

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: P165043

Luminaire Tested: **VST-F04-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165043
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-F04-LED-E-U-SL2-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6138.5 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
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

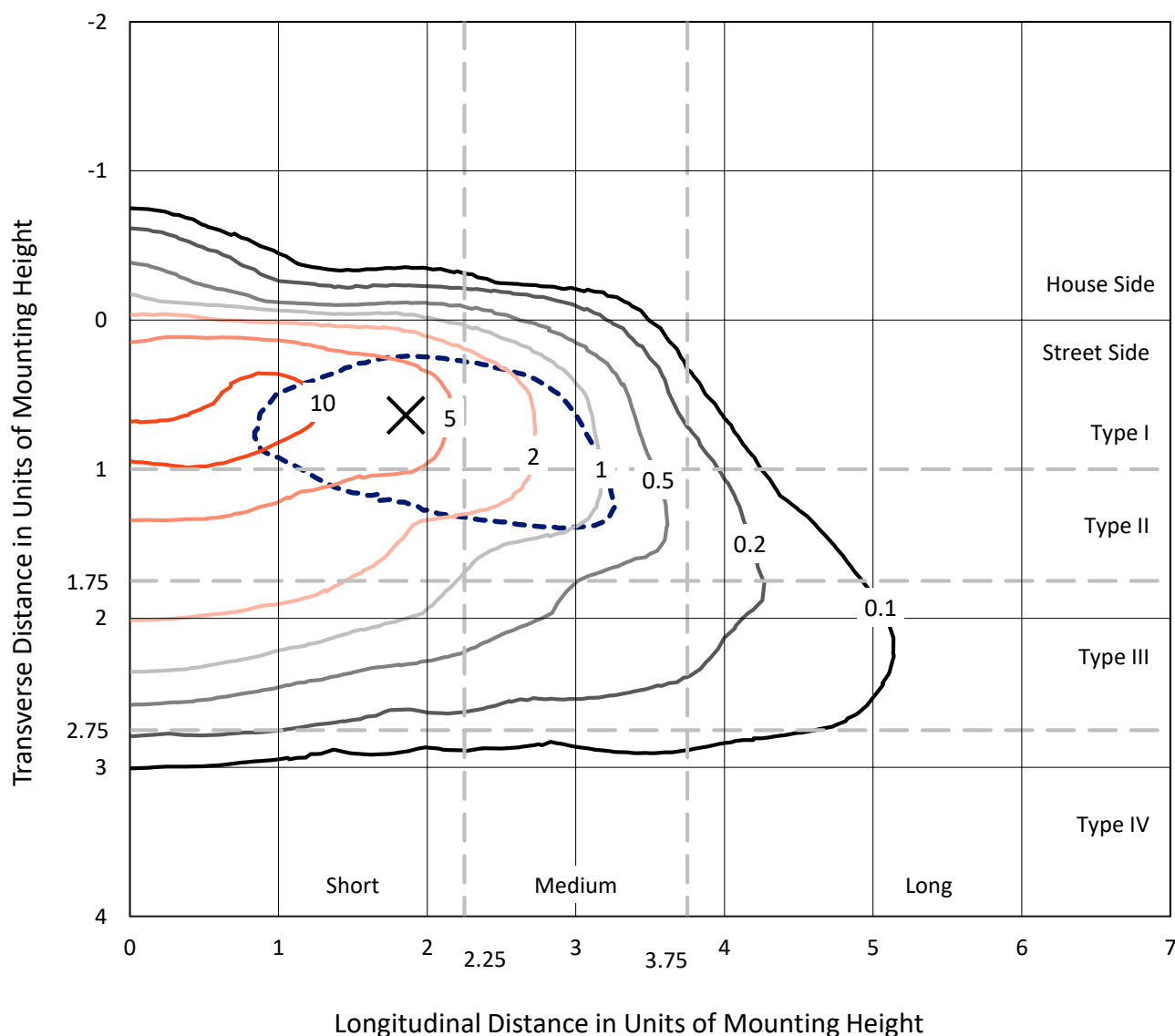


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

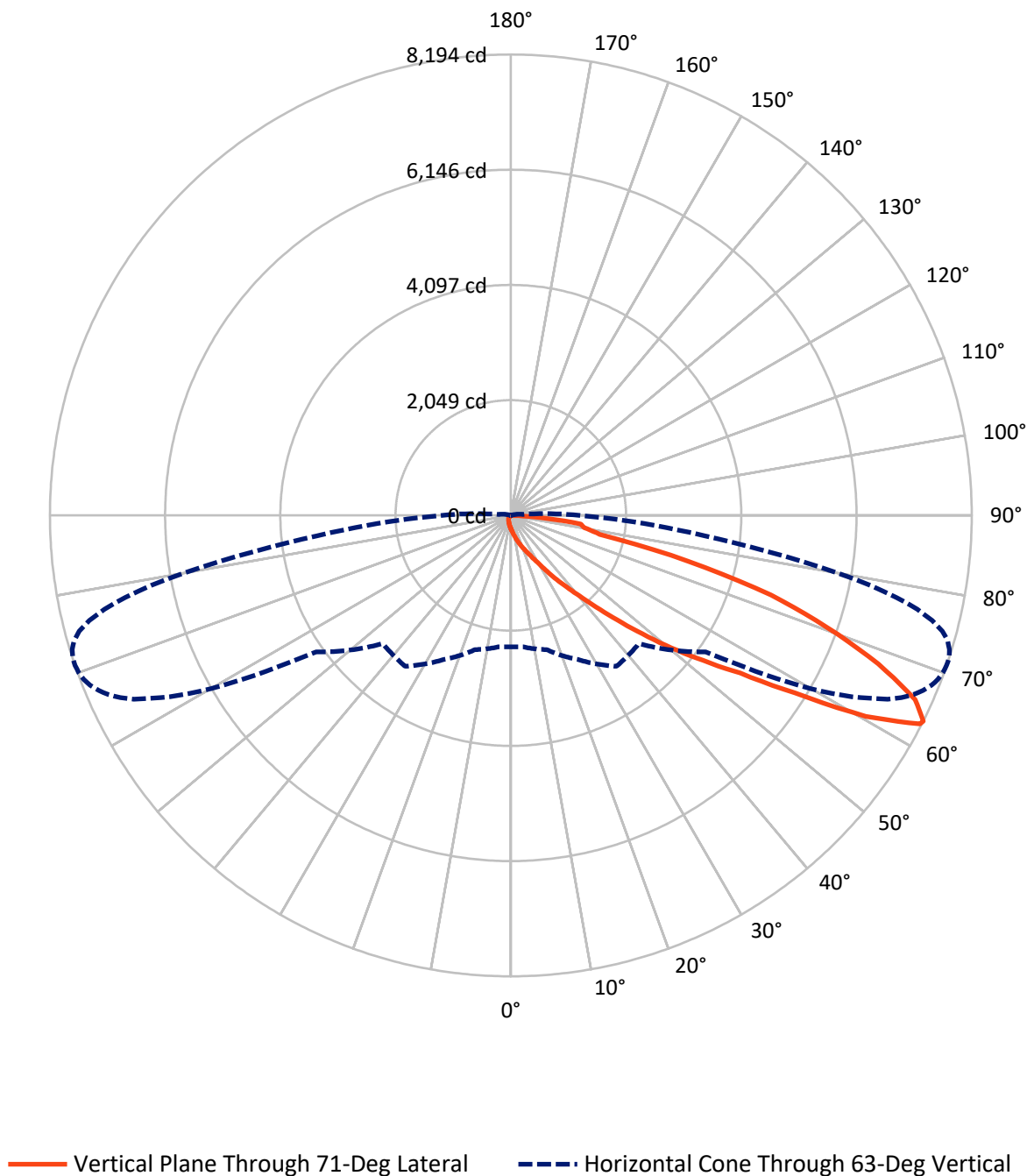


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	130.3	0.0	130.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6008.1	0.0	6008.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	6138.5	0.0	6138.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.4
10°-20°	100.9	1.6
20°-30°	205.0	3.3
30°-40°	500.9	8.2
40°-50°	1120.2	18.2
50°-60°	1575.1	25.7
60°-70°	1852.2	30.2
70°-80°	668.8	10.9
80°-90°	89.4	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°	6138.5	100.0
0°-180°	6138.5	100.0

Coefficient of Utilization



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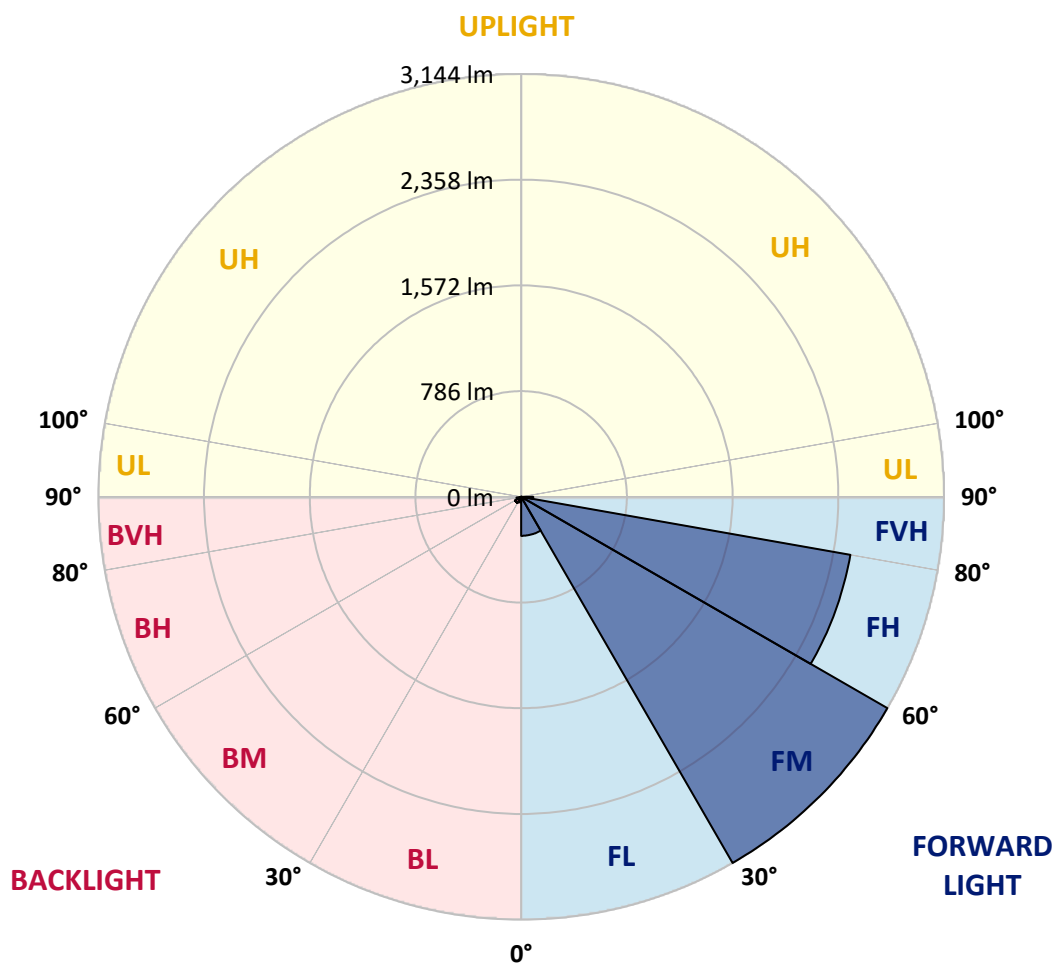
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.1	4.7			
FM	(30°-60°)	3143.6	51.2			
FH	(60°-80°)	2485.2	40.5			G2/5000
FVH	(80°-90°)	89.2	1.5			G1/100
BL	(0°-30°)	41.9	0.7	B0/110		
BM	(30°-60°)	52.5	0.9	B0/220		
BH	(60°-80°)	35.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	308.0	311.3	309.1	303.5	296.8	287.9	280.1	280.1	279.0	275.6	276.8
5°	404.0	405.1	400.6	387.2	374.9	356.0	334.8	332.5	330.3	327.0	325.9
7.5°	497.7	502.1	497.7	483.2	458.6	429.6	396.2	392.8	386.1	386.1	381.7
10°	593.7	593.7	589.2	572.5	550.1	508.9	466.4	460.9	453.1	450.8	444.1
12.5°	661.7	661.7	659.5	650.6	632.7	595.9	544.6	539.0	529.0	525.6	517.8
15°	688.5	688.5	689.7	697.4	698.6	681.9	628.3	623.8	613.8	604.8	601.5
17.5°	705.2	704.2	704.2	715.3	735.4	746.6	712.0	707.5	696.4	691.9	680.7
20°	742.1	739.9	733.2	733.2	752.1	791.2	791.2	790.1	777.8	774.4	768.9
22.5°	796.8	794.6	774.4	757.7	766.6	815.8	861.5	859.3	854.8	850.3	847.0
25°	886.0	878.2	843.6	794.6	786.8	839.2	915.0	920.7	924.0	924.0	926.2
27.5°	1021.1	1011.1	949.7	858.2	823.6	877.1	974.2	985.4	995.4	997.7	1007.7
30°	1208.5	1190.7	1102.6	968.6	889.4	932.9	1061.3	1073.5	1088.1	1092.5	1108.1
32.5°	1516.5	1506.5	1421.7	1220.8	1051.2	1042.3	1182.9	1198.5	1217.5	1225.3	1244.3
35°	1985.3	1987.5	1918.3	1737.5	1503.2	1380.4	1400.5	1413.9	1420.6	1444.0	1454.1
37.5°	2303.3	2308.9	2324.5	2253.1	2085.7	1960.7	1803.3	1817.9	1783.3	1786.6	1787.7
40°	2477.4	2495.2	2586.8	2656.0	2642.5	2570.0	2443.9	2451.7	2387.0	2372.5	2302.1
42.5°	2593.4	2616.9	2763.1	2977.3	3086.7	3152.5	3123.5	3120.2	3069.9	3051.0	2991.8
45°	2666.0	2687.2	2871.3	3187.1	3439.3	3631.2	3710.5	3719.4	3677.0	3658.0	3608.9
47.5°	2662.6	2687.2	2884.7	3265.2	3636.9	3943.7	4166.9	4178.0	4203.7	4187.0	4190.3
50°	2515.3	2538.8	2737.4	3132.4	3578.8	4086.6	4495.0	4530.7	4572.0	4599.9	4613.3
52.5°	2336.8	2353.5	2529.8	2904.8	3331.0	4027.4	4689.1	4750.5	4811.9	4864.4	4901.2
55°	2270.9	2289.9	2428.3	2739.6	3132.4	3779.7	4779.5	4869.9	4957.0	5042.9	5113.2
57.5°	2305.5	2323.4	2422.7	2661.5	3014.2	3518.5	4805.2	4945.8	5088.7	5228.2	5366.5
60°	2432.7	2451.7	2536.6	2734.0	2982.9	3367.9	4704.8	4938.0	5175.7	5419.0	5647.8
62.5°	2382.5	2390.3	2515.3	2861.3	3206.1	3239.6	4339.9	4665.8	5028.4	5403.4	5772.7
63°	2334.5	2343.5	2470.7	2826.7	3274.2	3220.6	4227.2	4570.9	4953.6	5357.6	5759.4
65°	2116.9	2118.0	2215.1	2496.4	3198.3	3254.1	3725.0	4053.1	4492.8	4977.1	5484.8
67.5°	1580.2	1572.4	1666.1	1880.4	2510.9	3255.2	3197.1	3381.3	3687.1	4116.7	4572.0
70°	560.2	548.0	699.7	996.5	1564.5	2662.6	2747.4	2759.7	2844.5	3076.6	3362.3
72.5°	181.9	185.3	223.2	364.9	720.9	1792.2	2487.4	2449.5	2427.2	2426.0	2464.0
75°	72.5	73.7	89.2	161.8	323.7	863.7	2178.3	2199.5	2207.3	2218.5	2230.8
77.5°	34.6	37.9	50.2	90.4	160.7	427.4	1559.0	1738.6	1841.3	1920.6	1968.5
80°	12.3	14.5	27.9	55.8	74.7	196.4	821.3	990.9	1141.6	1335.8	1503.2
82.5°	0.0	0.0	5.6	39.0	41.3	79.2	337.0	395.0	451.9	585.8	752.1
85°	0.0	0.0	0.0	11.2	12.3	13.4	113.8	137.3	154.0	179.6	207.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.7	16.7	25.7
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°	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	274.5	273.4	273.4	271.2	270.0	267.8	266.7	263.3	262.3	262.3	262.3
5°	324.7	320.3	318.0	312.5	309.1	308.0	302.4	300.2	296.8	298.0	292.3
7.5°	380.5	372.7	369.4	361.5	359.4	351.5	349.3	343.7	340.4	333.7	331.4
10°	441.9	431.9	426.3	414.0	410.7	405.1	398.4	391.7	386.1	379.4	376.1
12.5°	512.2	503.3	498.8	482.1	474.3	466.4	457.6	448.6	439.7	434.1	426.3
15°	594.8	580.3	575.8	560.2	546.8	536.8	524.5	513.3	506.6	495.5	487.6
17.5°	676.2	661.7	658.4	635.0	620.5	613.8	600.4	585.8	573.6	562.5	550.1
20°	757.7	747.7	738.7	716.4	700.8	689.7	671.8	657.3	647.2	631.6	616.0
22.5°	839.2	829.1	822.5	799.0	784.5	768.9	753.3	737.6	723.1	704.2	686.3
25°	922.9	916.2	912.8	891.7	878.2	863.7	848.1	830.3	812.4	791.2	772.3
27.5°	1009.9	1012.2	1005.4	1001.0	986.5	976.4	951.9	939.6	926.2	900.5	877.1
30°	1120.4	1127.1	1124.8	1128.2	1119.3	1112.6	1093.6	1078.0	1062.4	1037.8	1011.1
32.5°	1259.9	1268.9	1273.3	1285.6	1281.1	1278.9	1273.3	1251.0	1239.8	1197.4	1186.2
35°	1475.3	1470.8	1489.8	1499.8	1495.3	1493.2	1486.4	1474.2	1460.8	1430.6	1402.8
37.5°	1755.3	1759.8	1766.5	1746.5	1733.0	1732.0	1711.8	1699.6	1680.6	1647.1	1613.6
40°	2268.7	2240.8	2209.6	2124.7	2087.9	2066.7	2007.6	1990.8	1958.4	1912.7	1878.1
42.5°	2936.0	2908.1	2814.4	2672.7	2596.8	2491.9	2443.9	2384.8	2339.0	2264.3	2224.1
45°	3598.9	3518.5	3507.4	3342.2	3248.5	3110.1	3024.2	2924.9	2821.1	2722.9	2651.5
47.5°	4158.0	4140.1	4085.5	3985.0	3898.0	3781.9	3671.4	3518.5	3411.4	3271.9	3143.6
50°	4605.4	4604.4	4584.2	4526.2	4453.7	4360.0	4262.9	4133.5	4011.8	3841.0	3703.8
52.5°	4940.3	4958.1	4964.8	4946.9	4919.1	4836.5	4787.4	4679.1	4576.4	4431.4	4282.9
55°	5185.7	5251.6	5285.1	5323.0	5315.2	5286.2	5284.0	5213.6	5166.8	5051.8	4946.9
57.5°	5489.3	5597.5	5701.3	5885.5	5892.1	5956.9	5990.4	6023.9	6032.7	5987.0	5952.4
60°	5875.4	6096.4	6292.8	6677.8	6778.2	6936.7	7039.3	7150.9	7245.7	7253.6	7251.4
62.5°	6147.7	6488.1	6805.0	7376.3	7571.6	7754.7	7891.9	8000.2	8066.0	8132.9	8164.2
63°	6155.5	6528.2	6865.2	7454.5	7659.8	7833.9	7964.5	8064.9	8134.1	8174.2	8194.3
65°	5966.9	6418.9	6820.6	7407.6	7600.6	7775.9	7843.9	7909.8	7943.3	7958.9	7899.7
67.5°	5057.4	5499.4	5968.0	6624.2	6789.3	6999.1	7055.0	7088.5	7104.1	7100.7	7050.5
70°	3781.9	4152.4	4673.6	5423.5	5642.2	5847.5	5974.7	6029.4	6047.2	6041.7	5966.9
72.5°	2640.3	2857.9	3287.5	4122.3	4420.2	4683.6	4840.9	4922.4	4939.1	4905.7	4836.5
75°	2217.4	2228.6	2325.6	2782.0	3061.0	3342.2	3519.6	3571.0	3537.5	3435.9	3259.7
77.5°	1979.6	2004.2	2004.2	2072.3	2127.0	2205.1	2221.8	2096.8	1951.8	1764.3	1612.6
80°	1660.5	1746.5	1806.7	1856.9	1862.5	1846.9	1805.6	1735.3	1623.7	1480.8	1322.4
82.5°	1008.8	1178.5	1247.6	1506.5	1633.7	1719.6	1713.0	1619.2	1534.4	1386.0	1251.0
85°	254.5	274.5	298.0	387.2	434.1	530.1	590.3	618.2	628.3	577.0	522.3
87.5°	24.5	16.7	27.9	21.2	30.2	22.3	30.2	27.9	34.6	36.8	40.2
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°	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	260.0	258.9	257.8	256.7	255.5	254.5	252.2	252.2	250.0	248.8	247.8
5°	289.0	286.8	285.7	283.5	280.1	277.8	274.5	270.0	266.7	265.6	263.3
7.5°	325.9	320.3	318.0	314.7	310.2	303.5	299.1	295.7	290.2	286.8	280.1
10°	367.2	361.5	354.9	348.2	341.5	333.7	328.1	323.7	314.7	310.2	302.4
12.5°	419.6	409.6	401.7	392.8	383.9	374.9	368.2	354.9	347.0	337.0	330.3
15°	473.1	464.2	455.3	444.1	430.7	416.2	409.6	397.2	387.2	371.6	362.7
17.5°	537.9	521.1	507.8	494.4	482.1	468.7	455.3	436.3	421.8	408.4	390.6
20°	601.5	581.4	566.9	549.0	531.2	510.0	494.4	480.9	460.9	443.1	424.1
22.5°	669.5	649.5	626.0	608.2	583.7	566.9	545.7	523.4	503.3	479.9	456.4
25°	752.1	730.9	704.2	680.7	652.8	629.4	603.7	578.0	553.5	526.7	496.6
27.5°	853.7	831.4	802.4	774.4	737.6	708.6	684.1	649.5	618.2	584.8	550.1
30°	982.0	957.5	921.8	881.6	844.8	812.4	777.8	732.1	697.4	657.3	612.7
32.5°	1149.4	1120.4	1072.4	1034.4	988.7	946.3	898.3	852.6	803.5	751.1	699.7
35°	1360.3	1333.6	1277.7	1222.0	1171.7	1121.5	1061.3	1008.8	939.6	876.0	810.1
37.5°	1579.1	1531.0	1479.7	1419.5	1356.9	1296.7	1223.0	1150.5	1071.3	1002.1	919.5
40°	1829.0	1771.0	1728.6	1663.9	1575.7	1489.8	1421.7	1331.3	1232.0	1139.4	1042.3
42.5°	2171.6	2106.9	2031.0	1932.8	1869.2	1768.8	1680.6	1573.5	1442.9	1339.1	1222.0
45°	2567.8	2479.6	2406.0	2311.1	2234.1	2109.2	2006.5	1863.6	1733.0	1596.9	1454.1
47.5°	3019.7	2910.3	2803.2	2709.5	2586.8	2464.0	2333.5	2181.7	2014.3	1864.7	1695.1
50°	3538.6	3383.5	3235.1	3114.6	2946.1	2804.4	2662.6	2491.9	2306.6	2134.8	1941.7
52.5°	4115.6	3935.9	3739.5	3554.3	3359.0	3177.1	3006.3	2809.9	2603.5	2393.7	2178.3
55°	4811.9	4676.9	4445.9	4210.4	3949.3	3706.1	3486.2	3242.9	2991.8	2716.2	2489.7
57.5°	5902.2	5836.4	5643.3	5407.9	5067.5	4771.7	4399.0	4101.1	3737.3	3357.9	3065.5
60°	7379.7	7298.2	7190.0	6999.1	6729.1	6327.4	5916.7	5453.6	4900.1	4374.5	3875.7
62.5°	8167.6	8138.5	8050.4	7918.7	7666.5	7349.6	6935.6	6426.7	5801.8	5163.4	4527.4
63°	8191.0	8154.2	8078.3	7944.3	7722.3	7415.4	7009.2	6514.8	5903.3	5252.7	4603.2
65°	7874.1	7859.6	7782.5	7636.4	7484.6	7250.2	6935.6	6510.4	5997.0	5382.2	4736.0
67.5°	6983.6	6940.0	6821.7	6777.1	6671.1	6508.1	6268.2	5975.8	5608.7	5125.5	4567.5
70°	5906.6	5841.9	5693.5	5614.3	5484.8	5382.2	5236.0	5027.3	4800.8	4463.7	4047.5
72.5°	4765.0	4631.1	4495.0	4288.6	4107.8	3924.7	3762.9	3615.7	3366.8	3230.6	2914.8
75°	3094.5	2851.2	2618.0	2305.5	2024.3	1775.5	1533.3	1410.6	1155.0	1051.2	902.8
77.5°	1468.6	1332.4	1149.4	1007.7	826.9	675.2	551.3	414.0	324.7	254.5	194.1
80°	1185.1	1070.2	959.7	831.4	695.2	554.6	425.2	318.0	225.4	156.2	110.5
82.5°	1056.8	931.8	795.6	707.5	614.9	503.3	412.9	337.0	248.8	181.9	123.9
85°	410.7	345.9	266.7	217.6	169.6	139.5	126.1	87.0	68.1	53.5	41.3
87.5°	35.7	29.0	23.4	15.7	16.7	8.9	10.0	6.7	5.6	5.6	4.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	246.6	245.5	244.4	242.1	242.1	240.0	238.8	237.7	232.1	219.8	209.8
5°	258.9	256.7	254.5	251.1	248.8	245.5	243.3	240.0	227.6	204.2	184.1
7.5°	276.8	272.3	269.0	262.3	258.9	254.5	251.1	245.5	225.4	189.7	161.8
10°	298.0	290.2	284.5	276.8	270.0	264.5	258.9	251.1	223.2	174.1	141.7
12.5°	323.7	314.7	303.5	294.6	285.7	277.8	270.0	260.0	219.8	160.7	126.1
15°	349.3	335.9	328.1	315.8	303.5	292.3	281.2	272.3	221.0	146.2	112.7
17.5°	378.3	364.9	348.2	334.8	321.4	306.9	293.5	275.6	215.4	135.1	102.7
20°	406.2	387.2	371.6	354.9	335.9	318.0	301.3	285.7	210.9	123.9	93.7
22.5°	436.3	414.0	393.9	372.7	349.3	329.2	309.1	289.0	203.1	113.8	85.9
25°	473.1	447.5	418.5	392.8	368.2	343.7	318.0	293.5	195.3	104.9	80.4
27.5°	517.8	484.3	455.3	422.9	388.4	357.1	329.2	302.4	187.5	98.2	74.7
30°	574.7	535.6	494.4	453.1	416.2	380.5	341.5	308.0	179.6	91.5	69.2
32.5°	650.6	601.5	551.3	503.3	454.2	408.4	367.2	323.7	175.2	85.9	63.6
35°	751.1	687.4	626.0	565.8	506.6	450.8	397.2	348.2	175.2	79.2	56.9
37.5°	845.9	772.3	694.1	619.3	549.0	484.3	420.7	361.5	166.3	73.7	51.4
40°	948.5	860.4	768.9	680.7	595.9	515.6	443.1	374.9	158.4	67.0	45.7
42.5°	1105.9	994.3	874.9	772.3	670.7	571.3	480.9	400.6	148.4	60.2	40.2
45°	1312.4	1170.6	1030.0	905.0	775.6	653.9	546.8	447.5	146.2	54.7	34.6
47.5°	1533.3	1365.9	1200.7	1041.2	889.4	747.7	619.3	499.9	146.2	49.1	30.2
50°	1753.1	1543.4	1367.0	1181.8	1011.1	843.6	690.7	554.6	147.3	44.7	24.5
52.5°	1951.8	1727.5	1530.0	1315.7	1127.1	932.9	766.6	608.2	145.1	39.0	20.1
55°	2227.4	1964.1	1735.3	1498.7	1277.7	1059.0	870.5	688.5	146.2	34.6	16.7
57.5°	2735.2	2426.0	2150.4	1840.2	1585.7	1303.4	1074.6	853.7	159.6	29.0	12.3
60°	3463.9	3062.1	2674.9	2296.6	1973.0	1637.1	1340.2	1080.3	187.5	23.4	8.9
62.5°	3953.7	3428.1	2966.2	2548.8	2172.7	1821.2	1497.6	1201.8	206.4	19.0	5.6
63°	4004.0	3460.5	2996.3	2565.6	2181.7	1830.2	1504.3	1210.8	207.6	17.8	5.6
65°	4098.8	3516.3	3013.0	2568.9	2172.7	1817.9	1499.8	1209.7	209.8	14.5	4.5
67.5°	3990.6	3430.4	2916.0	2472.9	2094.6	1745.3	1444.0	1165.0	208.7	10.0	3.3
70°	3568.8	3104.6	2652.6	2239.7	1896.0	1580.2	1314.6	1062.4	191.9	6.7	2.2
72.5°	2620.2	2304.4	1954.0	1656.1	1428.4	1186.2	1012.2	797.9	148.4	4.5	1.1
75°	776.7	707.5	594.8	524.5	463.1	382.7	340.4	265.6	75.9	2.2	0.0
77.5°	155.1	140.6	126.1	114.9	108.2	92.6	88.2	72.5	31.2	1.1	0.0
80°	81.5	67.0	56.9	50.2	43.5	35.7	30.2	24.5	5.6	0.0	0.0
82.5°	78.1	52.5	37.9	31.2	26.8	21.2	16.7	12.3	3.3	0.0	0.0
85°	29.0	22.3	16.7	13.4	11.2	10.0	7.8	6.7	0.0	0.0	0.0
87.5°	4.5	3.3	3.3	2.2	2.2	1.1	1.1	1.1	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°	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	199.8	190.8	186.4	180.8	180.8	179.6	181.9
5°	166.3	154.0	145.1	138.4	139.5	136.1	137.3
7.5°	140.6	128.3	120.5	116.1	114.9	113.8	113.8
10°	121.6	110.5	103.7	100.4	99.3	99.3	99.3
12.5°	108.2	97.1	91.5	89.2	89.2	88.2	88.2
15°	97.1	88.2	82.6	80.4	80.4	79.2	80.4
17.5°	88.2	79.2	74.7	72.5	72.5	71.4	71.4
20°	80.4	72.5	68.1	64.7	64.7	63.6	64.7
22.5°	73.7	65.9	60.2	58.0	56.9	55.8	56.9
25°	67.0	59.2	53.5	50.2	49.1	49.1	48.0
27.5°	61.4	53.5	46.9	43.5	42.4	42.4	41.3
30°	55.8	46.9	40.2	36.8	35.7	35.7	35.7
32.5°	50.2	40.2	34.6	31.2	30.2	30.2	30.2
35°	44.7	34.6	29.0	25.7	24.5	24.5	24.5
37.5°	37.9	29.0	22.3	20.1	19.0	17.8	17.8
40°	32.4	22.3	16.7	14.5	12.3	12.3	12.3
42.5°	26.8	17.8	12.3	8.9	7.8	6.7	7.8
45°	22.3	13.4	7.8	4.5	3.3	3.3	3.3
47.5°	17.8	8.9	3.3	1.1	1.1	1.1	1.1
50°	13.4	5.6	1.1	0.0	0.0	1.1	1.1
52.5°	10.0	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.6	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	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)