

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: P158213

Luminaire Tested: **VST-F03-LED-E-U-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158213
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-F03-LED-E-U-SL2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6288.9 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

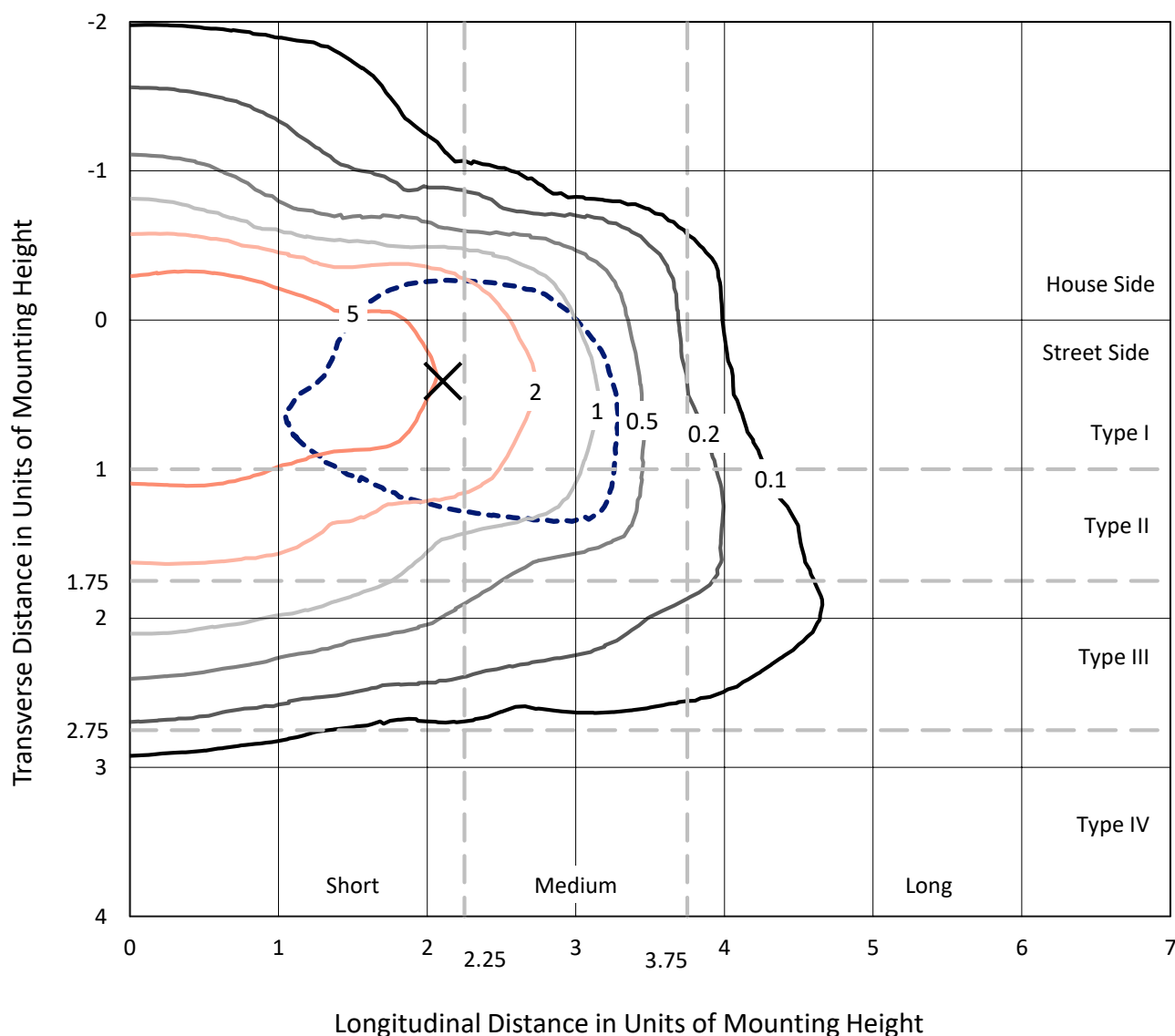


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

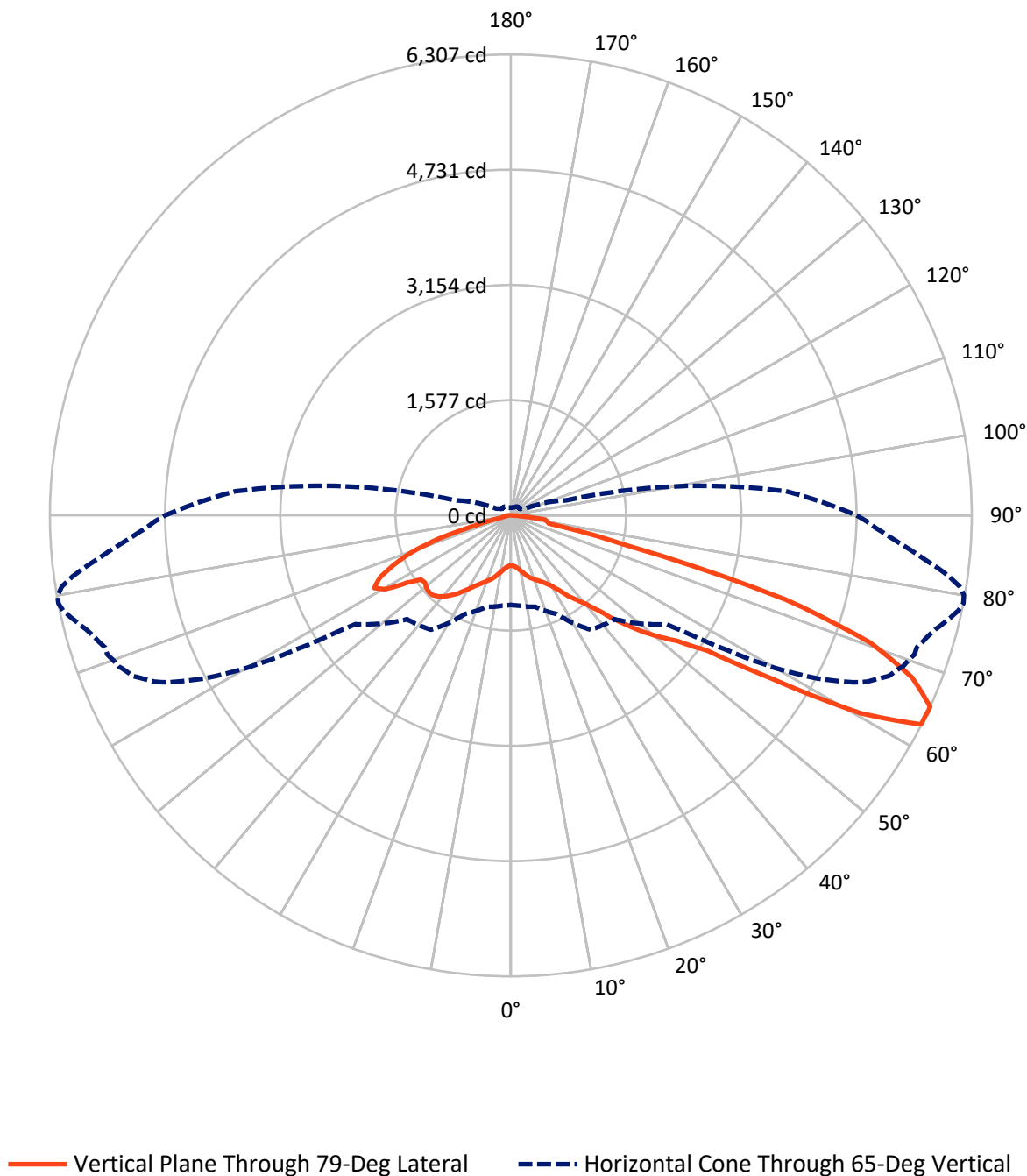


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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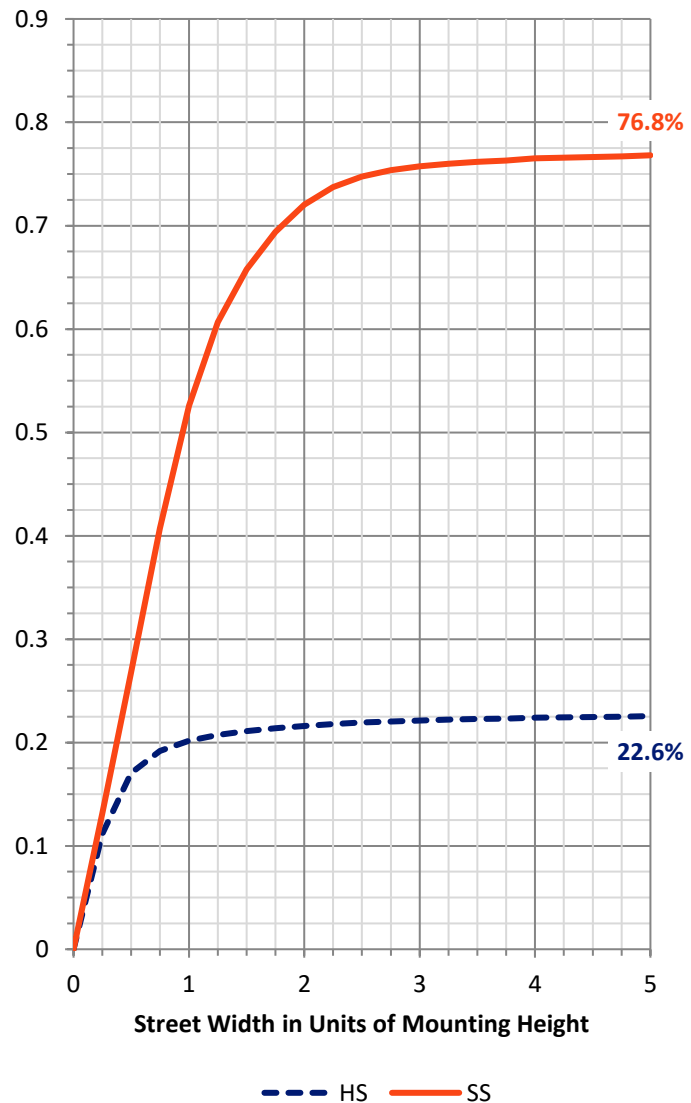
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.1	0.0	1445.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4843.9	0.0	4843.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	6288.9	0.0	6288.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.1
10°-20°	221.1	3.5
20°-30°	381.2	6.1
30°-40°	624.4	9.9
40°-50°	1045.6	16.6
50°-60°	1414.3	22.5
60°-70°	1741.7	27.7
70°-80°	674.2	10.7
80°-90°	118.6	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°	6288.9	100.0
0°-180°	6288.9	100.0

Coefficient of Utilization



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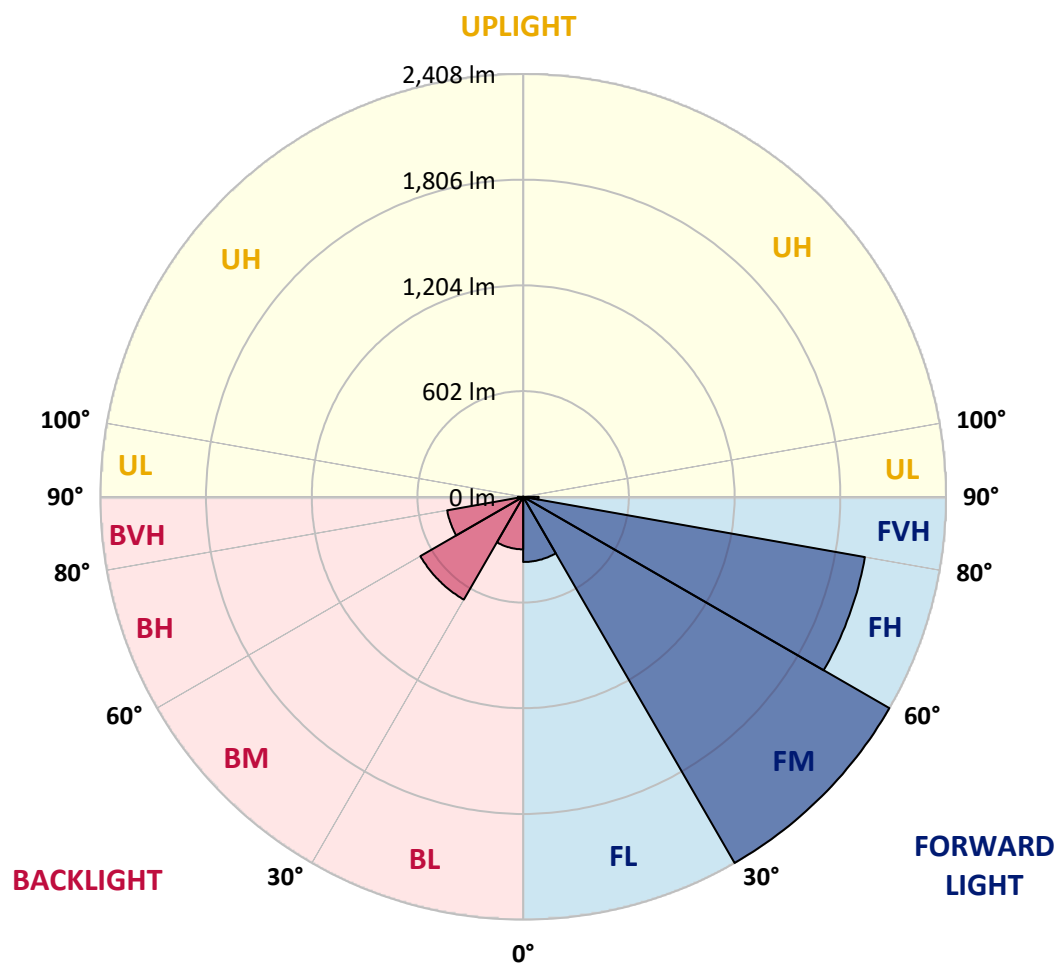
CATALOG NUMBER: VST-F03-LED-E-U-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.3	5.9			
FM	(30°-60°)	2408.4	38.3			
FH	(60°-80°)	1976.2	31.4			G2/5000
FVH	(80°-90°)	88.0	1.4			G1/100
BL	(0°-30°)	299.1	4.8	B1/500		
BM	(30°-60°)	675.8	10.7	B1/1000		
BH	(60°-80°)	439.6	7.0	B1/500		G1/500
BVH	(80°-90°)	30.6	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°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	689.3	687.2	689.3	691.0	692.3	694.0	693.5	693.1	692.7	693.1	693.1
5°	695.2	694.8	696.9	698.5	701.5	703.6	706.1	706.1	706.1	705.7	706.5
7.5°	714.0	713.6	715.7	717.4	719.9	724.0	727.4	729.1	728.6	728.6	728.6
10°	745.0	743.3	743.3	743.3	746.6	749.5	757.1	757.9	759.6	758.8	759.2
12.5°	775.0	775.4	774.2	773.0	773.4	779.2	790.1	792.2	792.6	793.9	794.7
15°	802.2	801.8	798.9	796.0	799.7	809.8	824.0	827.7	827.7	830.2	831.9
17.5°	827.3	826.4	821.0	816.0	819.8	836.9	859.1	861.6	865.3	866.6	868.3
20°	857.0	855.3	849.1	835.7	835.7	859.1	888.4	890.8	894.2	895.0	898.0
22.5°	898.4	894.2	880.8	856.6	849.9	877.1	913.0	914.3	916.7	920.1	922.6
25°	945.2	946.0	924.3	882.1	867.4	895.9	936.8	938.9	943.5	946.0	949.0
27.5°	993.7	994.9	970.7	918.0	893.3	921.8	969.0	971.5	977.0	979.9	984.5
30°	1048.9	1050.5	1027.1	974.0	936.4	959.8	1016.7	1023.4	1028.0	1031.7	1039.3
32.5°	1181.4	1171.4	1155.1	1098.6	1039.3	1037.6	1093.6	1101.1	1107.4	1115.3	1122.4
35°	1348.2	1354.4	1362.8	1324.8	1272.5	1234.5	1239.1	1234.9	1240.7	1252.4	1259.6
37.5°	1480.3	1494.1	1530.4	1555.1	1553.0	1545.5	1475.3	1475.3	1479.1	1472.8	1471.9
40°	1583.9	1592.8	1667.2	1762.9	1843.6	1883.3	1827.7	1819.7	1823.9	1791.7	1793.0
42.5°	1637.5	1650.4	1757.5	1925.5	2085.6	2213.1	2196.0	2190.5	2178.0	2170.1	2165.0
45°	1664.6	1680.1	1807.6	2038.4	2271.7	2468.5	2557.1	2556.3	2545.0	2535.8	2531.6
47.5°	1650.8	1664.2	1800.1	2072.6	2369.5	2633.2	2829.3	2841.4	2838.1	2851.4	2856.9
50°	1560.5	1577.7	1714.0	1998.7	2328.5	2698.0	3017.8	3040.4	3070.9	3090.2	3115.7
52.5°	1479.1	1493.2	1616.2	1878.7	2193.9	2645.3	3131.5	3178.0	3219.8	3259.1	3289.6
55°	1393.7	1408.0	1515.8	1754.1	2058.0	2489.9	3183.4	3251.1	3316.3	3382.8	3443.8
57.5°	1361.6	1376.6	1456.9	1657.6	1946.8	2335.6	3208.9	3320.1	3426.2	3539.2	3656.2
60°	1445.2	1458.5	1519.6	1660.0	1862.0	2181.4	3157.4	3332.2	3514.9	3700.9	3880.7
62.5°	1419.7	1426.8	1502.9	1720.7	1970.2	2029.2	2934.7	3165.4	3430.9	3703.4	3978.9
65°	1224.8	1238.6	1295.9	1487.4	1909.6	2008.7	2595.2	2827.2	3140.3	3462.7	3831.8
67.5°	878.7	859.5	903.8	1071.4	1481.5	2005.3	2213.1	2384.9	2630.3	2877.4	3180.1
70°	399.2	390.1	424.7	557.2	893.8	1584.8	1871.2	1929.2	2020.4	2186.8	2391.2
72.5°	157.6	157.2	179.8	230.3	422.6	1020.0	1573.5	1607.0	1639.1	1711.4	1799.6
75°	103.3	103.3	109.9	124.1	208.2	492.5	1331.0	1361.6	1410.9	1431.4	1469.0
77.5°	77.8	78.2	81.1	84.4	115.0	259.2	939.4	1047.6	1131.2	1193.5	1239.1
80°	55.2	57.7	63.1	65.2	74.8	147.5	530.9	609.1	703.6	804.3	931.0
82.5°	41.4	44.3	53.5	56.0	59.3	84.0	239.5	271.7	317.3	411.4	591.5
85°	19.2	21.3	36.8	40.1	43.1	48.5	121.7	135.8	154.3	168.9	196.9
87.5°	2.9	2.1	6.3	8.8	13.8	14.2	41.8	49.7	53.9	64.8	67.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	693.1	693.5	694.0	693.1	693.5	693.5	692.7	692.3	692.3	692.3	692.7
5°	706.5	707.3	706.5	706.9	708.6	708.2	707.3	706.9	708.6	709.0	707.8
7.5°	730.3	730.7	729.1	731.2	732.0	732.4	732.4	733.3	733.3	734.5	733.3
10°	760.9	760.9	763.7	763.3	763.7	764.6	765.0	766.7	767.9	767.9	768.8
12.5°	796.0	796.4	799.3	799.7	801.4	801.8	804.3	802.6	806.8	806.8	808.1
15°	832.3	835.3	835.7	839.8	840.7	841.1	844.4	844.4	847.4	847.8	848.6
17.5°	868.3	870.8	872.5	875.8	878.7	880.0	881.2	883.7	885.8	886.7	888.8
20°	899.2	901.7	903.4	906.7	909.2	911.3	912.6	915.5	917.6	918.4	921.4
22.5°	925.1	926.8	929.7	934.3	935.2	937.7	941.4	943.5	944.3	946.9	950.2
25°	952.7	955.2	956.9	961.1	964.4	968.6	971.9	975.3	976.1	979.5	982.4
27.5°	989.5	992.0	992.5	1000.8	1004.2	1010.0	1013.8	1018.7	1021.3	1024.2	1030.1
30°	1043.8	1049.7	1052.2	1061.8	1063.5	1070.2	1076.9	1078.6	1082.3	1082.7	1092.4
32.5°	1127.0	1135.4	1138.7	1148.8	1151.3	1157.6	1161.3	1170.1	1170.5	1174.7	1176.8
35°	1263.3	1261.3	1274.2	1276.7	1284.2	1289.6	1293.4	1293.4	1301.3	1301.8	1304.3
37.5°	1449.4	1445.2	1448.5	1433.5	1437.2	1430.5	1429.3	1430.9	1427.6	1428.4	1428.0
40°	1747.0	1728.2	1708.6	1662.1	1652.1	1632.8	1617.8	1605.7	1594.0	1581.5	1573.1
42.5°	2120.3	2093.2	2063.9	1989.5	1954.7	1917.5	1881.2	1860.3	1818.5	1793.0	1779.2
45°	2511.6	2479.8	2438.9	2377.0	2327.6	2287.9	2221.5	2190.1	2125.3	2093.2	2049.7
47.5°	2832.2	2832.7	2799.6	2736.9	2684.2	2657.9	2616.5	2555.9	2482.3	2440.9	2363.6
50°	3112.7	3112.3	3110.2	3072.6	3035.8	3007.0	2970.6	2915.8	2855.6	2808.8	2720.2
52.5°	3320.1	3347.7	3359.4	3359.0	3354.4	3341.0	3313.4	3266.2	3205.1	3178.8	3108.1
55°	3491.5	3551.7	3583.0	3651.6	3657.8	3680.0	3655.8	3656.2	3620.2	3622.7	3600.2
57.5°	3751.1	3861.0	3924.2	4075.9	4152.0	4244.0	4227.7	4304.6	4332.6	4368.1	4415.3
60°	4045.8	4251.1	4400.7	4702.6	4825.4	4974.3	5056.2	5143.6	5207.1	5272.3	5320.4
62.5°	4256.5	4526.2	4771.9	5202.1	5361.8	5518.6	5621.8	5727.6	5799.1	5845.9	5880.6
65°	4170.4	4468.4	4759.0	5210.0	5384.0	5497.7	5620.6	5681.6	5753.1	5792.0	5841.7
67.5°	3543.7	3842.6	4154.1	4686.2	4868.1	5025.3	5121.0	5200.0	5257.7	5307.1	5364.3
70°	2635.3	2962.3	3284.2	3867.7	4097.2	4324.2	4437.1	4534.9	4595.1	4644.8	4708.0
72.5°	1896.7	2101.5	2302.6	2956.0	3185.5	3478.9	3596.0	3704.7	3782.9	3780.4	3847.3
75°	1510.0	1593.2	1682.6	2020.0	2184.7	2432.2	2497.8	2558.8	2522.0	2451.4	2447.2
77.5°	1257.1	1291.3	1321.4	1427.2	1451.5	1510.4	1477.8	1443.9	1334.8	1242.8	1194.4
80°	1020.4	1088.2	1132.5	1207.7	1238.6	1256.2	1260.8	1249.1	1209.0	1153.4	1064.8
82.5°	758.8	887.5	975.3	1123.3	1177.6	1188.9	1210.6	1197.3	1171.0	1125.8	1062.2
85°	222.4	251.6	288.4	391.3	458.6	515.9	574.4	603.2	621.2	596.1	530.5
87.5°	78.2	88.2	98.6	135.8	144.7	174.7	171.4	202.3	203.6	212.3	203.2
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°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	692.3	692.3	692.3	692.7	692.7	692.7	691.9	691.4	691.9	692.7	692.7
5°	708.6	709.0	709.9	708.2	708.6	709.9	709.0	708.6	709.0	709.9	709.0
7.5°	734.9	735.4	734.5	736.2	736.2	737.0	738.2	737.0	737.4	737.8	738.2
10°	769.2	769.6	770.5	771.7	772.1	773.0	773.8	775.0	775.0	774.2	776.3
12.5°	810.2	809.8	810.6	812.3	813.1	814.3	816.8	816.8	818.5	818.1	820.2
15°	850.3	852.4	852.8	855.7	857.0	859.1	862.0	863.7	863.7	866.2	867.0
17.5°	890.4	892.1	893.8	896.3	898.0	899.2	902.6	904.6	904.2	908.8	908.8
20°	921.4	924.7	926.8	928.4	931.4	933.5	936.0	938.5	940.2	943.1	943.9
22.5°	951.5	953.6	956.5	958.6	961.9	964.4	967.3	969.4	972.4	976.1	977.4
25°	984.9	988.3	991.6	994.5	997.0	1000.0	1005.0	1009.6	1013.8	1017.1	1018.3
27.5°	1031.3	1035.1	1040.1	1042.2	1045.9	1048.4	1056.0	1061.8	1063.9	1069.7	1071.4
30°	1094.0	1098.2	1103.2	1105.7	1112.4	1115.8	1123.7	1130.0	1132.1	1139.2	1140.4
32.5°	1184.7	1187.2	1197.3	1196.9	1206.1	1215.7	1220.3	1225.3	1234.5	1238.2	1239.5
35°	1310.6	1316.4	1323.5	1323.1	1334.8	1340.2	1349.5	1354.9	1361.6	1361.2	1368.2
37.5°	1432.2	1434.3	1436.8	1442.2	1450.6	1458.1	1461.5	1466.9	1471.9	1479.4	1488.7
40°	1564.7	1569.7	1570.1	1573.1	1577.3	1586.9	1593.2	1599.0	1616.2	1627.0	1632.5
42.5°	1763.3	1762.0	1753.7	1759.1	1761.6	1776.2	1780.9	1798.9	1818.1	1841.0	1847.3
45°	2018.7	2002.0	1997.0	1994.9	2008.3	2015.8	2034.6	2068.1	2088.1	2109.8	2120.3
47.5°	2333.1	2280.8	2256.2	2250.7	2264.5	2296.7	2303.0	2336.0	2362.4	2378.2	2388.7
50°	2647.9	2606.9	2555.0	2537.5	2533.7	2563.4	2570.5	2598.1	2624.9	2629.5	2624.0
52.5°	3043.3	2976.5	2890.7	2859.8	2835.2	2837.2	2843.1	2854.8	2872.0	2864.8	2850.2
55°	3549.2	3473.1	3430.9	3372.4	3335.2	3328.4	3302.9	3267.8	3266.6	3271.2	3227.3
57.5°	4391.5	4359.8	4377.7	4371.5	4334.7	4356.8	4241.9	4209.2	4183.3	4138.2	4097.6
60°	5363.0	5395.7	5432.9	5518.6	5514.8	5600.9	5521.1	5501.0	5476.7	5337.5	5269.4
62.5°	5941.2	5954.2	6008.9	6088.8	6167.3	6249.7	6286.9	6299.9	6249.3	6135.6	5993.5
65°	5840.5	5897.7	5950.8	6019.8	6100.5	6182.8	6261.4	6307.4	6295.7	6220.4	6064.1
67.5°	5382.7	5442.9	5520.7	5593.0	5679.9	5751.4	5837.5	5922.0	5924.5	5886.8	5778.2
70°	4714.7	4784.5	4864.7	4905.3	4999.4	5064.2	5135.6	5219.2	5246.4	5251.0	5124.4
72.5°	3833.0	3862.3	3901.6	3880.3	3899.1	3940.4	3921.2	3927.9	3824.6	3843.9	3687.5
75°	2334.4	2307.6	2188.9	2080.6	1948.5	1846.9	1871.2	1677.2	1486.1	1476.5	1338.5
77.5°	1183.9	1141.3	1067.7	991.2	879.1	750.8	643.8	528.4	431.0	375.4	322.3
80°	1008.3	978.2	937.7	882.1	800.5	705.7	594.1	506.2	424.7	339.8	272.2
82.5°	964.9	872.9	813.9	767.5	679.3	591.5	530.5	470.3	412.6	360.4	285.5
85°	478.7	423.5	358.3	317.7	244.6	191.5	179.3	147.5	137.5	106.2	89.5
87.5°	160.9	131.7	98.2	82.8	66.1	53.9	53.1	47.2	46.8	42.7	39.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	692.3	693.1	693.1	692.3	692.7	691.9	692.3	692.7	691.4	691.0	689.8
5°	709.4	709.0	709.0	709.4	710.7	711.1	709.0	709.9	710.3	708.2	703.6
7.5°	737.8	737.8	739.1	738.7	741.2	740.3	739.9	739.9	739.9	735.8	728.2
10°	776.3	776.3	777.5	779.2	779.6	778.8	778.8	779.2	781.3	773.0	761.3
12.5°	819.4	821.5	821.0	821.0	826.0	824.8	823.1	824.8	826.9	815.2	798.5
15°	867.4	868.7	869.5	872.5	871.6	874.6	875.4	874.6	876.7	861.6	833.6
17.5°	910.9	913.4	914.3	917.6	917.6	918.0	921.4	920.1	920.5	903.4	863.3
20°	946.9	949.4	950.6	954.4	955.2	956.9	958.1	959.0	961.1	940.6	887.5
22.5°	982.8	984.9	987.0	989.5	992.8	994.9	996.6	997.4	1001.2	977.4	910.5
25°	1022.9	1027.6	1029.7	1033.8	1037.2	1040.5	1043.0	1043.5	1049.7	1020.0	929.3
27.5°	1076.5	1082.7	1086.1	1092.8	1096.1	1099.4	1098.6	1103.6	1112.4	1069.0	943.9
30°	1146.7	1154.6	1156.7	1163.4	1168.9	1172.2	1175.9	1180.1	1186.0	1123.3	951.1
32.5°	1244.5	1256.6	1259.6	1263.3	1271.3	1277.1	1279.6	1286.3	1288.0	1174.7	949.0
35°	1378.7	1373.3	1387.5	1390.8	1402.1	1406.7	1409.6	1418.4	1411.7	1230.7	935.2
37.5°	1499.9	1498.3	1512.1	1519.6	1534.2	1530.8	1538.0	1543.8	1520.0	1270.4	909.7
40°	1647.9	1645.8	1665.1	1667.6	1690.1	1685.1	1688.0	1692.7	1639.6	1298.0	863.3
42.5°	1854.4	1855.3	1875.8	1878.2	1881.2	1890.4	1875.4	1876.1	1766.6	1305.5	786.8
45°	2126.6	2141.2	2128.7	2129.1	2128.3	2110.7	2091.9	2069.7	1898.8	1279.6	688.1
47.5°	2390.3	2380.3	2364.4	2349.8	2337.7	2310.1	2282.5	2244.9	2012.9	1218.2	578.2
50°	2616.1	2593.5	2579.3	2538.8	2509.9	2474.0	2435.5	2392.4	2106.5	1129.6	475.3
52.5°	2825.9	2802.5	2749.4	2707.3	2665.9	2618.2	2573.5	2522.9	2189.3	1028.4	396.7
55°	3174.6	3154.1	3101.0	3023.7	2972.7	2907.1	2848.1	2779.6	2356.9	946.4	344.9
57.5°	3986.0	3968.5	3856.9	3808.0	3740.6	3575.9	3551.7	3444.7	2806.3	936.8	314.3
60°	5128.6	5053.3	4960.5	4826.7	4669.1	4614.8	4493.5	4351.0	3529.5	963.2	289.7
62.5°	5830.0	5658.6	5522.3	5368.1	5223.0	5098.4	4965.9	4825.0	3899.5	928.4	259.2
65°	5882.7	5681.2	5501.0	5320.0	5156.9	5001.8	4873.1	4732.2	3779.1	798.1	219.5
67.5°	5592.5	5380.2	5183.7	4978.4	4813.7	4673.7	4509.8	4374.4	3439.6	621.2	182.7
70°	4994.3	4807.9	4638.6	4417.4	4280.8	4110.2	4006.1	3836.8	2998.2	423.5	150.9
72.5°	3597.2	3456.8	3401.6	3247.3	3068.4	2968.1	2920.0	2755.7	2215.6	262.9	123.3
75°	1215.2	1249.9	1170.5	1048.9	1108.2	1016.7	1053.9	975.7	937.3	150.9	103.7
77.5°	269.6	253.3	234.1	217.4	216.1	203.2	215.3	203.6	217.8	96.1	91.6
80°	212.8	168.1	143.0	130.4	123.7	120.0	117.1	113.7	103.7	82.0	84.4
82.5°	229.9	173.5	127.1	101.6	86.9	81.5	80.3	76.9	76.1	79.4	85.3
85°	73.6	61.4	52.3	49.3	45.5	43.5	42.7	41.4	50.2	86.5	82.0
87.5°	38.5	33.8	30.1	28.9	25.1	23.4	23.0	23.4	35.1	86.5	59.3
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°	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	688.5	688.1	687.2	686.8	686.4	684.4	686.0
5°	701.5	697.3	693.5	688.9	686.4	684.4	684.4
7.5°	721.1	709.4	699.8	689.3	682.3	676.8	676.0
10°	745.8	723.2	701.0	682.3	668.9	658.9	657.6
12.5°	769.2	734.9	699.8	668.9	647.9	633.8	632.9
15°	790.9	741.2	690.2	644.6	613.3	594.5	592.4
17.5°	808.1	737.4	668.5	610.7	568.1	545.9	544.7
20°	811.9	722.4	637.5	569.0	523.8	500.4	494.9
22.5°	808.5	695.2	599.0	523.0	471.1	447.7	444.8
25°	798.5	662.2	551.4	469.4	421.4	397.6	391.7
27.5°	780.5	623.3	500.0	417.6	370.0	347.0	341.1
30°	753.7	576.5	445.2	369.1	319.8	301.4	295.6
32.5°	716.5	519.6	391.3	319.4	278.4	263.8	261.3
35°	665.1	454.4	334.9	278.4	248.3	239.5	238.3
37.5°	599.5	389.2	287.6	249.2	227.4	222.0	221.2
40°	513.8	322.3	254.2	228.2	212.3	207.8	206.9
42.5°	425.6	272.2	229.5	211.5	198.5	194.4	193.1
45°	348.2	238.3	211.1	197.8	185.6	181.0	180.6
47.5°	290.5	218.6	196.1	185.2	173.0	167.6	168.1
50°	248.3	200.6	183.5	174.3	160.5	155.5	155.9
52.5°	219.5	182.7	171.8	161.3	149.6	144.7	144.7
55°	196.9	168.1	160.5	149.2	140.0	135.4	135.0
57.5°	178.5	156.4	149.6	140.5	131.3	125.8	125.8
60°	167.2	148.0	142.6	134.2	123.3	117.5	117.1
62.5°	160.5	145.5	140.9	129.2	117.1	111.2	109.9
65°	155.5	151.3	145.5	126.2	112.0	105.8	104.5
67.5°	155.9	165.1	156.8	127.9	110.3	101.2	99.5
70°	158.5	176.0	164.7	131.7	117.5	99.1	95.3
72.5°	145.9	159.3	148.4	125.4	114.5	95.3	90.7
75°	121.7	116.2	106.6	102.0	102.8	86.5	84.8
77.5°	98.6	86.5	77.3	81.1	86.5	74.0	72.3
80°	85.7	70.3	65.6	71.9	78.6	63.1	58.9
82.5°	80.3	59.3	56.5	74.8	82.4	54.4	47.6
85°	70.6	48.5	44.3	88.2	82.4	41.0	38.0
87.5°	47.2	28.9	27.6	64.8	56.5	28.4	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)