

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: P165497

Luminaire Tested: **VST-E06-LED-E-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165497
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: STREETWORKS
Catalog Number: VST-E06-LED-E-U-SL4-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12062.9 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

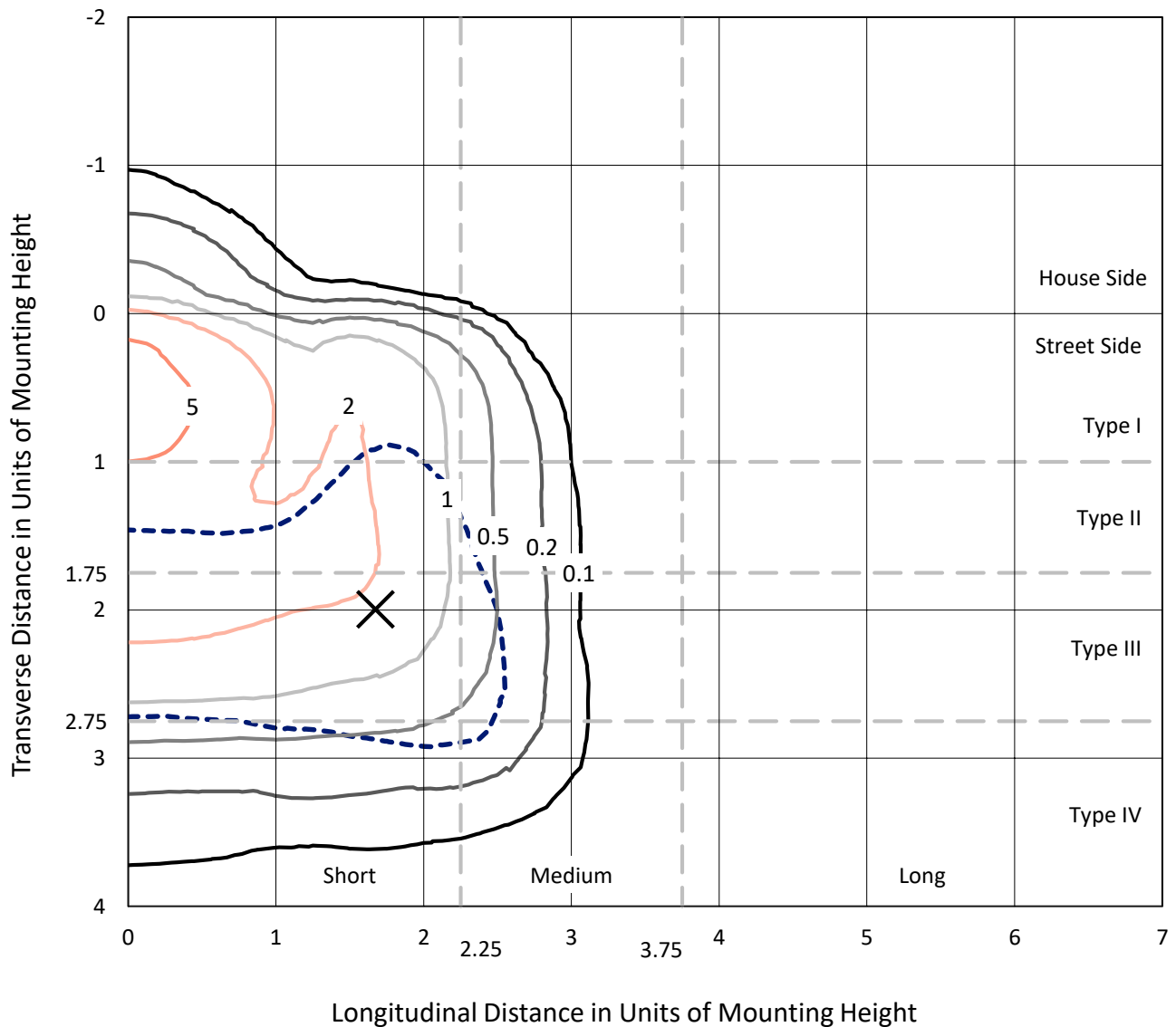
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

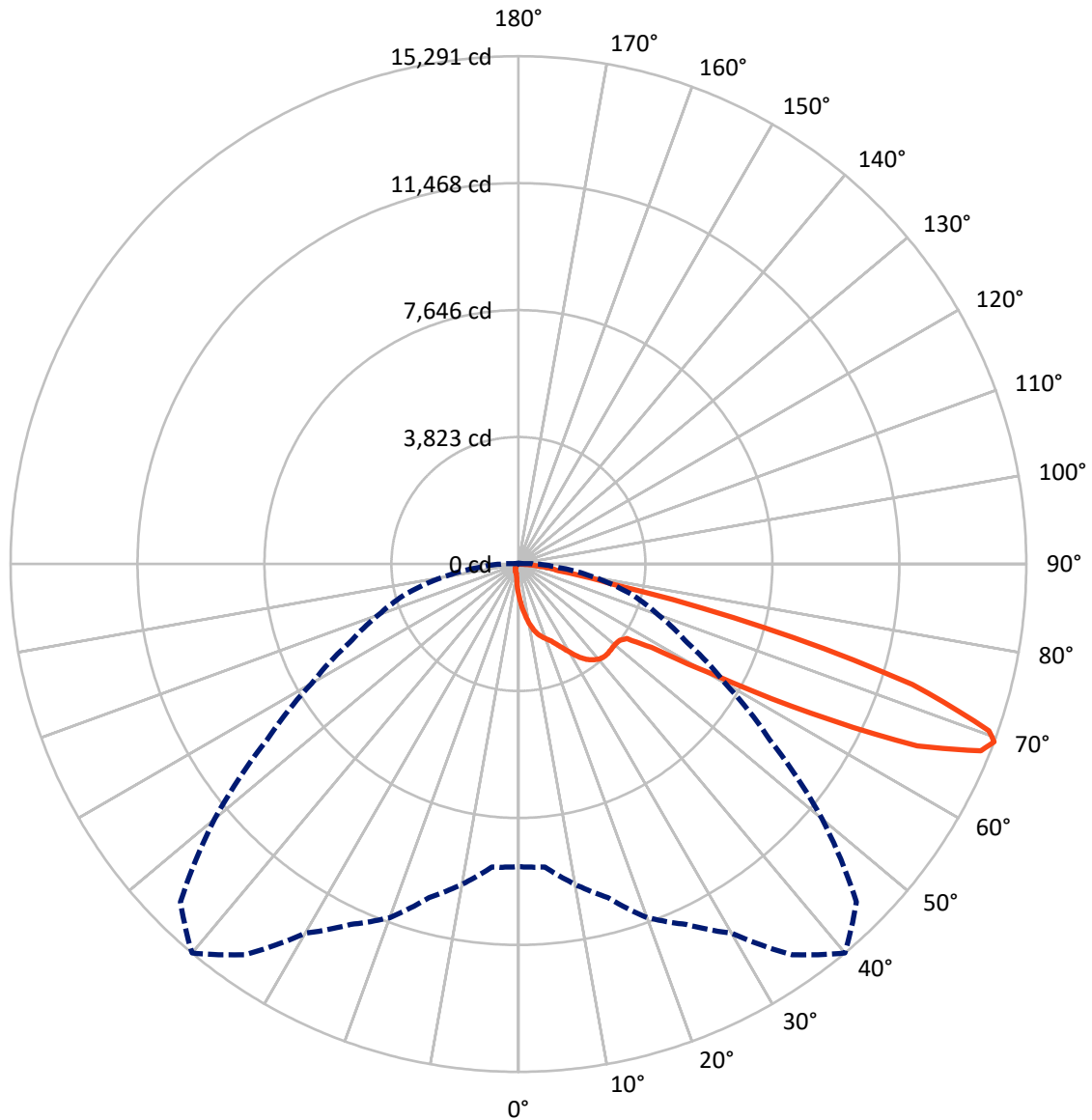


Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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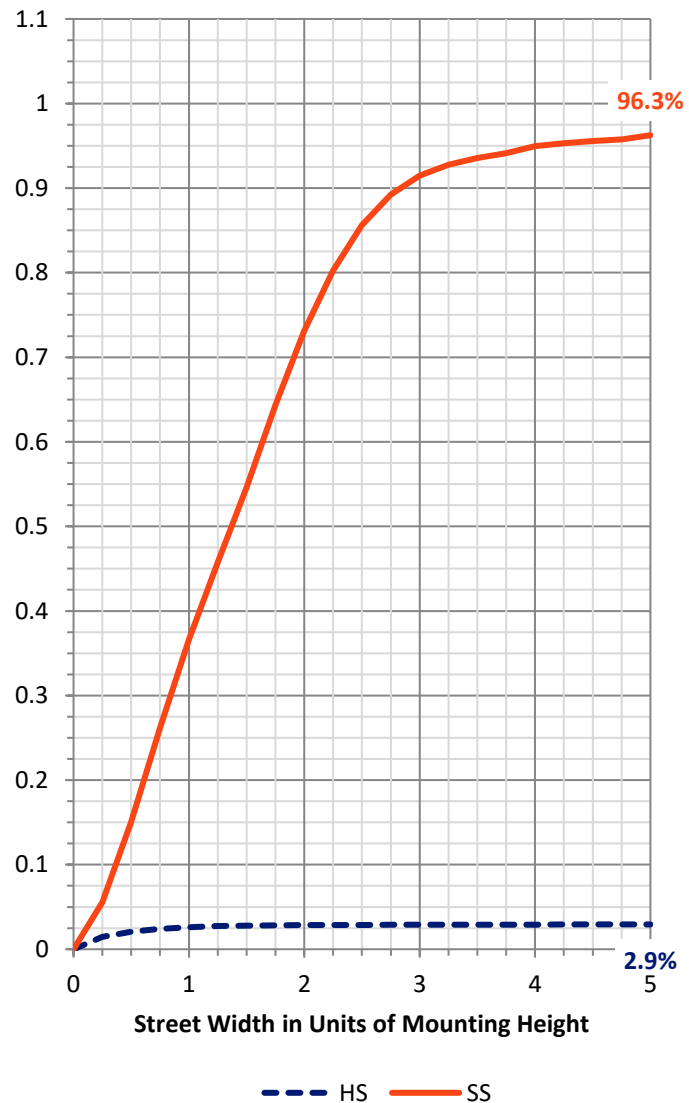
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.2	0.0	359.2
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	11703.7	0.0	11703.7
	% Fixture	97.0	0.0	97.0
Total	Lumens	12062.9	0.0	12062.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	0.8
10°-20°	322.8	2.7
20°-30°	617.9	5.1
30°-40°	1027.6	8.5
40°-50°	1390.4	11.5
50°-60°	2174.5	18.0
60°-70°	4470.7	37.1
70°-80°	1798.9	14.9
80°-90°	166.4	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°	12062.9	100.0
0°-180°	12062.9	100.0



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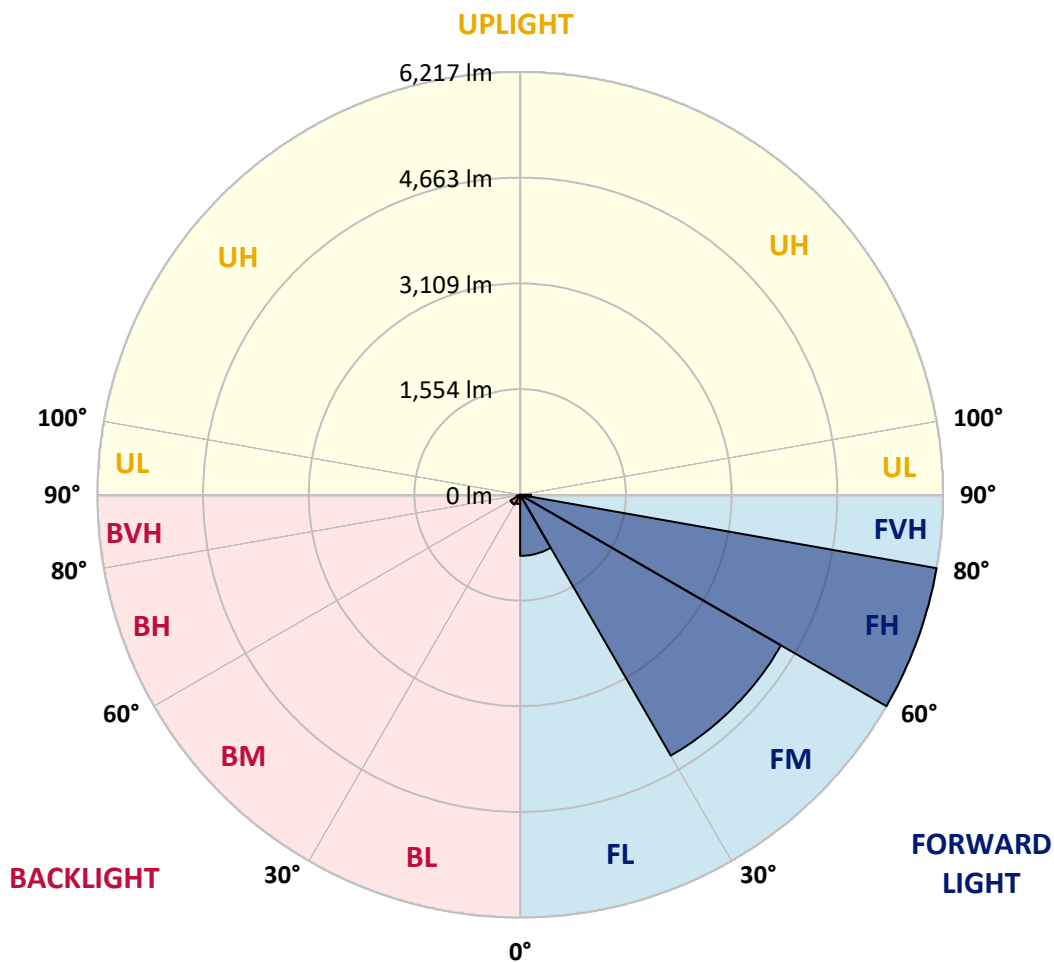
CATALOG NUMBER: VST-E06-LED-E-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.7	7.4			
FM (30°-60°)	4428.5	36.7			
FH (60°-80°)	6217.3	51.5			G3/7500
FVH (80°-90°)	160.2	1.3			G2/225
BL (0°-30°)	136.6	1.1	B1/500		
BM (30°-60°)	164.0	1.4	B0/220		
BH (60°-80°)	52.4	0.4	B0/110		G0/110
BVH (80°-90°)	6.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	1215.4	1201.4	1185.6	1185.6	1165.9	1165.9	1154.0	1122.5	1118.5	1100.6	1082.9
5°	1551.2	1539.4	1519.7	1501.8	1486.1	1458.4	1438.6	1401.0	1359.6	1320.0	1284.5
7.5°	1879.3	1873.3	1837.8	1831.8	1806.1	1760.8	1721.2	1665.8	1594.7	1539.4	1474.2
10°	2183.6	2169.7	2161.8	2128.2	2090.8	2041.3	1980.0	1912.9	1829.9	1742.9	1650.0
12.5°	2424.7	2416.8	2381.2	2367.4	2327.9	2278.4	2201.4	2114.4	2031.5	1918.8	1810.1
15°	2604.5	2590.7	2566.9	2545.2	2497.8	2454.4	2383.2	2288.3	2187.6	2065.1	1934.6
17.5°	2754.7	2729.0	2723.0	2689.4	2640.1	2588.6	2509.7	2422.7	2304.1	2181.6	2039.3
20°	2956.2	2920.7	2908.8	2859.4	2802.1	2731.0	2640.1	2531.4	2406.8	2272.6	2126.3
22.5°	3193.3	3167.6	3142.0	3098.5	3025.4	2924.6	2792.3	2673.7	2515.6	2367.4	2209.3
25°	3529.3	3507.6	3466.1	3406.8	3315.8	3195.4	3035.3	2861.4	2675.6	2485.9	2300.2
27.5°	3855.4	3835.6	3805.9	3760.6	3657.7	3525.4	3327.7	3106.4	2871.2	2642.0	2436.5
30°	4161.7	4143.8	4114.2	4068.8	3977.9	3847.4	3624.1	3387.0	3094.6	2827.8	2580.8
32.5°	4491.7	4485.7	4452.1	4387.0	4307.9	4132.1	3889.0	3634.1	3337.7	3029.4	2740.8
35°	4865.2	4819.7	4788.1	4722.8	4588.6	4400.8	4116.2	3837.6	3525.4	3209.2	2887.1
37.5°	5181.4	5137.9	5098.3	5015.4	4851.4	4612.2	4290.1	3983.8	3661.7	3339.6	3011.5
40°	5412.5	5390.8	5343.4	5234.6	5050.9	4766.4	4418.5	4084.6	3760.6	3436.4	3112.3
42.5°	5584.4	5550.8	5497.6	5384.9	5167.6	4843.4	4469.9	4126.1	3805.9	3495.7	3177.6
45°	5647.7	5620.1	5570.6	5448.1	5212.9	4865.2	4468.0	4114.2	3808.0	3513.5	3221.0
47.5°	5610.1	5582.5	5539.0	5424.4	5193.2	4839.5	4432.4	4080.6	3788.2	3519.5	3260.5
50°	5485.7	5469.8	5436.2	5339.4	5131.9	4790.0	4400.8	4062.8	3784.2	3549.1	3315.8
52.5°	5473.8	5464.0	5422.4	5325.6	5114.2	4774.2	4396.8	4072.8	3817.8	3586.7	3355.4
55°	6689.0	6548.8	6234.6	5967.8	5529.1	5007.5	4596.4	4232.8	3960.1	3734.9	3572.8
57.5°	9507.0	9297.6	8884.6	8376.7	7368.8	6378.8	5586.5	5013.4	4730.8	4628.0	4689.2
60°	10827.0	10789.6	10724.3	10483.2	9967.4	9115.8	8167.2	7141.7	6730.6	6695.0	6819.5
62.5°	11453.5	11429.8	11449.6	11419.9	11259.8	11010.8	10738.1	10295.5	9888.4	9625.6	9068.3
65°	11742.0	11757.8	11870.4	11959.3	11979.1	12044.3	12244.0	12795.2	13198.3	12520.6	10973.3
67.5°	11008.8	11101.7	11360.6	11684.6	12064.1	12431.6	13024.4	14186.4	15014.4	14218.1	12020.6
69°	9113.8	9159.2	9791.5	10402.2	11329.0	11977.2	12836.8	14360.3	15291.1	14392.0	11937.6
70°	7175.2	7216.7	7894.6	8724.5	10291.6	11125.4	12249.8	14065.9	15032.2	14160.7	11510.8
72.5°	3236.9	3177.6	3416.6	3861.2	5564.6	6888.7	8854.9	11396.2	12402.0	11344.8	8611.8
75°	2260.7	2235.0	2260.7	2262.6	2527.4	3260.5	4114.2	6177.2	7639.6	6592.3	4114.2
77.5°	1750.8	1733.0	1715.3	1695.5	1727.2	1934.6	2017.6	2191.4	2845.6	2691.5	1569.0
80°	1385.3	1369.4	1412.9	1399.1	1399.1	1422.8	1407.0	1341.7	1219.2	1130.3	1011.7
82.5°	644.2	648.1	648.1	703.4	847.8	990.0	1035.5	970.3	861.6	733.1	590.9
85°	61.2	69.1	116.6	179.9	357.7	403.1	405.1	335.9	335.9	264.8	213.4
87.5°	0.0	1.9	1.9	1.9	17.8	49.4	41.5	11.9	5.9	5.9	9.8
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°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	1051.3	1045.3	1021.7	997.9	976.2	952.4	930.7	909.0	885.2	867.5	845.8
5°	1229.2	1185.6	1136.3	1088.9	1041.4	992.0	940.7	895.2	847.8	804.2	762.7
7.5°	1408.9	1324.0	1256.8	1171.8	1094.8	1017.7	946.6	873.5	806.3	743.0	683.8
10°	1561.1	1458.4	1353.6	1245.0	1134.2	1031.5	932.8	845.8	756.8	679.8	606.7
12.5°	1685.6	1555.2	1426.8	1290.4	1165.9	1035.5	913.0	808.2	703.4	616.6	541.4
15°	1798.2	1648.1	1493.9	1335.8	1177.8	1029.6	893.2	762.7	656.0	557.3	472.3
17.5°	1889.2	1717.2	1543.3	1365.5	1195.6	1021.7	867.5	731.2	606.7	503.9	421.0
20°	1968.2	1788.4	1600.7	1401.0	1207.4	1019.6	845.8	691.7	563.2	454.6	373.4
22.5°	2041.3	1861.4	1660.0	1446.5	1225.2	1017.7	826.0	662.0	525.6	417.0	335.9
25°	2124.4	1934.6	1723.2	1493.9	1256.8	1025.6	814.2	638.3	492.0	381.4	306.2
27.5°	2217.2	2017.6	1798.2	1553.2	1298.3	1041.4	810.2	612.6	462.4	347.8	282.6
30°	2347.6	2116.4	1873.3	1612.4	1335.8	1059.2	806.3	596.8	432.7	322.1	258.8
32.5°	2462.3	2213.3	1956.4	1673.8	1377.4	1077.0	804.2	575.0	405.1	296.4	241.1
35°	2582.8	2302.2	2027.5	1733.0	1412.9	1096.7	802.3	559.2	379.4	270.7	223.3
37.5°	2687.5	2377.2	2082.8	1784.4	1452.5	1114.6	804.2	545.4	355.7	249.0	207.5
40°	2776.4	2454.4	2144.0	1831.8	1493.9	1142.2	806.3	531.6	332.0	229.2	193.7
42.5°	2855.5	2527.4	2209.3	1885.2	1541.4	1173.8	818.2	519.7	312.2	211.4	179.9
45°	2916.7	2594.6	2280.4	1960.3	1618.4	1225.2	839.9	511.8	292.4	195.6	168.0
47.5°	2980.0	2693.4	2401.0	2078.9	1731.1	1306.2	877.4	509.9	276.6	183.7	158.0
50°	3067.0	2792.3	2507.6	2199.4	1833.8	1389.2	922.8	511.8	256.9	172.0	148.2
52.5°	3130.2	2893.0	2646.0	2408.9	2078.9	1642.1	1098.7	547.3	247.0	162.0	136.3
55°	3503.6	3462.1	3468.0	3507.6	3252.7	2794.2	1837.8	790.4	290.5	183.7	134.4
57.5°	4940.3	5086.4	5171.4	5169.5	4748.5	3938.4	2468.2	1015.7	324.1	213.4	160.1
60°	6829.4	6718.8	6562.7	6177.2	5618.0	4495.7	2760.6	1092.8	280.6	169.9	146.3
62.5°	8499.2	7851.0	7276.0	6651.6	5918.4	4689.2	2819.9	1086.8	245.0	128.4	102.7
65°	9540.6	8374.7	7446.0	6663.4	5799.8	4527.2	2667.7	997.9	207.5	104.8	85.0
67.5°	9789.6	8092.1	6778.1	5780.0	4845.4	3523.4	1958.3	751.0	162.0	87.0	75.1
69°	9246.1	7193.0	5616.1	4483.8	3525.4	2337.7	1211.4	474.2	124.4	79.1	69.1
70°	8505.1	6256.3	4574.6	3598.4	2610.5	1642.1	847.8	334.0	100.8	73.1	63.2
72.5°	5471.9	3286.2	2248.8	1565.0	1077.0	654.1	332.0	150.2	77.0	61.2	51.4
75°	2122.3	1215.4	881.4	669.8	523.7	363.6	201.6	96.8	65.2	51.4	39.5
77.5°	1045.3	800.3	654.1	448.6	260.9	162.0	108.7	75.1	53.4	37.6	25.7
80°	826.0	549.4	328.1	203.5	154.1	116.6	83.0	61.2	39.5	23.8	17.8
82.5°	422.9	231.2	169.9	138.4	114.6	91.0	67.2	43.4	25.7	15.8	13.8
85°	132.4	96.8	87.0	85.0	79.1	65.2	47.4	27.7	15.8	9.8	9.8
87.5°	9.8	13.8	17.8	13.8	15.8	13.8	17.8	11.9	7.9	7.9	5.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	829.9	806.3	784.6	770.6	745.0	735.1	725.3	721.3	703.4	707.4	691.7
5°	725.3	683.8	652.1	620.5	590.9	569.2	551.3	529.6	511.8	503.9	488.0
7.5°	630.4	577.1	535.6	502.0	466.3	438.7	415.0	399.1	383.4	367.6	359.6
10°	547.3	490.1	442.7	409.1	375.5	351.7	334.0	322.1	312.2	306.2	304.3
12.5°	470.3	415.0	371.5	341.9	316.2	304.3	296.4	290.5	288.5	286.6	286.6
15°	411.0	355.7	322.1	300.4	288.5	282.6	280.6	276.6	272.8	270.7	270.7
17.5°	355.7	314.2	290.5	278.6	272.8	268.8	264.8	260.9	256.9	254.9	254.9
20°	318.1	284.5	272.8	264.8	258.8	254.9	249.0	245.0	243.1	241.1	239.2
22.5°	288.5	266.8	258.8	253.0	245.0	239.2	235.2	231.2	227.3	225.2	223.3
25°	266.8	253.0	247.0	239.2	231.2	225.2	219.4	213.4	209.5	207.5	203.5
27.5°	250.9	241.1	233.2	223.3	215.4	209.5	203.5	197.6	193.7	189.7	187.7
30°	237.1	227.3	217.3	209.5	199.6	193.7	185.8	179.9	177.8	173.9	169.9
32.5°	223.3	213.4	203.5	193.7	183.7	175.9	172.0	164.0	160.1	158.0	154.1
35°	207.5	197.6	185.8	177.8	168.0	160.1	154.1	148.2	144.2	140.3	138.4
37.5°	193.7	181.8	169.9	160.1	152.2	144.2	138.4	132.4	128.4	124.4	122.5
40°	177.8	166.0	154.1	144.2	136.3	130.4	124.4	118.6	114.6	112.7	112.7
42.5°	164.0	150.2	138.4	130.4	124.4	116.6	110.6	104.8	102.7	100.8	102.7
45°	150.2	136.3	126.5	118.6	112.7	104.8	98.8	94.8	92.9	94.8	96.8
47.5°	138.4	124.4	114.6	108.7	102.7	96.8	91.0	87.0	87.0	91.0	94.8
50°	126.5	112.7	104.8	100.8	94.8	88.9	81.0	79.1	81.0	85.0	88.9
52.5°	114.6	98.8	92.9	91.0	85.0	79.1	73.1	71.2	73.1	77.0	75.1
55°	102.7	87.0	85.0	83.0	77.0	69.1	63.2	63.2	63.2	61.2	57.4
57.5°	98.8	77.0	75.1	73.1	67.2	59.3	55.3	51.4	49.4	43.4	41.5
60°	102.7	69.1	69.1	65.2	59.3	51.4	45.5	39.5	35.5	31.6	31.6
62.5°	83.0	63.2	61.2	57.4	49.4	41.5	35.5	29.6	27.7	25.7	25.7
65°	67.2	57.4	53.4	47.4	41.5	33.6	27.7	23.8	21.7	21.7	23.8
67.5°	61.2	51.4	45.5	39.5	33.6	25.7	21.7	19.8	19.8	21.7	21.7
69°	57.4	47.4	41.5	35.5	29.6	23.8	19.8	19.8	19.8	19.8	21.7
70°	53.4	45.5	39.5	33.6	25.7	19.8	17.8	17.8	19.8	19.8	21.7
72.5°	41.5	35.5	33.6	27.7	19.8	17.8	15.8	17.8	17.8	19.8	19.8
75°	31.6	25.7	25.7	21.7	15.8	13.8	13.8	15.8	15.8	17.8	17.8
77.5°	21.7	17.8	17.8	15.8	13.8	11.9	11.9	13.8	15.8	15.8	17.8
80°	15.8	13.8	11.9	13.8	11.9	9.8	11.9	13.8	13.8	15.8	15.8
82.5°	11.9	11.9	11.9	11.9	9.8	9.8	11.9	11.9	13.8	15.8	15.8
85°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	11.9	11.9	13.8	13.8
87.5°	5.9	5.9	5.9	7.9	7.9	9.8	9.8	9.8	9.8	11.9	11.9
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: P165497

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	911.0	911.0	911.0	911.0
2.5°	687.7	685.7	677.8	679.8
5°	482.2	470.3	478.2	476.3
7.5°	353.8	351.7	349.8	353.8
10°	302.4	302.4	300.4	302.4
12.5°	284.5	284.5	284.5	284.5
15°	270.7	270.7	268.8	268.8
17.5°	254.9	254.9	254.9	253.0
20°	239.2	237.1	237.1	237.1
22.5°	221.3	219.4	219.4	219.4
25°	203.5	201.6	201.6	201.6
27.5°	185.8	183.7	181.8	181.8
30°	168.0	166.0	164.0	164.0
32.5°	150.2	148.2	146.3	146.3
35°	134.4	134.4	132.4	130.4
37.5°	120.6	120.6	120.6	120.6
40°	110.6	112.7	112.7	112.7
42.5°	104.8	106.7	108.7	110.6
45°	100.8	104.8	106.7	106.7
47.5°	98.8	100.8	102.7	102.7
50°	91.0	88.9	88.9	88.9
52.5°	73.1	69.1	67.2	65.2
55°	53.4	51.4	47.4	47.4
57.5°	37.6	37.6	35.5	35.5
60°	29.6	29.6	27.7	29.6
62.5°	25.7	25.7	25.7	25.7
65°	23.8	23.8	23.8	23.8
67.5°	23.8	23.8	23.8	23.8
69°	21.7	21.7	21.7	21.7
70°	21.7	21.7	21.7	21.7
72.5°	19.8	19.8	19.8	19.8
75°	17.8	19.8	19.8	19.8
77.5°	17.8	17.8	17.8	17.8
80°	15.8	15.8	17.8	17.8
82.5°	15.8	15.8	15.8	15.8
85°	13.8	13.8	15.8	15.8
87.5°	11.9	11.9	13.8	13.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)