

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: P158202

Luminaire Tested: **VST-E02-LED-E-U-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158202
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E02-LED-E-U-SL2-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6174.6 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

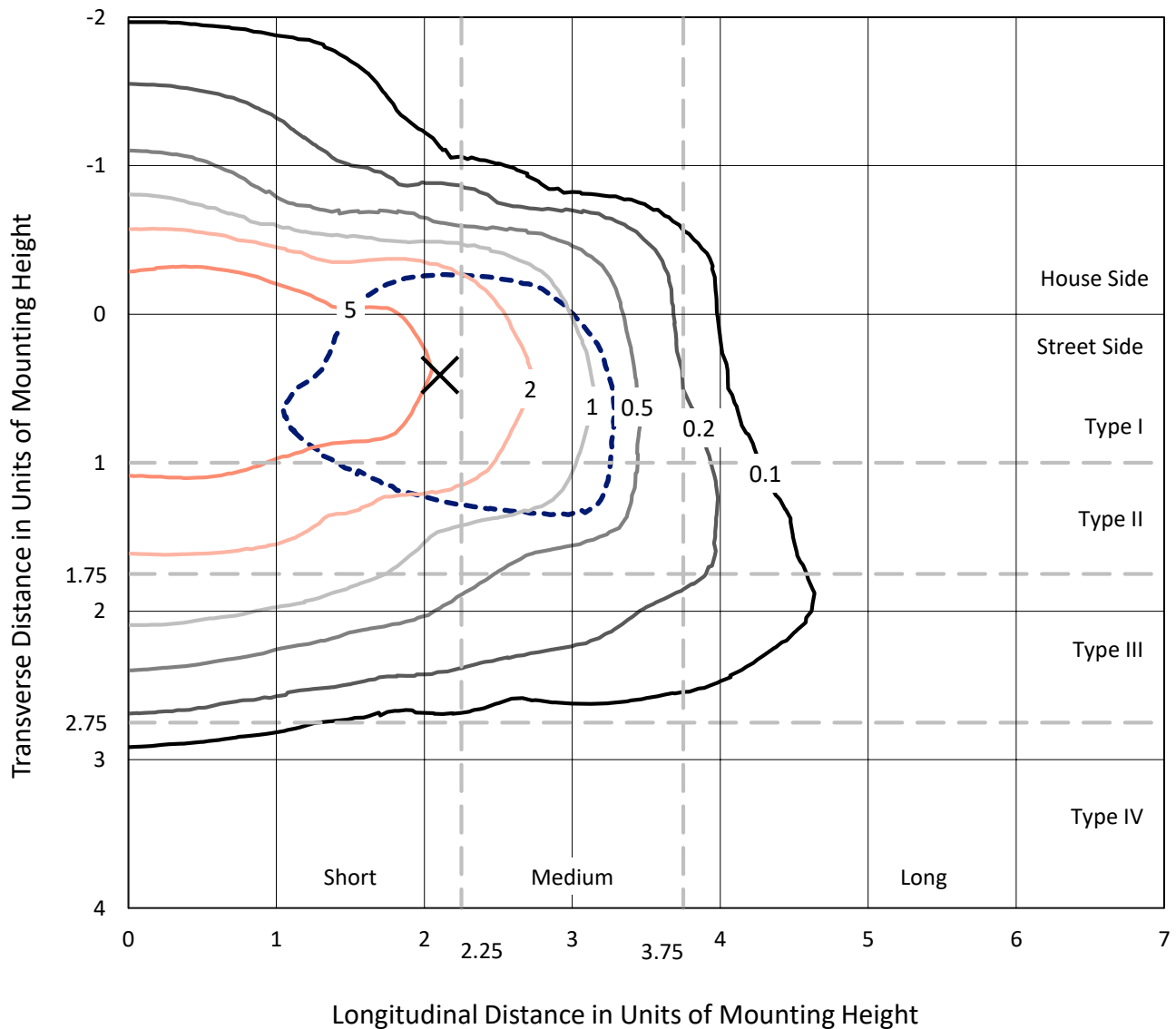


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

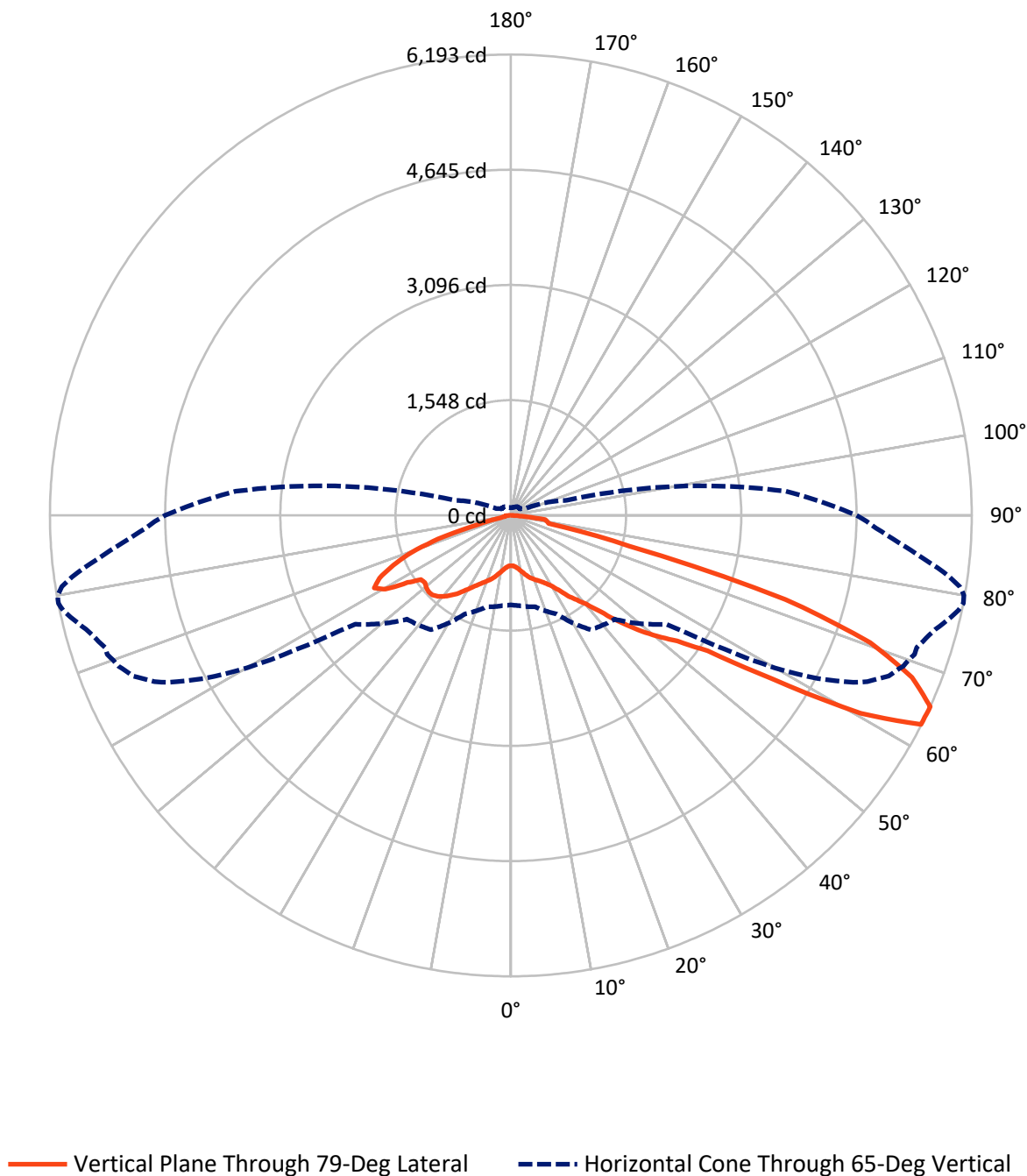


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.8	0.0	1418.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4755.8	0.0	4755.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	6174.6	0.0	6174.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.1
10°-20°	217.1	3.5
20°-30°	374.2	6.1
30°-40°	613.0	9.9
40°-50°	1026.6	16.6
50°-60°	1388.6	22.5
60°-70°	1710.0	27.7
70°-80°	661.9	10.7
80°-90°	116.4	1.9
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°	6174.6	100.0
0°-180°	6174.6	100.0

Coefficient of Utilization



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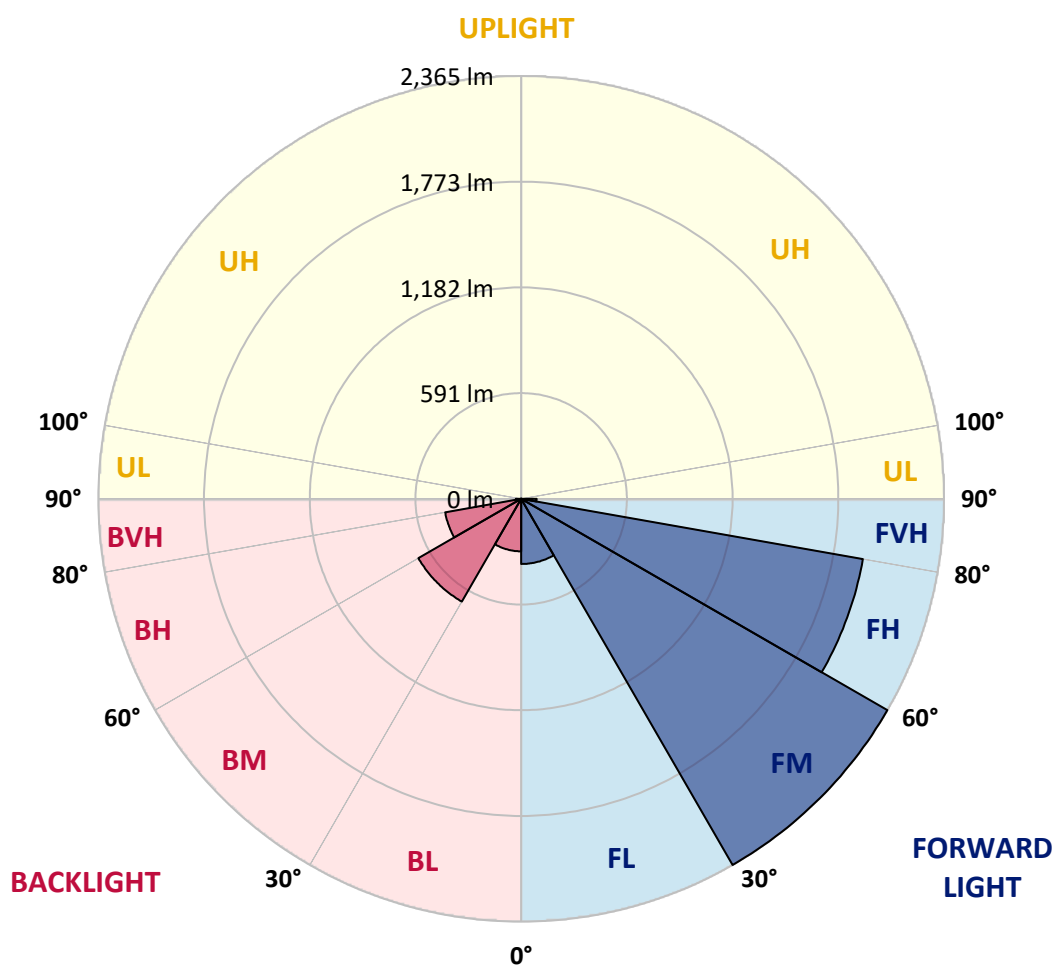
CATALOG NUMBER: VST-E02-LED-E-U-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.5	5.9			
FM	(30°-60°)	2364.6	38.3			
FH	(60°-80°)	1940.3	31.4			G2/5000
FVH	(80°-90°)	86.4	1.4			G1/100
BL	(0°-30°)	293.6	4.8	B1/500		
BM	(30°-60°)	663.5	10.7	B1/1000		
BH	(60°-80°)	431.7	7.0	B1/500		G1/500
BVH	(80°-90°)	30.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	676.8	674.8	676.8	678.5	679.7	681.4	680.9	680.5	680.1	680.5	680.5
5°	682.6	682.1	684.2	685.9	688.7	690.8	693.2	693.2	693.2	692.8	693.7
7.5°	701.0	700.6	702.7	704.3	706.8	710.9	714.2	715.8	715.4	715.4	715.4
10°	731.4	729.8	729.8	729.8	733.0	735.9	743.3	744.1	745.8	745.0	745.4
12.5°	761.0	761.4	760.1	758.9	759.3	765.1	775.7	777.8	778.2	779.4	780.2
15°	787.6	787.2	784.4	781.5	785.2	795.0	809.0	812.7	812.7	815.2	816.8
17.5°	812.3	811.4	806.1	801.2	804.9	821.7	843.5	845.9	849.6	850.9	852.5
20°	841.4	839.8	833.6	820.5	820.5	843.5	872.2	874.7	877.9	878.8	881.6
22.5°	882.1	877.9	864.8	841.0	834.4	861.1	896.4	897.7	900.1	903.4	905.8
25°	928.0	928.9	907.5	866.0	851.6	879.6	919.8	921.8	926.3	928.9	931.7
27.5°	975.6	976.9	953.0	901.3	877.1	905.0	951.4	953.9	959.2	962.1	966.6
30°	1029.8	1031.5	1008.5	956.3	919.4	942.4	998.2	1004.8	1009.3	1013.0	1020.4
32.5°	1159.9	1150.1	1134.1	1078.6	1020.4	1018.7	1073.7	1081.1	1087.3	1095.1	1102.0
35°	1323.7	1329.8	1338.1	1300.7	1249.4	1212.1	1216.6	1212.4	1218.2	1229.7	1236.7
37.5°	1453.4	1466.9	1502.6	1526.8	1524.8	1517.4	1448.5	1448.5	1452.1	1446.0	1445.2
40°	1555.1	1563.8	1636.9	1730.8	1810.1	1849.0	1794.5	1786.7	1790.8	1759.1	1760.4
42.5°	1607.7	1620.4	1725.5	1890.5	2047.7	2172.9	2156.0	2150.7	2138.4	2130.6	2125.7
45°	1634.4	1649.6	1774.7	2001.3	2230.3	2423.6	2510.7	2509.9	2498.8	2489.8	2485.6
47.5°	1620.8	1634.0	1767.4	2035.0	2326.4	2585.4	2777.9	2789.8	2786.5	2799.6	2804.9
50°	1532.2	1549.0	1682.8	1962.3	2286.2	2649.0	2963.0	2985.1	3015.1	3034.0	3059.0
52.5°	1452.1	1466.1	1586.8	1844.5	2154.0	2597.3	3074.6	3120.2	3161.2	3199.8	3229.7
55°	1368.4	1382.3	1488.2	1722.2	2020.6	2444.6	3125.5	3192.0	3256.0	3321.3	3381.2
57.5°	1336.8	1351.6	1430.4	1627.4	1911.4	2293.1	3150.5	3259.7	3364.0	3474.8	3589.7
60°	1418.9	1432.0	1492.0	1629.8	1828.1	2141.7	3100.1	3271.6	3451.0	3633.7	3810.1
62.5°	1393.9	1400.8	1475.5	1689.4	1934.4	1992.3	2881.3	3107.9	3368.5	3636.1	3906.6
65°	1202.6	1216.1	1272.4	1460.3	1874.9	1972.2	2548.0	2775.8	3083.2	3399.7	3762.1
67.5°	862.7	843.8	887.4	1052.0	1454.6	1968.9	2172.9	2341.6	2582.5	2825.1	3122.2
70°	392.0	382.9	417.0	547.1	877.5	1556.0	1837.1	1894.2	1983.7	2147.0	2347.7
72.5°	154.7	154.3	176.5	226.1	415.0	1001.5	1544.9	1577.8	1609.3	1680.4	1766.9
75°	101.4	101.4	107.9	121.9	204.4	483.5	1306.9	1336.8	1385.2	1405.4	1442.3
77.5°	76.3	76.7	79.6	82.9	112.9	254.5	922.3	1028.6	1110.7	1171.8	1216.6
80°	54.2	56.6	62.0	64.0	73.4	144.9	521.3	598.0	690.8	789.7	914.0
82.5°	40.6	43.5	52.6	55.0	58.3	82.5	235.2	266.8	311.5	403.9	580.8
85°	18.9	20.9	36.1	39.4	42.3	47.6	119.5	133.4	151.4	165.8	193.3
87.5°	2.9	2.0	6.2	8.6	13.6	14.0	41.0	48.8	52.9	63.6	66.1
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°	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	680.5	680.9	681.4	680.5	680.9	680.9	680.1	679.7	679.7	679.7	680.1
5°	693.7	694.4	693.7	694.1	695.7	695.3	694.4	694.1	695.7	696.1	694.9
7.5°	717.1	717.5	715.8	717.8	718.7	719.1	719.1	719.9	719.9	721.1	719.9
10°	747.0	747.0	749.9	749.5	749.9	750.7	751.1	752.8	754.0	754.0	754.8
12.5°	781.5	781.9	784.7	785.2	786.8	787.2	789.7	788.0	792.2	792.2	793.4
15°	817.2	820.1	820.5	824.6	825.4	825.8	829.1	829.1	832.0	832.4	833.2
17.5°	852.5	854.9	856.6	859.9	862.7	864.0	865.2	867.7	869.7	870.5	872.6
20°	882.8	885.3	887.0	890.2	892.7	894.8	896.0	898.9	900.9	901.7	904.6
22.5°	908.3	910.0	912.8	917.3	918.2	920.6	924.3	926.3	927.2	929.6	932.9
25°	935.4	937.9	939.5	943.6	946.9	951.0	954.3	957.5	958.4	961.7	964.6
27.5°	971.5	974.0	974.4	982.6	985.9	991.6	995.3	1000.3	1002.7	1005.6	1011.3
30°	1024.9	1030.6	1033.1	1042.5	1044.2	1050.7	1057.3	1058.9	1062.7	1063.0	1072.5
32.5°	1106.6	1114.7	1118.0	1127.9	1130.3	1136.5	1140.2	1148.8	1149.2	1153.3	1155.4
35°	1240.4	1238.3	1251.0	1253.5	1260.9	1266.2	1269.9	1269.9	1277.7	1278.1	1280.6
37.5°	1423.0	1418.9	1422.2	1407.4	1411.1	1404.5	1403.3	1405.0	1401.7	1402.5	1402.1
40°	1715.2	1696.7	1677.5	1631.9	1622.0	1603.2	1588.4	1576.5	1565.0	1552.7	1544.5
42.5°	2081.8	2055.1	2026.4	1953.3	1919.2	1882.7	1847.0	1826.5	1785.4	1760.4	1746.8
45°	2465.9	2434.7	2394.5	2333.8	2285.3	2246.3	2181.1	2150.3	2086.7	2055.1	2012.4
47.5°	2780.8	2781.2	2748.7	2687.2	2635.4	2609.6	2569.0	2509.4	2437.2	2396.6	2320.6
50°	3056.2	3055.7	3053.7	3016.7	2980.6	2952.3	2916.6	2862.8	2803.7	2757.8	2670.7
52.5°	3259.7	3286.8	3298.3	3297.9	3293.4	3280.3	3253.1	3206.8	3146.9	3121.0	3051.7
55°	3428.0	3487.1	3517.9	3585.2	3591.4	3613.1	3589.3	3589.7	3554.4	3556.9	3534.7
57.5°	3682.9	3790.9	3852.8	4001.8	4076.5	4166.8	4150.8	4226.3	4253.8	4288.7	4335.1
60°	3972.2	4173.8	4320.7	4617.1	4737.7	4883.9	4964.3	5050.1	5112.5	5176.5	5223.7
62.5°	4179.1	4443.8	4685.2	5107.6	5264.3	5418.2	5519.6	5623.4	5693.6	5739.6	5773.7
65°	4094.6	4387.2	4672.5	5115.4	5286.1	5397.7	5518.4	5578.3	5648.5	5686.7	5735.5
67.5°	3479.3	3772.8	4078.6	4601.0	4779.6	4933.9	5027.9	5105.5	5162.2	5210.6	5266.8
70°	2587.4	2908.4	3224.5	3797.4	4022.8	4245.6	4356.4	4452.5	4511.6	4560.4	4622.4
72.5°	1862.2	2063.3	2260.7	2902.3	3127.6	3415.7	3530.6	3637.3	3714.1	3711.6	3777.3
75°	1482.5	1564.2	1652.0	1983.2	2145.0	2387.9	2452.4	2512.3	2476.2	2406.8	2402.7
77.5°	1234.2	1267.9	1297.4	1401.2	1425.1	1482.9	1450.9	1417.7	1310.5	1220.2	1172.6
80°	1001.9	1068.4	1111.9	1185.8	1216.1	1233.4	1237.9	1226.4	1187.0	1132.4	1045.4
82.5°	745.0	871.4	957.5	1102.9	1156.2	1167.3	1188.7	1175.5	1149.7	1105.3	1042.9
85°	218.3	247.1	283.2	384.2	450.2	506.5	563.9	592.3	609.9	585.3	520.9
87.5°	76.7	86.6	96.8	133.4	142.0	171.5	168.3	198.7	199.9	208.5	199.5
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	679.7	679.7	679.7	680.1	680.1	680.1	679.3	678.9	679.3	680.1	680.1
5°	695.7	696.1	697.0	695.3	695.7	697.0	696.1	695.7	696.1	697.0	696.1
7.5°	721.6	722.0	721.1	722.8	722.8	723.6	724.9	723.6	724.0	724.4	724.9
10°	755.2	755.6	756.4	757.7	758.1	758.9	759.7	761.0	761.0	760.1	762.2
12.5°	795.4	795.0	795.8	797.5	798.3	799.6	802.0	802.0	803.6	803.2	805.3
15°	834.8	836.9	837.3	840.2	841.4	843.5	846.4	848.0	848.0	850.4	851.3
17.5°	874.3	875.9	877.5	880.0	881.6	882.8	886.1	888.2	887.8	892.3	892.3
20°	904.6	907.9	910.0	911.6	914.5	916.5	919.0	921.4	923.1	926.0	926.8
22.5°	934.1	936.2	939.1	941.2	944.4	946.9	949.7	951.8	954.7	958.4	959.6
25°	967.0	970.3	973.6	976.4	978.9	981.8	986.7	991.2	995.3	998.6	999.8
27.5°	1012.6	1016.3	1021.2	1023.2	1026.9	1029.4	1036.8	1042.5	1044.6	1050.3	1052.0
30°	1074.1	1078.3	1083.2	1085.6	1092.2	1095.5	1103.3	1109.4	1111.5	1118.5	1119.7
32.5°	1163.2	1165.7	1175.5	1175.1	1184.1	1193.6	1198.1	1203.0	1212.1	1215.7	1217.0
35°	1286.8	1292.5	1299.5	1299.1	1310.5	1315.9	1324.9	1330.3	1336.8	1336.4	1343.4
37.5°	1406.2	1408.2	1410.7	1416.0	1424.2	1431.6	1434.9	1440.2	1445.2	1452.5	1461.6
40°	1536.3	1541.2	1541.6	1544.5	1548.6	1558.0	1564.2	1570.0	1586.8	1597.4	1602.8
42.5°	1731.2	1730.0	1721.8	1727.2	1729.6	1744.0	1748.5	1766.2	1785.0	1807.6	1813.7
45°	1982.0	1965.6	1960.7	1958.6	1971.8	1979.2	1997.6	2030.5	2050.1	2071.5	2081.8
47.5°	2290.7	2239.4	2215.1	2209.8	2223.4	2255.0	2261.1	2293.6	2319.4	2335.0	2345.3
50°	2599.7	2559.5	2508.6	2491.4	2487.7	2516.8	2523.8	2550.9	2577.2	2581.7	2576.3
52.5°	2988.0	2922.4	2838.2	2807.8	2783.6	2785.7	2791.4	2802.9	2819.8	2812.7	2798.4
55°	3484.7	3410.0	3368.5	3311.0	3274.5	3268.0	3242.9	3208.4	3207.2	3211.7	3168.6
57.5°	4311.7	4280.5	4298.2	4292.0	4255.9	4277.6	4164.8	4132.7	4107.3	4063.0	4023.2
60°	5265.5	5297.6	5334.1	5418.2	5414.6	5499.1	5420.7	5401.0	5377.2	5240.5	5173.6
62.5°	5833.2	5845.9	5899.7	5978.1	6055.3	6136.1	6172.6	6185.3	6135.7	6024.1	5884.5
65°	5734.3	5790.5	5842.6	5910.4	5989.6	6070.4	6147.6	6192.8	6181.3	6107.4	5953.9
67.5°	5284.9	5344.0	5420.3	5491.3	5576.7	5646.8	5731.4	5814.3	5816.8	5779.9	5673.1
70°	4628.9	4697.5	4776.3	4816.1	4908.5	4972.1	5042.3	5124.4	5151.1	5155.6	5031.2
72.5°	3763.3	3792.1	3830.6	3809.7	3828.2	3868.8	3850.0	3856.5	3755.2	3774.0	3620.5
75°	2291.9	2265.7	2149.1	2042.8	1913.1	1813.3	1837.1	1646.7	1459.1	1449.7	1314.2
77.5°	1162.4	1120.5	1048.3	973.1	863.2	737.2	632.1	518.8	423.2	368.6	316.4
80°	990.0	960.4	920.6	866.0	786.0	692.8	583.3	497.0	417.0	333.7	267.2
82.5°	947.3	857.0	799.1	753.6	667.0	580.8	520.9	461.8	405.1	353.8	280.3
85°	470.0	415.8	351.7	311.9	240.1	188.0	176.1	144.9	135.1	104.3	87.8
87.5°	158.0	129.3	96.5	81.2	64.9	52.9	52.1	46.4	46.0	41.9	38.6
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°	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	679.7	680.5	680.5	679.7	680.1	679.3	679.7	680.1	678.9	678.5	677.2
5°	696.5	696.1	696.1	696.5	697.7	698.2	696.1	697.0	697.3	695.3	690.8
7.5°	724.4	724.4	725.6	725.3	727.7	726.9	726.5	726.5	726.5	722.4	715.0
10°	762.2	762.2	763.4	765.1	765.5	764.6	764.6	765.1	767.1	758.9	747.4
12.5°	804.5	806.5	806.1	806.1	811.0	809.8	808.1	809.8	811.9	800.3	784.0
15°	851.6	852.9	853.7	856.6	855.8	858.7	859.4	858.7	860.7	845.9	818.4
17.5°	894.4	896.8	897.7	900.9	900.9	901.3	904.6	903.4	903.8	887.0	847.6
20°	929.6	932.1	933.4	937.0	937.9	939.5	940.7	941.6	943.6	923.5	871.4
22.5°	964.9	967.0	969.1	971.5	974.8	976.9	978.5	979.3	983.0	959.6	893.9
25°	1004.3	1008.8	1010.9	1015.0	1018.3	1021.6	1024.1	1024.4	1030.6	1001.5	912.4
27.5°	1056.9	1063.0	1066.3	1072.9	1076.2	1079.5	1078.6	1083.5	1092.2	1049.5	926.8
30°	1125.8	1133.6	1135.7	1142.3	1147.6	1150.9	1154.6	1158.7	1164.4	1102.9	933.8
32.5°	1221.9	1233.8	1236.7	1240.4	1248.2	1253.9	1256.3	1262.9	1264.6	1153.3	931.7
35°	1353.7	1348.3	1362.2	1365.5	1376.6	1381.1	1384.0	1392.7	1386.1	1208.3	918.2
37.5°	1472.6	1471.0	1484.6	1492.0	1506.3	1503.1	1510.0	1515.8	1492.4	1247.3	893.1
40°	1618.0	1615.9	1634.8	1637.3	1659.4	1654.5	1657.4	1661.9	1609.7	1274.4	847.6
42.5°	1820.7	1821.5	1841.6	1844.1	1847.0	1856.0	1841.2	1842.1	1734.5	1281.8	772.4
45°	2087.9	2102.3	2090.0	2090.4	2089.6	2072.3	2053.9	2032.1	1864.2	1256.3	675.6
47.5°	2346.9	2337.1	2321.5	2307.1	2295.2	2268.1	2241.0	2204.1	1976.3	1196.0	567.7
50°	2568.5	2546.4	2532.4	2492.6	2464.3	2429.0	2391.2	2348.9	2068.2	1109.0	466.7
52.5°	2774.6	2751.6	2699.5	2658.0	2617.4	2570.6	2526.7	2477.0	2149.5	1009.7	389.5
55°	3116.9	3096.8	3044.6	2968.7	2918.6	2854.2	2796.4	2729.0	2314.1	929.2	338.6
57.5°	3913.6	3896.3	3786.7	3738.7	3672.7	3510.9	3487.1	3382.0	2755.3	919.8	308.6
60°	5035.3	4961.4	4870.3	4739.0	4584.2	4530.9	4411.9	4271.9	3465.4	945.7	284.5
62.5°	5724.0	5555.8	5422.0	5270.5	5128.1	5005.7	4875.7	4737.3	3828.6	911.6	254.5
65°	5775.7	5577.9	5401.0	5223.3	5063.2	4910.9	4784.5	4646.2	3710.4	783.5	215.5
67.5°	5490.9	5282.4	5089.5	4888.0	4726.3	4588.7	4427.9	4294.9	3377.1	609.9	179.3
70°	4903.6	4720.5	4554.2	4337.2	4202.9	4035.5	3933.2	3767.0	2943.7	415.8	148.1
72.5°	3531.8	3394.0	3339.8	3188.3	3012.7	2914.1	2866.9	2705.6	2175.4	258.2	121.1
75°	1193.2	1227.2	1149.2	1029.8	1088.1	998.2	1034.7	958.0	920.2	148.1	101.8
77.5°	264.7	248.7	229.9	213.4	212.2	199.5	211.4	199.9	213.8	94.4	89.9
80°	208.9	165.0	140.4	128.0	121.5	117.8	114.9	111.7	101.8	80.5	82.9
82.5°	225.7	170.3	124.8	99.7	85.4	80.0	78.8	75.5	74.7	78.0	83.8
85°	72.2	60.4	51.3	48.4	44.8	42.7	41.9	40.6	49.3	85.0	80.5
87.5°	37.7	33.2	29.6	28.3	24.6	23.0	22.6	23.0	34.5	85.0	58.3
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°	675.6	675.6	675.6	675.6	675.6	675.6	675.6
2.5°	676.0	675.6	674.8	674.3	673.9	671.9	673.6
5°	688.7	684.6	680.9	676.4	673.9	671.9	671.9
7.5°	708.0	696.5	687.1	676.8	669.8	664.5	663.7
10°	732.2	710.0	688.3	669.8	656.7	646.9	645.6
12.5°	755.2	721.6	687.1	656.7	636.2	622.3	621.4
15°	776.6	727.7	677.6	632.9	602.1	583.6	581.6
17.5°	793.4	724.0	656.3	599.6	557.8	536.0	534.8
20°	797.1	709.3	625.9	558.6	514.3	491.3	485.9
22.5°	793.8	682.6	588.2	513.5	462.5	439.6	436.7
25°	784.0	650.2	541.4	460.9	413.7	390.4	384.6
27.5°	766.3	611.9	490.9	410.0	363.2	340.7	334.9
30°	740.0	566.0	437.1	362.4	314.0	295.9	290.2
32.5°	703.5	510.2	384.2	313.6	273.4	259.0	256.5
35°	653.0	446.2	328.7	273.4	243.8	235.2	233.9
37.5°	588.6	382.1	282.4	244.6	223.3	217.9	217.1
40°	504.4	316.4	249.5	224.1	208.5	204.0	203.2
42.5°	417.8	267.2	225.4	207.7	194.9	190.9	189.6
45°	341.9	233.9	207.3	194.2	182.2	177.7	177.3
47.5°	285.2	214.7	192.5	181.8	169.9	164.6	165.0
50°	243.8	197.0	180.2	171.2	157.6	152.7	153.1
52.5°	215.5	179.3	168.7	158.5	146.9	142.0	142.0
55°	193.3	165.0	157.6	146.5	137.5	133.0	132.6
57.5°	175.3	153.5	146.9	137.9	128.9	123.5	123.5
60°	164.2	145.3	140.0	131.8	121.1	115.3	114.9
62.5°	157.6	142.9	138.3	126.8	114.9	109.2	107.9
65°	152.7	148.6	142.9	124.0	110.0	103.9	102.6
67.5°	153.1	162.1	153.9	125.6	108.4	99.3	97.7
70°	155.6	172.8	161.7	129.3	115.3	97.3	93.6
72.5°	143.2	156.4	145.7	123.1	112.4	93.6	89.0
75°	119.5	114.1	104.6	100.1	101.0	85.0	83.3
77.5°	96.8	85.0	76.0	79.6	85.0	72.7	71.0
80°	84.1	68.9	64.4	70.6	77.2	62.0	57.9
82.5°	78.8	58.3	55.4	73.4	80.9	53.3	46.8
85°	69.4	47.6	43.5	86.6	80.9	40.2	37.4
87.5°	46.4	28.3	27.1	63.6	55.4	27.9	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)