

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: P165160

Luminaire Tested: **VTS-F05-LED-E1-SL3-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165160  
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-F05-LED-E1-SL3-HSS-8030  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

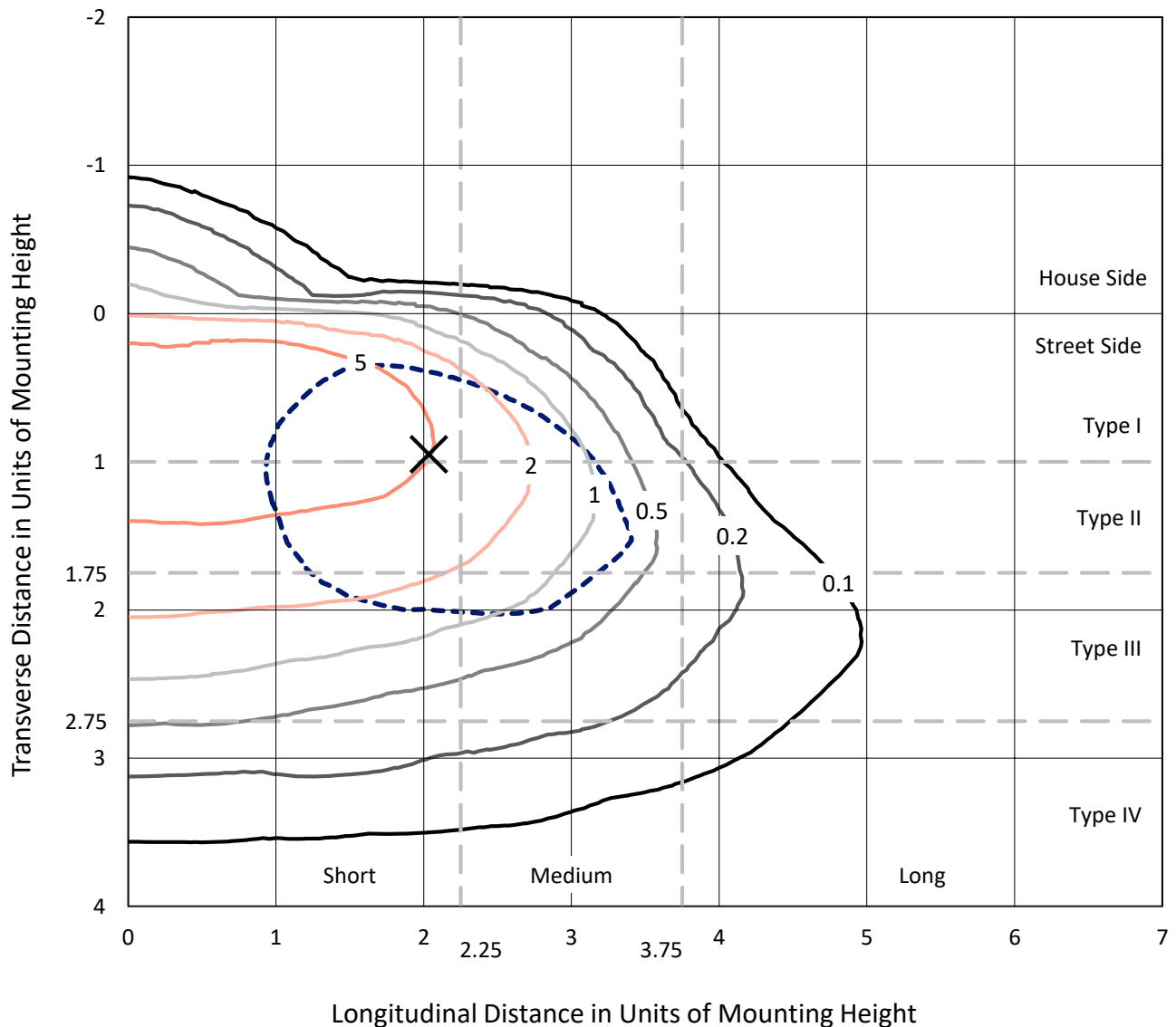
Lumens per Lamp: N/A  
Luminaire Lumens: 5967.9 lumens  
Efficiency: N/A  
Efficacy: 44.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

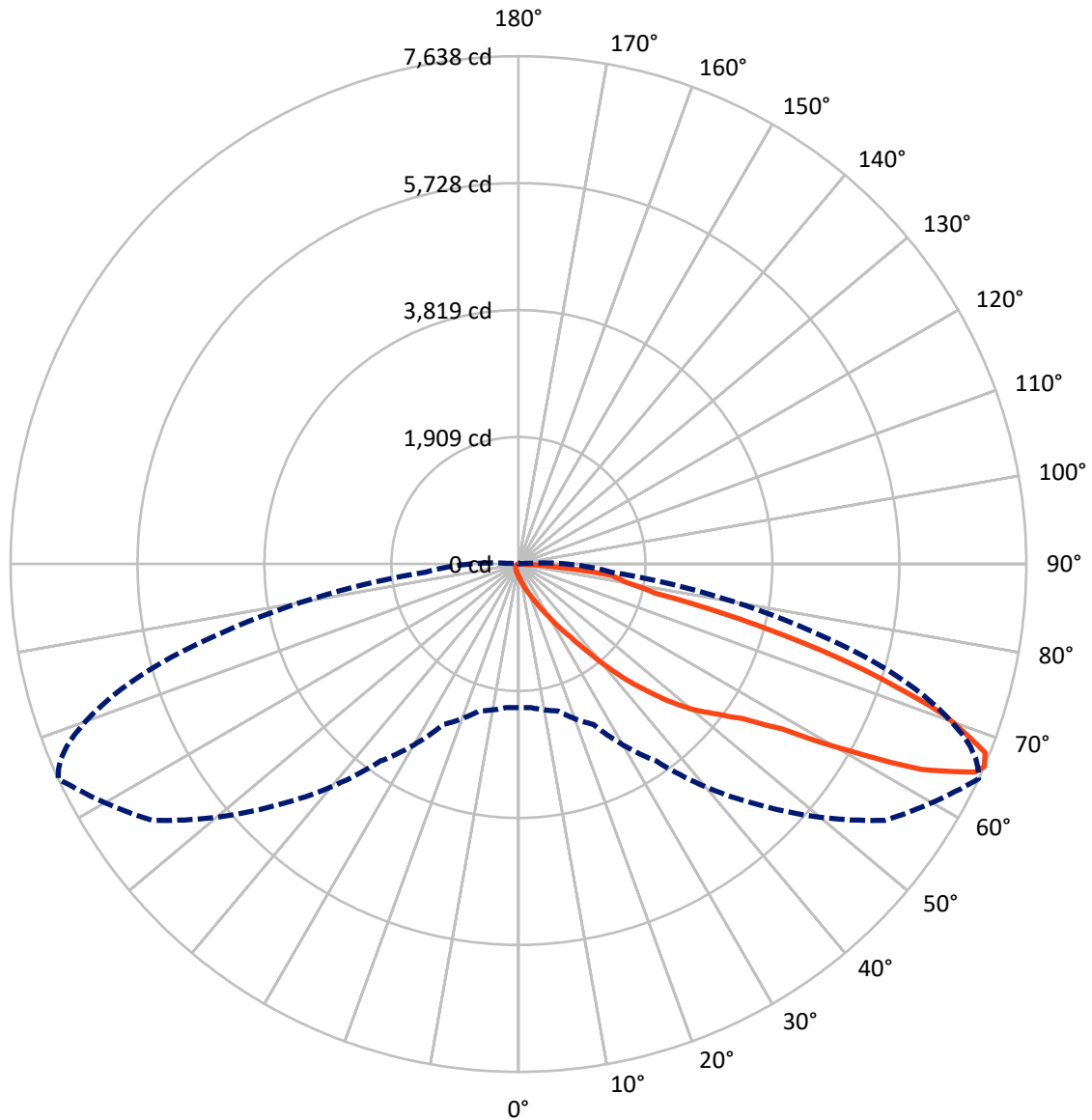


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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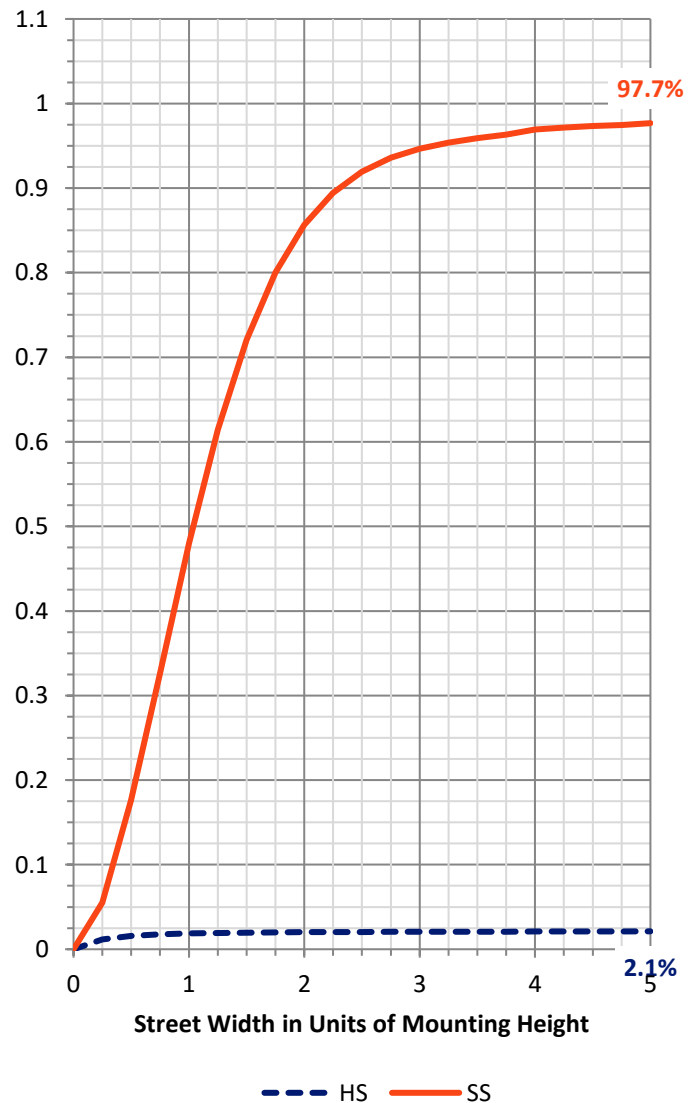
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	129.3	0.0	129.3
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	5838.6	0.0	5838.6
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	5967.9	0.0	5967.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.2	0.3
10°-20°	85.5	1.4
20°-30°	184.4	3.1
30°-40°	393.8	6.6
40°-50°	870.9	14.6
50°-60°	1476.0	24.7
60°-70°	1969.6	33.0
70°-80°	867.6	14.5
80°-90°	99.9	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°	5967.9	100.0
0°-180°	5967.9	100.0



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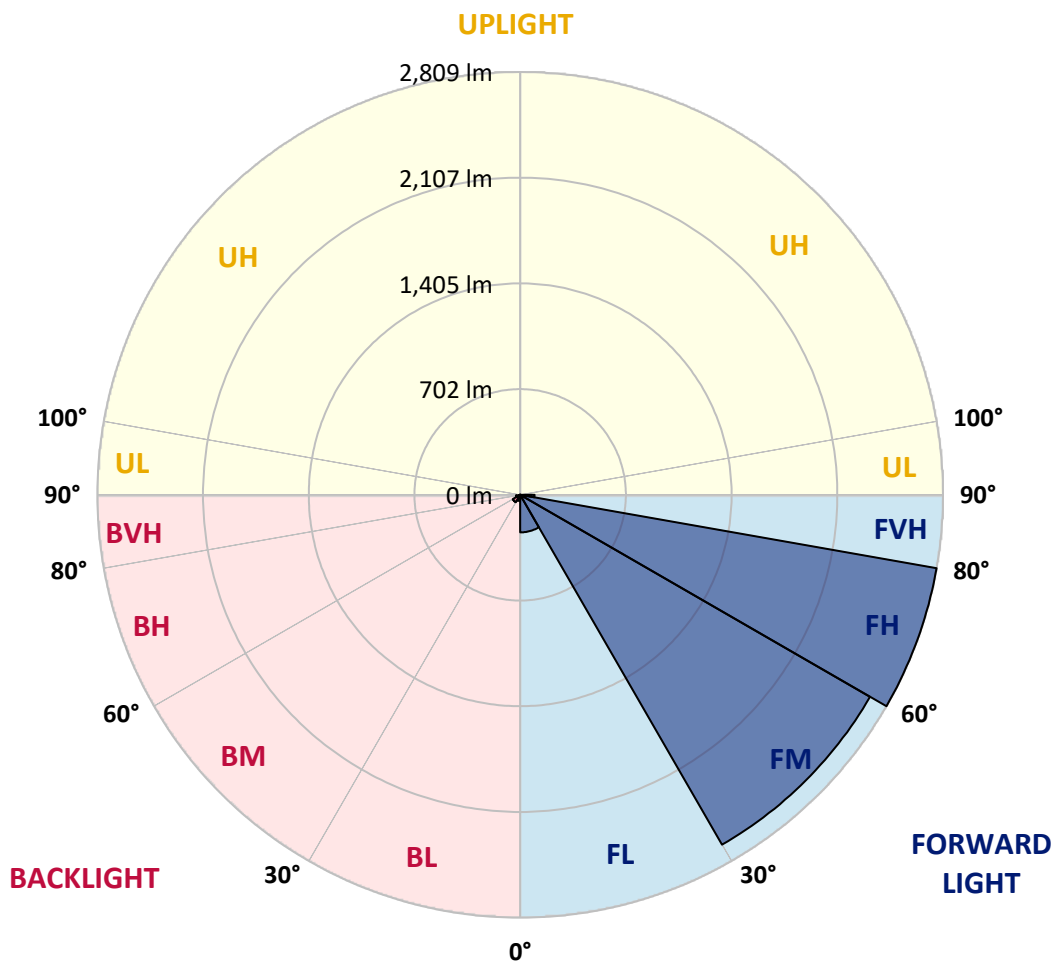
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.3	4.2			
FM	(30°-60°)	2684.0	45.0			
FH	(60°-80°)	2809.4	47.1			G2/5000
FVH	(80°-90°)	95.9	1.6			G1/100
BL	(0°-30°)	40.8	0.7	B0/110		
BM	(30°-60°)	56.8	1.0	B0/220		
BH	(60°-80°)	27.7	0.5	B0/110		G0/110
BVH	(80°-90°)	4.0	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°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1
2.5°	227.2	226.0	221.4	221.4	214.5	210.0	204.2	198.5	198.5	197.3	196.2
5°	300.6	293.7	292.6	279.9	269.6	254.7	240.9	222.6	220.3	218.0	216.8
7.5°	382.1	380.9	370.6	355.7	335.1	307.5	279.9	250.1	245.5	243.2	238.6
10°	487.6	481.9	468.1	442.8	411.9	375.2	330.5	283.4	277.6	273.1	270.8
12.5°	588.6	578.3	570.2	538.1	499.1	445.1	391.2	323.6	319.0	313.3	304.1
15°	682.7	673.5	659.7	632.2	588.6	520.9	457.8	375.2	363.7	355.7	348.8
17.5°	756.1	750.4	734.3	703.4	656.3	596.6	520.9	427.9	418.8	408.4	395.8
20°	826.1	818.0	792.8	750.4	699.9	654.0	595.5	496.8	484.2	471.6	457.8
22.5°	892.7	884.6	843.3	773.3	719.4	699.9	679.2	574.8	555.3	545.0	531.2
25°	985.6	968.4	904.1	792.8	720.6	735.5	771.0	675.8	657.4	642.5	620.7
27.5°	1110.7	1087.7	986.7	821.5	725.1	774.5	876.6	798.5	779.0	761.8	737.8
30°	1251.8	1236.8	1116.4	890.4	758.4	831.8	994.7	954.6	931.7	911.0	882.3
32.5°	1394.0	1373.4	1254.1	1021.1	847.9	943.1	1142.8	1135.9	1106.1	1086.6	1055.6
35°	1519.1	1508.8	1420.4	1235.7	1052.1	1138.2	1340.1	1348.1	1321.8	1301.1	1266.7
37.5°	1604.0	1604.0	1586.8	1466.3	1376.8	1441.1	1630.4	1631.5	1605.1	1558.1	1540.9
40°	1647.6	1660.2	1722.2	1745.1	1740.5	1823.1	2011.3	1990.6	1968.8	1944.7	1887.4
42.5°	1737.1	1748.5	1880.5	2038.9	2142.1	2251.1	2380.7	2373.8	2347.5	2303.9	2251.1
45°	1888.6	1903.5	2060.7	2311.9	2524.1	2679.1	2761.7	2729.5	2703.1	2661.9	2634.3
47.5°	2081.3	2110.0	2287.8	2598.8	2854.6	3110.4	3196.5	3111.6	3088.7	3056.5	3011.8
50°	2286.7	2314.2	2503.5	2859.2	3148.3	3453.5	3597.0	3453.5	3420.3	3409.9	3359.4
52.5°	2464.5	2487.5	2669.9	3060.0	3373.2	3731.2	3940.0	3750.7	3726.6	3692.1	3655.4
55°	2570.0	2588.4	2759.4	3156.4	3525.8	3981.3	4271.6	4105.2	4069.6	4055.9	4003.1
57.5°	2605.7	2624.0	2777.7	3169.0	3608.4	4209.6	4674.3	4680.0	4637.6	4588.3	4572.2
60°	2605.7	2626.3	2755.9	3138.0	3688.7	4452.8	5211.2	5689.7	5597.9	5588.7	5530.2
62.5°	2497.8	2517.3	2648.1	3042.8	3796.6	4781.0	5959.3	6803.8	6777.4	6717.7	6621.4
65°	2263.7	2275.2	2403.7	2799.6	3755.3	5082.8	6607.6	7544.9	7502.5	7385.5	7261.6
66°	2158.1	2167.3	2287.8	2660.7	3619.9	5124.1	6722.3	7637.9	7567.9	7469.2	7329.2
67.5°	2005.6	2021.6	2106.5	2402.6	3295.2	4980.6	6650.1	7572.5	7511.7	7392.4	7252.4
70°	1339.0	1327.5	1626.9	1843.8	2510.4	4058.2	5966.2	6799.2	6800.3	6744.1	6687.9
72.5°	635.6	642.5	729.7	1134.7	1643.0	2711.2	4748.9	5426.9	5505.0	5404.0	5334.0
75°	456.6	467.0	519.8	694.2	979.8	1626.9	3078.3	3795.4	3797.7	3618.7	3459.3
77.5°	133.1	138.9	195.0	427.9	734.3	1098.0	1768.0	2110.0	2060.7	1932.1	1811.7
80°	55.0	55.0	57.3	136.6	294.9	745.8	1236.8	1624.6	1618.9	1569.6	1498.5
82.5°	20.6	21.8	27.5	56.2	70.0	183.6	824.9	1410.1	1406.6	1336.7	1286.2
85°	2.3	2.3	6.9	24.1	26.4	34.4	165.2	621.8	618.4	621.8	545.0
87.5°	0.0	0.0	1.1	2.3	3.4	4.6	6.9	24.1	26.4	25.2	22.9
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°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1
2.5°	196.2	193.9	193.9	192.8	192.8	192.8	191.6	190.5	190.5	189.3	188.2
5°	214.5	212.2	211.1	208.8	207.7	206.5	204.2	203.1	200.8	199.6	198.5
7.5°	236.3	231.7	230.6	227.2	223.7	221.4	219.1	215.7	213.4	208.8	207.7
10°	263.9	258.1	253.5	248.9	245.5	239.8	236.3	231.7	227.2	223.7	220.3
12.5°	299.5	291.4	284.5	279.9	271.9	265.0	258.1	254.7	245.5	240.9	235.2
15°	338.5	329.3	321.3	312.1	306.4	294.9	285.7	275.3	270.8	262.7	253.5
17.5°	388.9	374.0	361.4	352.3	340.8	329.3	319.0	308.7	294.9	285.7	274.2
20°	442.8	430.2	413.0	397.0	383.2	369.5	354.5	340.8	328.2	313.3	299.5
22.5°	511.8	493.4	472.7	456.6	438.3	423.4	402.7	384.4	363.7	344.2	328.2
25°	598.9	574.8	555.3	532.4	510.6	487.6	462.4	439.4	413.0	394.7	367.2
27.5°	706.8	683.8	657.4	627.6	605.8	571.4	538.1	509.5	478.4	449.7	418.8
30°	844.4	811.2	783.6	755.0	711.4	678.1	639.0	600.1	557.6	529.0	481.9
32.5°	1009.6	974.1	932.8	891.5	851.3	804.3	756.1	707.9	660.9	608.1	559.9
35°	1211.6	1169.1	1122.1	1077.4	1015.4	964.9	904.1	837.5	784.8	724.0	663.2
37.5°	1479.0	1408.9	1367.6	1320.6	1236.8	1168.0	1100.3	1033.7	940.8	876.6	790.5
40°	1814.0	1772.6	1705.0	1629.2	1553.5	1462.9	1371.1	1282.8	1174.9	1085.4	985.6
42.5°	2207.5	2146.7	2077.9	1968.8	1892.0	1785.2	1680.9	1563.8	1431.9	1317.2	1200.1
45°	2576.9	2504.7	2451.9	2342.9	2262.6	2136.3	2010.2	1886.3	1733.6	1585.6	1450.3
47.5°	2976.2	2916.5	2829.4	2741.0	2659.6	2517.3	2380.7	2230.5	2069.8	1894.3	1718.7
50°	3327.3	3280.3	3220.6	3113.9	3023.3	2903.9	2743.3	2579.2	2376.1	2201.8	2002.1
52.5°	3625.6	3588.9	3505.1	3429.4	3348.0	3235.5	3092.1	2934.9	2715.8	2524.1	2297.0
55°	3977.9	3951.5	3878.0	3831.0	3758.7	3650.9	3516.6	3370.9	3139.1	2930.3	2673.3
57.5°	4555.0	4534.4	4470.0	4450.5	4379.4	4285.3	4120.1	3964.1	3693.3	3434.0	3140.3
60°	5510.7	5469.4	5375.3	5327.2	5176.8	5050.6	4836.1	4621.5	4294.5	3964.1	3610.7
62.5°	6534.1	6418.3	6239.3	6085.6	5872.2	5653.0	5366.1	5038.0	4654.8	4262.4	3856.2
65°	7086.0	6888.7	6662.7	6418.3	6141.8	5819.3	5457.9	5064.4	4652.5	4238.3	3809.2
66°	7149.1	6926.5	6686.8	6414.8	6107.4	5764.3	5397.1	4984.1	4556.1	4152.3	3723.1
67.5°	7070.0	6837.1	6583.5	6281.8	5949.0	5593.3	5207.8	4778.7	4366.8	3957.2	3539.6
70°	6515.8	6284.0	6058.0	5740.2	5385.6	5027.7	4662.8	4183.3	3793.2	3416.8	3045.1
72.5°	5203.2	5046.0	4822.3	4550.4	4205.0	3785.1	3481.0	3052.0	2713.5	2348.6	2060.7
75°	3251.6	3030.2	2753.6	2407.2	2143.2	1802.5	1624.6	1298.8	1106.1	937.4	774.5
77.5°	1662.5	1496.2	1302.3	1107.2	920.2	734.3	567.9	401.6	270.8	188.2	140.0
80°	1373.4	1226.5	1065.9	888.1	722.9	561.1	403.9	275.3	175.6	114.8	89.5
82.5°	1134.7	1010.8	867.4	702.2	558.8	440.6	306.4	199.6	123.9	80.3	63.1
85°	483.0	438.3	338.5	268.5	201.9	149.2	104.4	70.0	49.3	40.1	36.7
87.5°	20.6	22.9	21.8	17.2	12.6	12.6	11.5	9.2	9.2	9.2	9.2
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°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1
2.5°	188.2	187.0	185.9	185.9	184.7	183.6	176.7	171.0	164.1	159.5	154.9
5°	196.2	195.0	192.8	191.6	189.3	188.2	173.3	160.6	150.3	142.3	136.6
7.5°	204.2	203.1	199.6	196.2	195.0	192.8	168.7	152.6	138.9	129.7	123.9
10°	214.5	211.1	207.7	203.1	199.6	196.2	164.1	143.4	128.5	120.5	114.8
12.5°	229.4	223.7	218.0	212.2	207.7	201.9	161.8	135.4	120.5	111.3	105.6
15°	246.7	238.6	231.7	224.9	216.8	211.1	157.2	128.5	113.6	104.4	97.5
17.5°	262.7	253.5	243.2	232.9	224.9	216.8	152.6	121.7	106.7	97.5	90.6
20°	285.7	271.9	259.3	246.7	235.2	224.9	145.7	114.8	101.0	90.6	83.7
22.5°	311.0	294.9	278.8	261.6	246.7	232.9	140.0	109.0	95.2	84.9	76.8
25°	343.1	323.6	301.8	279.9	262.7	244.4	134.3	103.3	89.5	79.1	71.1
27.5°	387.8	360.3	336.2	308.7	282.2	261.6	129.7	98.7	83.7	73.4	65.4
30°	448.6	408.4	370.6	340.8	309.8	279.9	125.1	92.9	79.1	67.7	58.5
32.5°	516.3	469.3	425.6	380.9	341.9	307.5	120.5	88.3	73.4	61.9	53.9
35°	600.1	540.4	481.9	430.2	383.2	337.3	115.9	83.7	68.8	56.2	48.2
37.5°	720.6	645.9	569.1	502.6	441.7	380.9	112.5	79.1	63.1	50.5	42.4
40°	885.8	789.4	695.3	604.6	525.5	449.7	107.9	74.6	58.5	45.9	37.8
42.5°	1064.8	947.7	823.8	721.7	612.7	517.5	103.3	70.0	53.9	41.3	33.3
45°	1287.4	1141.6	991.3	852.5	719.4	596.6	98.7	65.4	48.2	36.7	28.7
47.5°	1530.6	1344.7	1174.9	1000.5	842.1	695.3	92.9	61.9	43.6	32.1	25.2
50°	1780.7	1584.5	1369.9	1171.4	983.3	794.0	87.2	56.2	39.0	28.7	20.6
52.5°	2050.3	1818.5	1599.4	1352.7	1133.6	923.6	81.4	51.6	35.5	25.2	17.2
55°	2393.4	2134.1	1877.1	1600.5	1336.7	1073.9	75.7	45.9	31.0	21.8	13.8
57.5°	2824.8	2517.3	2201.8	1889.7	1569.6	1271.3	71.1	40.1	26.4	18.3	11.5
60°	3232.1	2873.0	2490.9	2131.8	1770.3	1422.7	64.2	35.5	22.9	14.9	11.5
62.5°	3443.2	3033.6	2621.7	2225.9	1840.4	1476.7	57.3	29.8	19.5	12.6	10.3
65°	3391.6	2973.9	2574.6	2175.3	1797.9	1442.2	50.5	26.4	17.2	11.5	10.3
66°	3317.0	2903.9	2502.4	2122.6	1762.3	1405.5	47.0	25.2	16.1	11.5	9.2
67.5°	3154.1	2754.8	2371.5	2018.2	1664.8	1335.5	42.4	22.9	14.9	10.3	9.2
70°	2694.0	2331.4	2025.1	1710.7	1422.7	1125.6	34.4	19.5	12.6	9.2	9.2
72.5°	1782.9	1536.3	1332.1	1146.2	958.0	743.5	28.7	16.1	10.3	9.2	8.0
75°	672.3	608.1	522.1	469.3	409.6	359.1	22.9	10.3	8.0	8.0	8.0
77.5°	119.4	110.2	97.5	89.5	82.6	75.7	18.3	6.9	6.9	8.0	8.0
80°	80.3	74.6	67.7	61.9	57.3	51.6	12.6	5.7	6.9	6.9	8.0
82.5°	57.3	53.9	50.5	45.9	42.4	37.8	8.0	5.7	6.9	6.9	6.9
85°	34.4	32.1	29.8	27.5	24.1	22.9	5.7	5.7	5.7	6.9	6.9
87.5°	9.2	8.0	9.2	9.2	6.9	8.0	4.6	4.6	4.6	5.7	5.7
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°	180.1	180.1	180.1	180.1	180.1
2.5°	152.6	152.6	150.3	153.8	153.8
5°	132.0	132.0	130.8	132.0	132.0
7.5°	120.5	119.4	119.4	119.4	120.5
10°	110.2	109.0	109.0	109.0	109.0
12.5°	101.0	99.8	98.7	99.8	99.8
15°	92.9	90.6	90.6	90.6	90.6
17.5°	86.0	83.7	82.6	82.6	82.6
20°	79.1	75.7	75.7	75.7	75.7
22.5°	72.3	68.8	68.8	68.8	68.8
25°	65.4	61.9	61.9	61.9	61.9
27.5°	59.6	56.2	56.2	56.2	56.2
30°	52.8	50.5	50.5	51.6	50.5
32.5°	48.2	44.7	44.7	45.9	45.9
35°	42.4	40.1	40.1	40.1	40.1
37.5°	36.7	34.4	34.4	34.4	34.4
40°	32.1	29.8	28.7	29.8	29.8
42.5°	27.5	25.2	24.1	24.1	24.1
45°	24.1	20.6	19.5	20.6	20.6
47.5°	19.5	17.2	17.2	18.3	18.3
50°	14.9	14.9	16.1	18.3	18.3
52.5°	13.8	13.8	16.1	18.3	18.3
55°	12.6	13.8	16.1	17.2	18.3
57.5°	11.5	13.8	16.1	17.2	17.2
60°	11.5	12.6	14.9	17.2	17.2
62.5°	10.3	11.5	13.8	16.1	16.1
65°	10.3	11.5	13.8	16.1	16.1
66°	10.3	11.5	13.8	16.1	16.1
67.5°	10.3	11.5	13.8	16.1	16.1
70°	10.3	11.5	13.8	14.9	14.9
72.5°	9.2	10.3	12.6	14.9	14.9
75°	9.2	10.3	12.6	14.9	14.9
77.5°	9.2	10.3	12.6	14.9	14.9
80°	9.2	10.3	12.6	13.8	14.9
82.5°	8.0	10.3	11.5	13.8	13.8
85°	8.0	9.2	11.5	12.6	13.8
87.5°	6.9	8.0	9.2	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)