

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: McGRAW-EDISON

Report Number: P165230

Luminaire Tested: **VTS-F12-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165230  
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: MCGRAW-EDISON  
Catalog Number: VTS-F12-LED-E1-SL3-HSS-8030  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

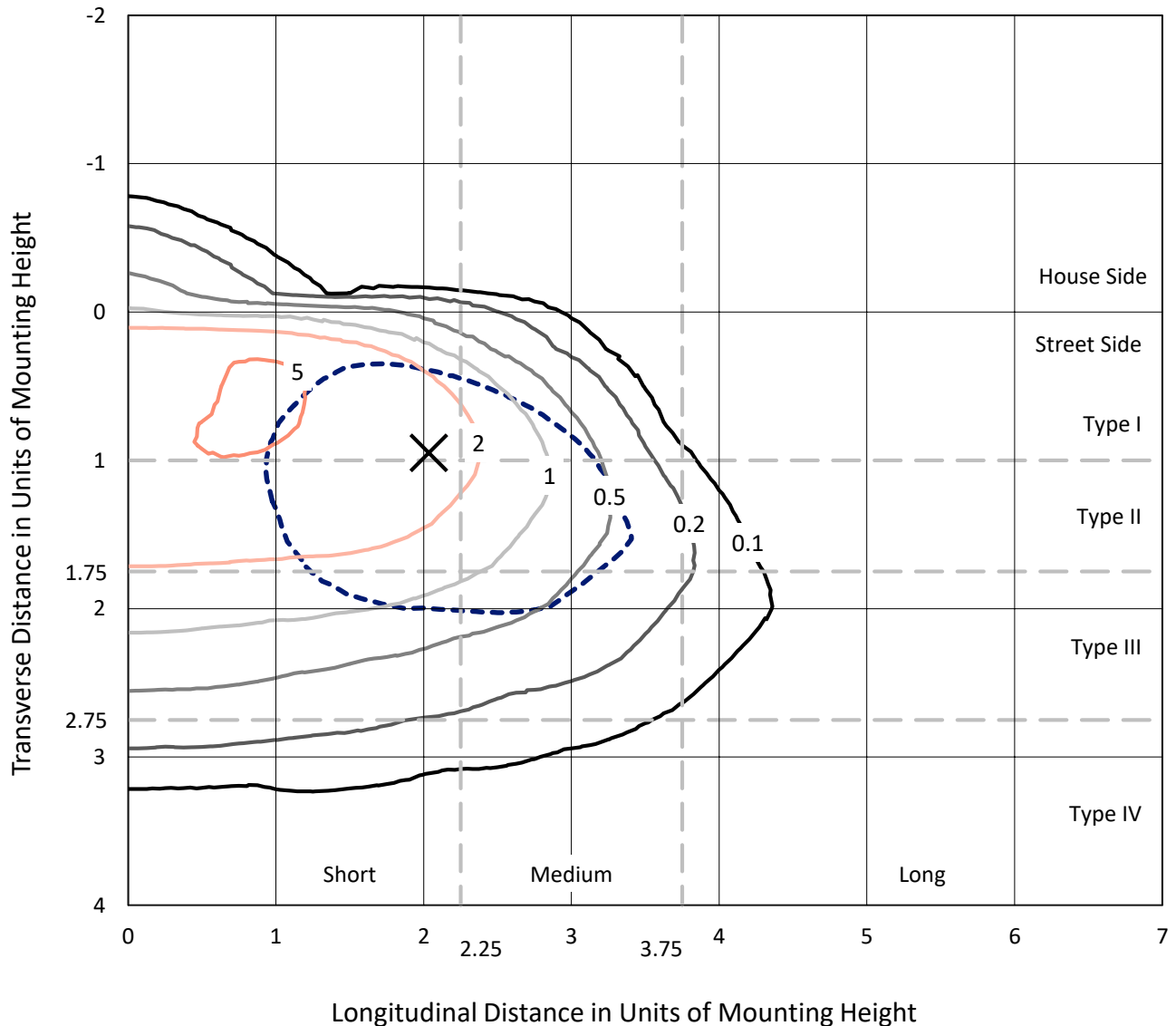
Lumens per Lamp: N/A  
Luminaire Lumens: 14322.9 lumens  
Efficiency: N/A  
Efficacy: 46.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G3  
  
Input Watts (W): 306.6  
Input Voltage (V): NR  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

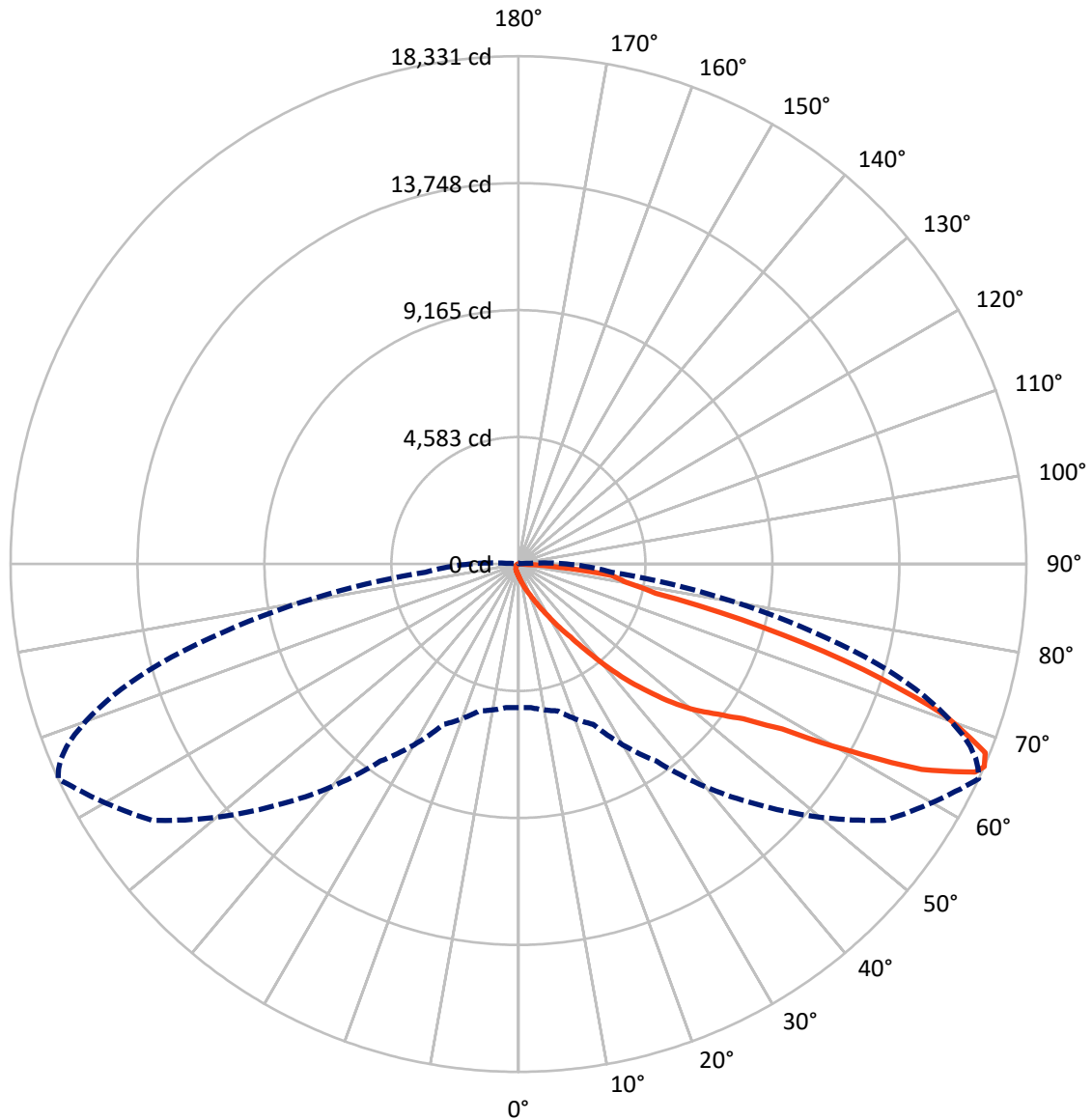


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Short - Non-Cutoff

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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	310.4	0.0	310.4
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	14012.6	0.0	14012.6
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	14322.9	0.0	14322.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	0.3
10°-20°	205.2	1.4
20°-30°	442.6	3.1
30°-40°	945.2	6.6
40°-50°	2090.3	14.6
50°-60°	3542.3	24.7
60°-70°	4727.0	33.0
70°-80°	2082.2	14.5
80°-90°	239.8	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°	14322.9	100.0
0°-180°	14322.9	100.0



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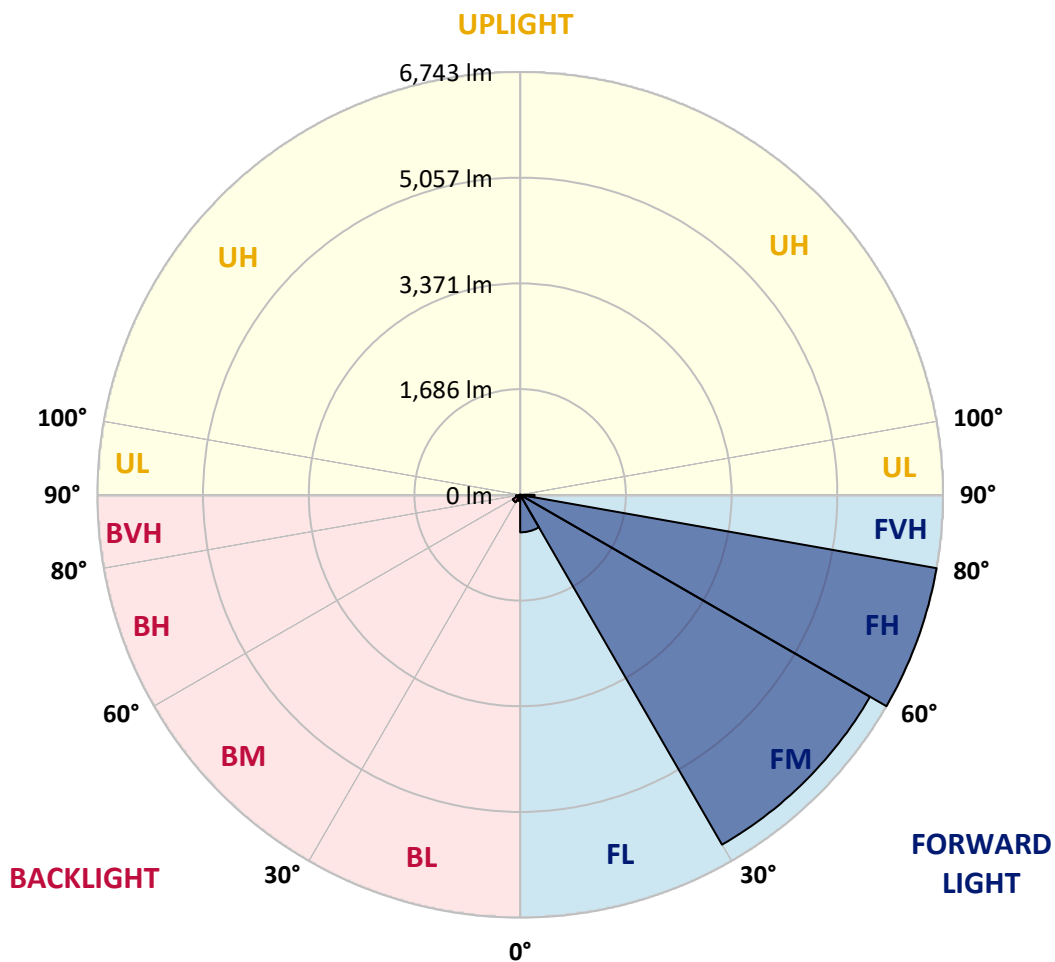
CATALOG NUMBER: VTS-F12-LED-E1-SL3-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	598.3	4.2			
FM	(30°-60°)	6441.5	45.0			
FH	(60°-80°)	6742.5	47.1			G3/7500
FVH	(80°-90°)	230.3	1.6			G3/500
BL	(0°-30°)	97.9	0.7	B0/110		
BM	(30°-60°)	136.3	1.0	B0/220		
BH	(60°-80°)	66.6	0.5	B0/110		G0/110
BVH	(80°-90°)	9.6	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3
2.5°	545.3	542.5	531.4	531.4	514.9	504.0	490.1	476.4	476.4	473.6	470.9
5°	721.4	705.0	702.1	671.9	647.1	611.3	578.2	534.3	528.7	523.2	520.4
7.5°	917.0	914.2	889.4	853.6	804.1	737.9	671.9	600.3	589.3	583.8	572.7
10°	1170.3	1156.5	1123.5	1062.8	988.6	900.5	793.1	680.1	666.4	655.3	649.8
12.5°	1412.6	1387.9	1368.5	1291.4	1197.8	1068.3	938.9	776.6	765.5	751.8	729.7
15°	1638.4	1616.3	1583.4	1517.3	1412.6	1250.1	1098.8	900.5	872.9	853.6	837.1
17.5°	1814.6	1800.9	1762.3	1688.1	1575.0	1431.9	1250.1	1027.0	1005.1	980.2	950.0
20°	1982.7	1963.3	1902.8	1800.9	1679.7	1569.5	1429.2	1192.3	1162.0	1131.7	1098.8
22.5°	2142.4	2123.0	2024.0	1855.9	1726.5	1679.7	1630.2	1379.5	1332.7	1308.0	1274.9
25°	2365.4	2324.1	2169.8	1902.8	1729.4	1765.1	1850.4	1621.8	1577.9	1542.1	1489.7
27.5°	2665.6	2610.4	2368.1	1971.7	1740.2	1858.8	2103.8	1916.5	1869.6	1828.3	1770.7
30°	3004.2	2968.4	2679.3	2136.9	1820.2	1996.4	2387.4	2291.0	2236.0	2186.4	2117.6
32.5°	3345.7	3296.2	3009.7	2450.7	2034.9	2263.4	2742.7	2726.1	2654.6	2607.7	2533.3
35°	3645.8	3621.1	3409.0	2965.6	2525.1	2731.6	3216.2	3235.5	3172.3	3122.6	3040.0
37.5°	3849.7	3849.7	3808.4	3519.1	3304.4	3458.5	3912.9	3915.7	3852.3	3739.5	3698.2
40°	3954.2	3984.4	4133.3	4188.3	4177.2	4375.6	4827.2	4777.5	4725.2	4667.3	4529.7
42.5°	4169.0	4196.5	4513.2	4893.3	5141.1	5402.6	5713.8	5697.2	5634.0	5529.3	5402.6
45°	4532.6	4568.4	4945.6	5548.6	6057.9	6429.8	6628.0	6550.9	6487.5	6388.5	6322.3
47.5°	4995.1	5064.0	5490.7	6237.0	6851.0	7465.0	7671.6	7467.9	7412.9	7335.6	7228.3
50°	5488.0	5554.1	6008.4	6862.1	7556.0	8288.4	8632.7	8288.4	8208.7	8183.7	8062.7
52.5°	5914.8	5970.0	6407.7	7344.0	8095.6	8954.8	9455.9	9001.6	8943.7	8861.1	8773.0
55°	6168.1	6212.3	6622.4	7575.2	8462.0	9555.1	10251.9	9852.6	9767.1	9734.2	9607.4
57.5°	6253.6	6297.5	6666.6	7605.5	8660.1	10103.1	11218.4	11232.1	11130.3	11011.9	10973.3
60°	6253.6	6303.1	6614.2	7531.3	8852.9	10686.8	12507.0	13655.2	13435.0	13412.9	13272.5
62.5°	5994.7	6041.5	6355.4	7302.7	9111.8	11474.4	14302.4	16329.0	16265.8	16122.5	15891.3
65°	5432.9	5460.5	5768.8	6718.9	9012.6	12198.6	15858.1	18107.9	18006.0	17725.1	17427.8
66°	5179.5	5201.6	5490.7	6385.7	8687.7	12297.8	16133.6	18330.9	18163.1	17926.1	17590.2
67.5°	4813.3	4852.0	5055.6	5766.1	7908.5	11953.5	15960.1	18174.1	18028.1	17741.7	17405.7
70°	3213.6	3186.0	3904.7	4425.1	6025.0	9739.7	14318.9	16318.0	16320.8	16185.9	16050.9
72.5°	1525.5	1542.1	1751.3	2723.3	3943.1	6506.9	11397.3	13024.7	13211.9	12969.6	12801.6
75°	1095.9	1120.7	1247.4	1666.0	2351.6	3904.7	7388.0	9109.0	9114.5	8684.9	8302.3
77.5°	319.4	333.3	468.0	1027.0	1762.3	2635.2	4243.3	5064.0	4945.6	4637.1	4348.0
80°	132.1	132.1	137.6	327.7	707.7	1789.9	2968.4	3899.2	3885.4	3767.1	3596.3
82.5°	49.5	52.3	66.1	134.9	168.1	440.6	1979.8	3384.3	3375.9	3208.0	3086.8
85°	5.5	5.5	16.6	57.9	63.4	82.6	396.5	1492.4	1484.2	1492.4	1308.0
87.5°	0.0	0.0	2.7	5.5	8.2	11.0	16.6	57.9	63.4	60.5	55.0
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°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3
2.5°	470.9	465.4	465.4	462.7	462.7	462.7	459.8	457.2	457.2	454.3	451.7
5°	514.9	509.3	506.7	501.1	498.5	495.6	490.1	487.4	481.9	479.1	476.4
7.5°	567.2	556.2	553.5	545.3	536.9	531.4	525.9	517.7	512.2	501.1	498.5
10°	633.4	619.5	608.5	597.5	589.3	575.6	567.2	556.2	545.3	536.9	528.7
12.5°	718.7	699.5	682.9	671.9	652.6	636.1	619.5	611.3	589.3	578.2	564.5
15°	812.3	790.3	771.0	749.0	735.3	707.7	685.6	660.8	649.8	630.6	608.5
17.5°	933.4	897.6	867.4	845.4	817.9	790.3	765.5	740.8	707.7	685.6	658.2
20°	1062.8	1032.6	991.3	952.8	919.7	886.7	850.8	817.9	787.6	751.8	718.7
22.5°	1228.2	1184.1	1134.6	1095.9	1052.0	1016.2	966.5	922.5	872.9	826.0	787.6
25°	1437.4	1379.5	1332.7	1277.7	1225.4	1170.3	1109.6	1054.6	991.3	947.3	881.2
27.5°	1696.2	1641.2	1577.9	1506.3	1453.9	1371.3	1291.4	1222.7	1148.3	1079.4	1005.1
30°	2026.7	1946.9	1880.7	1812.0	1707.3	1627.4	1533.7	1440.2	1338.2	1269.5	1156.5
32.5°	2423.1	2337.9	2238.7	2139.5	2043.2	1930.3	1814.6	1698.9	1586.0	1459.5	1343.8
35°	2907.9	2805.9	2693.0	2585.7	2437.0	2315.8	2169.8	2010.1	1883.5	1737.5	1591.6
37.5°	3549.5	3381.5	3282.3	3169.4	2968.4	2803.2	2640.7	2481.0	2257.9	2103.8	1897.2
40°	4353.5	4254.3	4092.0	3910.2	3728.4	3510.9	3290.7	3078.6	2819.8	2604.9	2365.4
42.5°	5297.9	5152.1	4986.9	4725.2	4540.8	4284.6	4034.1	3753.2	3436.5	3161.2	2880.3
45°	6184.7	6011.3	5884.5	5623.0	5430.2	5127.2	4824.4	4527.1	4160.7	3805.5	3480.6
47.5°	7143.0	6999.7	6790.5	6578.5	6383.0	6041.5	5713.8	5353.1	4967.5	4546.3	4124.9
50°	7985.6	7872.7	7729.4	7473.4	7255.9	6969.4	6584.0	6190.2	5702.8	5284.2	4805.1
52.5°	8701.4	8613.3	8412.3	8230.6	8035.1	7765.2	7421.1	7043.8	6517.9	6057.9	5512.8
55°	9546.9	9483.5	9307.3	9194.4	9021.0	8762.1	8439.9	8090.3	7533.9	7032.8	6415.9
57.5°	10931.9	10882.5	10728.1	10681.3	10510.6	10284.8	9888.3	9513.8	8864.0	8241.6	7536.8
60°	13225.7	13126.7	12900.8	12785.2	12424.4	12121.5	11606.7	11091.6	10306.9	9513.8	8665.7
62.5°	15681.9	15403.8	14974.2	14605.4	14093.2	13567.1	12878.7	12091.3	11171.6	10229.8	9254.9
65°	17006.4	16532.9	15990.4	15403.8	14740.3	13966.4	13099.1	12154.6	11166.1	10171.9	9142.1
66°	17157.9	16623.7	16048.3	15395.6	14657.7	13834.3	12953.1	11961.8	10934.6	9965.4	8935.5
67.5°	16968.0	16409.0	15800.5	15076.2	14277.6	13424.0	12498.8	11468.9	10480.3	9497.2	8494.9
70°	15637.9	15081.6	14539.1	13776.5	12925.5	12066.5	11190.8	10039.8	9103.6	8200.3	7308.2
72.5°	12487.7	12110.5	11573.6	10920.9	10092.0	9084.2	8354.5	7324.8	6512.4	5636.7	4945.6
75°	7803.8	7272.4	6608.7	5777.2	5143.7	4325.9	3899.2	3117.1	2654.6	2249.7	1858.8
77.5°	3990.0	3590.8	3125.4	2657.2	2208.4	1762.3	1363.0	963.8	649.8	451.7	335.9
80°	3296.2	2943.7	2558.1	2131.3	1734.9	1346.6	969.4	660.8	421.4	275.4	214.7
82.5°	2723.3	2426.0	2081.7	1685.2	1341.1	1057.5	735.3	479.1	297.3	192.8	151.5
85°	1159.3	1052.0	812.3	644.3	484.6	358.0	250.7	168.1	118.4	96.3	88.1
87.5°	49.5	55.0	52.3	41.3	30.3	30.3	27.6	22.1	22.1	22.1	22.1
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°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3
2.5°	451.7	448.8	446.1	446.1	443.3	440.6	424.1	410.3	393.8	382.8	371.7
5°	470.9	468.0	462.7	459.8	454.3	451.7	415.9	385.4	360.7	341.5	327.7
7.5°	490.1	487.4	479.1	470.9	468.0	462.7	404.8	366.2	333.3	311.2	297.3
10°	514.9	506.7	498.5	487.4	479.1	470.9	393.8	344.1	308.3	289.1	275.4
12.5°	550.6	536.9	523.2	509.3	498.5	484.6	388.3	324.9	289.1	267.0	253.3
15°	592.1	572.7	556.2	539.8	520.4	506.7	377.2	308.3	272.6	250.7	234.1
17.5°	630.6	608.5	583.8	559.0	539.8	520.4	366.2	292.0	256.0	234.1	217.5
20°	685.6	652.6	622.4	592.1	564.5	539.8	349.6	275.4	242.3	217.5	201.0
22.5°	746.3	707.7	669.2	627.9	592.1	559.0	335.9	261.5	228.6	203.8	184.4
25°	823.4	776.6	724.2	671.9	630.6	586.6	322.2	247.8	214.7	190.0	170.7
27.5°	930.7	864.7	806.8	740.8	677.4	627.9	311.2	236.8	201.0	176.2	157.0
30°	1076.7	980.2	889.4	817.9	743.4	671.9	300.2	223.1	190.0	162.5	140.5
32.5°	1239.1	1126.2	1021.5	914.2	820.5	737.9	289.1	212.0	176.2	148.7	129.4
35°	1440.2	1296.9	1156.5	1032.6	919.7	809.5	278.1	201.0	165.2	134.9	115.7
37.5°	1729.4	1550.3	1365.8	1206.1	1060.2	914.2	269.9	190.0	151.5	121.2	101.8
40°	2125.8	1894.6	1668.7	1451.1	1261.1	1079.4	258.9	178.9	140.5	110.2	90.8
42.5°	2555.4	2274.5	1977.2	1732.0	1470.5	1241.9	247.8	168.1	129.4	99.2	79.9
45°	3089.7	2739.8	2379.2	2045.9	1726.5	1431.9	236.8	157.0	115.7	88.1	68.9
47.5°	3673.4	3227.3	2819.8	2401.2	2021.1	1668.7	223.1	148.7	104.7	77.1	60.5
50°	4273.7	3802.8	3287.8	2811.4	2359.9	1905.6	209.4	134.9	93.6	68.9	49.5
52.5°	4920.7	4364.5	3838.6	3246.5	2720.6	2216.6	195.5	123.9	85.3	60.5	41.3
55°	5744.1	5121.8	4505.0	3841.3	3208.0	2577.5	181.8	110.2	74.4	52.3	33.1
57.5°	6779.5	6041.5	5284.2	4535.2	3767.1	3051.0	170.7	96.3	63.4	44.0	27.6
60°	7757.0	6895.2	5978.2	5116.3	4248.8	3414.6	154.2	85.3	55.0	35.8	27.6
62.5°	8263.7	7280.6	6292.0	5342.1	4416.9	3544.0	137.6	71.6	46.8	30.3	24.7
65°	8139.8	7137.5	6179.2	5220.8	4315.0	3461.4	121.2	63.4	41.3	27.6	24.7
66°	7960.8	6969.4	6005.7	5094.3	4229.6	3373.3	112.9	60.5	38.6	27.6	22.1
67.5°	7569.7	6611.4	5691.7	4843.6	3995.5	3205.2	101.8	55.0	35.8	24.7	22.1
70°	6465.6	5595.4	4860.1	4105.7	3414.6	2701.4	82.6	46.8	30.3	22.1	22.1
72.5°	4279.1	3687.1	3197.0	2750.9	2299.2	1784.4	68.9	38.6	24.7	22.1	19.2
75°	1613.6	1459.5	1253.0	1126.2	983.1	861.8	55.0	24.7	19.2	19.2	19.2
77.5°	286.4	264.4	234.1	214.7	198.3	181.8	44.0	16.6	16.6	19.2	19.2
80°	192.8	178.9	162.5	148.7	137.6	123.9	30.3	13.7	16.6	16.6	19.2
82.5°	137.6	129.4	121.2	110.2	101.8	90.8	19.2	13.7	16.6	16.6	16.6
85°	82.6	77.1	71.6	66.1	57.9	55.0	13.7	13.7	13.7	16.6	16.6
87.5°	22.1	19.2	22.1	22.1	16.6	19.2	11.0	11.0	11.0	13.7	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):**

	145°	155°	165°	175°	180°
0°	432.3	432.3	432.3	432.3	432.3
2.5°	366.2	366.2	360.7	369.0	369.0
5°	316.7	316.7	313.9	316.7	316.7
7.5°	289.1	286.4	286.4	286.4	289.1
10°	264.4	261.5	261.5	261.5	261.5
12.5°	242.3	239.6	236.8	239.6	239.6
15°	223.1	217.5	217.5	217.5	217.5
17.5°	206.5	201.0	198.3	198.3	198.3
20°	190.0	181.8	181.8	181.8	181.8
22.5°	173.4	165.2	165.2	165.2	165.2
25°	157.0	148.7	148.7	148.7	148.7
27.5°	143.1	134.9	134.9	134.9	134.9
30°	126.8	121.2	121.2	123.9	121.2
32.5°	115.7	107.4	107.4	110.2	110.2
35°	101.8	96.3	96.3	96.3	96.3
37.5°	88.1	82.6	82.6	82.6	82.6
40°	77.1	71.6	68.9	71.6	71.6
42.5°	66.1	60.5	57.9	57.9	57.9
45°	57.9	49.5	46.8	49.5	49.5
47.5°	46.8	41.3	41.3	44.0	44.0
50°	35.8	35.8	38.6	44.0	44.0
52.5°	33.1	33.1	38.6	44.0	44.0
55°	30.3	33.1	38.6	41.3	44.0
57.5°	27.6	33.1	38.6	41.3	41.3
60°	27.6	30.3	35.8	41.3	41.3
62.5°	24.7	27.6	33.1	38.6	38.6
65°	24.7	27.6	33.1	38.6	38.6
66°	24.7	27.6	33.1	38.6	38.6
67.5°	24.7	27.6	33.1	38.6	38.6
70°	24.7	27.6	33.1	35.8	35.8
72.5°	22.1	24.7	30.3	35.8	35.8
75°	22.1	24.7	30.3	35.8	35.8
77.5°	22.1	24.7	30.3	35.8	35.8
80°	22.1	24.7	30.3	33.1	35.8
82.5°	19.2	24.7	27.6	33.1	33.1
85°	19.2	22.1	27.6	30.3	33.1
87.5°	16.6	19.2	22.1	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)