

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: P165033

Luminaire Tested: **VST-F03-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165033
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-F03-LED-E-U-SL2-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4603.8 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

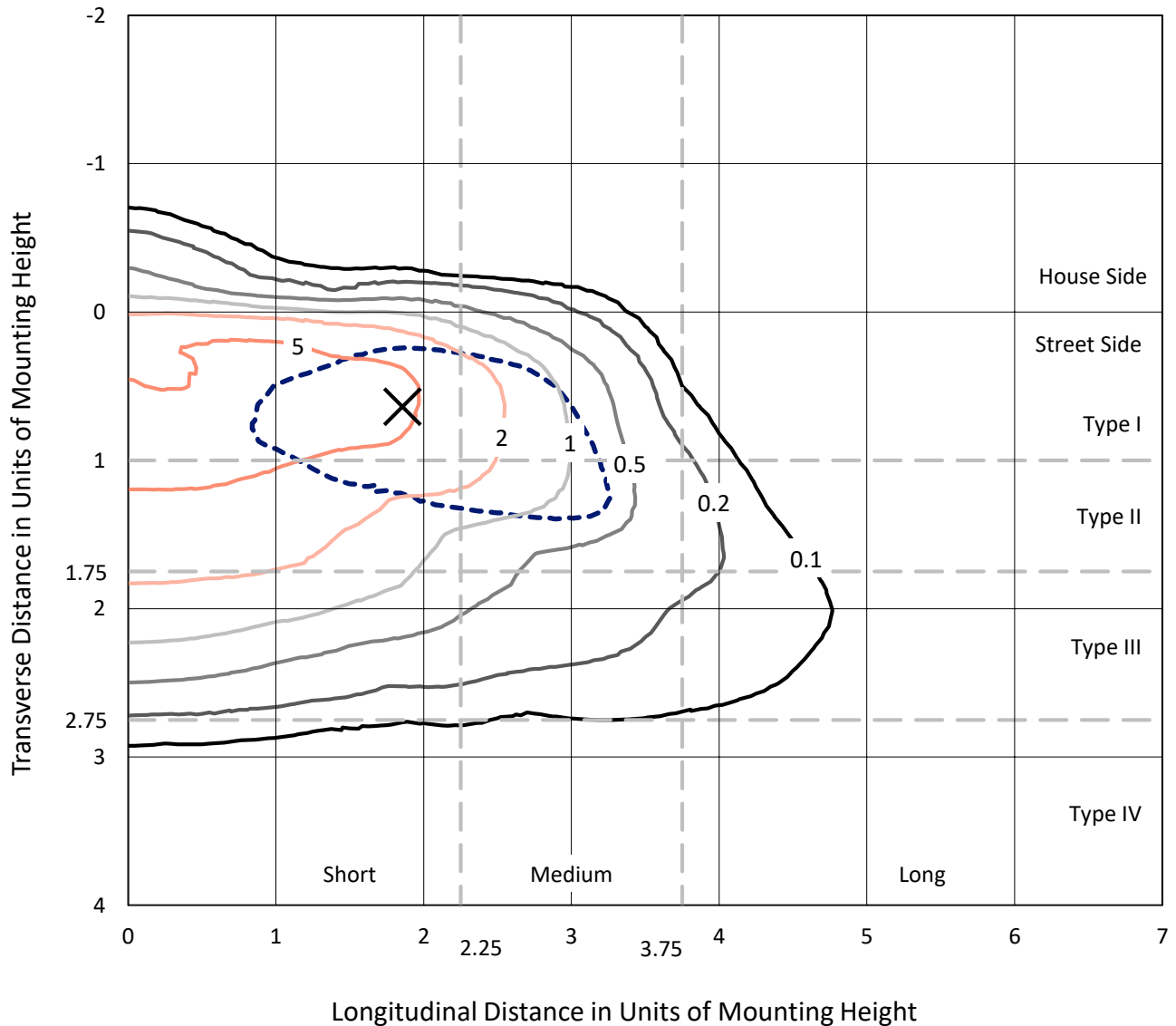
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

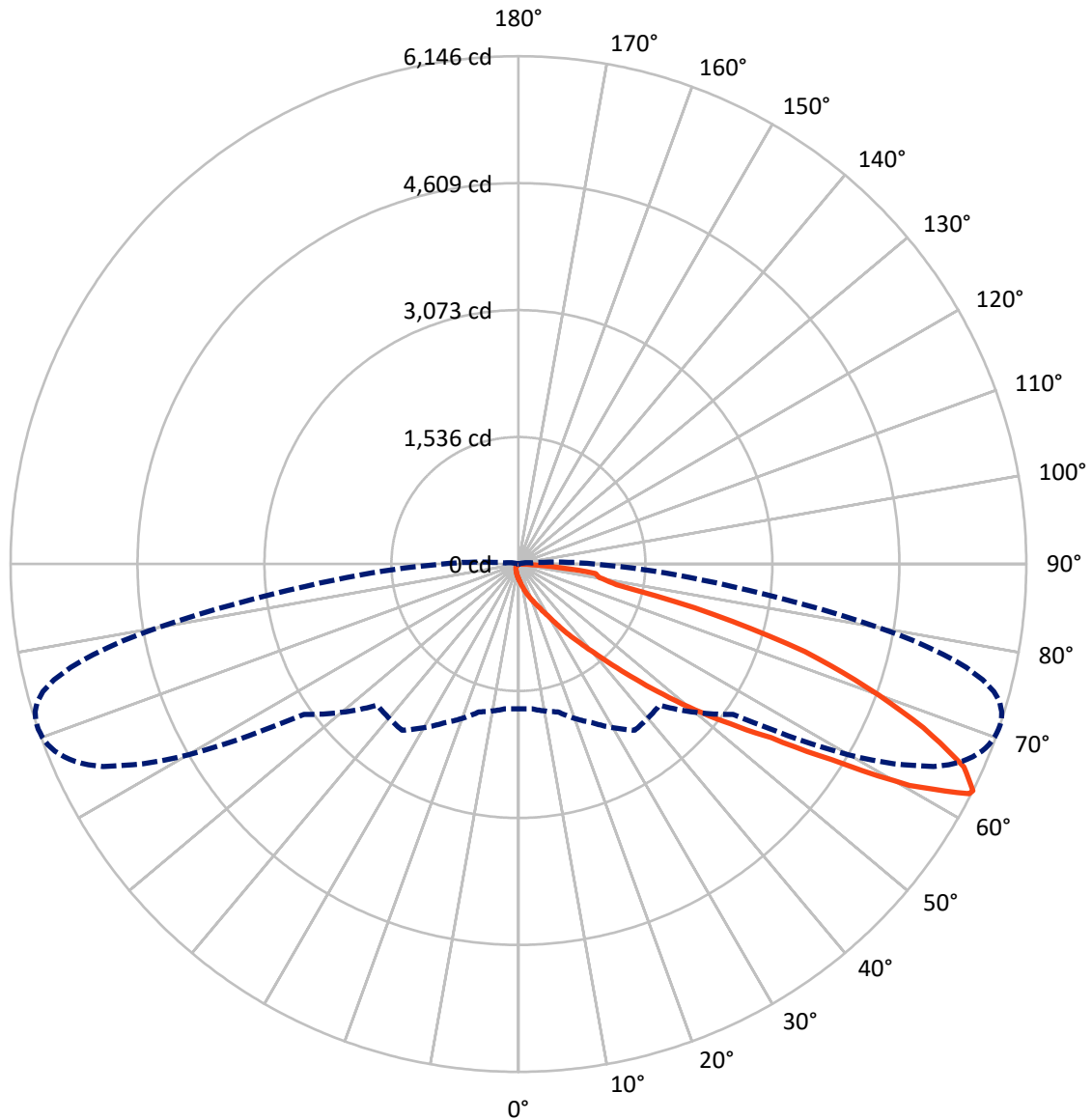
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.7	0.0	97.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4506.1	0.0	4506.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	4603.8	0.0	4603.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.5	0.4
10°-20°	75.7	1.6
20°-30°	153.8	3.3
30°-40°	375.7	8.2
40°-50°	840.1	18.2
50°-60°	1181.3	25.7
60°-70°	1389.1	30.2
70°-80°	501.6	10.9
80°-90°	67.1	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°	4603.8	100.0
0°-180°	4603.8	100.0



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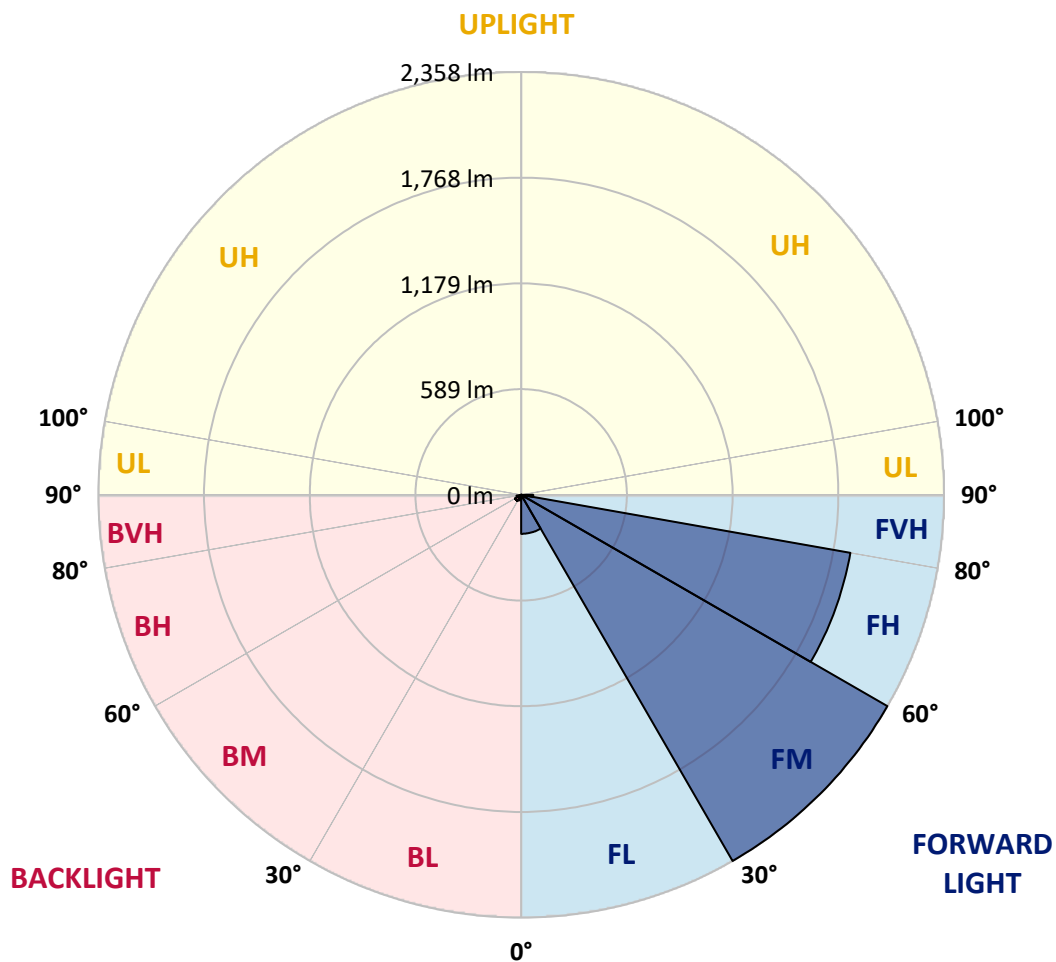
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.5	4.7			
FM	(30°-60°)	2357.7	51.2			
FH	(60°-80°)	1863.9	40.5			G2/5000
FVH	(80°-90°)	66.9	1.5			G1/100
BL	(0°-30°)	31.4	0.7	B0/110		
BM	(30°-60°)	39.4	0.9	B0/220		
BH	(60°-80°)	26.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	231.0	233.5	231.8	227.6	222.6	215.9	210.1	210.1	209.2	206.7	207.5
5°	302.9	303.8	300.5	290.4	281.2	267.0	251.1	249.4	247.7	245.2	244.4
7.5°	373.3	376.6	373.3	362.4	344.0	322.2	297.1	294.6	289.6	289.6	286.3
10°	445.3	445.3	441.9	429.4	412.6	381.7	349.8	345.7	339.8	338.2	333.1
12.5°	496.3	496.3	494.6	488.0	474.5	446.9	408.4	404.3	396.7	394.2	388.4
15°	516.4	516.4	517.3	523.1	524.0	511.4	471.2	467.8	460.3	453.6	451.1
17.5°	529.0	528.1	528.1	536.5	551.5	559.9	533.9	530.6	522.3	518.9	510.5
20°	556.6	554.9	549.9	549.9	564.1	593.4	593.4	592.6	583.4	580.8	576.7
22.5°	597.6	595.9	580.8	568.3	575.0	611.8	646.1	644.5	641.1	637.7	635.3
25°	664.6	658.7	632.7	595.9	590.1	629.4	686.3	690.5	693.0	693.0	694.7
27.5°	765.8	758.3	712.3	643.6	617.7	657.8	730.7	739.0	746.6	748.3	755.8
30°	906.4	893.0	826.9	726.5	667.1	699.7	796.0	805.1	816.1	819.4	831.1
32.5°	1137.4	1129.9	1066.3	915.6	788.4	781.7	887.2	898.9	913.1	919.0	933.2
35°	1489.0	1490.6	1438.7	1303.1	1127.4	1035.3	1050.4	1060.4	1065.4	1083.0	1090.6
37.5°	1727.5	1731.7	1743.4	1689.8	1564.3	1470.5	1352.5	1363.4	1337.5	1339.9	1340.8
40°	1858.0	1871.4	1940.1	1991.9	1981.9	1927.5	1832.9	1838.8	1790.2	1779.4	1726.6
42.5°	1945.1	1962.7	2072.3	2233.0	2315.0	2364.4	2342.6	2340.1	2302.4	2288.2	2243.9
45°	1999.5	2015.4	2153.5	2390.3	2579.5	2723.5	2782.9	2789.6	2757.7	2743.5	2706.7
47.5°	1996.9	2015.4	2163.5	2448.9	2727.7	2957.8	3125.2	3133.6	3152.8	3140.2	3142.7
50°	1886.5	1904.1	2053.1	2349.3	2684.1	3064.9	3371.2	3398.0	3429.0	3449.9	3460.0
52.5°	1752.6	1765.1	1897.4	2178.6	2498.3	3020.6	3516.8	3562.9	3608.9	3648.3	3675.9
55°	1703.2	1717.4	1821.2	2054.8	2349.3	2834.8	3584.6	3652.4	3717.8	3782.2	3834.9
57.5°	1729.1	1742.5	1817.0	1996.1	2260.6	2638.9	3603.9	3709.4	3816.5	3921.1	4024.9
60°	1824.5	1838.8	1902.4	2050.5	2237.2	2525.9	3528.6	3703.6	3881.8	4064.2	4235.8
62.5°	1786.9	1792.7	1886.5	2146.0	2404.6	2429.6	3254.9	3499.3	3771.4	4052.5	4329.5
63°	1750.9	1757.6	1853.0	2120.0	2455.6	2415.4	3170.4	3428.2	3715.2	4018.2	4319.5
65°	1587.7	1588.5	1661.3	1872.3	2398.7	2440.6	2793.8	3039.8	3369.5	3732.8	4113.7
67.5°	1185.1	1179.3	1249.6	1410.3	1883.2	2441.4	2397.8	2536.0	2765.3	3087.5	3429.0
70°	420.2	410.9	524.8	747.4	1173.4	1996.9	2060.6	2069.8	2133.4	2307.5	2521.7
72.5°	136.4	139.0	167.3	273.7	540.7	1344.2	1865.6	1837.1	1820.4	1819.5	1848.0
75°	54.4	55.3	67.0	121.4	242.8	647.8	1633.7	1649.6	1655.5	1663.9	1673.1
77.5°	25.9	28.4	37.7	67.8	120.5	320.6	1169.2	1304.0	1381.0	1440.4	1476.4
80°	9.2	10.9	20.9	41.8	56.0	147.3	616.0	743.2	856.2	1001.9	1127.4
82.5°	0.0	0.0	4.1	29.3	31.0	59.4	252.8	296.3	338.9	439.4	564.1
85°	0.0	0.0	0.0	8.4	9.2	10.1	85.4	103.0	115.5	134.8	155.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.0	12.5	19.3
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°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	205.9	205.1	205.1	203.4	202.6	200.9	200.0	197.5	196.7	196.7	196.7
5°	243.5	240.2	238.5	234.4	231.8	231.0	226.8	225.2	222.6	223.5	219.2
7.5°	285.4	279.5	277.0	271.1	269.5	263.6	262.0	257.8	255.3	250.3	248.6
10°	331.4	323.9	319.7	310.5	308.0	303.8	298.8	293.8	289.6	284.6	282.1
12.5°	384.2	377.5	374.1	361.6	355.7	349.8	343.1	336.5	329.8	325.6	319.7
15°	446.1	435.2	431.9	420.2	410.1	402.6	393.4	385.0	380.0	371.6	365.8
17.5°	507.2	496.3	493.8	476.2	465.4	460.3	450.3	439.4	430.2	421.9	412.6
20°	568.3	560.8	554.0	537.3	525.6	517.3	503.8	493.0	485.4	473.8	462.0
22.5°	629.4	621.8	616.9	599.3	588.4	576.7	565.0	553.2	542.3	528.1	514.7
25°	692.2	687.1	684.6	668.8	658.7	647.8	636.1	622.7	609.3	593.4	579.2
27.5°	757.4	759.1	754.1	750.7	739.9	732.4	713.9	704.8	694.7	675.4	657.8
30°	840.3	845.3	843.7	846.2	839.5	834.4	820.2	808.5	796.8	778.4	758.3
32.5°	944.9	951.7	955.0	964.2	960.8	959.2	955.0	938.2	929.8	898.1	889.7
35°	1106.5	1103.1	1117.3	1124.8	1121.5	1119.8	1114.9	1105.6	1095.6	1073.0	1052.0
37.5°	1316.5	1319.9	1324.9	1309.9	1299.8	1299.0	1283.9	1274.7	1260.4	1235.3	1210.3
40°	1701.5	1680.6	1657.2	1593.5	1565.9	1550.0	1505.7	1493.1	1468.8	1434.5	1408.6
42.5°	2202.0	2181.1	2110.8	2004.5	1947.6	1868.9	1832.9	1788.5	1754.3	1698.2	1668.1
45°	2699.2	2638.9	2630.5	2506.7	2436.4	2332.6	2268.1	2193.7	2115.8	2042.2	1988.6
47.5°	3118.5	3105.1	3064.1	2988.7	2923.5	2836.4	2753.6	2638.9	2558.6	2453.9	2357.7
50°	3454.1	3453.3	3438.2	3394.7	3340.3	3270.0	3197.2	3100.1	3008.9	2880.8	2777.9
52.5°	3705.2	3718.6	3723.6	3710.2	3689.3	3627.4	3590.6	3509.3	3432.4	3323.5	3212.2
55°	3889.3	3938.7	3963.8	3992.3	3986.4	3964.7	3963.0	3910.3	3875.1	3788.9	3710.2
57.5°	4117.0	4198.1	4276.0	4414.1	4419.1	4467.7	4492.8	4517.9	4524.5	4490.2	4464.3
60°	4406.5	4572.3	4719.5	5008.4	5083.7	5202.5	5279.5	5363.2	5434.3	5440.2	5438.5
62.5°	4610.8	4866.1	5103.7	5532.2	5678.7	5816.0	5918.9	6000.1	6049.5	6099.7	6123.1
63°	4616.6	4896.2	5149.0	5590.9	5744.8	5875.4	5973.4	6048.7	6100.6	6130.7	6145.7
65°	4475.2	4814.2	5115.4	5555.7	5700.5	5831.9	5882.9	5932.3	5957.5	5969.2	5924.8
67.5°	3793.1	4124.5	4476.0	4968.1	5092.0	5249.3	5291.2	5316.4	5328.1	5325.5	5287.9
70°	2836.4	3114.3	3505.1	4067.6	4231.7	4385.6	4481.0	4522.1	4535.4	4531.3	4475.2
72.5°	1980.2	2143.4	2465.6	3091.7	3315.2	3512.7	3630.7	3691.8	3704.3	3679.3	3627.4
75°	1663.0	1671.4	1744.2	2086.5	2295.7	2506.7	2639.7	2678.2	2653.1	2576.9	2444.8
77.5°	1484.8	1503.2	1503.2	1554.2	1595.2	1653.8	1666.4	1572.6	1463.8	1323.2	1209.4
80°	1245.4	1309.9	1355.0	1392.7	1396.9	1385.2	1354.1	1301.5	1217.8	1110.6	991.8
82.5°	756.6	883.9	935.8	1129.9	1225.3	1289.7	1284.7	1214.4	1150.8	1039.5	938.2
85°	190.9	205.9	223.5	290.4	325.6	397.6	442.7	463.7	471.2	432.7	391.7
87.5°	18.4	12.5	20.9	15.9	22.6	16.7	22.6	20.9	25.9	27.6	30.1
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°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	195.0	194.2	193.3	192.5	191.6	190.9	189.2	189.2	187.5	186.6	185.8
5°	216.8	215.1	214.3	212.6	210.1	208.4	205.9	202.6	200.0	199.2	197.5
7.5°	244.4	240.2	238.5	236.0	232.7	227.6	224.3	221.8	217.6	215.1	210.1
10°	275.3	271.1	266.2	261.1	256.1	250.3	246.1	242.8	236.0	232.7	226.8
12.5°	314.7	307.2	301.3	294.6	287.9	281.2	276.2	266.2	260.3	252.8	247.7
15°	354.8	348.1	341.5	333.1	323.0	312.2	307.2	298.0	290.4	278.7	272.0
17.5°	403.4	390.8	380.8	370.7	361.6	351.5	341.5	327.2	316.4	306.3	293.0
20°	451.1	436.1	425.2	411.8	398.4	382.5	370.7	360.7	345.7	332.3	318.1
22.5°	502.1	487.1	469.5	456.2	437.8	425.2	409.3	392.5	377.5	359.9	342.3
25°	564.1	548.2	528.1	510.5	489.6	472.1	452.8	433.6	415.1	395.0	372.4
27.5°	640.3	623.5	601.7	580.8	553.2	531.5	513.1	487.1	463.7	438.5	412.6
30°	736.5	718.1	691.3	661.2	633.6	609.3	583.4	549.1	523.1	493.0	459.5
32.5°	862.1	840.3	804.3	775.9	741.5	709.7	673.7	639.4	602.6	563.3	524.8
35°	1020.2	1000.2	958.3	916.4	878.8	841.1	796.0	756.6	704.8	657.0	607.6
37.5°	1184.3	1148.3	1109.8	1064.6	1017.7	972.5	917.3	862.9	803.5	751.6	689.6
40°	1371.8	1328.2	1296.4	1247.9	1181.8	1117.3	1066.3	998.5	924.0	854.5	781.7
42.5°	1628.7	1580.2	1523.3	1449.6	1401.9	1326.6	1260.4	1180.1	1082.2	1004.3	916.4
45°	1925.8	1859.7	1804.5	1733.3	1675.6	1581.8	1504.9	1397.7	1299.8	1197.7	1090.6
47.5°	2264.8	2182.7	2102.4	2032.1	1940.1	1848.0	1750.1	1636.3	1510.7	1398.5	1271.3
50°	2654.0	2537.6	2426.3	2335.9	2209.6	2103.3	1996.9	1868.9	1730.0	1601.1	1456.3
52.5°	3086.7	2951.9	2804.6	2665.7	2519.2	2382.8	2254.7	2107.4	1952.6	1795.3	1633.7
55°	3608.9	3507.7	3334.4	3157.9	2962.0	2779.6	2614.6	2432.2	2243.9	2037.1	1867.3
57.5°	4426.7	4377.2	4232.5	4055.9	3800.6	3578.8	3299.3	3075.8	2803.0	2518.4	2299.1
60°	5534.8	5473.7	5392.5	5249.3	5046.8	4745.5	4437.5	4090.2	3675.1	3280.9	2906.8
62.5°	6125.7	6103.9	6037.8	5939.0	5749.9	5512.2	5201.7	4820.0	4351.3	3872.6	3395.5
63°	6143.2	6115.6	6058.7	5958.2	5791.7	5561.6	5256.9	4886.1	4427.5	3939.5	3452.4
65°	5905.6	5894.7	5836.9	5727.2	5613.5	5437.7	5201.7	4882.7	4497.8	4036.6	3552.0
67.5°	5237.7	5205.0	5116.3	5082.8	5003.3	4881.1	4701.2	4481.9	4206.5	3844.1	3425.6
70°	4430.0	4381.4	4270.1	4210.7	4113.7	4036.6	3927.0	3770.5	3600.5	3347.8	3035.6
72.5°	3573.8	3473.3	3371.2	3216.4	3080.8	2943.5	2822.2	2711.8	2525.0	2423.0	2186.1
75°	2320.9	2138.4	1963.5	1729.1	1518.2	1331.6	1150.0	1057.9	866.3	788.4	677.1
77.5°	1101.4	999.3	862.1	755.8	620.2	506.3	413.5	310.5	243.5	190.9	145.6
80°	888.8	802.6	719.8	623.5	521.4	415.9	318.9	238.5	169.0	117.2	82.9
82.5°	792.6	698.8	596.8	530.6	461.2	377.5	309.7	252.8	186.6	136.4	92.9
85°	308.0	259.4	200.0	163.2	127.2	104.6	94.6	65.3	51.1	40.1	31.0
87.5°	26.8	21.8	17.6	11.8	12.5	6.7	7.5	5.0	4.1	4.1	3.4
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°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	185.0	184.1	183.3	181.6	181.6	179.9	179.1	178.3	174.1	164.9	157.4
5°	194.2	192.5	190.9	188.3	186.6	184.1	182.5	179.9	170.7	153.2	138.1
7.5°	207.5	204.2	201.7	196.7	194.2	190.9	188.3	184.1	169.0	142.3	121.4
10°	223.5	217.6	213.4	207.5	202.6	198.4	194.2	188.3	167.3	130.6	106.3
12.5°	242.8	236.0	227.6	220.9	214.3	208.4	202.6	195.0	164.9	120.5	94.6
15°	262.0	251.9	246.1	236.8	227.6	219.2	210.9	204.2	165.7	109.6	84.5
17.5°	283.7	273.7	261.1	251.1	241.1	230.2	220.1	206.7	161.5	101.3	77.0
20°	304.6	290.4	278.7	266.2	251.9	238.5	226.0	214.3	158.2	92.9	70.3
22.5°	327.2	310.5	295.4	279.5	262.0	246.9	231.8	216.8	152.3	85.4	64.4
25°	354.8	335.6	313.9	294.6	276.2	257.8	238.5	220.1	146.5	78.7	60.3
27.5°	388.4	363.2	341.5	317.2	291.3	267.8	246.9	226.8	140.6	73.6	56.0
30°	431.0	401.7	370.7	339.8	312.2	285.4	256.1	231.0	134.8	68.6	51.9
32.5°	488.0	451.1	413.5	377.5	340.6	306.3	275.3	242.8	131.4	64.4	47.7
35°	563.3	515.6	469.5	424.3	380.0	338.2	298.0	261.1	131.4	59.4	42.7
37.5°	634.4	579.2	520.6	464.5	411.8	363.2	315.5	271.1	124.7	55.3	38.5
40°	711.4	645.2	576.7	510.5	446.9	386.7	332.3	281.2	118.8	50.2	34.3
42.5°	829.4	745.7	656.2	579.2	503.0	428.5	360.7	300.5	111.3	45.2	30.1
45°	984.2	877.9	772.6	678.8	581.7	490.4	410.1	335.6	109.6	41.0	25.9
47.5°	1150.0	1024.4	900.5	780.8	667.1	560.8	464.5	374.9	109.6	36.8	22.6
50°	1314.8	1157.5	1025.3	886.3	758.3	632.7	518.0	415.9	110.5	33.5	18.4
52.5°	1463.8	1295.6	1147.4	986.8	845.3	699.7	575.0	456.2	108.8	29.3	15.1
55°	1670.6	1473.1	1301.5	1124.0	958.3	794.3	652.9	516.4	109.6	25.9	12.5
57.5°	2051.4	1819.5	1612.8	1380.1	1189.3	977.6	806.0	640.3	119.7	21.8	9.2
60°	2597.9	2296.6	2006.2	1722.4	1479.8	1227.8	1005.2	810.2	140.6	17.6	6.7
62.5°	2965.3	2571.1	2224.6	1911.6	1629.5	1365.9	1123.2	901.4	154.8	14.2	4.1
63°	3002.9	2595.4	2247.2	1924.1	1636.3	1372.6	1128.2	908.1	155.7	13.4	4.1
65°	3074.1	2637.2	2259.8	1926.7	1629.5	1363.4	1124.8	907.3	157.4	10.9	3.4
67.5°	2993.0	2572.8	2187.0	1854.7	1570.9	1309.0	1083.0	873.8	156.5	7.5	2.5
70°	2676.6	2328.4	1989.4	1679.8	1421.9	1185.1	985.9	796.8	143.9	5.0	1.7
72.5°	1965.2	1728.3	1465.5	1242.1	1071.3	889.7	759.1	598.4	111.3	3.4	0.8
75°	582.5	530.6	446.1	393.4	347.3	287.0	255.3	199.2	56.9	1.7	0.0
77.5°	116.3	105.5	94.6	86.2	81.2	69.5	66.1	54.4	23.5	0.8	0.0
80°	61.1	50.2	42.7	37.7	32.6	26.8	22.6	18.4	4.1	0.0	0.0
82.5°	58.6	39.4	28.4	23.5	20.1	15.9	12.5	9.2	2.5	0.0	0.0
85°	21.8	16.7	12.5	10.1	8.4	7.5	5.8	5.0	0.0	0.0	0.0
87.5°	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8	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°	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	149.8	143.1	139.7	135.6	135.6	134.8	136.4
5°	124.7	115.5	108.8	103.8	104.6	102.1	103.0
7.5°	105.5	96.2	90.4	87.1	86.2	85.4	85.4
10°	91.3	82.9	77.8	75.3	74.5	74.5	74.5
12.5°	81.2	72.8	68.6	67.0	67.0	66.1	66.1
15°	72.8	66.1	62.0	60.3	60.3	59.4	60.3
17.5°	66.1	59.4	56.0	54.4	54.4	53.6	53.6
20°	60.3	54.4	51.1	48.5	48.5	47.7	48.5
22.5°	55.3	49.4	45.2	43.5	42.7	41.8	42.7
25°	50.2	44.3	40.1	37.7	36.8	36.8	36.0
27.5°	46.0	40.1	35.2	32.6	31.8	31.8	31.0
30°	41.8	35.2	30.1	27.6	26.8	26.8	26.8
32.5°	37.7	30.1	25.9	23.5	22.6	22.6	22.6
35°	33.5	25.9	21.8	19.3	18.4	18.4	18.4
37.5°	28.4	21.8	16.7	15.1	14.2	13.4	13.4
40°	24.3	16.7	12.5	10.9	9.2	9.2	9.2
42.5°	20.1	13.4	9.2	6.7	5.8	5.0	5.8
45°	16.7	10.1	5.8	3.4	2.5	2.5	2.5
47.5°	13.4	6.7	2.5	0.8	0.8	0.8	0.8
50°	10.1	4.1	0.8	0.0	0.0	0.8	0.8
52.5°	7.5	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.1	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)