

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: P165048

Luminaire Tested: **VST-E05-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165048
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-E05-LED-E-U-SL2-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9294.8 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
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



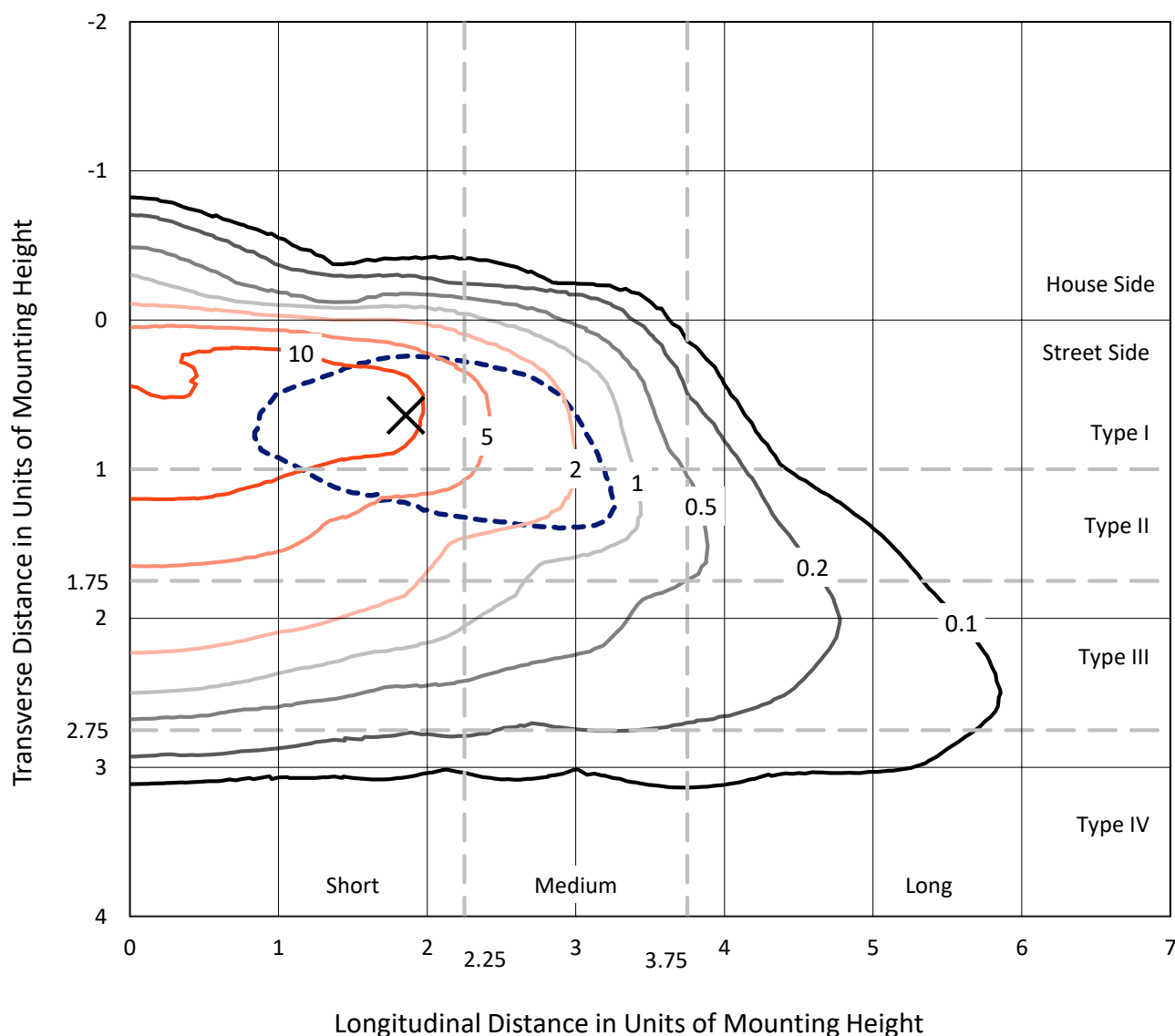
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

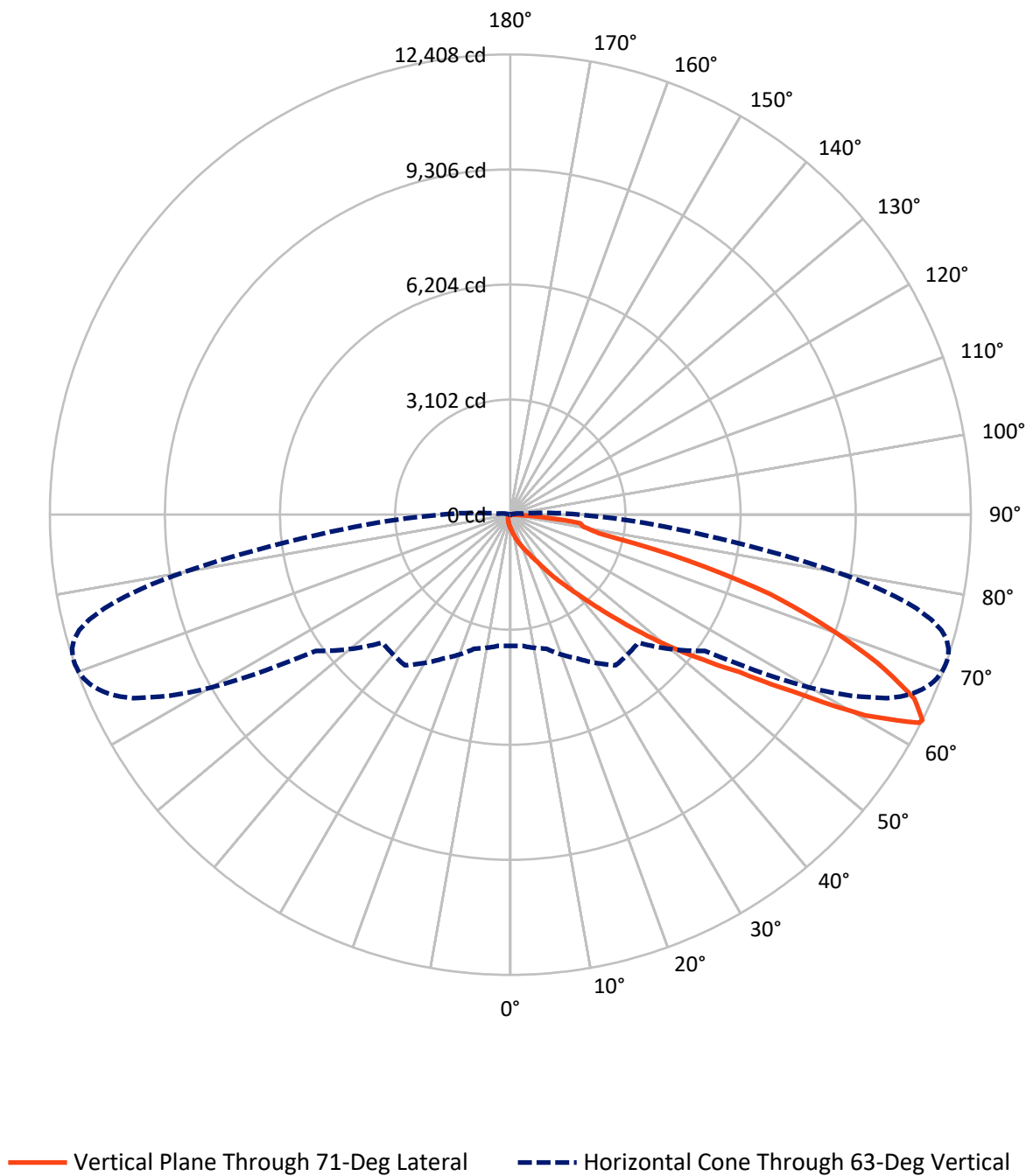


Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.3	0.0	197.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9097.4	0.0	9097.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	9294.8	0.0	9294.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	0.4
10°-20°	152.8	1.6
20°-30°	310.4	3.3
30°-40°	758.4	8.2
40°-50°	1696.1	18.2
50°-60°	2384.9	25.7
60°-70°	2804.5	30.2
70°-80°	1012.7	10.9
80°-90°	135.4	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°	9294.8	100.0
0°-180°	9294.8	100.0

Coefficient of Utilization



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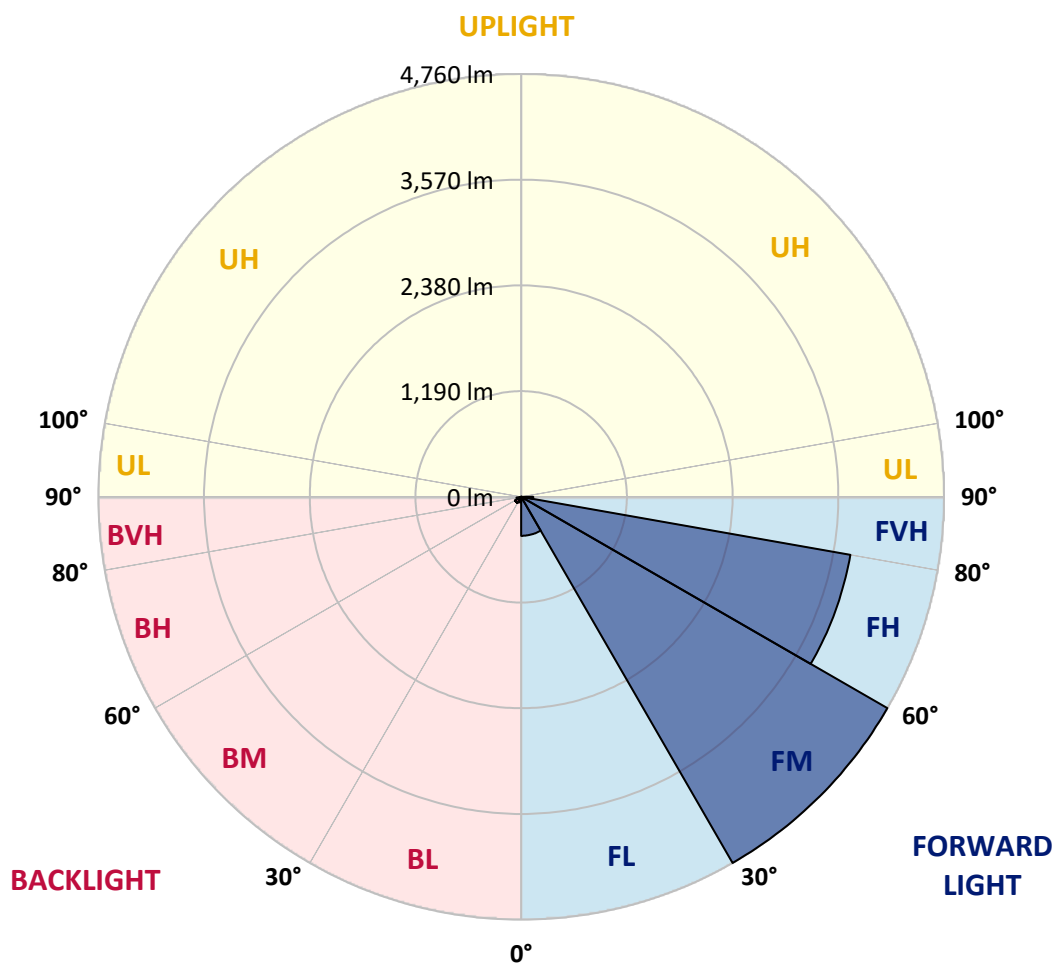
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.2	4.7			
FM	(30°-60°)	4760.0	51.2			
FH	(60°-80°)	3763.1	40.5			G2/5000
FVH	(80°-90°)	135.1	1.5			G2/225
BL	(0°-30°)	63.4	0.7	B0/110		
BM	(30°-60°)	79.5	0.9	B0/220		
BH	(60°-80°)	54.1	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°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	466.4	471.4	468.0	459.6	449.4	436.0	424.1	424.1	422.4	417.3	419.1
5°	611.7	613.4	606.6	586.3	567.7	539.0	506.9	503.5	500.1	495.1	493.5
7.5°	753.7	760.3	753.7	731.6	694.5	650.6	599.9	594.8	584.7	584.7	577.9
10°	899.0	899.0	892.2	866.9	833.0	770.5	706.3	697.9	686.1	682.7	672.5
12.5°	1002.0	1002.0	998.6	985.2	958.1	902.4	824.6	816.2	801.0	795.8	784.0
15°	1042.5	1042.5	1044.3	1056.1	1057.8	1032.5	951.3	944.5	929.3	915.8	910.8
17.5°	1067.9	1066.2	1066.2	1083.2	1113.5	1130.5	1078.0	1071.3	1054.4	1047.7	1030.7
20°	1123.7	1120.3	1110.1	1110.1	1138.9	1198.0	1198.0	1196.3	1177.8	1172.6	1164.2
22.5°	1206.5	1203.1	1172.6	1147.3	1160.8	1235.2	1304.5	1301.1	1294.3	1287.6	1282.5
25°	1341.6	1329.8	1277.4	1203.1	1191.3	1270.7	1385.6	1394.1	1399.1	1399.1	1402.5
27.5°	1546.1	1530.9	1438.0	1299.5	1247.0	1328.1	1475.1	1492.1	1507.2	1510.6	1525.8
30°	1830.0	1803.0	1669.5	1466.7	1346.8	1412.6	1607.0	1625.6	1647.5	1654.3	1677.9
32.5°	2296.3	2281.1	2152.8	1848.5	1591.7	1578.3	1791.2	1814.8	1843.5	1855.3	1884.0
35°	3006.1	3009.5	2904.7	2630.9	2276.1	2090.2	2120.7	2140.9	2151.0	2186.5	2201.7
37.5°	3487.6	3496.0	3519.7	3411.6	3158.1	2968.8	2730.6	2752.6	2700.2	2705.2	2707.0
40°	3751.2	3778.2	3916.8	4021.6	4001.3	3891.5	3700.5	3712.3	3614.4	3592.4	3485.9
42.5°	3926.9	3962.4	4183.8	4508.2	4673.8	4773.5	4729.6	4724.5	4648.5	4619.7	4530.2
45°	4036.8	4068.9	4347.7	4825.9	5207.8	5498.4	5618.3	5631.9	5567.6	5538.9	5464.6
47.5°	4031.7	4068.9	4367.9	4944.2	5506.9	5971.5	6309.5	6326.4	6365.2	6339.9	6344.9
50°	3808.7	3844.2	4145.0	4743.1	5419.0	6187.8	6806.3	6860.3	6922.8	6965.1	6985.4
52.5°	3538.3	3563.7	3830.7	4398.4	5043.8	6098.2	7100.2	7193.2	7286.2	7365.6	7421.3
55°	3438.6	3467.3	3676.8	4148.3	4743.1	5723.1	7237.1	7374.0	7505.9	7636.0	7742.4
57.5°	3491.0	3518.0	3668.4	4030.0	4564.0	5327.7	7276.0	7488.9	7705.2	7916.4	8125.9
60°	3683.6	3712.3	3840.8	4139.8	4516.7	5099.6	7123.9	7477.1	7837.0	8205.4	8551.8
62.5°	3607.6	3619.4	3808.7	4332.5	4854.6	4905.3	6571.4	7064.8	7614.0	8181.8	8741.0
63°	3534.9	3548.5	3741.1	4280.1	4957.7	4876.6	6400.7	6921.2	7500.7	8112.4	8720.8
65°	3205.5	3207.1	3354.1	3780.0	4842.8	4927.3	5640.4	6137.1	6802.9	7536.2	8305.1
67.5°	2392.7	2380.9	2522.8	2847.2	3801.9	4929.0	4841.1	5120.0	5582.9	6233.5	6922.8
70°	848.3	829.7	1059.5	1508.9	2369.0	4031.7	4160.1	4178.7	4307.2	4658.6	5091.2
72.5°	275.4	280.5	337.9	552.6	1091.6	2713.7	3766.4	3709.0	3675.2	3673.5	3730.9
75°	109.8	111.5	135.1	245.0	490.1	1307.9	3298.4	3330.4	3342.3	3359.2	3377.8
77.5°	52.3	57.5	76.0	136.9	243.3	647.2	2360.6	2632.6	2788.0	2908.1	2980.7
80°	18.6	22.0	42.3	84.4	113.2	297.4	1243.6	1500.5	1728.6	2022.7	2276.1
82.5°	0.0	0.0	8.4	59.1	62.5	120.0	510.3	598.1	684.3	887.1	1138.9
85°	0.0	0.0	0.0	16.9	18.6	20.3	172.4	207.9	233.2	272.0	314.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.0	10.2	25.3	38.9
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	415.7	414.0	414.0	410.6	408.9	405.5	403.9	398.7	397.1	397.1	397.1
5°	491.7	484.9	481.6	473.1	468.0	466.4	458.0	454.6	449.4	451.2	442.7
7.5°	576.2	564.4	559.3	547.4	544.1	532.2	528.9	520.4	515.4	505.3	501.9
10°	669.1	653.9	645.5	626.8	621.8	613.4	603.2	593.1	584.7	574.5	569.5
12.5°	775.6	762.1	755.3	730.0	718.2	706.3	692.8	679.3	665.7	657.3	645.5
15°	900.6	878.7	871.9	848.3	828.0	812.8	794.2	777.3	767.1	750.3	738.4
17.5°	1024.0	1002.0	997.0	961.5	939.5	929.3	909.1	887.1	868.5	851.7	833.0
20°	1147.3	1132.1	1118.6	1084.8	1061.2	1044.3	1017.2	995.2	980.0	956.4	932.7
22.5°	1270.7	1255.4	1245.4	1209.9	1187.9	1164.2	1140.6	1116.9	1095.0	1066.2	1039.2
25°	1397.5	1387.3	1382.2	1350.1	1329.8	1307.9	1284.2	1257.2	1230.1	1198.0	1169.3
27.5°	1529.2	1532.6	1522.4	1515.7	1493.7	1478.5	1441.4	1422.8	1402.5	1363.6	1328.1
30°	1696.5	1706.6	1703.2	1708.4	1694.8	1684.7	1655.9	1632.3	1608.6	1571.5	1530.9
32.5°	1907.7	1921.3	1927.9	1946.6	1939.9	1936.5	1927.9	1894.2	1877.3	1813.1	1796.2
35°	2233.8	2227.1	2255.8	2271.0	2264.2	2260.9	2250.8	2232.2	2211.9	2166.2	2124.0
37.5°	2657.9	2664.7	2674.9	2644.5	2624.2	2622.5	2592.0	2573.5	2544.7	2494.1	2443.4
40°	3435.2	3393.0	3345.7	3217.3	3161.5	3129.4	3039.8	3014.5	2965.4	2896.2	2843.9
42.5°	4445.7	4403.4	4261.5	4047.0	3932.0	3773.2	3700.5	3611.0	3541.7	3428.5	3367.7
45°	5449.4	5327.7	5310.8	5060.8	4918.8	4709.3	4579.2	4428.8	4271.7	4123.0	4014.8
47.5°	6296.0	6268.9	6186.2	6034.0	5902.3	5726.5	5559.2	5327.7	5165.5	4954.3	4760.0
50°	6973.5	6971.9	6941.4	6853.6	6743.8	6601.9	6454.8	6258.8	6074.6	5816.1	5608.3
52.5°	7480.5	7507.5	7517.7	7490.6	7448.4	7323.3	7249.0	7085.1	6929.6	6709.9	6485.2
55°	7852.2	7951.9	8002.6	8060.1	8048.3	8004.3	8001.0	7894.4	7823.5	7649.4	7490.6
57.5°	8311.9	8475.7	8632.8	8911.7	8921.8	9019.9	9070.6	9121.3	9134.7	9065.4	9013.1
60°	8896.4	9231.0	9528.4	10111.4	10263.5	10503.4	10658.9	10827.9	10971.4	10983.3	10979.9
62.5°	9308.7	9824.1	10304.0	11169.2	11464.9	11742.0	11949.8	12113.8	12213.4	12314.8	12362.1
63°	9320.6	9885.0	10395.3	11287.5	11598.4	11862.0	12059.7	12211.8	12316.5	12377.3	12407.8
65°	9035.1	9719.4	10327.6	11216.5	11508.8	11774.1	11877.2	11976.9	12027.6	12051.2	11961.6
67.5°	7657.9	8327.1	9036.7	10030.3	10280.3	10598.0	10682.6	10733.3	10756.9	10751.8	10675.8
70°	5726.5	6287.6	7076.6	8212.1	8543.4	8854.3	9046.9	9129.7	9156.7	9148.2	9035.1
72.5°	3997.9	4327.4	4977.9	6241.9	6693.1	7091.8	7330.1	7453.4	7478.8	7428.1	7323.3
75°	3357.5	3374.5	3521.4	4212.5	4634.9	5060.8	5329.4	5407.2	5356.5	5202.7	4935.8
77.5°	2997.6	3034.8	3034.8	3137.8	3220.6	3338.9	3364.3	3175.0	2955.4	2671.5	2441.7
80°	2514.4	2644.5	2735.7	2811.7	2820.1	2796.5	2734.0	2627.5	2458.5	2242.2	2002.3
82.5°	1527.6	1784.4	1889.2	2281.1	2473.7	2603.8	2593.8	2451.8	2323.4	2098.7	1894.2
85°	385.3	415.7	451.2	586.3	657.3	802.6	893.8	936.1	951.3	873.6	790.8
87.5°	37.1	25.3	42.3	32.1	45.7	33.8	45.7	42.3	52.3	55.7	60.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	393.7	392.0	390.3	388.7	386.9	385.3	381.9	381.9	378.5	376.8	375.1
5°	437.6	434.2	432.6	429.2	424.1	420.7	415.7	408.9	403.9	402.1	398.7
7.5°	493.5	484.9	481.6	476.5	469.8	459.6	452.8	447.8	439.4	434.2	424.1
10°	555.9	547.4	537.4	527.2	517.1	505.3	496.7	490.1	476.5	469.8	458.0
12.5°	635.4	620.2	608.3	594.8	581.3	567.7	557.6	537.4	525.5	510.3	500.1
15°	716.4	702.9	689.4	672.5	652.2	630.2	620.2	601.5	586.3	562.7	549.2
17.5°	814.4	789.1	768.9	748.5	730.0	709.7	689.4	660.7	638.8	618.4	591.4
20°	910.8	880.4	858.3	831.4	804.4	772.2	748.5	728.2	697.9	670.9	642.1
22.5°	1013.8	983.4	947.9	920.9	883.8	858.3	826.3	792.5	762.1	726.6	691.1
25°	1138.9	1106.8	1066.2	1030.7	988.4	953.0	914.2	875.3	838.1	797.6	751.9
27.5°	1292.7	1258.8	1214.9	1172.6	1116.9	1073.0	1035.9	983.4	936.1	885.4	833.0
30°	1486.9	1449.8	1395.7	1334.9	1279.1	1230.1	1177.8	1108.5	1056.1	995.2	927.7
32.5°	1740.5	1696.5	1623.8	1566.3	1497.1	1432.9	1360.2	1290.9	1216.7	1137.2	1059.5
35°	2059.8	2019.3	1934.7	1850.3	1774.2	1698.2	1607.0	1527.6	1422.8	1326.4	1226.7
37.5°	2391.0	2318.3	2240.6	2149.4	2054.7	1963.5	1851.9	1742.1	1622.2	1517.4	1392.3
40°	2769.5	2681.6	2617.4	2519.4	2385.9	2255.8	2152.8	2015.9	1865.5	1725.2	1578.3
42.5°	3288.3	3190.3	3075.3	2926.7	2830.3	2678.2	2544.7	2382.5	2184.8	2027.7	1850.3
45°	3888.1	3754.6	3643.1	3499.4	3382.9	3193.7	3038.2	2821.9	2624.2	2418.0	2201.7
47.5°	4572.4	4406.8	4244.6	4102.7	3916.8	3730.9	3533.3	3303.4	3050.0	2823.5	2566.7
50°	5358.1	5123.2	4898.5	4716.1	4460.9	4246.3	4031.7	3773.2	3492.7	3232.4	2940.1
52.5°	6231.7	5959.7	5662.4	5381.8	5086.1	4810.7	4552.1	4254.7	3942.2	3624.5	3298.4
55°	7286.2	7081.7	6732.0	6375.4	5979.9	5611.7	5278.7	4910.4	4530.2	4112.8	3769.8
57.5°	8937.1	8837.3	8545.0	8188.5	7673.1	7225.3	6661.0	6209.8	5659.0	5084.5	4641.7
60°	11174.3	11050.8	10887.0	10598.0	10189.1	9580.8	8959.0	8257.8	7419.7	6623.8	5868.5
62.5°	12367.2	12323.2	12189.8	11990.3	11608.5	11128.6	10501.8	9731.2	8785.0	7818.4	6855.3
63°	12402.6	12346.9	12232.0	12029.2	11693.0	11228.4	10613.2	9864.7	8938.7	7953.7	6970.1
65°	11922.8	11900.9	11784.2	11562.9	11333.1	10978.2	10501.8	9857.9	9080.6	8149.6	7171.2
67.5°	10574.4	10508.4	10329.4	10261.8	10101.3	9854.5	9491.3	9048.5	8492.7	7760.9	6916.1
70°	8943.7	8845.7	8621.0	8501.1	8305.1	8149.6	7928.3	7612.3	7269.2	6759.0	6128.7
72.5°	7215.2	7012.4	6806.3	6493.7	6219.9	5942.8	5697.8	5474.8	5097.9	4891.8	4413.6
75°	4685.6	4317.2	3964.2	3491.0	3065.2	2688.4	2321.7	2135.8	1748.9	1591.7	1367.0
77.5°	2223.7	2017.5	1740.5	1525.8	1252.1	1022.3	834.7	626.8	491.7	385.3	294.0
80°	1794.5	1620.4	1453.2	1258.8	1052.7	839.8	643.8	481.6	341.3	236.5	167.3
82.5°	1600.2	1410.9	1204.8	1071.3	931.1	762.1	625.2	510.3	376.8	275.4	187.6
85°	621.8	523.8	403.9	329.5	256.8	211.2	191.0	131.8	103.1	81.1	62.5
87.5°	54.1	43.9	35.5	23.7	25.3	13.5	15.2	10.2	8.4	8.4	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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	373.4	371.8	370.0	366.6	366.6	363.3	361.6	360.0	351.4	332.9	317.7
5°	392.0	388.7	385.3	380.2	376.8	371.8	368.4	363.3	344.7	309.3	278.8
7.5°	419.1	412.3	407.3	397.1	392.0	385.3	380.2	371.8	341.3	287.2	245.0
10°	451.2	439.4	430.9	419.1	408.9	400.5	392.0	380.2	337.9	263.6	214.6
12.5°	490.1	476.5	459.6	446.0	432.6	420.7	408.9	393.7	332.9	243.3	191.0
15°	528.9	508.6	496.7	478.2	459.6	442.7	425.8	412.3	334.6	221.3	170.6
17.5°	572.8	552.6	527.2	506.9	486.7	464.7	444.4	417.3	326.1	204.5	155.5
20°	615.0	586.3	562.7	537.4	508.6	481.6	456.2	432.6	319.3	187.6	141.9
22.5°	660.7	626.8	596.5	564.4	528.9	498.5	468.0	437.6	307.5	172.4	130.1
25°	716.4	677.5	633.6	594.8	557.6	520.4	481.6	444.4	295.7	158.8	121.7
27.5°	784.0	733.4	689.4	640.4	588.1	540.8	498.5	458.0	283.9	148.7	113.2
30°	870.2	811.0	748.5	686.1	630.2	576.2	517.1	466.4	272.0	138.5	104.8
32.5°	985.2	910.8	834.7	762.1	687.7	618.4	555.9	490.1	265.2	130.1	96.4
35°	1137.2	1040.9	947.9	856.7	767.1	682.7	601.5	527.2	265.2	120.0	86.2
37.5°	1280.8	1169.3	1051.0	937.8	831.4	733.4	637.0	547.4	251.8	111.5	77.8
40°	1436.2	1302.7	1164.2	1030.7	902.4	780.7	670.9	567.7	239.9	101.4	69.3
42.5°	1674.5	1505.6	1324.8	1169.3	1015.5	865.1	728.2	606.6	224.7	91.2	60.8
45°	1987.2	1772.5	1559.7	1370.4	1174.4	990.2	828.0	677.5	221.3	82.8	52.3
47.5°	2321.7	2068.2	1818.2	1576.5	1346.8	1132.1	937.8	757.0	221.3	74.4	45.7
50°	2654.5	2337.0	2070.0	1789.4	1530.9	1277.4	1045.9	839.8	223.1	67.6	37.1
52.5°	2955.4	2615.7	2316.6	1992.2	1706.6	1412.6	1160.8	920.9	219.7	59.1	30.4
55°	3372.7	2974.0	2627.5	2269.3	1934.7	1603.6	1318.0	1042.5	221.3	52.3	25.3
57.5°	4141.6	3673.5	3256.1	2786.4	2401.1	1973.6	1627.2	1292.7	241.6	43.9	18.6
60°	5244.9	4636.7	4050.3	3477.5	2987.5	2478.9	2029.3	1635.7	283.9	35.5	13.5
62.5°	5986.7	5190.9	4491.4	3859.4	3289.9	2757.7	2267.6	1819.8	312.6	28.7	8.4
63°	6062.7	5239.9	4536.9	3884.7	3303.4	2771.2	2277.7	1833.3	314.3	27.0	8.4
65°	6206.4	5324.4	4562.3	3889.8	3289.9	2752.6	2271.0	1831.7	317.7	22.0	6.8
67.5°	6042.5	5194.2	4415.3	3744.5	3171.6	2642.7	2186.5	1764.1	315.9	15.2	5.0
70°	5403.8	4700.9	4016.5	3391.3	2870.8	2392.7	1990.5	1608.6	290.6	10.2	3.4
72.5°	3967.5	3489.3	2958.8	2507.6	2162.8	1796.2	1532.6	1208.1	224.7	6.8	1.6
75°	1176.0	1071.3	900.6	794.2	701.2	579.5	515.4	402.1	114.9	3.4	0.0
77.5°	234.9	212.9	191.0	174.0	163.9	140.3	133.5	109.8	47.3	1.6	0.0
80°	123.3	101.4	86.2	76.0	65.9	54.1	45.7	37.1	8.4	0.0	0.0
82.5°	118.3	79.4	57.5	47.3	40.5	32.1	25.3	18.6	5.0	0.0	0.0
85°	43.9	33.8	25.3	20.3	16.9	15.2	11.8	10.2	0.0	0.0	0.0
87.5°	6.8	5.0	5.0	3.4	3.4	1.6	1.6	1.6	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°	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	302.5	289.0	282.2	273.8	273.8	272.0	275.4
5°	251.8	233.2	219.7	209.5	211.2	206.1	207.9
7.5°	212.9	194.3	182.4	175.8	174.0	172.4	172.4
10°	184.2	167.3	157.1	152.1	150.4	150.4	150.4
12.5°	163.9	147.0	138.5	135.1	135.1	133.5	133.5
15°	147.0	133.5	125.1	121.7	121.7	120.0	121.7
17.5°	133.5	120.0	113.2	109.8	109.8	108.2	108.2
20°	121.7	109.8	103.1	98.0	98.0	96.4	98.0
22.5°	111.5	99.7	91.2	87.8	86.2	84.4	86.2
25°	101.4	89.6	81.1	76.0	74.4	74.4	72.6
27.5°	93.0	81.1	71.0	65.9	64.2	64.2	62.5
30°	84.4	71.0	60.8	55.7	54.1	54.1	54.1
32.5°	76.0	60.8	52.3	47.3	45.7	45.7	45.7
35°	67.6	52.3	43.9	38.9	37.1	37.1	37.1
37.5°	57.5	43.9	33.8	30.4	28.7	27.0	27.0
40°	49.0	33.8	25.3	22.0	18.6	18.6	18.6
42.5°	40.5	27.0	18.6	13.5	11.8	10.2	11.8
45°	33.8	20.3	11.8	6.8	5.0	5.0	5.0
47.5°	27.0	13.5	5.0	1.6	1.6	1.6	1.6
50°	20.3	8.4	1.6	0.0	0.0	1.6	1.6
52.5°	15.2	5.0	0.0	0.0	0.0	0.0	0.0
55°	8.4	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	5.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)