150.4	132.3	118.8	109.8
22.5°	407.6	386.5	365.5	343.0	323.4	305.3	183.5	142.8	124.9	111.3	100.7
25°	449.7	424.2	395.6	367.0	344.4	320.4	176.0	135.4	117.3	103.8	93.3
27.5°	508.4	472.3	440.7	404.6	370.0	343.0	170.0	129.3	109.8	96.3	85.8
30°	588.1	535.4	485.8	446.7	406.1	367.0	163.9	121.8	103.8	88.8	76.7
32.5°	676.8	615.1	558.0	499.3	448.2	403.1	157.9	115.8	96.3	81.2	70.7
35°	786.7	708.4	631.7	564.0	502.3	442.2	151.9	109.8	90.2	73.7	63.2
37.5°	944.6	846.8	746.0	658.8	579.1	499.3	147.4	103.8	82.7	66.2	55.6
40°	1161.1	1034.8	911.4	792.6	688.8	589.6	141.4	97.7	76.7	60.2	49.6
42.5°	1395.8	1242.3	1079.9	946.0	803.2	678.3	135.4	91.8	70.7	54.2	43.7
45°	1687.6	1496.5	1299.5	1117.5	943.0	782.1	129.3	85.8	63.2	48.1	37.6
47.5°	2006.4	1762.8	1540.2	1311.6	1104.0	911.4	121.8	81.2	57.2	42.1	33.1
50°	2334.3	2077.1	1795.8	1535.6	1289.0	1040.9	114.4	73.7	51.1	37.6	27.0
52.5°	2687.7	2383.9	2096.7	1773.3	1486.0	1210.7	106.8	67.7	46.6	33.1	22.6
55°	3137.4	2797.6	2460.7	2098.1	1752.3	1407.8	99.3	60.2	40.6	28.6	18.1
57.5°	3703.0	3299.9	2886.3	2477.2	2057.6	1666.5	93.3	52.6	34.6	24.0	15.1
60°	4236.9	3766.2	3265.3	2794.6	2320.7	1865.1	84.2	46.6	30.0	19.5	15.1
62.5°	4513.7	3976.7	3436.8	2917.9	2412.5	1935.8	75.2	39.1	25.6	16.5	13.5
65°	4446.0	3898.5	3375.1	2851.7	2356.9	1890.6	66.2	34.6	22.6	15.1	13.5
66°	4348.3	3806.8	3280.4	2782.5	2310.2	1842.5	61.7	33.1	21.1	15.1	12.1
67.5°	4134.6	3611.2	3108.9	2645.6	2182.4	1750.7	55.6	30.0	19.5	13.5	12.1
70°	3531.6	3056.3	2654.7	2242.5	1865.1	1475.5	45.1	25.6	16.5	12.1	12.1
72.5°	2337.3	2013.9	1746.2	1502.6	1255.9	974.6	37.6	21.1	13.5	12.1	10.5
75°	881.4	797.2	684.4	615.1	537.0	470.7	30.0	13.5	10.5	10.5	10.5
77.5°	156.5	144.4	127.9	117.3	108.3	99.3	24.0	9.0	9.0	10.5	10.5
80°	105.3	97.7	88.8	81.2	75.2	67.7	16.5	7.5	9.0	9.0	10.5
82.5°	75.2	70.7	66.2	60.2	55.6	49.6	10.5	7.5	9.0	9.0	9.0
85°	45.1	42.1	39.1	36.1	31.6	30.0	7.5	7.5	7.5	9.0	9.0
87.5°	12.1	10.5	12.1	12.1	9.0	10.5	6.0	6.0	6.0	7.5	7.5
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°	236.1	236.1	236.1	236.1	236.1
2.5°	200.0	200.0	197.0	201.6	201.6
5°	173.0	173.0	171.4	173.0	173.0
7.5°	157.9	156.5	156.5	156.5	157.9
10°	144.4	142.8	142.8	142.8	142.8
12.5°	132.3	130.9	129.3	130.9	130.9
15°	121.8	118.8	118.8	118.8	118.8
17.5°	112.8	109.8	108.3	108.3	108.3
20°	103.8	99.3	99.3	99.3	99.3
22.5°	94.7	90.2	90.2	90.2	90.2
25°	85.8	81.2	81.2	81.2	81.2
27.5°	78.2	73.7	73.7	73.7	73.7
30°	69.2	66.2	66.2	67.7	66.2
32.5°	63.2	58.6	58.6	60.2	60.2
35°	55.6	52.6	52.6	52.6	52.6
37.5°	48.1	45.1	45.1	45.1	45.1
40°	42.1	39.1	37.6	39.1	39.1
42.5°	36.1	33.1	31.6	31.6	31.6
45°	31.6	27.0	25.6	27.0	27.0
47.5°	25.6	22.6	22.6	24.0	24.0
50°	19.5	19.5	21.1	24.0	24.0
52.5°	18.1	18.1	21.1	24.0	24.0
55°	16.5	18.1	21.1	22.6	24.0
57.5°	15.1	18.1	21.1	22.6	22.6
60°	15.1	16.5	19.5	22.6	22.6
62.5°	13.5	15.1	18.1	21.1	21.1
65°	13.5	15.1	18.1	21.1	21.1
66°	13.5	15.1	18.1	21.1	21.1
67.5°	13.5	15.1	18.1	21.1	21.1
70°	13.5	15.1	18.1	19.5	19.5
72.5°	12.1	13.5	16.5	19.5	19.5
75°	12.1	13.5	16.5	19.5	19.5
77.5°	12.1	13.5	16.5	19.5	19.5
80°	12.1	13.5	16.5	18.1	19.5
82.5°	10.5	13.5	15.1	18.1	18.1
85°	10.5	12.1	15.1	16.5	18.1
87.5°	9.0	10.5	12.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)