

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: P165382

Luminaire Tested: **VTS-F05-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165382  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
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-SL4-HSS  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (35) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

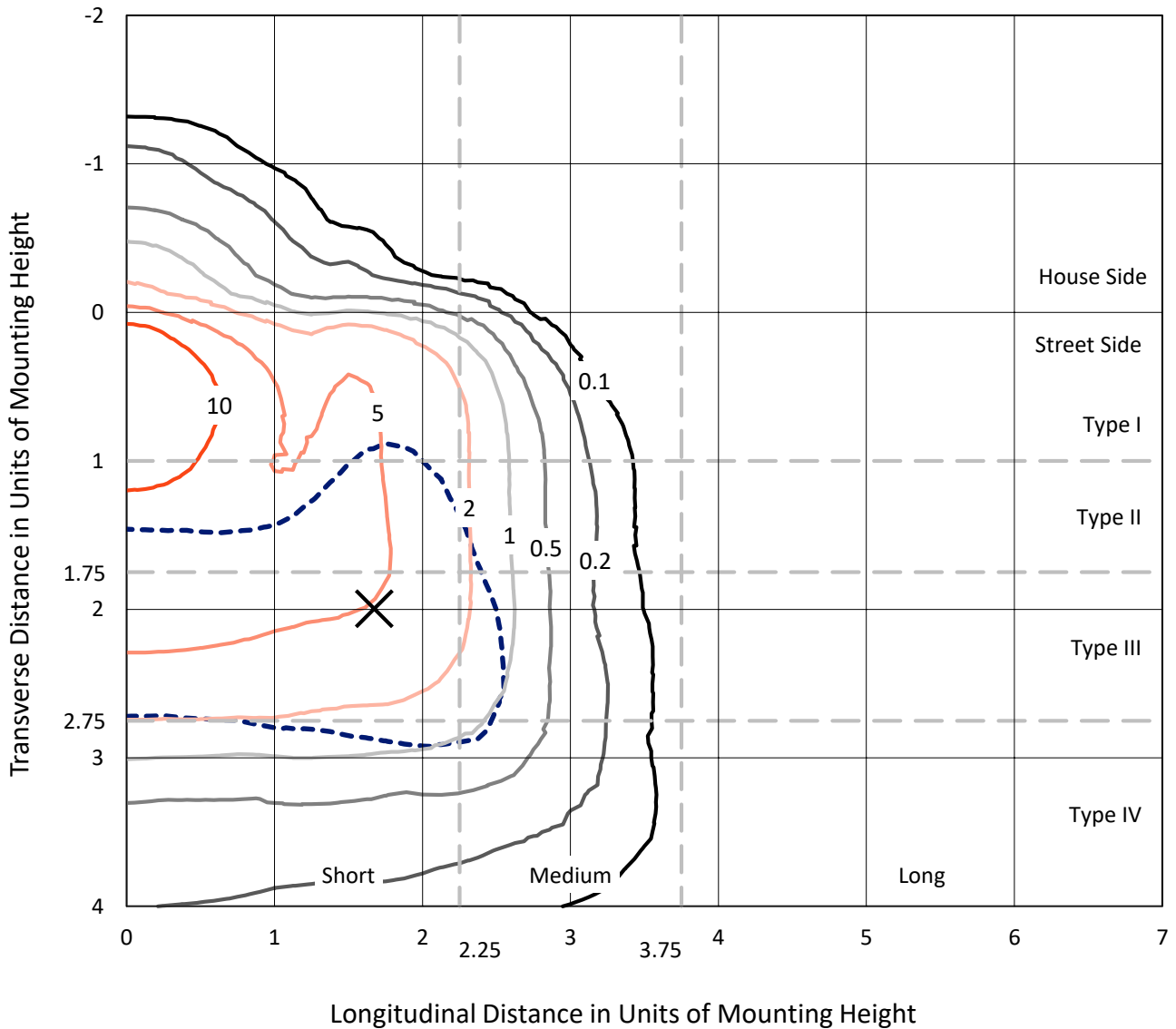
Lumens per Lamp: N/A  
Luminaire Lumens: 8298.5 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

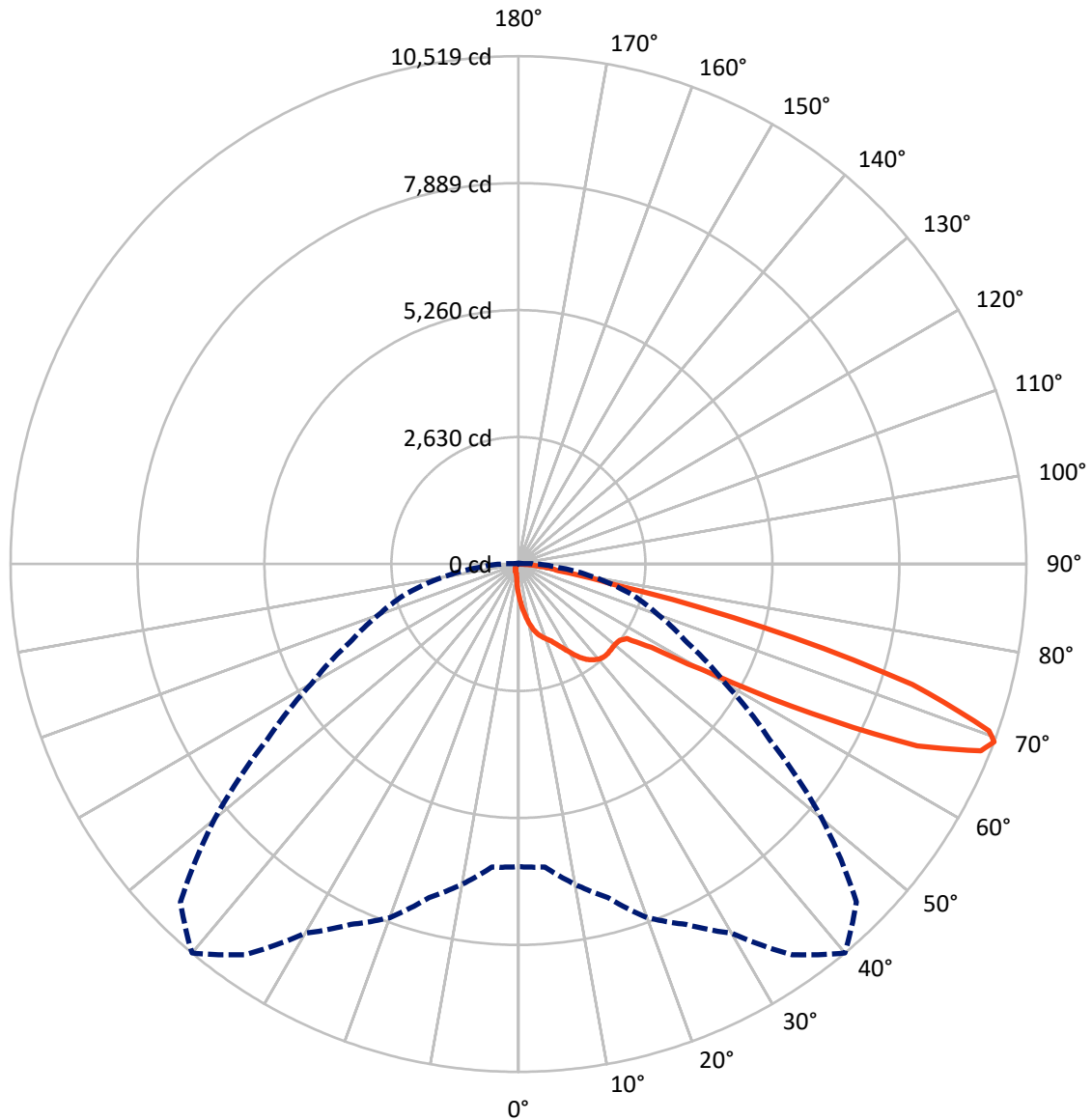


Based on 10 foot mounting height. Maximum calculated value = 18.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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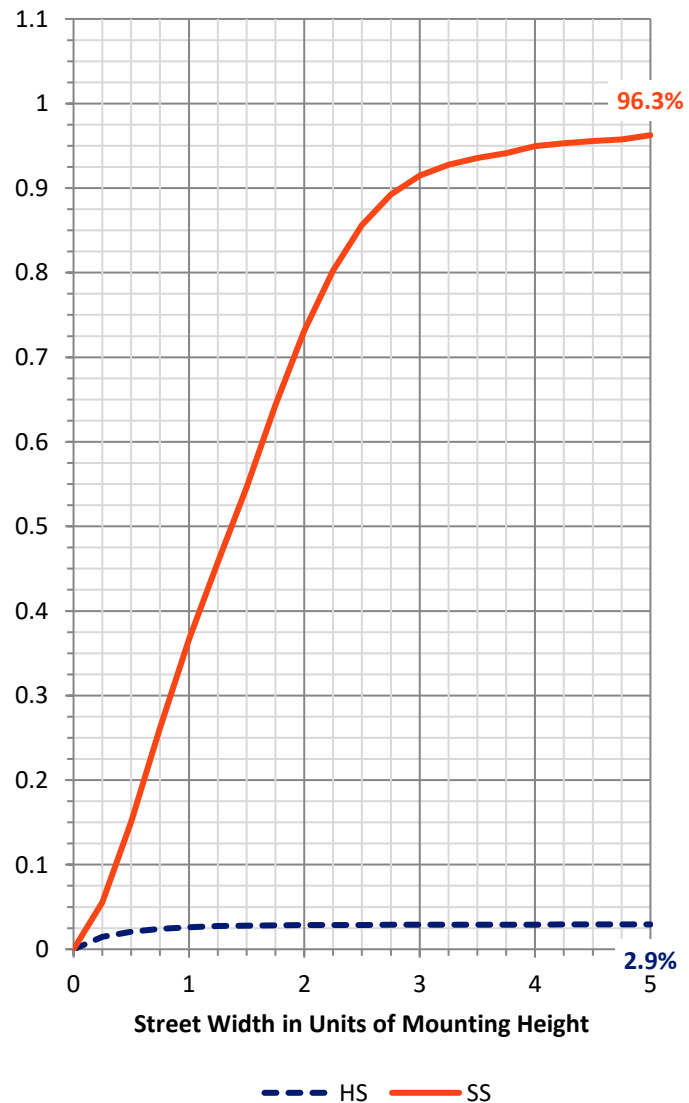
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	247.1	0.0	247.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	8051.4	0.0	8051.4
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	8298.5	0.0	8298.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	0.8
10°-20°	222.1	2.7
20°-30°	425.1	5.1
30°-40°	706.9	8.5
40°-50°	956.5	11.5
50°-60°	1495.9	18.0
60°-70°	3075.6	37.1
70°-80°	1237.6	14.9
80°-90°	114.5	1.4
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°	8298.5	100.0
0°-180°	8298.5	100.0



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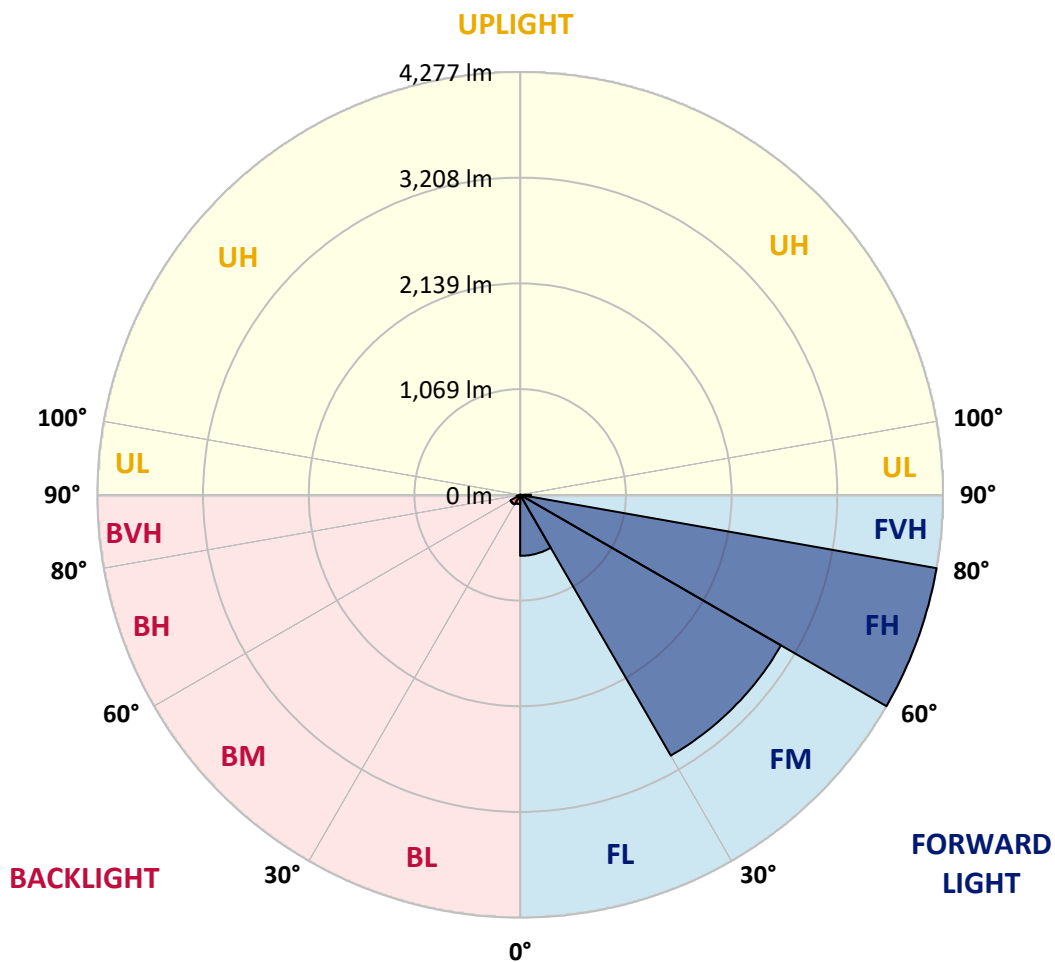
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.6	7.4			
FM (30°-60°)	3046.5	36.7			
FH (60°-80°)	4277.1	51.5			G2/5000
FVH (80°-90°)	110.2	1.3			G2/225
BL (0°-30°)	94.0	1.1	B0/110		
BM (30°-60°)	112.8	1.4	B0/220		
BH (60°-80°)	36.0	0.4	B0/110		G0/110
BVH (80°-90°)	4.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7
2.5°	836.1	826.5	815.6	815.6	802.1	802.1	793.9	772.2	769.5	757.2	745.0
5°	1067.2	1059.0	1045.4	1033.1	1022.3	1003.3	989.6	963.8	935.3	908.1	883.6
7.5°	1292.9	1288.7	1264.3	1260.2	1242.5	1211.3	1184.1	1146.0	1097.0	1059.0	1014.2
10°	1502.2	1492.6	1487.2	1464.1	1438.3	1404.3	1362.1	1316.0	1258.8	1199.0	1135.1
12.5°	1668.1	1662.6	1638.1	1628.6	1601.4	1567.4	1514.4	1454.6	1397.5	1320.0	1245.2
15°	1791.7	1782.2	1765.9	1750.9	1718.3	1688.4	1639.5	1574.2	1504.9	1420.6	1330.9
17.5°	1895.1	1877.4	1873.3	1850.2	1816.2	1780.8	1726.5	1666.7	1585.1	1500.8	1402.9
20°	2033.7	2009.2	2001.1	1967.1	1927.7	1878.7	1816.2	1741.4	1655.8	1563.4	1462.7
22.5°	2196.8	2179.1	2161.5	2131.6	2081.3	2012.0	1920.9	1839.4	1730.5	1628.6	1519.9
25°	2428.0	2413.0	2384.4	2343.7	2281.1	2198.2	2088.1	1968.5	1840.7	1710.2	1582.4
27.5°	2652.2	2638.6	2618.2	2587.0	2516.3	2425.2	2289.3	2137.0	1975.2	1817.6	1676.1
30°	2863.0	2850.7	2830.3	2799.1	2736.5	2646.8	2493.2	2330.0	2128.9	1945.3	1775.5
32.5°	3090.0	3085.9	3062.8	3018.0	2963.6	2842.6	2675.4	2500.0	2296.1	2084.0	1885.5
35°	3346.9	3315.6	3293.9	3249.0	3156.6	3027.4	2831.7	2640.0	2425.2	2207.7	1986.1
37.5°	3564.5	3534.6	3507.3	3450.3	3337.4	3172.9	2951.3	2740.6	2519.0	2297.4	2071.7
40°	3723.4	3708.5	3675.9	3601.1	3474.7	3279.0	3039.7	2809.9	2587.0	2364.1	2141.1
42.5°	3841.7	3818.6	3782.0	3704.5	3555.0	3332.0	3075.0	2838.5	2618.2	2404.8	2186.0
45°	3885.3	3866.3	3832.3	3748.0	3586.2	3346.9	3073.7	2830.3	2619.6	2417.1	2215.9
47.5°	3859.4	3840.4	3810.5	3731.6	3572.6	3329.3	3049.2	2807.2	2606.0	2421.2	2243.0
50°	3773.8	3762.9	3739.8	3673.2	3530.4	3295.2	3027.4	2795.0	2603.3	2441.6	2281.1
52.5°	3765.6	3758.9	3730.3	3663.7	3518.2	3284.4	3024.7	2801.8	2626.4	2467.4	2308.3
55°	4601.6	4505.1	4289.0	4105.5	3803.7	3444.8	3162.0	2911.9	2724.3	2569.4	2457.8
57.5°	6540.2	6396.2	6112.0	5762.7	5069.3	4388.2	3843.1	3448.9	3254.5	3183.8	3225.9
60°	7448.3	7422.5	7377.6	7211.8	6857.0	6271.1	5618.5	4913.0	4630.2	4605.8	4691.4
62.5°	7879.3	7863.0	7876.6	7856.2	7746.1	7574.8	7387.1	7082.7	6802.6	6621.8	6238.4
65°	8077.8	8088.7	8166.1	8227.3	8240.9	8285.7	8423.1	8802.3	9079.6	8613.4	7548.9
67.5°	7573.4	7637.3	7815.4	8038.3	8299.3	8552.2	8960.0	9759.4	10329.0	9781.1	8269.4
69°	6269.7	6301.0	6736.0	7156.1	7793.6	8239.6	8830.9	9879.0	10519.3	9900.8	8212.3
70°	4936.1	4964.6	5431.0	6001.9	7079.9	7653.6	8427.1	9676.5	10341.2	9741.7	7918.7
72.5°	2226.8	2186.0	2350.4	2656.3	3828.1	4739.0	6091.6	7839.8	8531.8	7804.5	5924.4
75°	1555.2	1537.5	1555.2	1556.5	1738.7	2243.0	2830.3	4249.6	5255.5	4535.1	2830.3
77.5°	1204.4	1192.2	1180.0	1166.4	1188.2	1330.9	1388.0	1507.6	1957.6	1851.6	1079.4
80°	953.0	942.1	972.0	962.5	962.5	978.8	967.9	923.0	838.7	777.6	696.0
82.5°	443.1	445.9	445.9	483.9	583.2	681.1	712.3	667.5	592.7	504.3	406.5
85°	42.1	47.6	80.2	123.7	246.1	277.3	278.7	231.1	231.1	182.2	146.8
87.5°	0.0	1.3	1.3	1.3	12.2	34.0	28.6	8.2	4.0	4.0	6.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7
2.5°	723.2	719.1	702.9	686.5	671.6	655.2	640.3	625.3	609.0	596.8	581.8
5°	845.6	815.6	781.7	749.1	716.4	682.5	647.1	615.8	583.2	553.3	524.7
7.5°	969.2	910.8	864.6	806.1	753.1	700.1	651.2	600.9	554.7	511.2	470.4
10°	1073.9	1003.3	931.2	856.5	780.3	709.6	641.7	581.8	520.7	467.7	417.4
12.5°	1159.6	1069.9	981.5	887.7	802.1	712.3	628.1	556.0	483.9	424.2	372.5
15°	1237.0	1133.8	1027.7	919.0	810.3	708.3	614.4	524.7	451.3	383.4	324.9
17.5°	1299.6	1181.3	1061.7	939.4	822.5	702.9	596.8	503.0	417.4	346.6	289.6
20°	1354.0	1230.3	1101.2	963.8	830.6	701.4	581.8	475.8	387.4	312.7	256.9
22.5°	1404.3	1280.6	1141.9	995.1	842.9	700.1	568.2	455.4	361.6	286.9	231.1
25°	1461.4	1330.9	1185.5	1027.7	864.6	705.6	560.1	439.1	338.5	262.4	210.7
27.5°	1525.3	1388.0	1237.0	1068.5	893.1	716.4	557.4	421.4	318.1	239.2	194.4
30°	1615.0	1456.0	1288.7	1109.3	919.0	728.7	554.7	410.5	297.7	221.6	178.1
32.5°	1693.9	1522.6	1345.9	1151.4	947.5	740.9	553.3	395.6	278.7	203.9	165.8
35°	1776.8	1583.8	1394.8	1192.2	972.0	754.4	551.9	384.7	261.0	186.2	153.6
37.5°	1848.8	1635.4	1432.9	1227.6	999.2	766.7	553.3	375.2	244.7	171.3	142.7
40°	1910.0	1688.4	1475.0	1260.2	1027.7	785.7	554.7	365.7	228.4	157.7	133.2
42.5°	1964.4	1738.7	1519.9	1296.9	1060.4	807.5	562.8	357.5	214.8	145.5	123.7
45°	2006.5	1784.9	1568.7	1348.6	1113.4	842.9	577.8	352.1	201.2	134.6	115.6
47.5°	2050.0	1852.9	1651.7	1430.1	1190.9	898.6	603.6	350.8	190.3	126.4	108.7
50°	2109.9	1920.9	1725.1	1513.0	1261.6	955.7	634.8	352.1	176.7	118.3	102.0
52.5°	2153.4	1990.2	1820.3	1657.2	1430.1	1129.6	755.9	376.5	169.9	111.4	93.8
55°	2410.3	2381.7	2385.8	2413.0	2237.7	1922.2	1264.3	543.8	199.9	126.4	92.5
57.5°	3398.6	3499.2	3557.6	3556.3	3266.7	2709.4	1697.9	698.7	223.0	146.8	110.1
60°	4698.2	4622.1	4514.7	4249.6	3864.9	3092.7	1899.1	751.8	193.0	116.9	100.6
62.5°	5846.9	5401.0	5005.4	4575.9	4071.5	3225.9	1939.9	747.7	168.6	88.3	70.7
65°	6563.3	5761.3	5122.4	4584.0	3989.9	3114.5	1835.2	686.5	142.7	72.1	58.4
67.5°	6734.6	5566.8	4662.9	3976.3	3333.3	2423.9	1347.2	516.6	111.4	59.9	51.7
69°	6360.8	4948.4	3863.5	3084.6	2425.2	1608.2	833.4	326.2	85.6	54.4	47.6
70°	5851.0	4304.0	3147.1	2475.5	1795.8	1129.6	583.2	229.7	69.3	50.3	43.5
72.5°	3764.3	2260.7	1547.0	1076.6	740.9	450.0	228.4	103.4	53.0	42.1	35.3
75°	1460.0	836.1	606.3	460.8	360.3	250.1	138.7	66.6	44.8	35.3	27.2
77.5°	719.1	550.5	450.0	308.6	179.5	111.4	74.8	51.7	36.7	25.8	17.7
80°	568.2	377.9	225.7	140.0	106.0	80.2	57.1	42.1	27.2	16.3	12.2
82.5°	290.9	159.1	116.9	95.2	78.8	62.6	46.2	29.9	17.7	10.9	9.5
85°	91.1	66.6	59.9	58.4	54.4	44.8	32.6	19.1	10.9	6.8	6.8
87.5°	6.8	9.5	12.2	9.5	10.9	9.5	12.2	8.2	5.4	5.4	4.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7	626.7
2.5°	570.9	554.7	539.7	530.2	512.5	505.7	498.9	496.2	483.9	486.6	475.8
5°	498.9	470.4	448.6	426.9	406.5	391.5	379.2	364.3	352.1	346.6	335.7
7.5°	433.6	397.0	368.4	345.3	320.8	301.8	285.5	274.6	263.8	252.9	247.4
10°	376.5	337.1	304.5	281.4	258.3	242.0	229.7	221.6	214.8	210.7	209.4
12.5°	323.5	285.5	255.6	235.2	217.5	209.4	203.9	199.9	198.5	197.1	197.1
15°	282.7	244.7	221.6	206.6	198.5	194.4	193.0	190.3	187.6	186.2	186.2
17.5°	244.7	216.1	199.9	191.7	187.6	184.9	182.2	179.5	176.7	175.3	175.3
20°	218.8	195.7	187.6	182.2	178.1	175.3	171.3	168.6	167.3	165.8	164.5
22.5°	198.5	183.5	178.1	174.0	168.6	164.5	161.8	159.1	156.4	155.0	153.6
25°	183.5	174.0	169.9	164.5	159.1	155.0	150.9	146.8	144.1	142.7	140.0
27.5°	172.6	165.8	160.4	153.6	148.2	144.1	140.0	136.0	133.2	130.5	129.1
30°	163.1	156.4	149.5	144.1	137.3	133.2	127.8	123.7	122.3	119.6	116.9
32.5°	153.6	146.8	140.0	133.2	126.4	121.0	118.3	112.8	110.1	108.7	106.0
35°	142.7	136.0	127.8	122.3	115.6	110.1	106.0	102.0	99.2	96.5	95.2
37.5°	133.2	125.1	116.9	110.1	104.7	99.2	95.2	91.1	88.3	85.6	84.3
40°	122.3	114.2	106.0	99.2	93.8	89.7	85.6	81.6	78.8	77.5	77.5
42.5°	112.8	103.4	95.2	89.7	85.6	80.2	76.1	72.1	70.7	69.3	70.7
45°	103.4	93.8	87.0	81.6	77.5	72.1	67.9	65.2	63.9	65.2	66.6
47.5°	95.2	85.6	78.8	74.8	70.7	66.6	62.6	59.9	59.9	62.6	65.2
50°	87.0	77.5	72.1	69.3	65.2	61.2	55.7	54.4	55.7	58.4	61.2
52.5°	78.8	67.9	63.9	62.6	58.4	54.4	50.3	49.0	50.3	53.0	51.7
55°	70.7	59.9	58.4	57.1	53.0	47.6	43.5	43.5	43.5	42.1	39.5
57.5°	67.9	53.0	51.7	50.3	46.2	40.8	38.1	35.3	34.0	29.9	28.6
60°	70.7	47.6	47.6	44.8	40.8	35.3	31.3	27.2	24.4	21.7	21.7
62.5°	57.1	43.5	42.1	39.5	34.0	28.6	24.4	20.4	19.1	17.7	17.7
65°	46.2	39.5	36.7	32.6	28.6	23.1	19.1	16.3	14.9	14.9	16.3
67.5°	42.1	35.3	31.3	27.2	23.1	17.7	14.9	13.6	13.6	14.9	14.9
69°	39.5	32.6	28.6	24.4	20.4	16.3	13.6	13.6	13.6	13.6	14.9
70°	36.7	31.3	27.2	23.1	17.7	13.6	12.2	12.2	13.6	13.6	14.9
72.5°	28.6	24.4	23.1	19.1	13.6	12.2	10.9	12.2	12.2	13.6	13.6
75°	21.7	17.7	17.7	14.9	10.9	9.5	9.5	10.9	10.9	12.2	12.2
77.5°	14.9	12.2	12.2	10.9	9.5	8.2	8.2	9.5	10.9	10.9	12.2
80°	10.9	9.5	8.2	9.5	8.2	6.8	8.2	9.5	9.5	10.9	10.9
82.5°	8.2	8.2	8.2	8.2	6.8	6.8	8.2	8.2	9.5	10.9	10.9
85°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.2	8.2	9.5	9.5
87.5°	4.0	4.0	4.0	5.4	5.4	6.8	6.8	6.8	6.8	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P165382

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	626.7	626.7	626.7	626.7
2.5°	473.1	471.7	466.3	467.7
5°	331.7	323.5	329.0	327.7
7.5°	243.4	242.0	240.6	243.4
10°	208.0	208.0	206.6	208.0
12.5°	195.7	195.7	195.7	195.7
15°	186.2	186.2	184.9	184.9
17.5°	175.3	175.3	175.3	174.0
20°	164.5	163.1	163.1	163.1
22.5°	152.2	150.9	150.9	150.9
25°	140.0	138.7	138.7	138.7
27.5°	127.8	126.4	125.1	125.1
30°	115.6	114.2	112.8	112.8
32.5°	103.4	102.0	100.6	100.6
35°	92.5	92.5	91.1	89.7
37.5°	83.0	83.0	83.0	83.0
40°	76.1	77.5	77.5	77.5
42.5°	72.1	73.4	74.8	76.1
45°	69.3	72.1	73.4	73.4
47.5°	67.9	69.3	70.7	70.7
50°	62.6	61.2	61.2	61.2
52.5°	50.3	47.6	46.2	44.8
55°	36.7	35.3	32.6	32.6
57.5°	25.8	25.8	24.4	24.4
60°	20.4	20.4	19.1	20.4
62.5°	17.7	17.7	17.7	17.7
65°	16.3	16.3	16.3	16.3
67.5°	16.3	16.3	16.3	16.3
69°	14.9	14.9	14.9	14.9
70°	14.9	14.9	14.9	14.9
72.5°	13.6	13.6	13.6	13.6
75°	12.2	13.6	13.6	13.6
77.5°	12.2	12.2	12.2	12.2
80°	10.9	10.9	12.2	12.2
82.5°	10.9	10.9	10.9	10.9
85°	9.5	9.5	10.9	10.9
87.5°	8.2	8.2	9.5	9.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)