

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: P165057

Luminaire Tested: **VST-E06-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165057
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 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: 10870 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

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

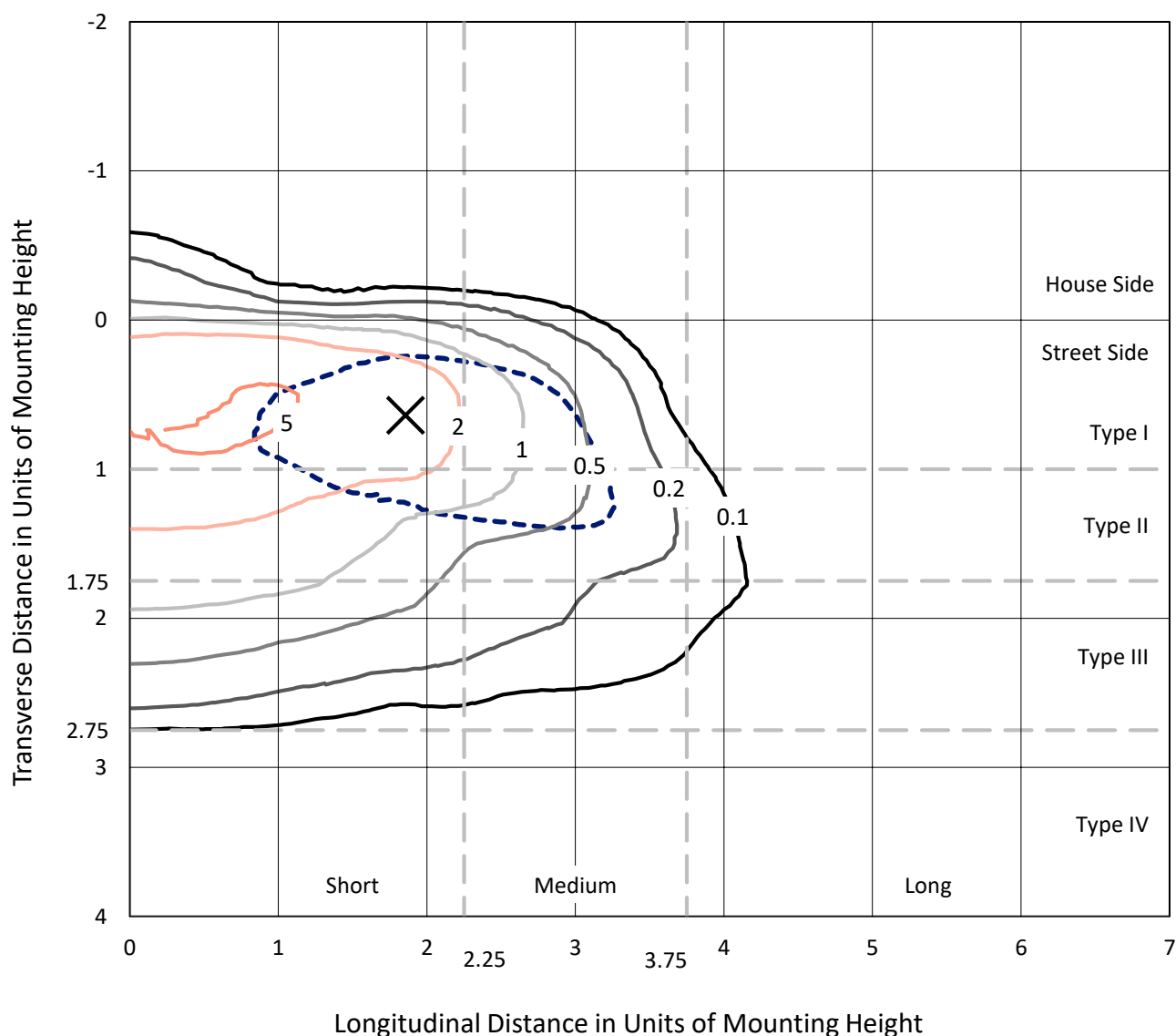


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

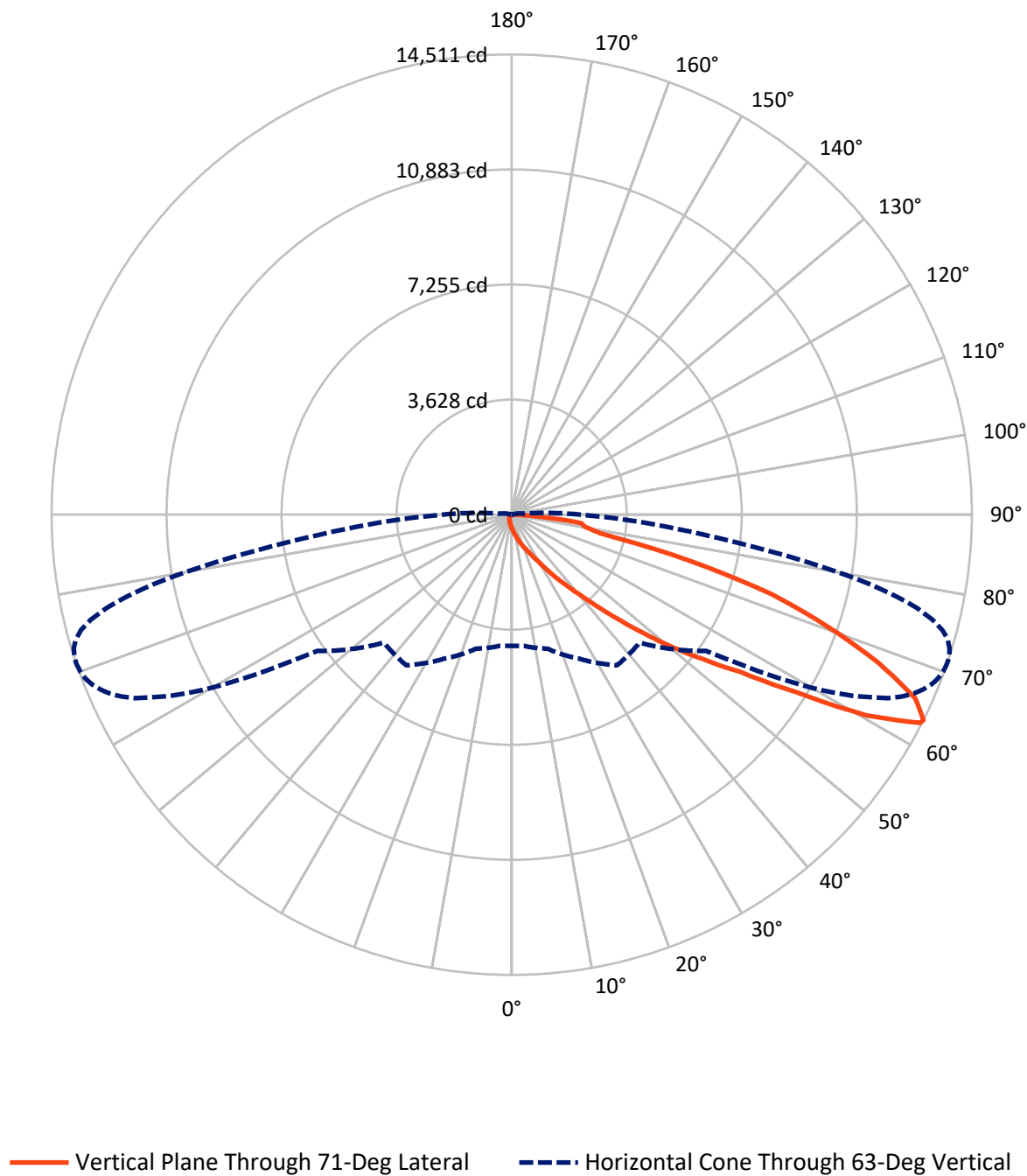


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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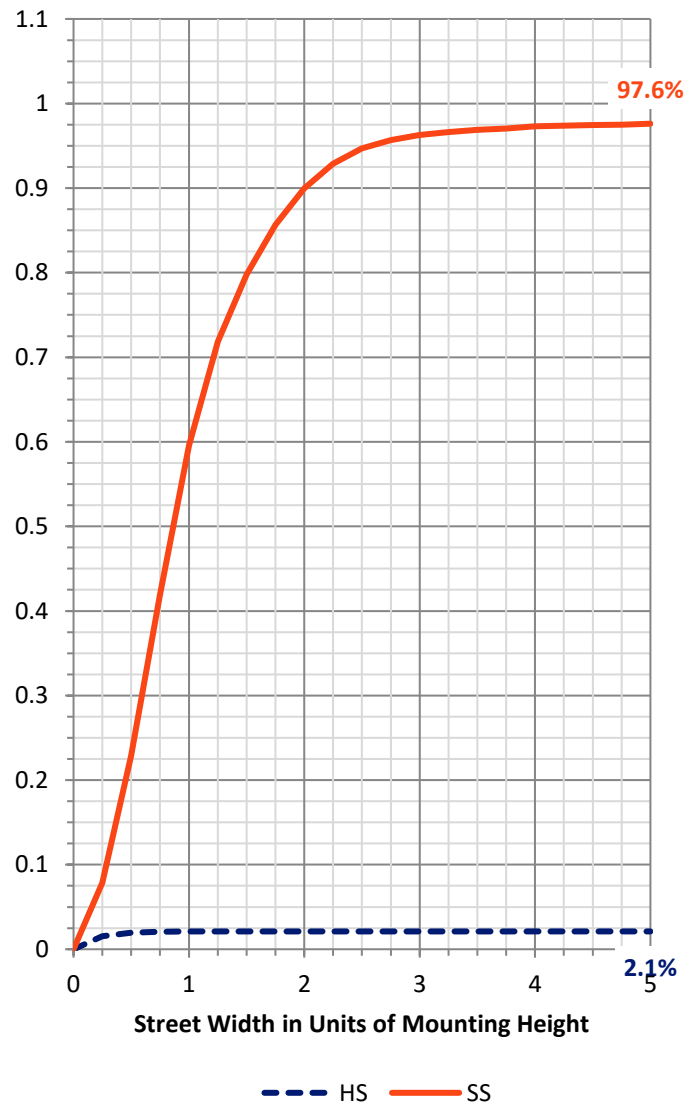
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	230.8	0.0	230.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	10639.2	0.0	10639.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	10870.0	0.0	10870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	0.4
10°-20°	178.7	1.6
20°-30°	363.0	3.3
30°-40°	887.0	8.2
40°-50°	1983.6	18.2
50°-60°	2789.1	25.7
60°-70°	3279.8	30.2
70°-80°	1184.3	10.9
80°-90°	158.4	1.5
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°	10870.0	100.0
0°-180°	10870.0	100.0

Coefficient of Utilization



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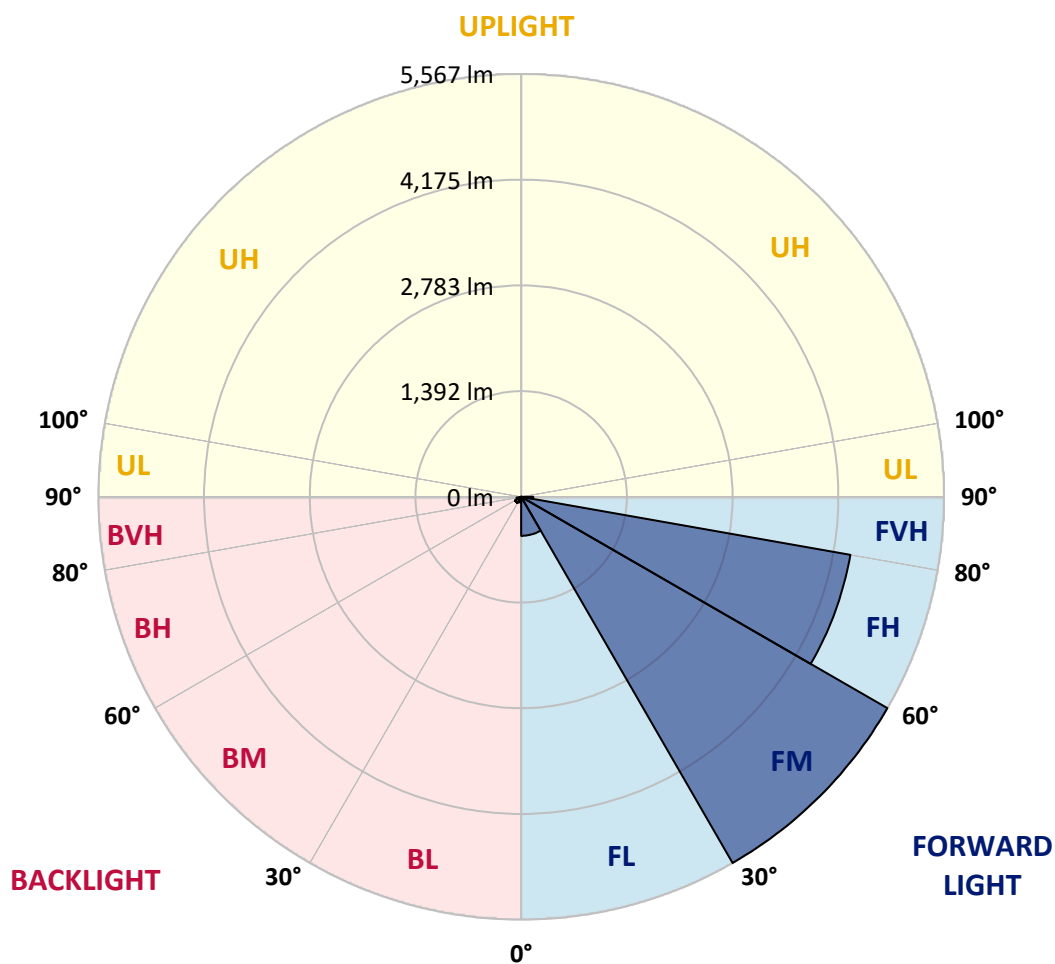
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.6	4.7			
FM	(30°-60°)	5566.7	51.2			
FH	(60°-80°)	4400.8	40.5			G2/5000
FVH	(80°-90°)	158.0	1.5			G2/225
BL	(0°-30°)	74.2	0.7	B0/110		
BM	(30°-60°)	93.0	0.9	B0/220		
BH	(60°-80°)	63.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	545.4	551.3	547.3	537.5	525.6	509.9	496.0	496.0	494.0	488.0	490.1
5°	715.3	717.4	709.4	685.7	664.0	630.4	592.8	588.8	584.9	579.0	577.1
7.5°	881.4	889.2	881.4	855.6	812.2	760.8	701.5	695.6	683.8	683.8	675.8
10°	1051.3	1051.3	1043.4	1013.8	974.2	901.1	826.0	816.1	802.3	798.4	786.5
12.5°	1171.8	1171.8	1167.8	1152.1	1120.4	1055.3	964.3	954.5	936.7	930.7	916.9
15°	1219.2	1219.2	1221.2	1235.0	1237.1	1207.4	1112.5	1104.6	1086.8	1071.0	1065.1
17.5°	1248.8	1246.9	1246.9	1266.7	1302.2	1322.0	1260.7	1252.8	1233.1	1225.2	1205.4
20°	1314.1	1310.2	1298.3	1298.3	1331.9	1401.0	1401.0	1399.1	1377.4	1371.4	1361.5
22.5°	1411.0	1407.0	1371.4	1341.7	1357.6	1444.6	1525.6	1521.6	1513.7	1505.8	1499.9
25°	1569.0	1555.2	1493.9	1407.0	1393.2	1486.1	1620.4	1630.3	1636.2	1636.2	1640.2
27.5°	1808.2	1790.4	1681.7	1519.7	1458.4	1553.2	1725.1	1744.9	1762.7	1766.6	1784.4
30°	2140.1	2108.5	1952.4	1715.3	1575.0	1652.0	1879.3	1901.0	1926.7	1934.6	1962.2
32.5°	2685.5	2667.7	2517.6	2161.8	1861.4	1845.7	2094.7	2122.3	2155.9	2169.7	2203.3
35°	3515.5	3519.5	3397.0	3076.8	2661.8	2444.4	2480.0	2503.7	2515.6	2557.1	2574.8
37.5°	4078.7	4088.5	4116.2	3989.8	3693.4	3472.0	3193.3	3219.1	3157.8	3163.7	3165.7
40°	4387.0	4418.5	4580.6	4703.2	4679.4	4551.0	4327.7	4341.5	4226.9	4201.2	4076.6
42.5°	4592.4	4633.9	4892.9	5272.2	5465.9	5582.5	5531.2	5525.2	5436.2	5402.6	5297.9
45°	4720.9	4758.5	5084.5	5643.7	6090.4	6430.2	6570.5	6586.3	6511.2	6477.6	6390.7
47.5°	4714.9	4758.5	5108.2	5782.1	6440.2	6983.5	7378.8	7398.5	7444.0	7414.3	7420.2
50°	4454.2	4495.7	4847.4	5546.9	6337.3	7236.5	7959.7	8023.0	8096.0	8145.5	8169.2
52.5°	4138.0	4167.6	4479.8	5143.8	5898.6	7131.7	8303.5	8412.2	8521.0	8613.8	8679.0
55°	4021.3	4054.9	4300.0	4851.4	5546.9	6693.0	8463.6	8623.7	8777.9	8930.0	9054.5
57.5°	4082.6	4114.2	4290.1	4713.0	5337.5	6230.6	8509.1	8758.1	9011.0	9258.0	9503.0
60°	4307.9	4341.5	4491.7	4841.4	5282.2	5963.9	8331.2	8744.3	9165.1	9595.9	10001.0
62.5°	4219.0	4232.8	4454.2	5066.8	5677.3	5736.6	7685.0	8262.1	8904.4	9568.3	10222.3
63°	4134.0	4149.8	4375.1	5005.4	5797.9	5703.0	7485.5	8094.1	8771.9	9487.2	10198.7
65°	3748.7	3750.6	3922.6	4420.6	5663.5	5762.3	6596.3	7177.2	7955.8	8813.4	9712.6
67.5°	2798.2	2784.4	2950.3	3329.8	4446.2	5764.3	5661.5	5987.6	6529.1	7289.9	8096.0
70°	992.0	970.3	1239.0	1764.6	2770.4	4714.9	4865.2	4886.9	5037.1	5448.1	5954.0
72.5°	322.1	328.1	395.2	646.2	1276.6	3173.6	4404.7	4337.5	4298.0	4296.0	4363.2
75°	128.4	130.4	158.0	286.6	573.1	1529.5	3857.4	3894.8	3908.8	3928.4	3950.3
77.5°	61.2	67.2	88.9	160.1	284.5	756.8	2760.6	3078.7	3260.5	3400.9	3485.9
80°	21.7	25.7	49.4	98.8	132.4	347.8	1454.4	1754.8	2021.5	2365.4	2661.8
82.5°	0.0	0.0	9.8	69.1	73.1	140.3	596.8	699.5	800.3	1037.4	1331.9
85°	0.0	0.0	0.0	19.8	21.7	23.8	201.6	243.1	272.8	318.1	367.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.9	11.9	29.6	45.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	486.1	484.2	484.2	480.2	478.2	474.2	472.3	466.3	464.4	464.4	464.4
5°	575.0	567.1	563.2	553.3	547.3	545.4	535.6	531.6	525.6	527.6	517.7
7.5°	673.8	660.0	654.1	640.2	636.4	622.4	618.5	608.6	602.8	590.9	586.9
10°	782.5	764.8	754.9	733.1	727.2	717.4	705.5	693.6	683.8	671.9	666.0
12.5°	907.1	891.2	883.3	853.7	839.9	826.0	810.2	794.4	778.6	768.7	754.9
15°	1053.2	1027.6	1019.6	992.0	968.3	950.5	928.8	909.0	897.1	877.4	863.5
17.5°	1197.5	1171.8	1165.9	1124.4	1098.7	1086.8	1063.2	1037.4	1015.7	996.0	974.2
20°	1341.7	1324.0	1308.1	1268.6	1241.0	1221.2	1189.6	1163.9	1146.1	1118.5	1090.8
22.5°	1486.1	1468.2	1456.4	1414.9	1389.2	1361.5	1333.9	1306.2	1280.5	1246.9	1215.4
25°	1634.3	1622.4	1616.4	1579.0	1555.2	1529.5	1501.8	1470.2	1438.6	1401.0	1367.5
27.5°	1788.4	1792.3	1780.4	1772.5	1746.8	1729.1	1685.6	1663.9	1640.2	1594.7	1553.2
30°	1984.0	1995.8	1991.9	1997.9	1982.0	1970.2	1936.6	1909.0	1881.2	1837.8	1790.4
32.5°	2231.0	2246.9	2254.7	2276.5	2268.6	2264.6	2254.7	2215.2	2195.4	2120.4	2100.6
35°	2612.4	2604.5	2638.1	2655.8	2647.9	2644.1	2632.2	2610.5	2586.7	2533.3	2484.0
37.5°	3108.4	3116.3	3128.2	3092.6	3068.9	3067.0	3031.3	3009.6	2976.0	2916.7	2857.4
40°	4017.4	3968.0	3912.7	3762.5	3697.3	3659.8	3555.0	3525.4	3468.0	3387.0	3325.8
42.5°	5199.1	5149.7	4983.7	4732.8	4598.4	4412.6	4327.7	4222.9	4141.9	4009.6	3938.4
45°	6373.0	6230.6	6210.8	5918.4	5752.4	5507.4	5355.2	5179.3	4995.6	4821.7	4695.2
47.5°	7363.0	7331.3	7234.6	7056.6	6902.5	6697.0	6501.4	6230.6	6040.9	5794.0	5566.7
50°	8155.3	8153.4	8117.8	8015.0	7886.6	7720.7	7548.7	7319.5	7104.1	6801.7	6558.7
52.5°	8748.2	8779.8	8791.7	8760.0	8710.7	8564.4	8477.5	8285.8	8104.0	7847.0	7584.2
55°	9182.9	9299.5	9358.8	9426.0	9412.2	9360.8	9356.9	9232.3	9149.4	8945.8	8760.0
57.5°	9720.5	9912.1	10095.8	10422.0	10433.8	10548.5	10607.8	10667.0	10682.8	10601.8	10540.6
60°	10404.1	10795.4	11143.2	11825.0	12002.9	12283.4	12465.2	12662.9	12830.8	12844.7	12840.7
62.5°	10886.3	11489.0	12050.3	13062.0	13407.8	13732.0	13975.0	14166.7	14283.2	14401.8	14457.1
63°	10900.2	11560.2	12157.0	13200.4	13564.0	13872.2	14103.5	14281.3	14403.8	14474.9	14510.5
65°	10566.2	11366.5	12077.9	13117.3	13459.2	13769.5	13890.0	14006.6	14065.9	14093.5	13988.8
67.5°	8955.7	9738.2	10568.2	11730.1	12022.6	12394.1	12493.0	12552.2	12579.8	12574.0	12485.0
70°	6697.0	7353.1	8275.9	9603.8	9991.2	10354.8	10580.0	10676.9	10708.4	10698.6	10566.2
72.5°	4675.4	5060.8	5821.6	7299.7	7827.4	8293.7	8572.3	8716.6	8746.2	8686.9	8564.4
75°	3926.5	3946.3	4118.2	4926.4	5420.4	5918.4	6232.6	6323.5	6264.2	6084.4	5772.2
77.5°	3505.6	3549.1	3549.1	3669.6	3766.4	3904.8	3934.4	3713.0	3456.2	3124.2	2855.5
80°	2940.5	3092.6	3199.3	3288.2	3298.1	3270.5	3197.3	3072.8	2875.2	2622.2	2341.7
82.5°	1786.4	2086.8	2209.3	2667.7	2893.0	3045.1	3033.4	2867.3	2717.2	2454.4	2215.2
85°	450.6	486.1	527.6	685.7	768.7	938.6	1045.3	1094.8	1112.5	1021.7	924.8
87.5°	43.4	29.6	49.4	37.6	53.4	39.5	53.4	49.4	61.2	65.2	71.2
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	460.4	458.4	456.5	454.6	452.5	450.6	446.6	446.6	442.7	440.6	438.7
5°	511.8	507.8	505.9	502.0	496.0	492.0	486.1	478.2	472.3	470.3	466.3
7.5°	577.1	567.1	563.2	557.3	549.4	537.5	529.6	523.7	513.8	507.8	496.0
10°	650.2	640.2	628.4	616.6	604.7	590.9	580.9	573.1	557.3	549.4	535.6
12.5°	743.0	725.3	711.4	695.6	679.8	664.0	652.1	628.4	614.5	596.8	584.9
15°	837.8	822.0	806.3	786.5	762.7	737.0	725.3	703.4	685.7	658.1	642.2
17.5°	952.4	922.8	899.2	875.4	853.7	829.9	806.3	772.7	747.0	723.2	691.7
20°	1065.1	1029.6	1003.8	972.2	940.7	903.1	875.4	851.6	816.1	784.6	751.0
22.5°	1185.6	1150.1	1108.6	1077.0	1033.6	1003.8	966.4	926.8	891.2	849.7	808.2
25°	1331.9	1294.3	1246.9	1205.4	1156.0	1114.6	1069.1	1023.6	980.2	932.8	879.4
27.5°	1511.8	1472.2	1420.8	1371.4	1306.2	1254.8	1211.4	1150.1	1094.8	1035.5	974.2
30°	1738.9	1695.5	1632.2	1561.1	1495.9	1438.6	1377.4	1296.4	1235.0	1163.9	1084.9
32.5°	2035.4	1984.0	1899.0	1831.8	1750.8	1675.7	1590.7	1509.7	1422.8	1330.0	1239.0
35°	2408.9	2361.5	2262.6	2163.8	2074.9	1986.0	1879.3	1786.4	1663.9	1551.2	1434.6
37.5°	2796.2	2711.2	2620.3	2513.6	2402.9	2296.2	2165.8	2037.4	1897.1	1774.6	1628.3
40°	3238.8	3136.1	3061.0	2946.4	2790.2	2638.1	2517.6	2357.5	2181.6	2017.6	1845.7
42.5°	3845.5	3730.9	3596.5	3422.6	3310.0	3132.1	2976.0	2786.3	2555.0	2371.3	2163.8
45°	4547.0	4390.9	4260.5	4092.5	3956.2	3734.9	3553.1	3300.1	3068.9	2827.8	2574.8
47.5°	5347.3	5153.6	4963.9	4798.0	4580.6	4363.2	4132.1	3863.3	3566.9	3302.0	3001.7
50°	6266.2	5991.5	5728.7	5515.3	5216.9	4966.0	4714.9	4412.6	4084.6	3780.2	3438.4
52.5°	7287.8	6969.7	6622.0	6293.9	5948.0	5626.0	5323.6	4975.8	4610.3	4238.8	3857.4
55°	8521.0	8281.8	7872.8	7455.8	6993.4	6562.7	6173.3	5742.6	5297.9	4809.8	4408.7
57.5°	10451.6	10335.0	9993.1	9576.2	8973.5	8449.8	7789.8	7262.2	6618.0	5946.1	5428.3
60°	13068.0	12923.6	12732.0	12394.1	11915.9	11204.5	10477.3	9657.2	8677.1	7746.4	6863.0
62.5°	14463.1	14411.6	14255.6	14022.4	13575.8	13014.6	12281.5	11380.3	10273.8	9143.4	8017.1
63°	14504.5	14439.4	14305.0	14067.8	13674.6	13131.2	12411.8	11536.4	10453.6	9301.6	8151.4
65°	13943.4	13917.7	13781.3	13522.4	13253.8	12838.7	12281.5	11528.5	10619.5	9530.8	8386.6
67.5°	12366.5	12289.3	12079.9	12000.8	11813.2	11524.6	11099.8	10582.0	9931.9	9076.2	8088.1
70°	10459.4	10344.8	10082.0	9941.8	9712.6	9530.8	9271.9	8902.3	8501.2	7904.4	7167.4
72.5°	8437.9	8200.8	7959.7	7594.2	7274.0	6949.9	6663.4	6402.6	5961.8	5720.8	5161.6
75°	5479.7	5048.9	4636.0	4082.6	3584.6	3144.0	2715.1	2497.8	2045.3	1861.4	1598.6
77.5°	2600.5	2359.4	2035.4	1784.4	1464.2	1195.6	976.2	733.1	575.0	450.6	343.8
80°	2098.6	1895.0	1699.4	1472.2	1231.1	982.1	752.9	563.2	399.1	276.6	195.6
82.5°	1871.4	1650.0	1408.9	1252.8	1088.9	891.2	731.2	596.8	440.6	322.1	219.4
85°	727.2	612.6	472.3	385.3	300.4	247.0	223.3	154.1	120.6	94.8	73.1
87.5°	63.2	51.4	41.5	27.7	29.6	15.8	17.8	11.9	9.8	9.8	7.9
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	436.7	434.8	432.7	428.8	428.8	424.9	422.9	421.0	411.0	389.3	371.5
5°	458.4	454.6	450.6	444.6	440.6	434.8	430.8	424.9	403.1	361.7	326.0
7.5°	490.1	482.2	476.3	464.4	458.4	450.6	444.6	434.8	399.1	335.9	286.6
10°	527.6	513.8	503.9	490.1	478.2	468.4	458.4	444.6	395.2	308.3	250.9
12.5°	573.1	557.3	537.5	521.6	505.9	492.0	478.2	460.4	389.3	284.5	223.3
15°	618.5	594.8	580.9	559.2	537.5	517.7	498.0	482.2	391.3	258.8	199.6
17.5°	669.8	646.2	616.6	592.8	569.2	543.5	519.7	488.0	381.4	239.2	181.8
20°	719.3	685.7	658.1	628.4	594.8	563.2	533.5	505.9	373.4	219.4	166.0
22.5°	772.7	733.1	697.6	660.0	618.5	583.0	547.3	511.8	359.6	201.6	152.2
25°	837.8	792.4	741.0	695.6	652.1	608.6	563.2	519.7	345.8	185.8	142.3
27.5°	916.9	857.6	806.3	748.9	687.7	632.4	583.0	535.6	332.0	173.9	132.4
30°	1017.7	948.5	875.4	802.3	737.0	673.8	604.7	545.4	318.1	162.0	122.5
32.5°	1152.1	1065.1	976.2	891.2	804.2	723.2	650.2	573.1	310.2	152.2	112.7
35°	1330.0	1217.3	1108.6	1001.9	897.1	798.4	703.4	616.6	310.2	140.3	100.8
37.5°	1497.8	1367.5	1229.2	1096.7	972.2	857.6	745.0	640.2	294.5	130.4	91.0
40°	1679.6	1523.5	1361.5	1205.4	1055.3	913.0	784.6	664.0	280.6	118.6	81.0
42.5°	1958.3	1760.8	1549.3	1367.5	1187.6	1011.7	851.6	709.4	262.8	106.7	71.2
45°	2323.9	2072.9	1824.0	1602.6	1373.4	1158.0	968.3	792.4	258.8	96.8	61.2
47.5°	2715.1	2418.7	2126.3	1843.7	1575.0	1324.0	1096.7	885.2	258.8	87.0	53.4
50°	3104.4	2733.0	2420.8	2092.7	1790.4	1493.9	1223.2	982.1	260.9	79.1	43.4
52.5°	3456.2	3059.0	2709.2	2329.8	1995.8	1652.0	1357.6	1077.0	256.9	69.1	35.5
55°	3944.3	3478.0	3072.8	2653.9	2262.6	1875.4	1541.4	1219.2	258.8	61.2	29.6
57.5°	4843.4	4296.0	3808.0	3258.6	2808.0	2308.1	1903.0	1511.8	282.6	51.4	21.7
60°	6133.8	5422.4	4736.8	4066.8	3493.8	2899.0	2373.2	1912.9	332.0	41.5	15.8
62.5°	7001.3	6070.6	5252.5	4513.4	3847.4	3225.0	2651.9	2128.2	365.5	33.6	9.8
63°	7090.2	6127.9	5305.8	4543.1	3863.3	3240.8	2663.8	2144.0	367.6	31.6	9.8
65°	7258.2	6226.7	5335.4	4549.0	3847.4	3219.1	2655.8	2142.1	371.5	25.7	7.9
67.5°	7066.6	6074.5	5163.6	4379.0	3709.1	3090.6	2557.1	2063.0	369.5	17.8	5.9
70°	6319.6	5497.6	4697.2	3966.0	3357.4	2798.2	2327.9	1881.2	339.8	11.9	4.0
72.5°	4639.9	4080.6	3460.2	2932.6	2529.4	2100.6	1792.3	1412.9	262.8	7.9	1.9
75°	1375.3	1252.8	1053.2	928.8	820.1	677.8	602.8	470.3	134.4	4.0	0.0
77.5°	274.7	249.0	223.3	203.5	191.6	164.0	156.1	128.4	55.3	1.9	0.0
80°	144.2	118.6	100.8	88.9	77.0	63.2	53.4	43.4	9.8	0.0	0.0
82.5°	138.4	92.9	67.2	55.3	47.4	37.6	29.6	21.7	5.9	0.0	0.0
85°	51.4	39.5	29.6	23.8	19.8	17.8	13.8	11.9	0.0	0.0	0.0
87.5°	7.9	5.9	5.9	4.0	4.0	1.9	1.9	1.9	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	417.0	417.0	417.0	417.0	417.0	417.0	417.0
2.5°	353.8	337.9	330.0	320.2	320.2	318.1	322.1
5°	294.5	272.8	256.9	245.0	247.0	241.1	243.1
7.5°	249.0	227.3	213.4	205.6	203.5	201.6	201.6
10°	215.4	195.6	183.7	177.8	175.9	175.9	175.9
12.5°	191.6	172.0	162.0	158.0	158.0	156.1	156.1
15°	172.0	156.1	146.3	142.3	142.3	140.3	142.3
17.5°	156.1	140.3	132.4	128.4	128.4	126.5	126.5
20°	142.3	128.4	120.6	114.6	114.6	112.7	114.6
22.5°	130.4	116.6	106.7	102.7	100.8	98.8	100.8
25°	118.6	104.8	94.8	88.9	87.0	87.0	85.0
27.5°	108.7	94.8	83.0	77.0	75.1	75.1	73.1
30°	98.8	83.0	71.2	65.2	63.2	63.2	63.2
32.5°	88.9	71.2	61.2	55.3	53.4	53.4	53.4
35°	79.1	61.2	51.4	45.5	43.4	43.4	43.4
37.5°	67.2	51.4	39.5	35.5	33.6	31.6	31.6
40°	57.4	39.5	29.6	25.7	21.7	21.7	21.7
42.5°	47.4	31.6	21.7	15.8	13.8	11.9	13.8
45°	39.5	23.8	13.8	7.9	5.9	5.9	5.9
47.5°	31.6	15.8	5.9	1.9	1.9	1.9	1.9
50°	23.8	9.8	1.9	0.0	0.0	1.9	1.9
52.5°	17.8	5.9	0.0	0.0	0.0	0.0	0.0
55°	9.8	1.9	0.0	0.0	0.0	0.0	0.0
57.5°	5.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)