

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: P165272

Luminaire Tested: **VST-F05-LED-E-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165272
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-F05-LED-E-U-SL3-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 7071 lumens
Efficiency: N/A
Efficacy: 53.0 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: 28.75 FT

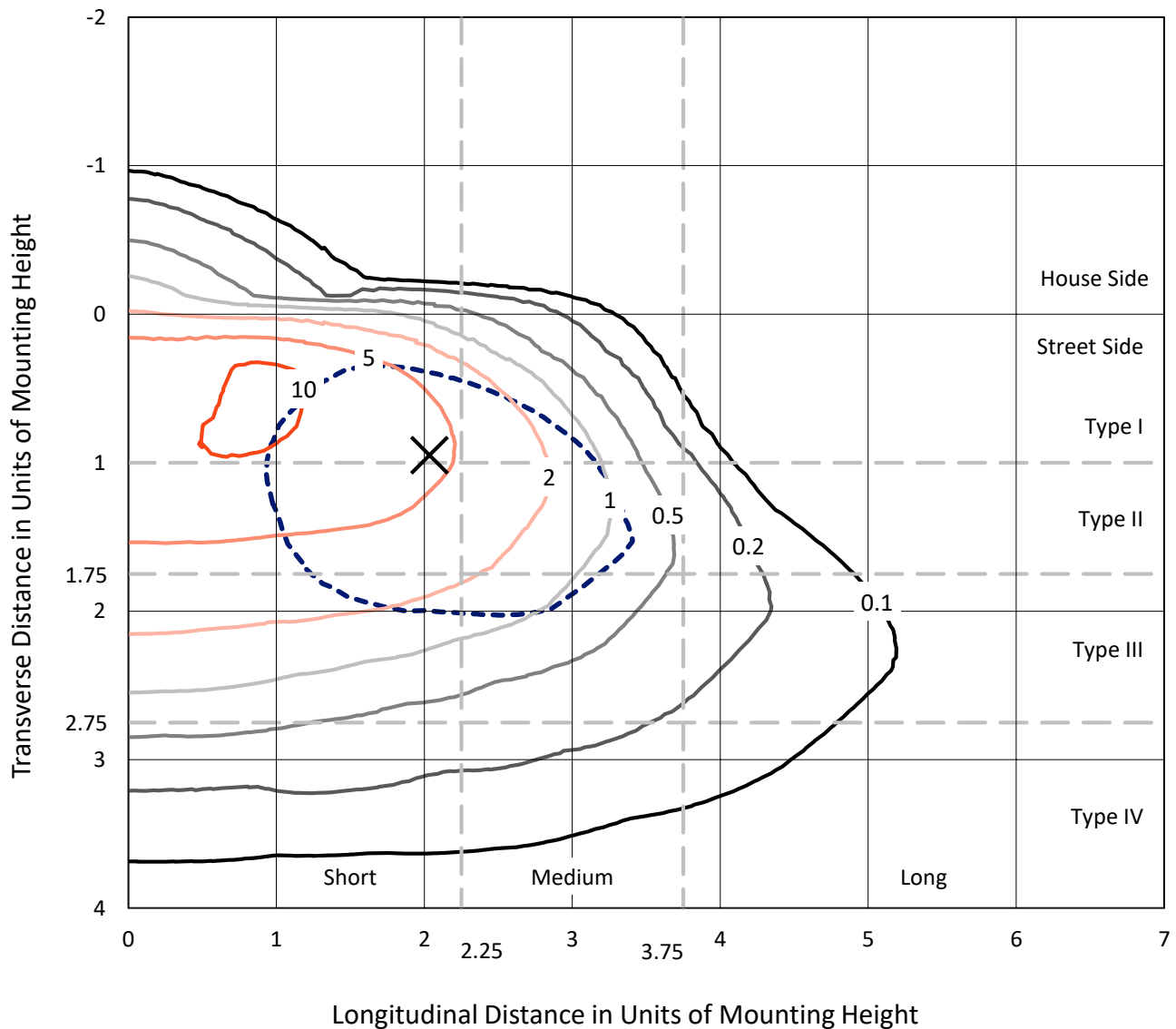


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

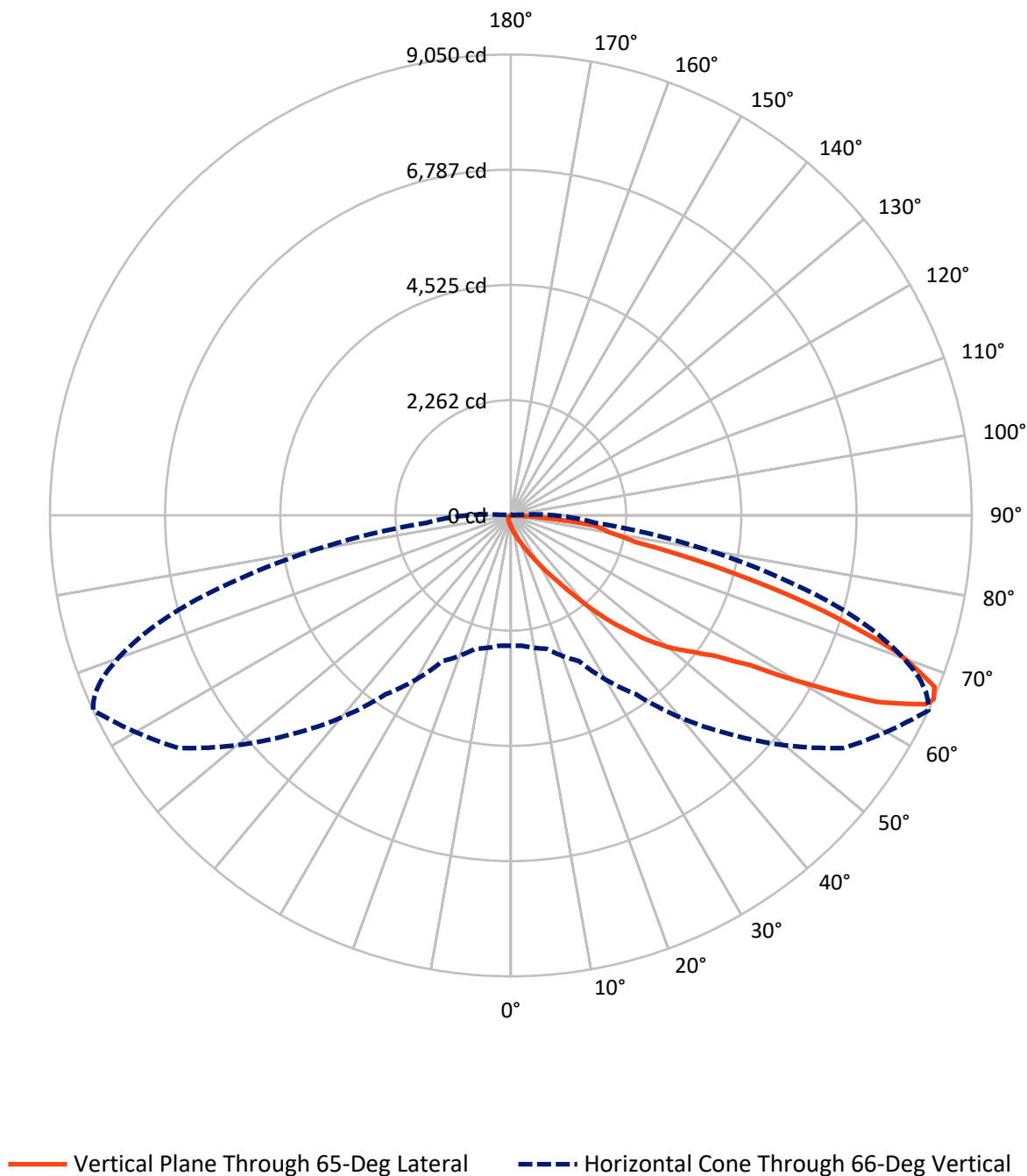


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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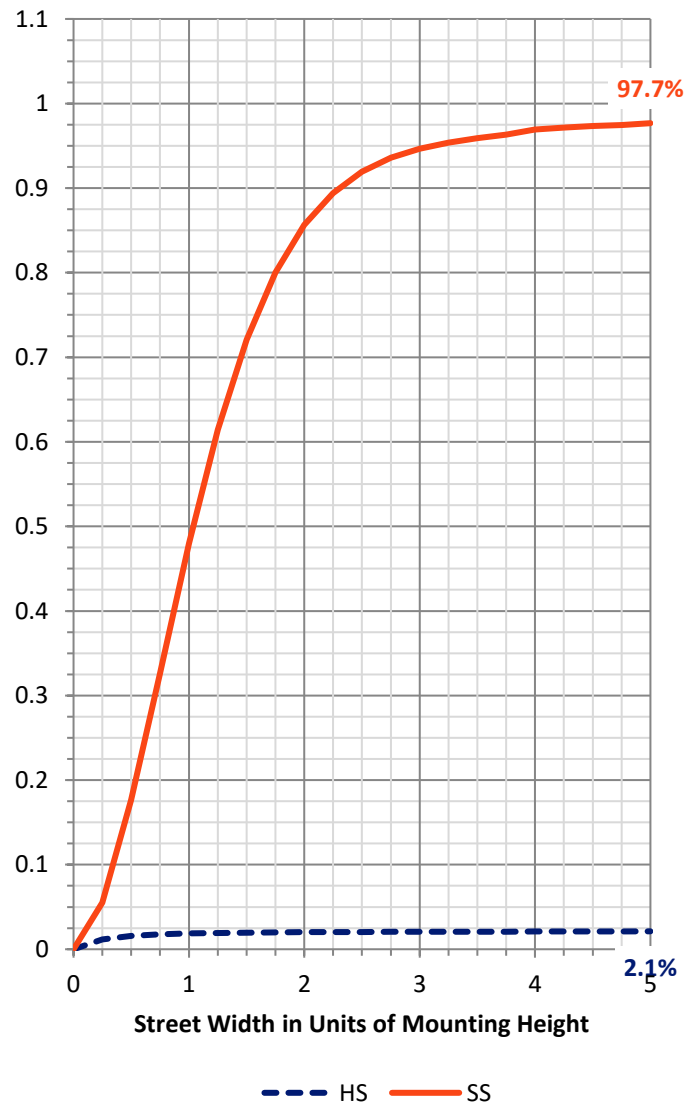
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	153.2	0.0	153.2
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	6917.8	0.0	6917.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	7071.0	0.0	7071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	0.3
10°-20°	101.3	1.4
20°-30°	218.5	3.1
30°-40°	466.6	6.6
40°-50°	1031.9	14.6
50°-60°	1748.8	24.7
60°-70°	2333.6	33.0
70°-80°	1027.9	14.5
80°-90°	118.4	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°	7071.0	100.0
0°-180°	7071.0	100.0

Coefficient of Utilization



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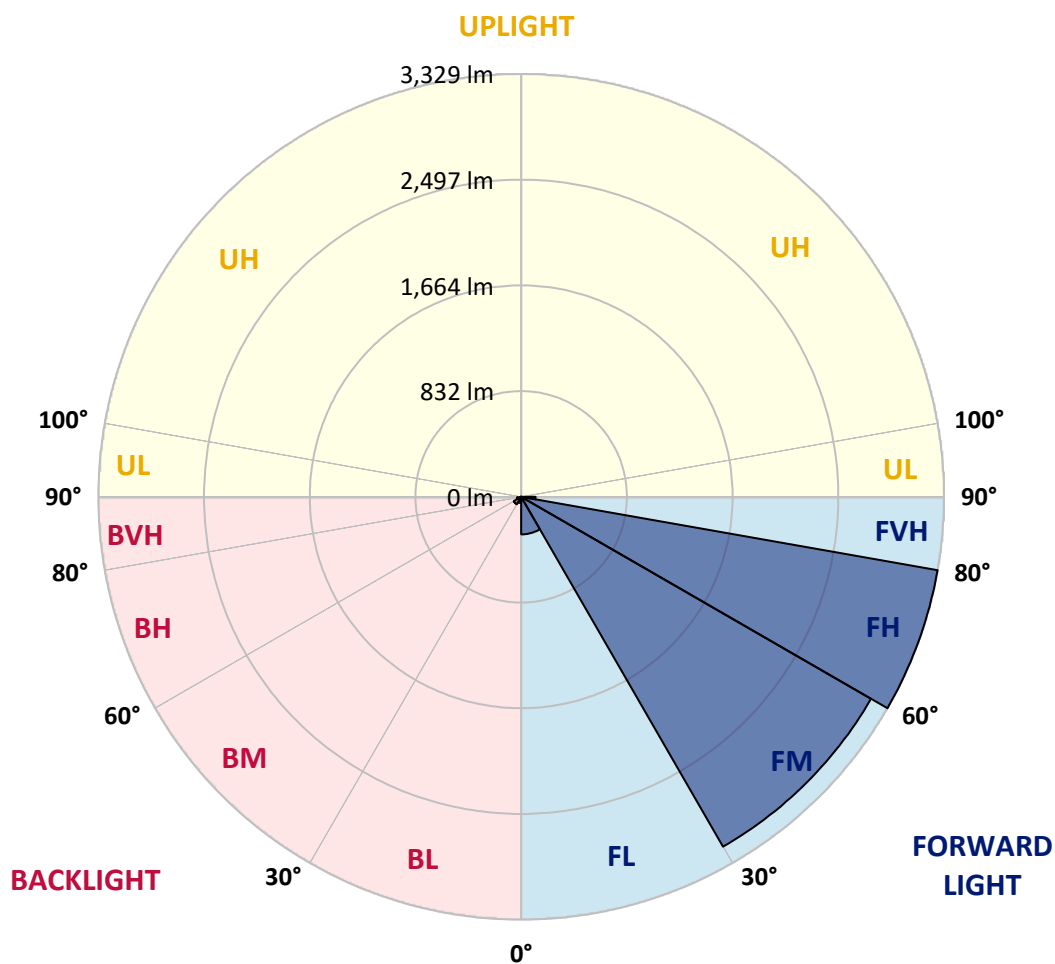
CATALOG NUMBER: VST-F05-LED-E-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.4	4.2			
FM	(30°-60°)	3180.1	45.0			
FH	(60°-80°)	3328.7	47.1			G2/5000
FVH	(80°-90°)	113.7	1.6			G2/225
BL	(0°-30°)	48.3	0.7	B0/110		
BM	(30°-60°)	67.3	1.0	B0/220		
BH	(60°-80°)	32.9	0.5	B0/110		G0/110
BVH	(80°-90°)	4.7	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°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	269.2	267.8	262.4	262.4	254.2	248.8	242.0	235.2	235.2	233.8	232.5
5°	356.1	348.0	346.6	331.7	319.5	301.8	285.5	263.8	261.0	258.3	256.9
7.5°	452.7	451.3	439.1	421.4	397.0	364.3	331.7	296.4	290.9	288.2	282.7
10°	577.8	570.9	554.7	524.7	488.1	444.5	391.5	335.7	329.0	323.5	320.8
12.5°	697.4	685.2	675.6	637.6	591.3	527.4	463.5	383.4	377.9	371.2	360.3
15°	808.8	798.0	781.7	749.1	697.4	617.2	542.5	444.5	430.9	421.4	413.3
17.5°	895.9	889.1	870.0	833.4	777.6	706.9	617.2	507.0	496.2	483.9	469.0
20°	978.8	969.2	939.4	889.1	829.2	774.8	705.6	588.6	573.7	558.7	542.5
22.5°	1057.7	1048.1	999.2	916.3	852.4	829.2	804.8	681.1	657.9	645.7	629.4
25°	1167.8	1147.4	1071.2	939.4	853.8	871.4	913.5	800.7	779.0	761.3	735.5
27.5°	1316.0	1288.7	1169.1	973.4	859.1	917.7	1038.6	946.1	923.0	902.6	874.1
30°	1483.1	1465.5	1322.7	1054.9	898.6	985.6	1178.6	1131.1	1103.9	1079.4	1045.4
32.5°	1651.7	1627.3	1485.9	1209.9	1004.6	1117.4	1354.0	1345.9	1310.5	1287.4	1250.7
35°	1799.9	1787.7	1683.0	1464.1	1246.6	1348.6	1587.8	1597.3	1566.1	1541.6	1500.8
37.5°	1900.5	1900.5	1880.1	1737.3	1631.3	1707.4	1931.7	1933.1	1901.8	1846.1	1825.7
40°	1952.1	1967.1	2040.5	2067.7	2062.2	2160.2	2383.1	2358.6	2332.8	2304.2	2236.3
42.5°	2058.2	2071.7	2228.1	2415.7	2538.1	2667.2	2820.8	2812.6	2781.4	2729.8	2667.2
45°	2237.7	2255.3	2441.6	2739.3	2990.7	3174.3	3272.1	3234.1	3202.8	3153.9	3121.2
47.5°	2466.0	2500.0	2710.7	3079.1	3382.3	3685.4	3787.3	3686.8	3659.6	3621.5	3568.5
50°	2709.4	2742.0	2966.3	3387.7	3730.3	4091.9	4261.9	4091.9	4052.5	4040.2	3980.4
52.5°	2920.0	2947.3	3163.4	3625.6	3996.7	4420.9	4668.3	4444.0	4415.4	4374.6	4331.1
55°	3045.1	3066.9	3269.4	3739.8	4177.6	4717.2	5061.2	4864.1	4821.9	4805.6	4743.1
57.5°	3087.3	3109.0	3291.2	3754.7	4275.4	4987.7	5538.4	5545.1	5494.9	5436.4	5417.3
60°	3087.3	3111.7	3265.4	3718.1	4370.6	5275.9	6174.5	6741.4	6632.7	6621.8	6552.4
62.5°	2959.5	2982.6	3137.6	3605.2	4498.4	5664.8	7060.9	8061.4	8030.2	7959.5	7845.3
65°	2682.1	2695.8	2848.0	3317.0	4449.4	6022.3	7828.9	8939.6	8889.3	8750.6	8603.9
66°	2557.1	2568.0	2710.7	3152.5	4289.0	6071.2	7964.9	9049.7	8966.9	8849.9	8684.0
67.5°	2376.3	2395.3	2495.9	2846.7	3904.3	5901.3	7879.3	8972.3	8900.2	8758.8	8593.0
70°	1586.5	1572.9	1927.7	2184.6	2974.4	4808.4	7069.1	8056.0	8057.4	7990.8	7924.1
72.5°	753.1	761.3	864.6	1344.4	1946.7	3212.4	5626.7	6430.1	6522.6	6402.9	6320.0
75°	541.0	553.3	615.8	822.5	1160.9	1927.7	3647.3	4497.0	4499.7	4287.6	4098.7
77.5°	157.7	164.5	231.1	507.0	870.0	1300.9	2094.9	2500.0	2441.6	2289.3	2146.5
80°	65.2	65.2	67.9	161.8	349.4	883.6	1465.5	1925.0	1918.2	1859.7	1775.5
82.5°	24.4	25.8	32.6	66.6	83.0	217.5	977.4	1670.8	1666.7	1583.8	1523.9
85°	2.7	2.7	8.2	28.6	31.3	40.8	195.7	736.8	732.7	736.8	645.7
87.5°	0.0	0.0	1.3	2.7	4.0	5.4	8.2	28.6	31.3	29.9	27.2
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	232.5	229.7	229.7	228.4	228.4	228.4	227.0	225.7	225.7	224.3	223.0
5°	254.2	251.5	250.1	247.4	246.1	244.7	242.0	240.6	237.9	236.5	235.2
7.5°	280.0	274.6	273.2	269.2	265.1	262.4	259.6	255.6	252.9	247.4	246.1
10°	312.7	305.9	300.4	295.0	290.9	284.1	280.0	274.6	269.2	265.1	261.0
12.5°	354.8	345.3	337.1	331.7	322.2	314.0	305.9	301.8	290.9	285.5	278.7
15°	401.0	390.1	380.6	369.8	363.0	349.4	338.5	326.2	320.8	311.3	300.4
17.5°	460.8	443.1	428.2	417.4	403.8	390.1	377.9	365.7	349.4	338.5	324.9
20°	524.7	509.8	489.4	470.4	454.0	437.8	420.0	403.8	388.8	371.2	354.8
22.5°	606.3	584.6	560.1	541.0	519.3	501.7	477.2	455.4	430.9	407.8	388.8
25°	709.6	681.1	657.9	630.8	604.9	577.8	547.8	520.7	489.4	467.7	435.1
27.5°	837.4	810.3	779.0	743.6	717.8	677.0	637.6	603.6	566.9	532.9	496.2
30°	1000.5	961.2	928.5	894.5	842.9	803.4	757.2	711.0	660.7	626.7	570.9
32.5°	1196.3	1154.2	1105.2	1056.3	1008.7	953.0	895.9	838.7	783.0	720.5	663.4
35°	1435.6	1385.2	1329.5	1276.5	1203.1	1143.3	1071.2	992.4	929.9	857.8	785.7
37.5°	1752.3	1669.4	1620.4	1564.7	1465.5	1383.9	1303.7	1224.8	1114.7	1038.6	936.6
40°	2149.3	2100.3	2020.1	1930.4	1840.7	1733.3	1624.6	1519.9	1392.1	1286.0	1167.8
42.5°	2615.5	2543.5	2462.0	2332.8	2241.7	2115.2	1991.6	1852.9	1696.5	1560.7	1422.0
45°	3053.3	2967.7	2905.1	2776.0	2680.8	2531.2	2381.7	2234.9	2054.1	1878.7	1718.3
47.5°	3526.4	3455.6	3352.4	3247.7	3151.2	2982.6	2820.8	2642.8	2452.4	2244.4	2036.4
50°	3942.4	3886.7	3815.9	3689.5	3582.1	3440.7	3250.4	3056.0	2815.4	2608.7	2372.2
52.5°	4295.8	4252.3	4153.1	4063.3	3966.8	3833.6	3663.7	3477.4	3217.8	2990.7	2721.6
55°	4713.2	4681.9	4594.9	4539.1	4453.5	4325.8	4166.7	3994.1	3719.4	3472.0	3167.5
57.5°	5397.0	5372.5	5296.3	5273.2	5188.9	5077.5	4881.7	4696.8	4376.0	4068.8	3720.8
60°	6529.3	6480.5	6368.9	6311.9	6133.7	5984.2	5730.1	5475.8	5088.4	4696.8	4278.1
62.5°	7741.9	7604.7	7392.6	7210.5	6957.6	6697.9	6358.0	5969.3	5515.2	5050.3	4569.0
65°	8395.8	8162.0	7894.2	7604.7	7277.1	6895.0	6466.8	6000.6	5512.5	5021.8	4513.3
66°	8470.6	8206.9	7922.8	7600.6	7236.3	6829.8	6394.8	5905.4	5398.3	4919.8	4411.4
67.5°	8376.8	8100.9	7800.5	7442.9	7048.7	6627.2	6170.5	5662.0	5174.0	4688.7	4193.8
70°	7720.2	7445.6	7177.8	6801.3	6381.1	5957.1	5524.7	4956.5	4494.3	4048.4	3608.0
72.5°	6165.0	5978.8	5713.7	5391.5	4982.3	4484.7	4124.5	3616.1	3215.1	2782.8	2441.6
75°	3852.6	3590.3	3262.6	2852.1	2539.4	2135.6	1925.0	1538.9	1310.5	1110.7	917.7
77.5°	1969.8	1772.7	1543.0	1311.8	1090.3	870.0	672.9	475.8	320.8	223.0	165.8
80°	1627.3	1453.3	1262.9	1052.2	856.5	664.8	478.6	326.2	208.0	136.0	106.0
82.5°	1344.4	1197.7	1027.7	832.0	662.1	522.1	363.0	236.5	146.8	95.2	74.8
85°	572.3	519.3	401.0	318.1	239.2	176.7	123.7	83.0	58.4	47.6	43.5
87.5°	24.4	27.2	25.8	20.4	14.9	14.9	13.6	10.9	10.9	10.9	10.9
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4	213.4
2.5°	223.0	221.6	220.3	220.3	218.8	217.5	209.4	202.6	194.4	189.0	183.5
5°	232.5	231.1	228.4	227.0	224.3	223.0	205.3	190.3	178.1	168.6	161.8
7.5°	242.0	240.6	236.5	232.5	231.1	228.4	199.9	180.8	164.5	153.6	146.8
10°	254.2	250.1	246.1	240.6	236.5	232.5	194.4	169.9	152.2	142.7	136.0
12.5°	271.8	265.1	258.3	251.5	246.1	239.2	191.7	160.4	142.7	131.8	125.1
15°	292.3	282.7	274.6	266.5	256.9	250.1	186.2	152.2	134.6	123.7	115.6
17.5°	311.3	300.4	288.2	276.0	266.5	256.9	180.8	144.1	126.4	115.6	107.4
20°	338.5	322.2	307.3	292.3	278.7	266.5	172.6	136.0	119.6	107.4	99.2
22.5°	368.4	349.4	330.4	310.0	292.3	276.0	165.8	129.1	112.8	100.6	91.1
25°	406.5	383.4	357.5	331.7	311.3	289.6	159.1	122.3	106.0	93.8	84.3
27.5°	459.5	426.9	398.3	365.7	334.4	310.0	153.6	116.9	99.2	87.0	77.5
30°	531.6	483.9	439.1	403.8	367.0	331.7	148.2	110.1	93.8	80.2	69.3
32.5°	611.7	556.0	504.3	451.3	405.1	364.3	142.7	104.7	87.0	73.4	63.9
35°	711.0	640.3	570.9	509.8	454.0	399.6	137.3	99.2	81.6	66.6	57.1
37.5°	853.8	765.3	674.3	595.5	523.4	451.3	133.2	93.8	74.8	59.9	50.3
40°	1049.5	935.3	823.8	716.4	622.6	532.9	127.8	88.3	69.3	54.4	44.8
42.5°	1261.6	1122.9	976.1	855.1	726.0	613.1	122.3	83.0	63.9	49.0	39.5
45°	1525.3	1352.6	1174.6	1010.0	852.4	706.9	116.9	77.5	57.1	43.5	34.0
47.5°	1813.5	1593.3	1392.1	1185.5	997.8	823.8	110.1	73.4	51.7	38.1	29.9
50°	2109.9	1877.4	1623.1	1388.0	1165.1	940.8	103.4	66.6	46.2	34.0	24.4
52.5°	2429.3	2154.7	1895.1	1602.8	1343.1	1094.3	96.5	61.2	42.1	29.9	20.4
55°	2835.8	2528.6	2224.0	1896.4	1583.8	1272.5	89.7	54.4	36.7	25.8	16.3
57.5°	3346.9	2982.6	2608.7	2239.0	1859.7	1506.3	84.3	47.6	31.3	21.7	13.6
60°	3829.5	3404.1	2951.3	2525.9	2097.6	1685.7	76.1	42.1	27.2	17.7	13.6
62.5°	4079.7	3594.3	3106.3	2637.3	2180.5	1749.6	67.9	35.3	23.1	14.9	12.2
65°	4018.5	3523.7	3050.6	2577.5	2130.3	1708.8	59.9	31.3	20.4	13.6	12.2
66°	3930.2	3440.7	2965.0	2515.0	2088.1	1665.3	55.7	29.9	19.1	13.6	10.9
67.5°	3737.1	3264.0	2809.9	2391.2	1972.5	1582.4	50.3	27.2	17.7	12.2	10.9
70°	3192.0	2762.4	2399.4	2026.9	1685.7	1333.6	40.8	23.1	14.9	10.9	10.9
72.5°	2112.5	1820.3	1578.3	1358.1	1135.1	880.9	34.0	19.1	12.2	10.9	9.5
75°	796.6	720.5	618.6	556.0	485.3	425.5	27.2	12.2	9.5	9.5	9.5
77.5°	141.4	130.5	115.6	106.0	97.9	89.7	21.7	8.2	8.2	9.5	9.5
80°	95.2	88.3	80.2	73.4	67.9	61.2	14.9	6.8	8.2	8.2	9.5
82.5°	67.9	63.9	59.9	54.4	50.3	44.8	9.5	6.8	8.2	8.2	8.2
85°	40.8	38.1	35.3	32.6	28.6	27.2	6.8	6.8	6.8	8.2	8.2
87.5°	10.9	9.5	10.9	10.9	8.2	9.5	5.4	5.4	5.4	6.8	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



REPORT NUMBER: P165272

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CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	213.4	213.4	213.4	213.4	213.4
2.5°	180.8	180.8	178.1	182.2	182.2
5°	156.4	156.4	155.0	156.4	156.4
7.5°	142.7	141.4	141.4	141.4	142.7
10°	130.5	129.1	129.1	129.1	129.1
12.5°	119.6	118.3	116.9	118.3	118.3
15°	110.1	107.4	107.4	107.4	107.4
17.5°	102.0	99.2	97.9	97.9	97.9
20°	93.8	89.7	89.7	89.7	89.7
22.5°	85.6	81.6	81.6	81.6	81.6
25°	77.5	73.4	73.4	73.4	73.4
27.5°	70.7	66.6	66.6	66.6	66.6
30°	62.6	59.9	59.9	61.2	59.9
32.5°	57.1	53.0	53.0	54.4	54.4
35°	50.3	47.6	47.6	47.6	47.6
37.5°	43.5	40.8	40.8	40.8	40.8
40°	38.1	35.3	34.0	35.3	35.3
42.5°	32.6	29.9	28.6	28.6	28.6
45°	28.6	24.4	23.1	24.4	24.4
47.5°	23.1	20.4	20.4	21.7	21.7
50°	17.7	17.7	19.1	21.7	21.7
52.5°	16.3	16.3	19.1	21.7	21.7
55°	14.9	16.3	19.1	20.4	21.7
57.5°	13.6	16.3	19.1	20.4	20.4
60°	13.6	14.9	17.7	20.4	20.4
62.5°	12.2	13.6	16.3	19.1	19.1
65°	12.2	13.6	16.3	19.1	19.1
66°	12.2	13.6	16.3	19.1	19.1
67.5°	12.2	13.6	16.3	19.1	19.1
70°	12.2	13.6	16.3	17.7	17.7
72.5°	10.9	12.2	14.9	17.7	17.7
75°	10.9	12.2	14.9	17.7	17.7
77.5°	10.9	12.2	14.9	17.7	17.7
80°	10.9	12.2	14.9	16.3	17.7
82.5°	9.5	12.2	13.6	16.3	16.3
85°	9.5	10.9	13.6	14.9	16.3
87.5°	8.2	9.5	10.9	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)