

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: P165080

Luminaire Tested: **VST-F08-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165080
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-F08-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10098 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 204.4
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



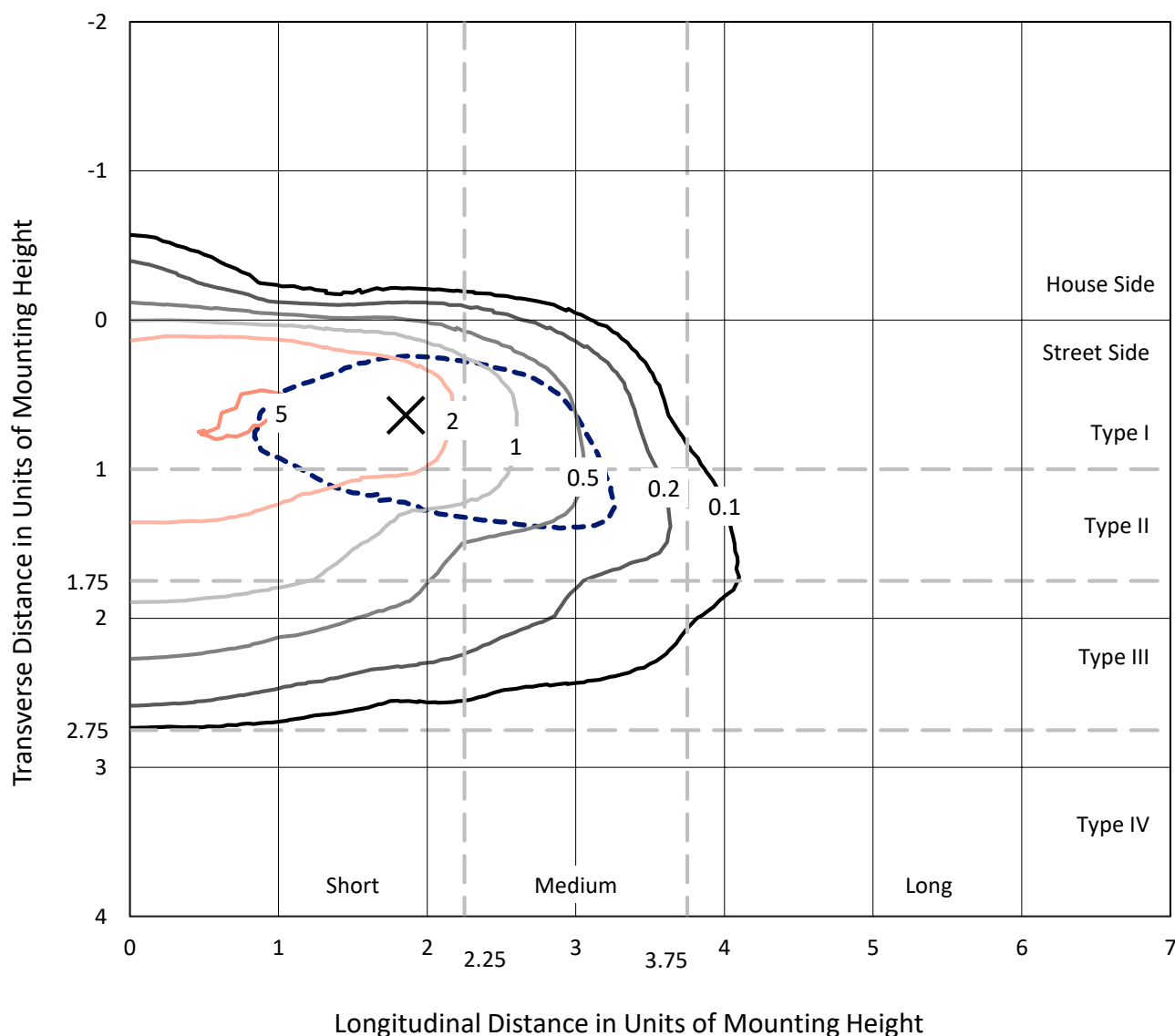
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

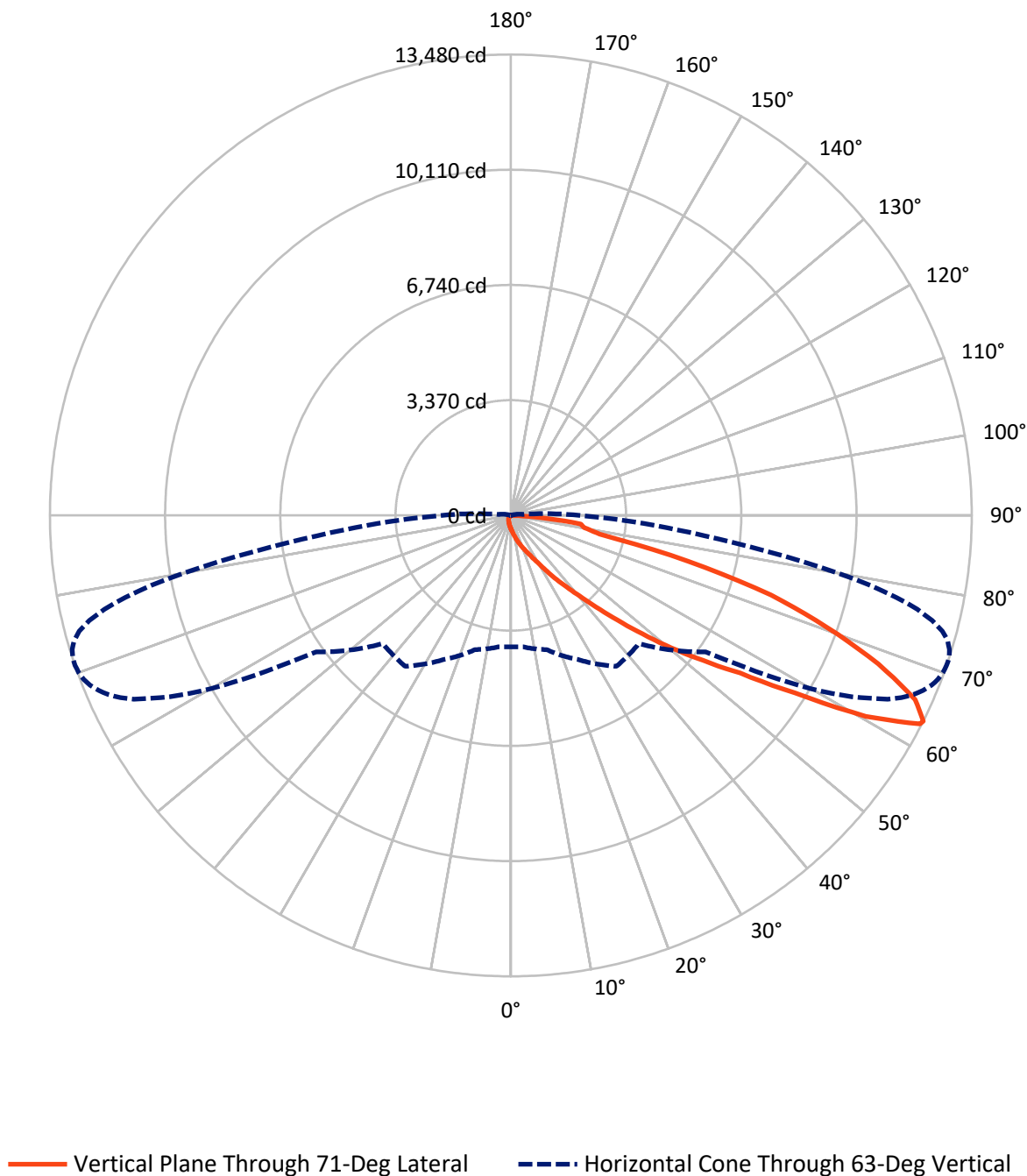


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	214.4	0.0	214.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9883.6	0.0	9883.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	10098.0	0.0	10098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	0.4
10°-20°	166.0	1.6
20°-30°	337.2	3.3
30°-40°	824.0	8.2
40°-50°	1842.7	18.2
50°-60°	2591.1	25.7
60°-70°	3046.9	30.2
70°-80°	1100.2	10.9
80°-90°	147.1	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°	10098.0	100.0
0°-180°	10098.0	100.0

Coefficient of Utilization



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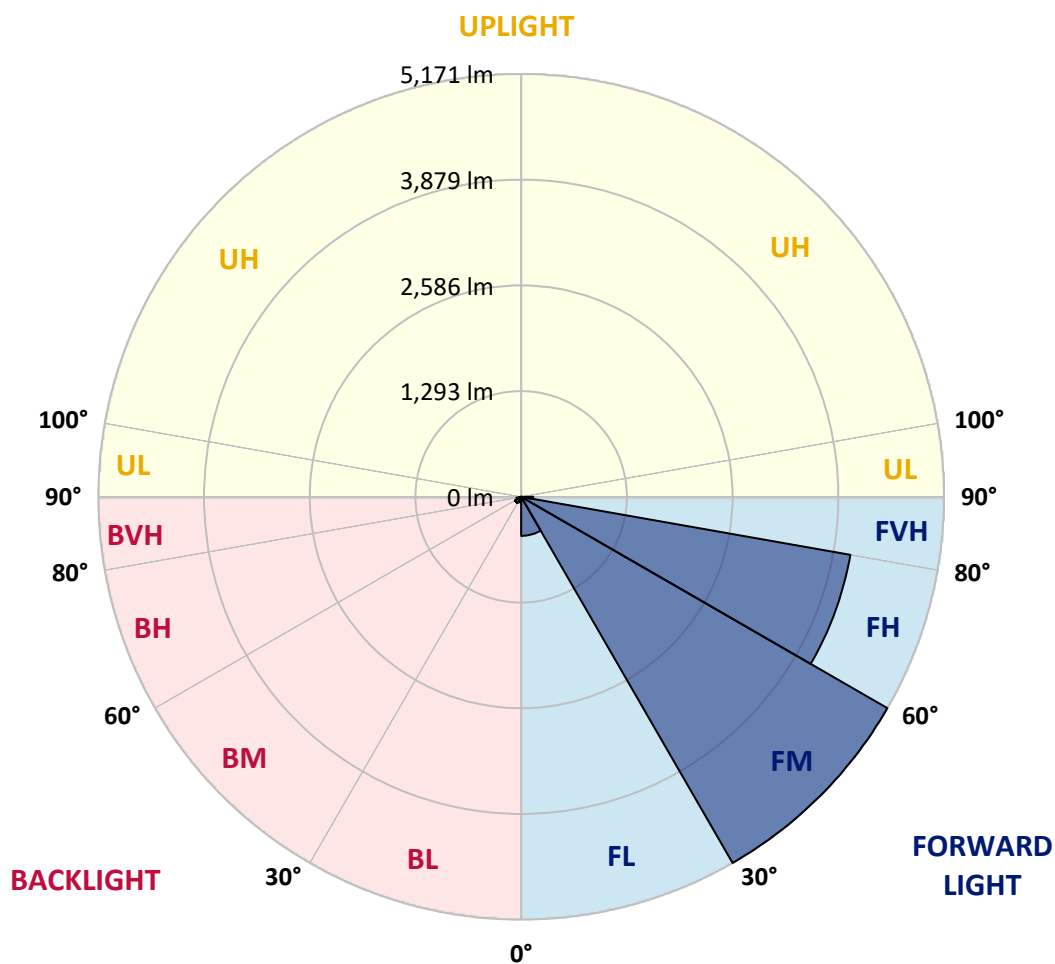
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.2	4.7			
FM	(30°-60°)	5171.3	51.2			
FH	(60°-80°)	4088.3	40.5			G2/5000
FVH	(80°-90°)	146.8	1.5			G2/225
BL	(0°-30°)	68.9	0.7	B0/110		
BM	(30°-60°)	86.4	0.9	B0/220		
BH	(60°-80°)	58.8	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°	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4
2.5°	506.7	512.1	508.4	499.3	488.3	473.7	460.7	460.7	459.0	453.4	455.3
5°	664.5	666.4	659.1	637.0	616.8	585.6	550.7	547.0	543.3	537.9	536.1
7.5°	818.8	826.0	818.8	794.8	754.5	706.8	651.7	646.2	635.2	635.2	627.8
10°	976.7	976.7	969.3	941.8	905.0	837.1	767.3	758.2	745.3	741.7	730.6
12.5°	1088.6	1088.6	1084.9	1070.3	1040.9	980.3	895.8	886.7	870.2	864.6	851.8
15°	1132.6	1132.6	1134.5	1147.3	1149.2	1121.7	1033.5	1026.2	1009.7	994.9	989.5
17.5°	1160.1	1158.4	1158.4	1176.8	1209.8	1228.1	1171.2	1163.8	1145.5	1138.2	1119.8
20°	1220.8	1217.1	1206.1	1206.1	1237.3	1301.5	1301.5	1299.7	1279.5	1274.0	1264.8
22.5°	1310.8	1307.1	1274.0	1246.4	1261.1	1342.0	1417.2	1413.5	1406.2	1398.8	1393.4
25°	1457.6	1444.8	1387.8	1307.1	1294.3	1380.5	1505.3	1514.5	1520.0	1520.0	1523.7
27.5°	1679.7	1663.2	1562.2	1411.8	1354.8	1442.9	1602.6	1621.0	1637.5	1641.2	1657.7
30°	1988.1	1958.8	1813.7	1593.5	1463.1	1534.7	1745.9	1766.0	1789.9	1797.2	1822.9
32.5°	2494.8	2478.3	2338.8	2008.3	1729.2	1714.6	1946.0	1971.6	2002.8	2015.6	2046.8
35°	3265.9	3269.5	3155.7	2858.3	2472.8	2270.8	2303.9	2325.9	2336.9	2375.5	2392.0
37.5°	3789.0	3798.2	3823.9	3706.4	3431.1	3225.4	2966.5	2990.5	2933.5	2939.0	2940.9
40°	4075.4	4104.7	4255.3	4369.1	4347.1	4227.8	4020.3	4033.2	3926.7	3902.8	3787.1
42.5°	4266.3	4304.8	4545.4	4897.8	5077.7	5186.1	5138.3	5132.8	5050.2	5018.9	4921.6
45°	4385.6	4420.5	4723.4	5242.9	5657.8	5973.5	6103.8	6118.6	6048.8	6017.6	5936.9
47.5°	4380.1	4420.5	4745.4	5371.4	5982.8	6487.6	6854.8	6873.0	6915.3	6887.8	6893.2
50°	4137.8	4176.4	4503.1	5152.9	5887.2	6722.6	7394.4	7453.2	7521.1	7567.0	7589.1
52.5°	3844.1	3871.6	4161.7	4778.5	5479.7	6625.2	7713.8	7814.8	7915.8	8002.1	8062.6
55°	3735.7	3766.9	3994.6	4506.8	5152.9	6217.7	7862.5	8011.2	8154.5	8295.8	8411.4
57.5°	3792.7	3822.0	3985.4	4378.3	4958.4	5788.1	7904.8	8136.1	8371.1	8600.5	8828.1
60°	4001.9	4033.2	4172.7	4497.6	4907.0	5540.3	7739.6	8123.3	8514.2	8914.4	9290.8
62.5°	3919.3	3932.2	4137.8	4706.9	5274.1	5329.2	7139.3	7675.4	8272.0	8888.8	9496.3
63°	3840.4	3855.1	4064.4	4650.0	5386.2	5298.0	6953.9	7519.3	8148.9	8813.4	9474.4
65°	3482.5	3484.2	3644.0	4106.6	5261.3	5353.0	6127.8	6667.5	7390.7	8187.5	9022.8
67.5°	2599.4	2586.6	2740.8	3093.3	4130.5	5354.9	5259.4	5562.4	6065.4	6772.2	7521.1
70°	921.6	901.4	1151.0	1639.3	2573.7	4380.1	4519.6	4539.8	4679.4	5061.2	5531.2
72.5°	299.2	304.8	367.1	600.3	1185.9	2948.3	4091.9	4029.5	3992.8	3990.9	4053.3
75°	119.3	121.2	146.8	266.2	532.4	1420.9	3583.5	3618.2	3631.2	3649.4	3669.7
77.5°	56.9	62.4	82.6	148.7	264.3	703.1	2564.5	2860.1	3029.0	3159.4	3238.3
80°	20.2	23.9	45.9	91.7	123.0	323.1	1351.1	1630.1	1878.0	2197.4	2472.8
82.5°	0.0	0.0	9.1	64.2	67.9	130.3	554.4	649.8	743.4	963.7	1237.3
85°	0.0	0.0	0.0	18.4	20.2	22.1	187.3	225.9	253.4	295.5	341.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.5	11.0	27.5	42.3
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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CATALOG NUMBER: VST-F08-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4
2.5°	451.6	449.8	449.8	446.1	444.2	440.6	438.8	433.2	431.4	431.4	431.4
5°	534.2	526.8	523.2	514.0	508.4	506.7	497.5	493.8	488.3	490.2	480.9
7.5°	625.9	613.1	607.7	594.7	591.2	578.2	574.6	565.4	560.0	548.9	545.2
10°	726.9	710.4	701.3	681.0	675.6	666.4	655.4	644.3	635.2	624.2	618.7
12.5°	842.7	827.9	820.6	793.1	780.2	767.3	752.7	738.0	723.3	714.1	701.3
15°	978.4	954.6	947.2	921.6	899.5	883.0	862.8	844.4	833.4	815.1	802.2
17.5°	1112.4	1088.6	1083.1	1044.5	1020.7	1009.7	987.7	963.7	943.5	925.3	905.0
20°	1246.4	1229.9	1215.2	1178.5	1152.9	1134.5	1105.1	1081.2	1064.7	1039.1	1013.3
22.5°	1380.5	1363.9	1353.0	1314.4	1290.6	1264.8	1239.2	1213.4	1189.6	1158.4	1129.0
25°	1518.2	1507.2	1501.6	1466.8	1444.8	1420.9	1395.1	1365.8	1336.4	1301.5	1270.4
27.5°	1661.4	1665.0	1654.0	1646.6	1622.8	1606.3	1565.9	1545.7	1523.7	1481.4	1442.9
30°	1843.1	1854.1	1850.4	1856.0	1841.3	1830.2	1799.0	1773.4	1747.6	1707.3	1663.2
32.5°	2072.6	2087.3	2094.6	2114.8	2107.5	2103.8	2094.6	2057.9	2039.5	1969.8	1951.4
35°	2426.9	2419.5	2450.7	2467.2	2459.9	2456.3	2445.3	2425.1	2403.0	2353.4	2307.6
37.5°	2887.6	2895.0	2906.0	2873.0	2850.9	2849.1	2816.0	2795.9	2764.6	2709.6	2654.5
40°	3732.1	3686.2	3634.8	3495.3	3434.7	3399.8	3302.5	3275.0	3221.7	3146.5	3089.6
42.5°	4829.9	4784.0	4629.8	4396.7	4271.8	4099.3	4020.3	3923.0	3847.8	3724.8	3658.7
45°	5920.4	5788.1	5769.8	5498.1	5343.9	5116.3	4974.9	4811.5	4640.8	4479.3	4361.8
47.5°	6840.0	6810.6	6720.8	6555.4	6412.3	6221.3	6039.6	5788.1	5611.9	5382.5	5171.3
50°	7576.1	7574.4	7541.2	7445.8	7326.5	7172.4	7012.6	6799.7	6599.6	6318.7	6092.9
52.5°	8126.9	8156.3	8167.3	8137.9	8092.1	7956.2	7875.5	7697.3	7528.4	7289.7	7045.6
55°	8530.7	8639.1	8694.1	8756.6	8743.8	8696.0	8692.4	8576.6	8499.6	8310.4	8137.9
57.5°	9030.1	9208.2	9378.8	9681.8	9692.8	9799.3	9854.4	9909.5	9924.1	9848.8	9792.0
60°	9665.2	10028.8	10351.8	10985.2	11150.4	11411.1	11580.0	11763.6	11919.5	11932.5	11928.8
62.5°	10113.1	10673.1	11194.5	12134.3	12455.6	12756.7	12982.5	13160.6	13268.9	13379.0	13430.4
63°	10126.1	10739.2	11293.6	12262.9	12600.7	12887.0	13101.9	13267.1	13380.9	13446.9	13480.0
65°	9815.8	10559.3	11220.1	12185.7	12503.3	12791.6	12903.5	13011.9	13067.0	13092.6	12995.3
67.5°	8319.7	9046.6	9817.6	10897.1	11168.7	11513.9	11605.7	11660.8	11686.4	11681.0	11598.4
70°	6221.3	6830.9	7688.2	8921.8	9281.6	9619.4	9828.7	9918.6	9947.9	9938.8	9815.8
72.5°	4343.4	4701.3	5408.1	6781.3	7271.5	7704.7	7963.5	8097.5	8125.1	8070.0	7956.2
75°	3647.7	3666.1	3825.7	4576.5	5035.4	5498.1	5789.9	5874.4	5819.4	5652.3	5362.3
77.5°	3256.6	3297.1	3297.1	3409.0	3499.0	3627.5	3655.0	3449.3	3210.8	2902.3	2652.7
80°	2731.6	2873.0	2972.1	3054.7	3063.9	3038.2	2970.2	2854.6	2671.0	2436.0	2175.4
82.5°	1659.6	1938.6	2052.4	2478.3	2687.5	2828.9	2817.9	2663.6	2524.2	2280.1	2057.9
85°	418.6	451.6	490.2	637.0	714.1	872.0	971.1	1017.0	1033.5	949.1	859.2
87.5°	40.4	27.5	45.9	34.9	49.6	36.7	49.6	45.9	56.9	60.5	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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4
2.5°	427.7	425.8	424.1	422.3	420.4	418.6	414.9	414.9	411.2	409.3	407.6
5°	475.5	471.8	470.0	466.3	460.7	457.1	451.6	444.2	438.8	436.9	433.2
7.5°	536.1	526.8	523.2	517.7	510.3	499.3	492.0	486.5	477.3	471.8	460.7
10°	604.0	594.7	583.8	572.8	561.7	548.9	539.7	532.4	517.7	510.3	497.5
12.5°	690.3	673.8	660.8	646.2	631.5	616.8	605.8	583.8	570.9	554.4	543.3
15°	778.3	763.6	749.0	730.6	708.6	684.7	673.8	653.5	637.0	611.3	596.6
17.5°	884.8	857.3	835.3	813.2	793.1	771.0	749.0	717.8	693.9	671.9	642.6
20°	989.5	956.5	932.5	903.2	873.9	839.0	813.2	791.2	758.2	728.8	697.6
22.5°	1101.4	1068.4	1029.8	1000.5	960.2	932.5	897.7	860.9	827.9	789.4	750.8
25°	1237.3	1202.4	1158.4	1119.8	1073.9	1035.4	993.2	950.9	910.5	866.5	816.9
27.5°	1404.4	1367.6	1319.9	1274.0	1213.4	1165.7	1125.4	1068.4	1017.0	961.9	905.0
30°	1615.4	1575.1	1516.3	1450.2	1389.7	1336.4	1279.5	1204.3	1147.3	1081.2	1007.9
32.5°	1890.9	1843.1	1764.1	1701.7	1626.5	1556.7	1477.7	1402.5	1321.8	1235.5	1151.0
35°	2237.8	2193.8	2101.9	2010.2	1927.6	1845.0	1745.9	1659.6	1545.7	1441.1	1332.7
37.5°	2597.7	2518.6	2434.2	2335.1	2232.2	2133.1	2011.9	1892.7	1762.4	1648.5	1512.6
40°	3008.8	2913.4	2843.6	2737.1	2592.1	2450.7	2338.8	2190.1	2026.7	1874.3	1714.6
42.5°	3572.4	3466.0	3341.1	3179.6	3074.9	2909.7	2764.6	2588.4	2373.6	2202.9	2010.2
45°	4224.1	4079.1	3957.9	3801.8	3675.2	3469.6	3300.7	3065.7	2850.9	2627.0	2392.0
47.5°	4967.6	4787.6	4611.4	4457.2	4255.3	4053.3	3838.6	3588.9	3313.6	3067.5	2788.5
50°	5821.1	5566.0	5321.8	5123.6	4846.4	4613.3	4380.1	4099.3	3794.5	3511.8	3194.2
52.5°	6770.3	6474.7	6151.7	5846.9	5525.6	5226.4	4945.5	4622.4	4282.9	3937.7	3583.5
55°	7915.8	7693.6	7313.7	6926.3	6496.7	6096.6	5734.9	5334.8	4921.6	4468.2	4095.6
57.5°	9709.4	9601.0	9283.4	8896.1	8336.2	7849.7	7236.6	6746.4	6148.0	5523.8	5042.8
60°	12139.9	12005.8	11827.8	11513.9	11069.6	10408.8	9733.2	8971.4	8060.8	7196.2	6375.6
62.5°	13436.0	13388.1	13243.2	13026.5	12611.7	12090.3	11409.3	10572.1	9544.2	8494.0	7447.7
63°	13474.4	13413.9	13289.0	13068.8	12703.4	12198.7	11530.4	10717.1	9711.2	8641.0	7572.5
65°	12953.1	12929.3	12802.5	12562.1	12312.5	11926.9	11409.3	10709.8	9865.3	8853.9	7791.0
67.5°	11488.2	11416.5	11222.0	11148.5	10974.2	10706.1	10311.5	9830.4	9226.6	8431.6	7513.7
70°	9716.6	9610.2	9366.0	9235.7	9022.8	8853.9	8613.4	8270.1	7897.4	7343.0	6658.3
72.5°	7838.7	7618.4	7394.4	7054.9	6757.4	6456.3	6190.1	5947.9	5538.4	5314.5	4795.0
75°	5090.5	4690.3	4306.7	3792.7	3330.1	2920.7	2522.3	2320.4	1900.0	1729.2	1485.1
77.5°	2415.8	2191.9	1890.9	1657.7	1360.3	1110.7	906.9	681.0	534.2	418.6	319.4
80°	1949.5	1760.5	1578.7	1367.6	1143.6	912.3	699.4	523.2	370.8	257.0	181.7
82.5°	1738.5	1532.8	1308.9	1163.8	1011.5	827.9	679.2	554.4	409.3	299.2	203.8
85°	675.6	569.1	438.8	358.0	279.0	229.4	207.5	143.1	112.0	88.1	67.9
87.5°	58.7	47.7	38.6	25.8	27.5	14.7	16.5	11.0	9.1	9.1	7.4
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°	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4	387.4
2.5°	405.7	403.9	402.0	398.3	398.3	394.7	392.8	391.1	381.8	361.6	345.1
5°	425.8	422.3	418.6	413.0	409.3	403.9	400.2	394.7	374.5	336.0	302.9
7.5°	455.3	447.9	442.5	431.4	425.8	418.6	413.0	403.9	370.8	312.0	266.2
10°	490.2	477.3	468.1	455.3	444.2	435.1	425.8	413.0	367.1	286.4	233.1
12.5°	532.4	517.7	499.3	484.6	470.0	457.1	444.2	427.7	361.6	264.3	207.5
15°	574.6	552.6	539.7	519.5	499.3	480.9	462.6	447.9	363.5	240.5	185.4
17.5°	622.3	600.3	572.8	550.7	528.7	504.9	482.8	453.4	354.3	222.2	168.9
20°	668.2	637.0	611.3	583.8	552.6	523.2	495.6	470.0	346.9	203.8	154.2
22.5°	717.8	681.0	648.0	613.1	574.6	541.6	508.4	475.5	334.1	187.3	141.4
25°	778.3	736.1	688.4	646.2	605.8	565.4	523.2	482.8	321.3	172.6	132.2
27.5°	851.8	796.7	749.0	695.7	638.9	587.5	541.6	497.5	308.5	161.5	123.0
30°	945.4	881.1	813.2	745.3	684.7	625.9	561.7	506.7	295.5	150.5	113.8
32.5°	1070.3	989.5	906.9	827.9	747.1	671.9	604.0	532.4	288.2	141.4	104.7
35°	1235.5	1130.8	1029.8	930.7	833.4	741.7	653.5	572.8	288.2	130.3	93.6
37.5°	1391.5	1270.4	1141.9	1018.8	903.2	796.7	692.1	594.7	273.6	121.2	84.5
40°	1560.4	1415.3	1264.8	1119.8	980.3	848.1	728.8	616.8	260.6	110.1	75.2
42.5°	1819.2	1635.7	1439.3	1270.4	1103.3	939.9	791.2	659.1	244.1	99.1	66.1
45°	2158.9	1925.7	1694.5	1488.8	1275.9	1075.8	899.5	736.1	240.5	90.0	56.9
47.5°	2522.3	2246.9	1975.3	1712.7	1463.1	1229.9	1018.8	822.4	240.5	80.8	49.6
50°	2883.9	2538.9	2248.8	1944.1	1663.2	1387.8	1136.3	912.3	242.4	73.5	40.4
52.5°	3210.8	2841.8	2516.8	2164.3	1854.1	1534.7	1261.1	1000.5	238.7	64.2	33.0
55°	3664.2	3231.0	2854.6	2465.4	2101.9	1742.2	1431.9	1132.6	240.5	56.9	27.5
57.5°	4499.5	3990.9	3537.5	3027.2	2608.6	2144.2	1767.8	1404.4	262.5	47.7	20.2
60°	5698.2	5037.3	4400.4	3778.0	3245.7	2693.1	2204.7	1777.1	308.5	38.6	14.7
62.5°	6504.1	5639.4	4879.5	4192.9	3574.2	2996.0	2463.5	1977.1	339.6	31.2	9.1
63°	6586.7	5692.7	4929.0	4220.4	3588.9	3010.7	2474.6	1991.8	341.5	29.3	9.1
65°	6742.7	5784.5	4956.5	4225.9	3574.2	2990.5	2467.2	1990.0	345.1	23.9	7.4
67.5°	6564.7	5643.1	4796.9	4068.0	3445.7	2871.1	2375.5	1916.5	343.2	16.5	5.5
70°	5870.7	5107.1	4363.6	3684.3	3118.9	2599.4	2162.6	1747.6	315.7	11.0	3.7
72.5°	4310.4	3790.8	3214.5	2724.3	2349.7	1951.4	1665.0	1312.5	244.1	7.4	1.8
75°	1277.6	1163.8	978.4	862.8	761.8	629.6	560.0	436.9	124.9	3.7	0.0
77.5°	255.2	231.3	207.5	189.1	178.0	152.4	145.0	119.3	51.4	1.8	0.0
80°	134.0	110.1	93.6	82.6	71.6	58.7	49.6	40.4	9.1	0.0	0.0
82.5°	128.5	86.3	62.4	51.4	44.0	34.9	27.5	20.2	5.5	0.0	0.0
85°	47.7	36.7	27.5	22.1	18.4	16.5	12.8	11.0	0.0	0.0	0.0
87.5°	7.4	5.5	5.5	3.7	3.7	1.8	1.8	1.8	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°	387.4	387.4	387.4	387.4	387.4	387.4	387.4
2.5°	328.6	313.9	306.6	297.4	297.4	295.5	299.2
5°	273.6	253.4	238.7	227.6	229.4	224.0	225.9
7.5°	231.3	211.1	198.2	191.0	189.1	187.3	187.3
10°	200.1	181.7	170.7	165.2	163.4	163.4	163.4
12.5°	178.0	159.7	150.5	146.8	146.8	145.0	145.0
15°	159.7	145.0	135.9	132.2	132.2	130.3	132.2
17.5°	145.0	130.3	123.0	119.3	119.3	117.5	117.5
20°	132.2	119.3	112.0	106.5	106.5	104.7	106.5
22.5°	121.2	108.4	99.1	95.4	93.6	91.7	93.6
25°	110.1	97.3	88.1	82.6	80.8	80.8	78.9
27.5°	101.0	88.1	77.1	71.6	69.8	69.8	67.9
30°	91.7	77.1	66.1	60.5	58.7	58.7	58.7
32.5°	82.6	66.1	56.9	51.4	49.6	49.6	49.6
35°	73.5	56.9	47.7	42.3	40.4	40.4	40.4
37.5°	62.4	47.7	36.7	33.0	31.2	29.3	29.3
40°	53.3	36.7	27.5	23.9	20.2	20.2	20.2
42.5°	44.0	29.3	20.2	14.7	12.8	11.0	12.8
45°	36.7	22.1	12.8	7.4	5.5	5.5	5.5
47.5°	29.3	14.7	5.5	1.8	1.8	1.8	1.8
50°	22.1	9.1	1.8	0.0	0.0	1.8	1.8
52.5°	16.5	5.5	0.0	0.0	0.0	0.0	0.0
55°	9.1	1.8	0.0	0.0	0.0	0.0	0.0
57.5°	5.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.8	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)