

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: P165278

Luminaire Tested: **VST-E06-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165278  
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-E06-LED-E-U-SL3-HSS-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (126) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

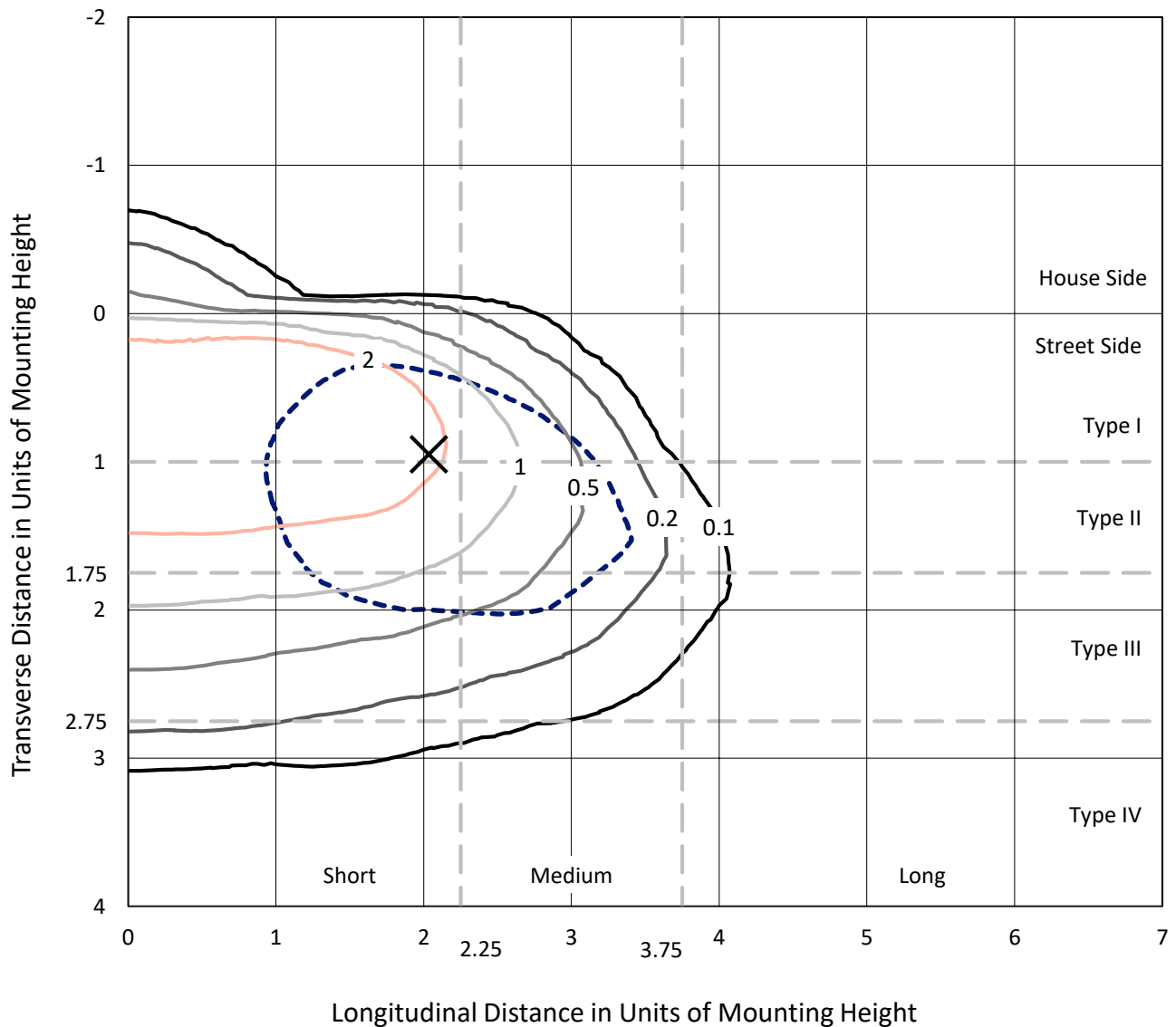
Lumens per Lamp: N/A  
Luminaire Lumens: 10546.9 lumens  
Efficiency: N/A  
Efficacy: 70.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 150.5  
Input Voltage (V): NR  
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

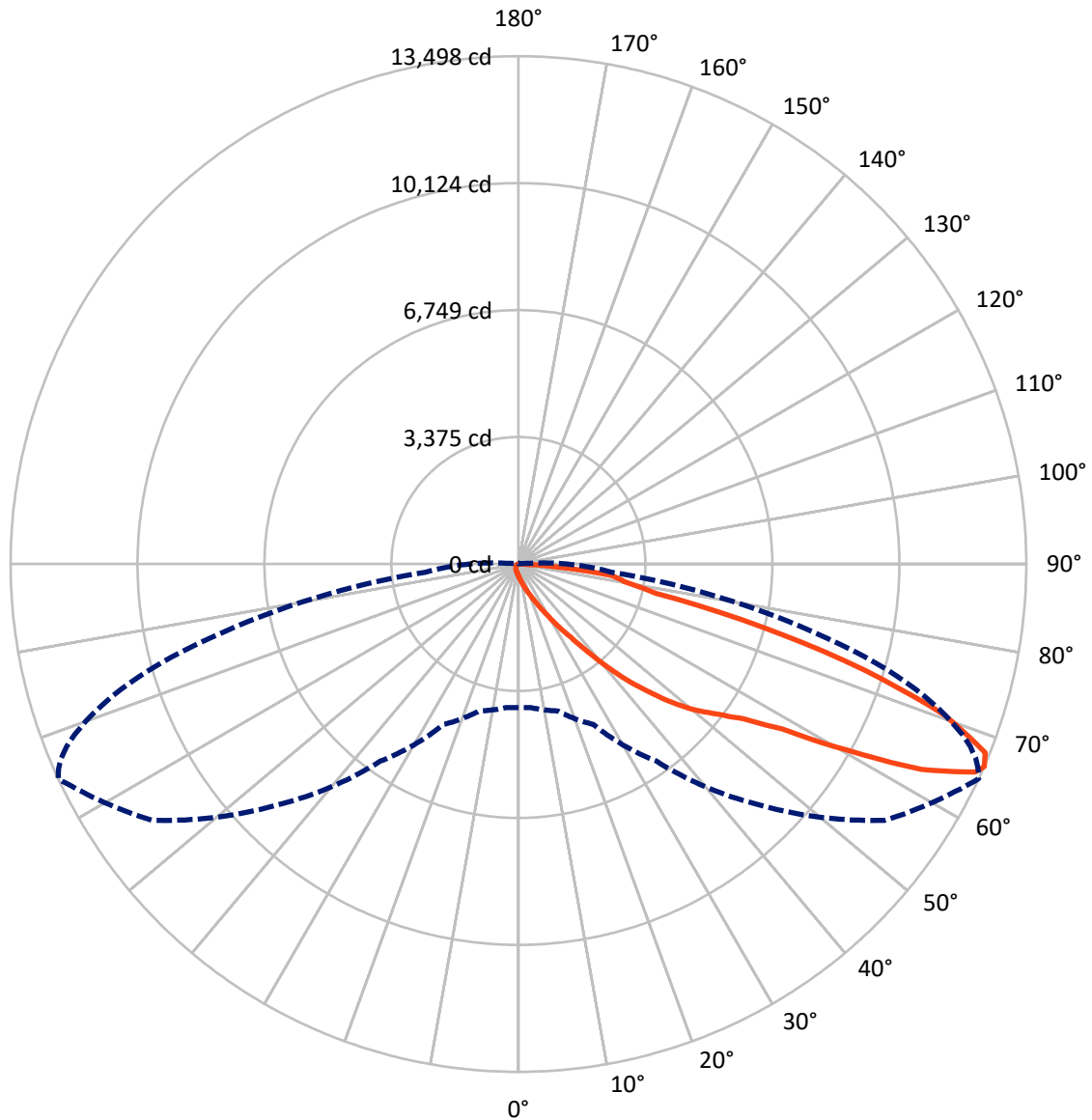
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	228.6	0.0	228.6
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	10318.4	0.0	10318.4
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	10546.9	0.0	10546.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.6	0.3
10°-20°	151.1	1.4
20°-30°	325.9	3.1
30°-40°	696.0	6.6
40°-50°	1539.2	14.6
50°-60°	2608.4	24.7
60°-70°	3480.8	33.0
70°-80°	1533.2	14.5
80°-90°	176.6	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°	10546.9	100.0
0°-180°	10546.9	100.0



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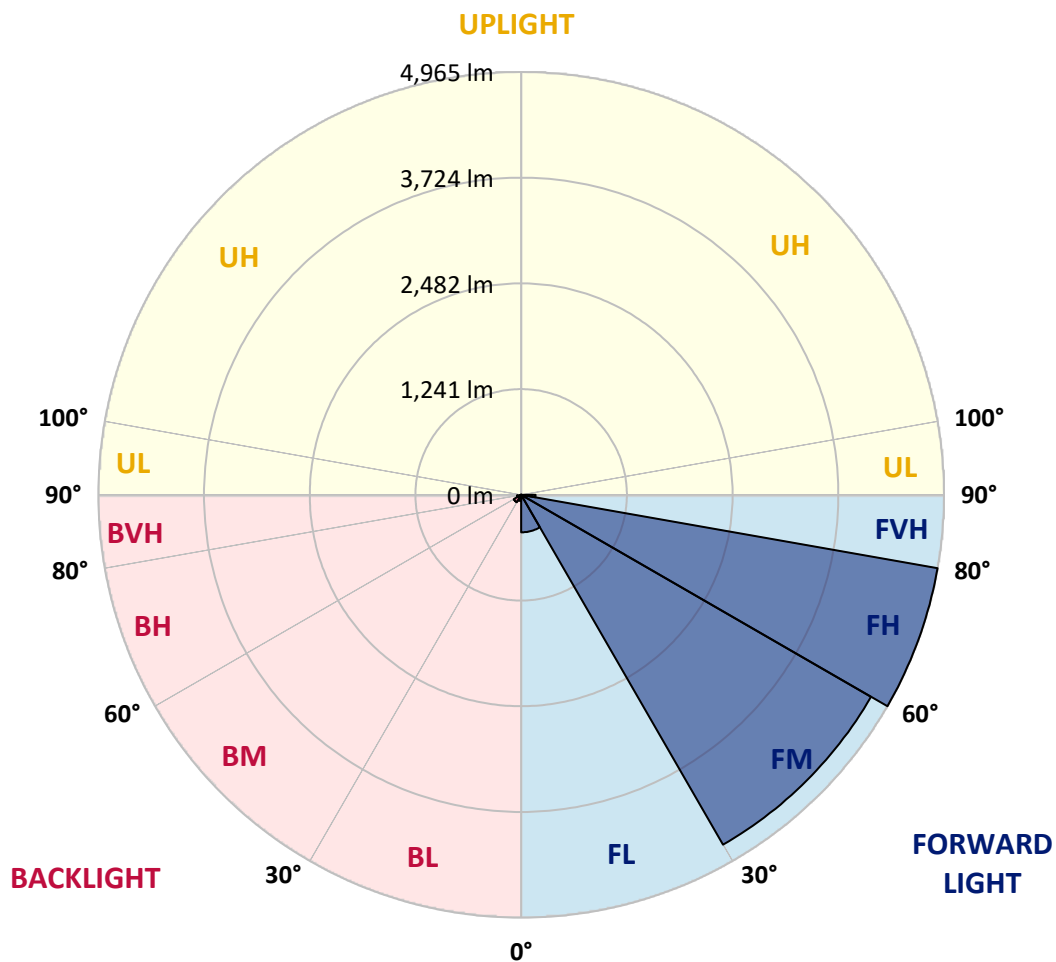
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.5	4.2			
FM	(30°-60°)	4743.3	45.0			
FH	(60°-80°)	4965.0	47.1			G2/5000
FVH	(80°-90°)	169.6	1.6			G2/225
BL	(0°-30°)	72.1	0.7	B0/110		
BM	(30°-60°)	100.4	1.0	B0/220		
BH	(60°-80°)	49.0	0.5	B0/110		G0/110
BVH	(80°-90°)	7.0	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°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	401.5	399.4	391.3	391.3	379.1	371.1	360.9	350.8	350.8	348.7	346.7
5°	531.2	519.1	517.0	494.7	476.5	450.2	425.8	393.4	389.3	385.3	383.2
7.5°	675.3	673.2	654.9	628.6	592.1	543.4	494.7	442.0	433.9	429.9	421.7
10°	861.8	851.6	827.3	782.6	728.0	663.1	584.0	500.8	490.7	482.6	478.5
12.5°	1040.2	1022.0	1007.7	951.0	882.0	786.7	691.4	571.8	563.7	553.6	537.4
15°	1206.5	1190.2	1165.9	1117.3	1040.2	920.5	809.1	663.1	642.8	628.6	616.4
17.5°	1336.2	1326.1	1297.7	1243.0	1159.8	1054.4	920.5	756.3	740.2	721.8	699.5
20°	1460.0	1445.7	1401.1	1326.1	1236.9	1155.7	1052.4	877.9	855.6	833.4	809.1
22.5°	1577.6	1563.3	1490.4	1366.6	1271.3	1236.9	1200.4	1015.8	981.4	963.1	938.8
25°	1741.8	1711.4	1597.8	1401.1	1273.4	1299.8	1362.6	1194.3	1161.9	1135.5	1097.0
27.5°	1962.9	1922.2	1743.8	1451.9	1281.4	1368.7	1549.1	1411.2	1376.7	1346.3	1303.9
30°	2212.2	2185.9	1973.0	1573.5	1340.3	1470.1	1758.0	1687.0	1646.5	1610.0	1559.4
32.5°	2463.6	2427.2	2216.3	1804.6	1498.4	1666.7	2019.6	2007.4	1954.7	1920.3	1865.5
35°	2684.7	2666.4	2510.3	2183.8	1859.4	2011.5	2368.3	2382.5	2335.9	2299.4	2238.6
37.5°	2834.8	2834.8	2804.3	2591.3	2433.2	2546.8	2881.3	2883.4	2836.7	2753.6	2723.2
40°	2911.7	2934.0	3043.6	3084.1	3076.0	3222.0	3554.6	3518.0	3479.5	3436.9	3335.5
42.5°	3069.9	3090.1	3323.4	3603.2	3785.7	3978.3	4207.4	4195.3	4148.7	4071.6	3978.3
45°	3337.6	3364.0	3641.8	4085.8	4460.8	4734.7	4880.6	4823.8	4777.2	4704.3	4655.5
47.5°	3678.2	3728.9	4043.2	4592.7	5044.9	5497.0	5649.1	5499.1	5458.6	5401.7	5322.7
50°	4041.2	4089.9	4424.4	5053.0	5564.0	6103.3	6356.8	6103.3	6044.6	6026.2	5937.1
52.5°	4355.4	4396.1	4718.4	5407.9	5961.3	6594.0	6963.0	6628.5	6585.9	6525.0	6460.2
55°	4542.0	4574.5	4876.5	5578.2	6231.1	7036.0	7549.1	7255.1	7192.2	7167.9	7074.6
57.5°	4604.9	4637.3	4909.1	5600.4	6377.0	7439.6	8260.8	8270.9	8196.0	8108.8	8080.3
60°	4604.9	4641.4	4870.5	5545.8	6519.0	7869.4	9209.7	10055.3	9893.1	9876.8	9773.4
62.5°	4414.3	4448.8	4679.9	5377.4	6709.6	8449.4	10531.8	12024.1	11977.6	11872.1	11701.8
65°	4000.6	4020.9	4248.0	4947.6	6636.6	8982.7	11677.4	13334.0	13259.0	13052.2	12833.3
66°	3814.0	3830.3	4043.2	4702.2	6397.4	9055.7	11880.2	13498.3	13374.7	13200.2	12952.8
67.5°	3544.4	3572.8	3722.8	4246.0	5823.6	8802.1	11752.5	13382.8	13275.3	13064.4	12817.0
70°	2366.4	2346.0	2875.3	3258.5	4436.6	7172.0	10544.0	12016.0	12018.1	11918.7	11819.4
72.5°	1123.3	1135.5	1289.6	2005.3	2903.6	4791.5	8392.6	9590.9	9728.8	9550.4	9426.7
75°	807.0	825.2	918.6	1226.8	1731.6	2875.3	5440.2	6707.5	6711.6	6395.3	6113.5
77.5°	235.2	245.4	344.6	756.3	1297.7	1940.4	3124.6	3728.9	3641.8	3414.6	3201.7
80°	97.3	97.3	101.3	241.3	521.1	1318.0	2185.9	2871.2	2861.1	2773.9	2648.2
82.5°	36.4	38.5	48.6	99.4	123.7	324.5	1457.9	2492.1	2485.9	2362.3	2273.0
85°	4.1	4.1	12.2	42.6	46.7	60.8	291.9	1099.0	1092.9	1099.0	963.1
87.5°	0.0	0.0	2.0	4.1	6.0	8.1	12.2	42.6	46.7	44.6	40.5
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):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	346.7	342.7	342.7	340.7	340.7	340.7	338.6	336.6	336.6	334.6	332.6
5°	379.1	375.1	373.1	369.0	367.1	365.0	360.9	358.9	354.9	352.8	350.8
7.5°	417.7	409.5	407.6	401.5	395.4	391.3	387.3	381.2	377.2	369.0	367.1
10°	466.4	456.2	448.1	440.0	433.9	423.8	417.7	409.5	401.5	395.4	389.3
12.5°	529.2	515.1	502.9	494.7	480.6	468.4	456.2	450.2	433.9	425.8	415.7
15°	598.2	581.9	567.8	551.5	541.4	521.1	504.8	486.6	478.5	464.3	448.1
17.5°	687.3	661.0	638.7	622.6	602.2	581.9	563.7	545.5	521.1	504.8	484.7
20°	782.6	760.3	729.9	701.6	677.2	653.0	626.5	602.2	580.0	553.6	529.2
22.5°	904.4	871.9	835.5	807.0	774.6	748.3	711.7	679.3	642.8	608.3	580.0
25°	1058.4	1015.8	981.4	940.9	902.3	861.8	817.1	776.6	729.9	697.5	648.9
27.5°	1249.1	1208.5	1161.9	1109.2	1070.6	1009.8	951.0	900.3	845.6	794.8	740.2
30°	1492.4	1433.6	1384.9	1334.3	1257.2	1198.3	1129.4	1060.5	985.4	934.8	851.6
32.5°	1784.3	1721.5	1648.5	1575.5	1504.6	1421.4	1336.2	1251.0	1167.9	1074.7	989.5
35°	2141.3	2066.2	1983.1	1904.0	1794.5	1705.3	1597.8	1480.2	1387.0	1279.5	1172.0
37.5°	2613.7	2490.0	2417.0	2333.9	2185.9	2064.2	1944.5	1826.9	1662.7	1549.1	1397.1
40°	3205.8	3132.7	3013.2	2879.3	2745.5	2585.3	2423.1	2267.0	2076.4	1918.2	1741.8
42.5°	3901.2	3793.8	3672.2	3479.5	3343.7	3155.0	2970.6	2763.7	2530.5	2327.8	2121.0
45°	4554.2	4426.5	4333.2	4140.6	3998.6	3775.5	3552.5	3333.6	3063.8	2802.3	2563.0
47.5°	5259.9	5154.3	5000.3	4844.2	4700.2	4448.8	4207.4	3941.8	3657.9	3347.7	3037.4
50°	5880.3	5797.2	5691.7	5503.2	5343.0	5132.0	4848.2	4558.2	4199.3	3891.1	3538.3
52.5°	6407.5	6342.6	6194.6	6060.7	5916.8	5718.0	5464.6	5186.8	4799.6	4460.8	4059.4
55°	7030.0	6983.3	6853.6	6770.4	6642.8	6452.2	6214.9	5957.4	5547.7	5178.7	4724.5
57.5°	8049.9	8013.5	7899.8	7865.3	7739.6	7573.4	7281.4	7005.6	6527.1	6068.8	5549.8
60°	9738.9	9666.0	9499.7	9414.6	9148.9	8925.9	8546.8	8167.5	7589.7	7005.6	6381.1
62.5°	11547.6	11342.9	11026.5	10754.9	10377.7	9990.4	9483.4	8903.6	8226.4	7532.9	6815.0
65°	12523.0	12174.2	11774.8	11342.9	10854.3	10284.4	9645.7	8950.3	8222.3	7490.3	6731.9
66°	12634.5	12241.1	11817.4	11336.8	10793.4	10187.1	9538.2	8808.3	8051.9	7338.2	6579.8
67.5°	12494.6	12083.0	11634.9	11101.6	10513.6	9885.0	9203.7	8445.3	7717.3	6993.4	6255.4
70°	11515.2	11105.6	10706.1	10144.5	9517.9	8885.4	8240.5	7393.0	6703.6	6038.4	5381.5
72.5°	9195.5	8917.8	8522.4	8041.8	7431.4	6689.3	6152.0	5393.7	4795.5	4150.7	3641.8
75°	5746.5	5355.2	4866.4	4254.1	3787.7	3185.4	2871.2	2295.3	1954.7	1656.6	1368.7
77.5°	2938.1	2644.2	2301.5	1956.7	1626.2	1297.7	1003.7	709.7	478.5	332.6	247.4
80°	2427.2	2167.6	1883.7	1569.4	1277.5	991.6	713.8	486.6	310.3	202.8	158.1
82.5°	2005.3	1786.4	1532.9	1240.9	987.5	778.7	541.4	352.8	218.9	142.0	111.6
85°	853.7	774.6	598.2	474.4	356.8	263.6	184.6	123.7	87.2	70.9	64.9
87.5°	36.4	40.5	38.5	30.4	22.3	22.3	20.3	16.3	16.3	16.3	16.3
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°	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3	318.3
2.5°	332.6	330.5	328.5	328.5	326.4	324.5	312.3	302.2	290.0	281.9	273.7
5°	346.7	344.6	340.7	338.6	334.6	332.6	306.2	283.8	265.6	251.4	241.3
7.5°	360.9	358.9	352.8	346.7	344.6	340.7	298.1	269.7	245.4	229.1	218.9
10°	379.1	373.1	367.1	358.9	352.8	346.7	290.0	253.4	227.1	212.9	202.8
12.5°	405.5	395.4	385.3	375.1	367.1	356.8	285.9	239.2	212.9	196.6	186.5
15°	436.0	421.7	409.5	397.5	383.2	373.1	277.8	227.1	200.7	184.6	172.4
17.5°	464.3	448.1	429.9	411.6	397.5	383.2	269.7	215.0	188.5	172.4	160.2
20°	504.8	480.6	458.3	436.0	415.7	397.5	257.5	202.8	178.4	160.2	148.0
22.5°	549.5	521.1	492.8	462.4	436.0	411.6	247.4	192.6	168.3	150.1	135.8
25°	606.3	571.8	533.3	494.7	464.3	431.9	237.3	182.5	158.1	139.9	125.7
27.5°	685.4	636.7	594.1	545.5	498.8	462.4	229.1	174.4	148.0	129.8	115.6
30°	792.9	721.8	654.9	602.2	547.4	494.7	221.0	164.3	139.9	119.7	103.4
32.5°	912.4	829.3	752.2	673.2	604.2	543.4	212.9	156.1	129.8	109.5	95.3
35°	1060.5	955.0	851.6	760.3	677.2	596.1	204.8	148.0	121.7	99.4	85.2
37.5°	1273.4	1141.6	1005.7	888.2	780.7	673.2	198.7	139.9	111.6	89.3	75.0
40°	1565.4	1395.1	1228.7	1068.5	928.7	794.8	190.6	131.8	103.4	81.1	66.9
42.5°	1881.7	1674.9	1455.9	1275.4	1082.8	914.5	182.5	123.7	95.3	73.0	58.9
45°	2275.1	2017.5	1751.9	1506.5	1271.3	1054.4	174.4	115.6	85.2	64.9	50.7
47.5°	2705.0	2376.5	2076.4	1768.2	1488.3	1228.7	164.3	109.5	77.1	56.8	44.6
50°	3147.0	2800.3	2421.0	2070.2	1737.8	1403.2	154.2	99.4	69.0	50.7	36.4
52.5°	3623.4	3213.9	2826.6	2390.6	2003.4	1632.2	143.9	91.2	62.8	44.6	30.4
55°	4229.7	3771.6	3317.3	2828.6	2362.3	1898.0	133.8	81.1	54.8	38.5	24.4
57.5°	4992.2	4448.8	3891.1	3339.6	2773.9	2246.7	125.7	70.9	46.7	32.4	20.3
60°	5712.0	5077.4	4402.1	3767.5	3128.7	2514.4	113.5	62.8	40.5	26.4	20.3
62.5°	6085.1	5361.2	4633.2	3933.7	3252.4	2609.7	101.3	52.7	34.5	22.3	18.2
65°	5993.9	5255.8	4550.1	3844.4	3177.4	2548.8	89.3	46.7	30.4	20.3	18.2
66°	5862.1	5132.0	4422.4	3751.2	3114.5	2484.0	83.1	44.6	28.4	20.3	16.3
67.5°	5574.1	4868.4	4191.2	3566.7	2942.1	2360.2	75.0	40.5	26.4	18.2	16.3
70°	4761.0	4120.3	3578.9	3023.3	2514.4	1989.2	60.8	34.5	22.3	16.3	16.3
72.5°	3151.0	2715.1	2354.2	2025.7	1693.1	1313.9	50.7	28.4	18.2	16.3	14.2
75°	1188.2	1074.7	922.6	829.3	723.9	634.6	40.5	18.2	14.2	14.2	14.2
77.5°	210.9	194.7	172.4	158.1	146.0	133.8	32.4	12.2	12.2	14.2	14.2
80°	142.0	131.8	119.7	109.5	101.3	91.2	22.3	10.1	12.2	12.2	14.2
82.5°	101.3	95.3	89.3	81.1	75.0	66.9	14.2	10.1	12.2	12.2	12.2
85°	60.8	56.8	52.7	48.6	42.6	40.5	10.1	10.1	10.1	12.2	12.2
87.5°	16.3	14.2	16.3	16.3	12.2	14.2	8.1	8.1	8.1	10.1	10.1
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°	318.3	318.3	318.3	318.3	318.3
2.5°	269.7	269.7	265.6	271.8	271.8
5°	233.2	233.2	231.1	233.2	233.2
7.5°	212.9	210.9	210.9	210.9	212.9
10°	194.7	192.6	192.6	192.6	192.6
12.5°	178.4	176.4	174.4	176.4	176.4
15°	164.3	160.2	160.2	160.2	160.2
17.5°	152.1	148.0	146.0	146.0	146.0
20°	139.9	133.8	133.8	133.8	133.8
22.5°	127.7	121.7	121.7	121.7	121.7
25°	115.6	109.5	109.5	109.5	109.5
27.5°	105.4	99.4	99.4	99.4	99.4
30°	93.3	89.3	89.3	91.2	89.3
32.5°	85.2	79.1	79.1	81.1	81.1
35°	75.0	70.9	70.9	70.9	70.9
37.5°	64.9	60.8	60.8	60.8	60.8
40°	56.8	52.7	50.7	52.7	52.7
42.5°	48.6	44.6	42.6	42.6	42.6
45°	42.6	36.4	34.5	36.4	36.4
47.5°	34.5	30.4	30.4	32.4	32.4
50°	26.4	26.4	28.4	32.4	32.4
52.5°	24.4	24.4	28.4	32.4	32.4
55°	22.3	24.4	28.4	30.4	32.4
57.5°	20.3	24.4	28.4	30.4	30.4
60°	20.3	22.3	26.4	30.4	30.4
62.5°	18.2	20.3	24.4	28.4	28.4
65°	18.2	20.3	24.4	28.4	28.4
66°	18.2	20.3	24.4	28.4	28.4
67.5°	18.2	20.3	24.4	28.4	28.4
70°	18.2	20.3	24.4	26.4	26.4
72.5°	16.3	18.2	22.3	26.4	26.4
75°	16.3	18.2	22.3	26.4	26.4
77.5°	16.3	18.2	22.3	26.4	26.4
80°	16.3	18.2	22.3	24.4	26.4
82.5°	14.2	18.2	20.3	24.4	24.4
85°	14.2	16.3	20.3	22.3	24.4
87.5°	12.2	14.2	16.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)