

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: P165035

Luminaire Tested: **VST-E04-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165035
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-E04-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6116.1 lumens
Efficiency: N/A
Efficacy: 62.9 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

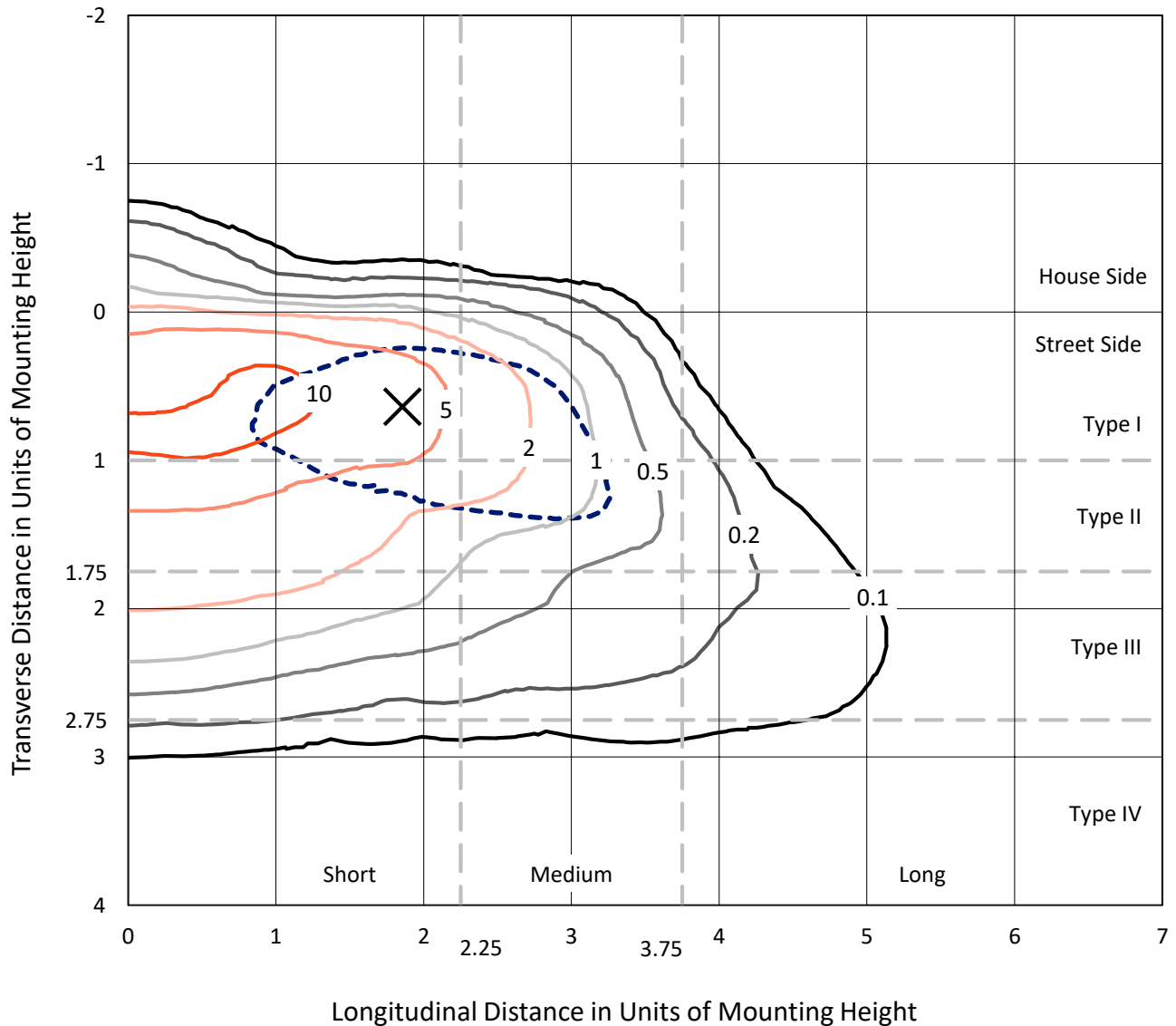
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

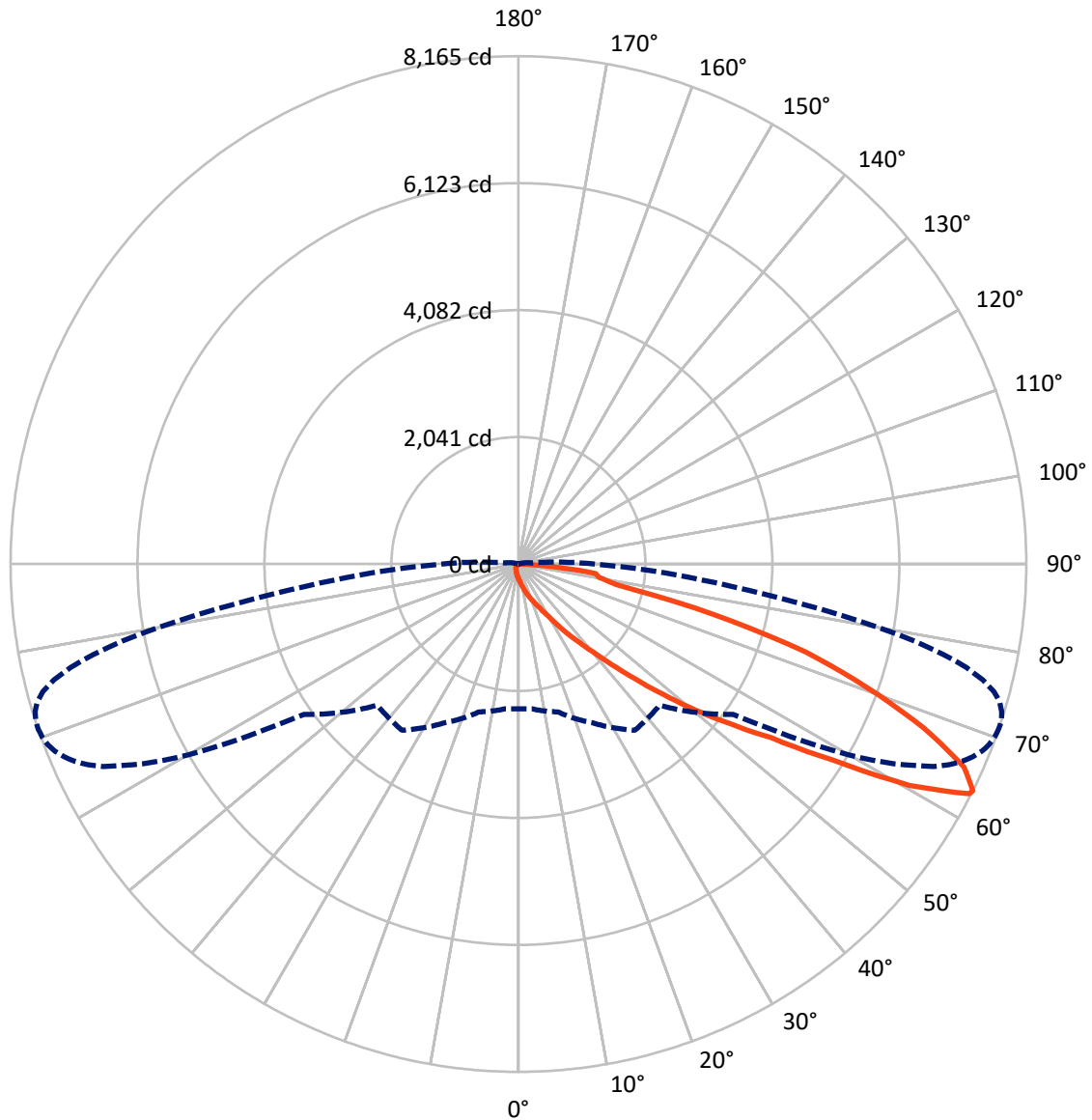
× Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	129.8	0.0	129.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5986.3	0.0	5986.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	6116.1	0.0	6116.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	0.4
10°-20°	100.6	1.6
20°-30°	204.3	3.3
30°-40°	499.0	8.2
40°-50°	1116.1	18.2
50°-60°	1569.3	25.7
60°-70°	1845.4	30.2
70°-80°	666.4	10.9
80°-90°	89.1	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°	6116.1	100.0
0°-180°	6116.1	100.0



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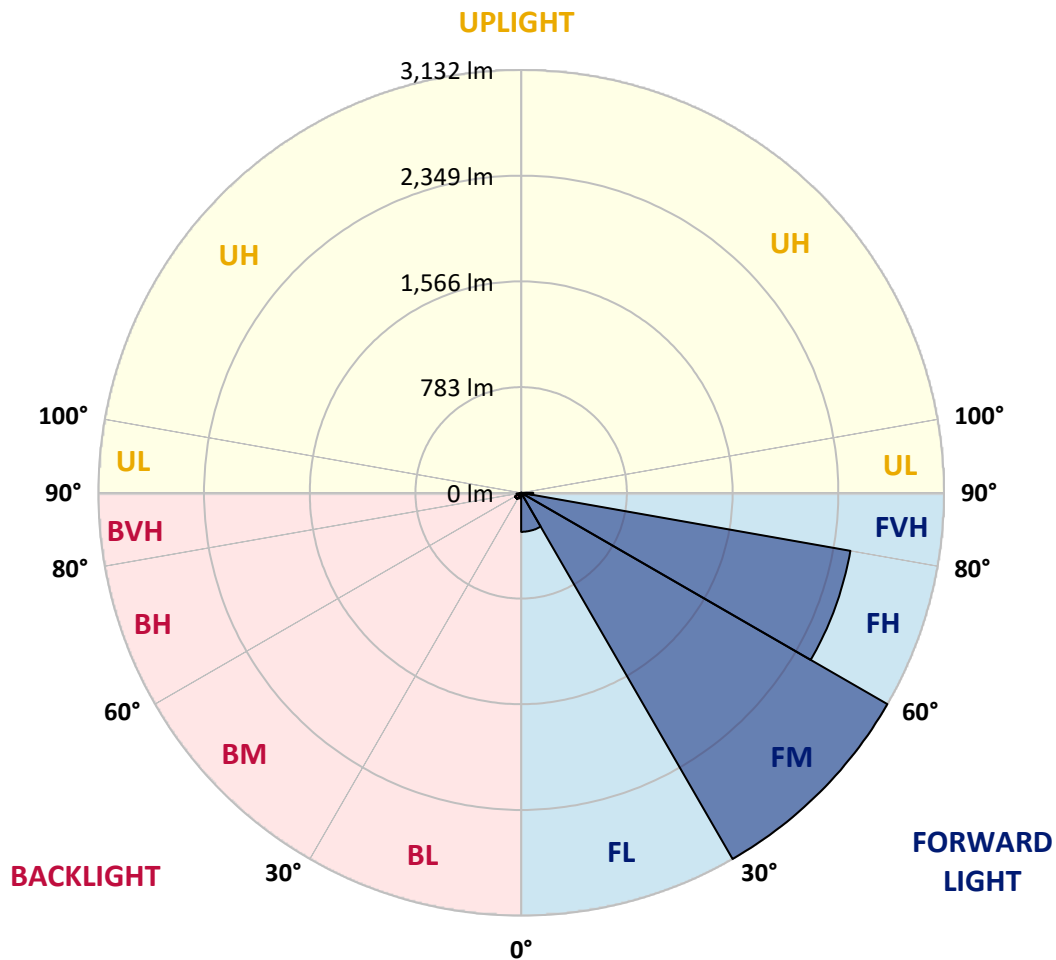
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.0	4.7			
FM	(30°-60°)	3132.2	51.2			
FH	(60°-80°)	2476.2	40.5			G2/5000
FVH	(80°-90°)	88.9	1.5			G1/100
BL	(0°-30°)	41.7	0.7	B0/110		
BM	(30°-60°)	52.3	0.9	B0/220		
BH	(60°-80°)	35.6	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°	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6
2.5°	306.9	310.2	308.0	302.4	295.7	286.9	279.1	279.1	278.0	274.6	275.7
5°	402.5	403.6	399.2	385.8	373.6	354.7	333.5	331.3	329.1	325.8	324.7
7.5°	495.9	500.3	495.9	481.4	457.0	428.1	394.7	391.4	384.7	384.7	380.3
10°	591.5	591.5	587.1	570.4	548.1	507.0	464.7	459.2	451.4	449.2	442.5
12.5°	659.3	659.3	657.1	648.3	630.4	593.8	542.6	537.0	527.1	523.7	515.9
15°	686.0	686.0	687.1	694.9	696.1	679.4	626.0	621.5	611.5	602.6	599.3
17.5°	702.7	701.6	701.6	712.7	732.7	743.9	709.4	704.9	693.8	689.4	678.2
20°	739.4	737.2	730.5	730.5	749.4	788.3	788.3	787.2	775.0	771.6	766.1
22.5°	793.9	791.7	771.6	754.9	763.8	812.8	858.4	856.1	851.7	847.2	843.9
25°	882.8	875.0	840.5	791.7	783.9	836.2	911.7	917.3	920.6	920.6	922.9
27.5°	1017.4	1007.4	946.2	855.1	820.6	873.9	970.7	981.8	991.8	994.0	1004.0
30°	1204.1	1186.4	1098.5	965.1	886.2	929.5	1057.4	1069.6	1084.1	1088.5	1104.1
32.5°	1511.0	1501.0	1416.6	1216.4	1047.4	1038.5	1178.6	1194.1	1213.1	1220.8	1239.7
35°	1978.0	1980.3	1911.3	1731.2	1497.7	1375.4	1395.4	1408.7	1415.4	1438.8	1448.8
37.5°	2294.9	2300.4	2316.0	2244.9	2078.1	1953.5	1796.8	1811.3	1776.8	1780.1	1781.2
40°	2468.4	2486.1	2577.3	2646.3	2632.9	2560.7	2435.0	2442.8	2378.3	2363.8	2293.8
42.5°	2584.0	2607.3	2753.0	2966.5	3075.4	3141.1	3112.2	3108.8	3058.8	3039.9	2980.9
45°	2656.3	2677.4	2860.9	3175.5	3426.8	3618.0	3697.0	3705.9	3663.6	3644.7	3595.8
47.5°	2652.9	2677.4	2874.2	3253.3	3623.6	3929.4	4151.8	4162.8	4188.4	4171.7	4175.1
50°	2506.2	2529.5	2727.4	3121.0	3565.8	4071.7	4478.6	4514.2	4555.3	4583.1	4596.5
52.5°	2328.3	2344.9	2520.6	2894.2	3318.9	4012.7	4672.1	4733.2	4794.4	4846.7	4883.3
55°	2262.6	2281.5	2419.4	2729.7	3121.0	3765.9	4762.1	4852.2	4939.0	5024.6	5094.6
57.5°	2297.1	2314.9	2413.9	2651.8	3003.2	3505.7	4787.7	4927.8	5070.2	5209.1	5347.0
60°	2423.9	2442.8	2527.3	2724.1	2972.1	3355.6	4687.7	4920.1	5156.9	5399.2	5627.2
62.5°	2373.8	2381.6	2506.2	2850.9	3194.4	3227.8	4324.1	4648.8	5010.1	5383.7	5751.7
63°	2326.0	2335.0	2461.7	2816.4	3262.3	3208.9	4211.8	4554.2	4935.6	5338.1	5738.4
65°	2109.2	2110.3	2207.1	2487.3	3186.6	3242.2	3711.5	4038.3	4476.4	4959.0	5464.9
67.5°	1574.4	1566.6	1660.0	1873.5	2501.7	3243.4	3185.5	3369.0	3673.7	4101.7	4555.3
70°	558.2	546.0	697.1	992.9	1558.8	2652.9	2737.4	2749.7	2834.2	3065.4	3350.1
72.5°	181.2	184.6	222.3	363.6	718.3	1785.7	2478.4	2440.6	2418.3	2417.2	2455.0
75°	72.2	73.4	88.9	161.2	322.5	860.6	2170.4	2191.5	2199.3	2210.4	2222.7
77.5°	34.4	37.8	50.0	90.1	160.1	425.8	1553.3	1732.3	1834.6	1913.6	1961.4
80°	12.2	14.4	27.8	55.6	74.5	195.7	818.3	987.3	1137.4	1330.9	1497.7
82.5°	0.0	0.0	5.5	38.9	41.1	78.9	335.8	393.6	450.3	583.7	749.4
85°	0.0	0.0	0.0	11.1	12.2	13.4	113.4	136.8	153.5	179.0	206.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.7	16.7	25.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6
2.5°	273.5	272.4	272.4	270.2	269.1	266.8	265.8	262.4	261.3	261.3	261.3
5°	323.6	319.1	316.9	311.3	308.0	306.9	301.3	299.1	295.7	296.9	291.3
7.5°	379.1	371.4	368.0	360.2	358.1	350.2	348.0	342.5	339.1	332.5	330.2
10°	440.3	430.3	424.8	412.5	409.2	403.6	396.9	390.3	384.7	378.0	374.7
12.5°	510.4	501.5	497.0	480.3	472.6	464.7	455.9	447.0	438.1	432.5	424.8
15°	592.6	578.2	573.7	558.2	544.8	534.8	522.6	511.5	504.8	493.7	485.9
17.5°	673.8	659.3	656.0	632.7	618.2	611.5	598.2	583.7	571.5	560.4	548.1
20°	754.9	744.9	736.0	713.8	698.3	687.1	669.3	654.9	644.9	629.3	613.8
22.5°	836.2	826.1	819.5	796.1	781.7	766.1	750.5	734.9	720.5	701.6	683.8
25°	919.5	912.9	909.5	888.4	875.0	860.6	845.0	827.2	809.4	788.3	769.4
27.5°	1006.2	1008.5	1001.8	997.3	982.9	972.9	948.4	936.2	922.9	897.3	873.9
30°	1116.3	1123.0	1120.8	1124.1	1115.2	1108.5	1089.6	1074.1	1058.5	1034.1	1007.4
32.5°	1255.3	1264.2	1268.6	1280.9	1276.5	1274.2	1268.6	1246.4	1235.3	1193.1	1181.9
35°	1469.9	1465.4	1484.3	1494.3	1489.9	1487.7	1481.0	1468.8	1455.4	1425.4	1397.6
37.5°	1749.0	1753.4	1760.1	1740.1	1726.7	1725.7	1705.6	1693.4	1674.5	1641.1	1607.8
40°	2260.4	2232.7	2201.5	2117.0	2080.3	2059.2	2000.3	1983.6	1951.3	1905.7	1871.3
42.5°	2925.3	2897.5	2804.1	2663.0	2587.3	2482.8	2435.0	2376.1	2330.5	2256.0	2216.0
45°	3585.8	3505.7	3494.6	3330.1	3236.7	3098.8	3013.2	2914.2	2810.8	2713.0	2641.8
47.5°	4142.8	4125.0	4070.6	3970.5	3883.8	3768.1	3658.1	3505.7	3399.0	3260.0	3132.2
50°	4588.7	4587.6	4567.5	4509.7	4437.5	4344.1	4247.4	4118.4	3997.2	3827.1	3690.3
52.5°	4922.3	4940.0	4946.7	4928.9	4901.2	4818.9	4770.0	4662.1	4559.8	4415.2	4267.4
55°	5166.8	5232.5	5265.8	5303.6	5295.9	5267.0	5264.7	5194.7	5148.0	5033.4	4928.9
57.5°	5469.3	5577.2	5680.5	5864.0	5870.7	5935.2	5968.6	6001.9	6010.8	5965.2	5930.8
60°	5854.0	6074.2	6269.8	6653.5	6753.5	6911.4	7013.7	7124.9	7219.4	7227.2	7225.0
62.5°	6125.3	6464.4	6780.2	7349.5	7544.1	7726.4	7863.2	7971.1	8036.6	8103.3	8134.5
63°	6133.1	6504.5	6840.2	7427.3	7631.9	7805.4	7935.5	8035.5	8104.5	8144.4	8164.5
65°	5945.2	6395.5	6795.7	7380.6	7573.0	7747.6	7815.4	7881.0	7914.3	7929.9	7870.9
67.5°	5039.0	5479.3	5946.3	6600.1	6764.6	6973.7	7029.3	7062.7	7078.2	7074.9	7024.8
70°	3768.1	4137.3	4656.5	5403.7	5621.7	5826.2	5953.0	6007.5	6025.2	6019.7	5945.2
72.5°	2630.7	2847.5	3275.6	4107.3	4404.1	4666.5	4823.3	4904.5	4921.1	4887.8	4818.9
75°	2209.3	2220.4	2317.1	2771.9	3049.8	3330.1	3506.8	3558.0	3524.6	3423.4	3247.8
77.5°	1972.4	1997.0	1997.0	2064.7	2119.2	2197.1	2213.8	2089.2	1944.7	1757.9	1606.7
80°	1654.5	1740.1	1800.1	1850.2	1855.7	1840.2	1799.0	1729.0	1617.8	1475.4	1317.6
82.5°	1005.2	1174.2	1243.1	1501.0	1627.8	1713.4	1706.8	1613.3	1528.8	1381.0	1246.4
85°	253.5	273.5	296.9	385.8	432.5	528.1	588.2	616.0	626.0	574.9	520.4
87.5°	24.4	16.7	27.8	21.1	30.0	22.2	30.0	27.8	34.4	36.7	40.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6
2.5°	259.1	257.9	256.8	255.8	254.6	253.5	251.3	251.3	249.1	247.9	246.9
5°	288.0	285.7	284.7	282.4	279.1	276.8	273.5	269.1	265.8	264.6	262.4
7.5°	324.7	319.1	316.9	313.6	309.1	302.4	298.0	294.7	289.1	285.7	279.1
10°	365.8	360.2	353.6	346.9	340.2	332.5	326.9	322.5	313.6	309.1	301.3
12.5°	418.1	408.1	400.3	391.4	382.5	373.6	366.9	353.6	345.8	335.8	329.1
15°	471.4	462.5	453.7	442.5	429.2	414.7	408.1	395.8	385.8	370.3	361.4
17.5°	535.9	519.2	505.9	492.6	480.3	467.0	453.7	434.8	420.3	406.9	389.2
20°	599.3	579.3	564.8	547.0	529.3	508.2	492.6	479.2	459.2	441.4	422.5
22.5°	667.1	647.1	623.7	606.0	581.5	564.8	543.7	521.5	501.5	478.1	454.7
25°	749.4	728.3	701.6	678.2	650.4	627.1	601.5	575.9	551.5	524.8	494.8
27.5°	850.6	828.3	799.4	771.6	734.9	706.0	681.6	647.1	616.0	582.6	548.1
30°	978.4	954.0	918.4	878.4	841.7	809.4	775.0	729.4	694.9	654.9	610.4
32.5°	1145.3	1116.3	1068.5	1030.7	985.1	942.8	895.0	849.5	800.6	748.3	697.1
35°	1355.4	1328.7	1273.1	1217.5	1167.5	1117.4	1057.4	1005.2	936.2	872.8	807.2
37.5°	1573.3	1525.5	1474.4	1414.3	1352.0	1292.0	1218.6	1146.3	1067.4	998.5	916.2
40°	1822.3	1764.5	1722.3	1657.8	1570.0	1484.3	1416.6	1326.5	1227.5	1135.2	1038.5
42.5°	2163.7	2099.2	2023.6	1925.8	1862.4	1762.3	1674.5	1567.7	1437.6	1334.2	1217.5
45°	2558.4	2470.6	2397.2	2302.7	2226.0	2101.5	1999.2	1856.8	1726.7	1591.1	1448.8
47.5°	3008.7	2899.8	2793.0	2699.6	2577.3	2455.0	2325.0	2173.7	2006.9	1857.9	1688.9
50°	3525.7	3371.2	3223.3	3103.3	2935.3	2794.2	2652.9	2482.8	2298.2	2127.0	1934.6
52.5°	4100.6	3921.6	3725.9	3541.3	3346.7	3165.5	2995.4	2799.7	2594.0	2385.0	2170.4
55°	4794.4	4659.8	4429.7	4195.1	3934.9	3692.6	3473.5	3231.1	2980.9	2706.3	2480.6
57.5°	5880.7	5815.1	5622.7	5388.2	5049.0	4754.4	4383.0	4086.1	3723.7	3345.6	3054.3
60°	7352.8	7271.6	7163.8	6973.7	6704.6	6304.3	5895.2	5433.7	4882.3	4358.6	3861.6
62.5°	8137.8	8108.9	8021.1	7889.8	7638.6	7322.8	6910.3	6403.3	5780.7	5144.6	4510.9
63°	8161.1	8124.5	8048.8	7915.4	7694.2	7388.4	6983.7	6491.1	5881.8	5233.6	4586.4
65°	7845.4	7831.0	7754.2	7608.5	7457.4	7223.8	6910.3	6486.6	5975.2	5362.6	4718.8
67.5°	6958.1	6914.7	6796.9	6752.4	6646.8	6484.4	6245.4	5954.1	5588.3	5106.8	4550.9
70°	5885.1	5820.6	5672.8	5593.8	5464.9	5362.6	5216.9	5009.0	4783.3	4447.5	4032.8
72.5°	4747.7	4614.3	4478.6	4273.0	4092.8	3910.4	3749.2	3602.5	3354.5	3218.8	2904.2
75°	3083.2	2840.8	2608.5	2297.1	2016.9	1769.0	1527.7	1405.4	1150.8	1047.4	899.5
77.5°	1463.2	1327.6	1145.3	1004.0	823.9	672.7	549.3	412.5	323.6	253.5	193.4
80°	1180.8	1066.3	956.2	828.3	692.7	552.6	423.6	316.9	224.6	155.6	110.1
82.5°	1053.0	928.4	792.7	704.9	612.7	501.5	411.4	335.8	247.9	181.2	123.4
85°	409.2	344.7	265.8	216.8	169.0	139.0	125.7	86.7	67.9	53.3	41.1
87.5°	35.6	28.9	23.4	15.6	16.7	8.9	10.0	6.7	5.5	5.5	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°	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6	234.6
2.5°	245.7	244.6	243.5	241.2	241.2	239.1	237.9	236.9	231.3	219.0	209.0
5°	257.9	255.8	253.5	250.2	247.9	244.6	242.4	239.1	226.8	203.5	183.4
7.5°	275.7	271.3	268.0	261.3	257.9	253.5	250.2	244.6	224.6	189.0	161.2
10°	296.9	289.1	283.5	275.7	269.1	263.5	257.9	250.2	222.3	173.5	141.2
12.5°	322.5	313.6	302.4	293.5	284.7	276.8	269.1	259.1	219.0	160.1	125.7
15°	348.0	334.7	326.9	314.6	302.4	291.3	280.2	271.3	220.2	145.6	112.3
17.5°	376.9	363.6	346.9	333.5	320.2	305.8	292.4	274.6	214.6	134.6	102.3
20°	404.7	385.8	370.3	353.6	334.7	316.9	300.2	284.7	210.1	123.4	93.4
22.5°	434.8	412.5	392.5	371.4	348.0	328.0	308.0	288.0	202.4	113.4	85.6
25°	471.4	445.8	416.9	391.4	366.9	342.5	316.9	292.4	194.6	104.5	80.1
27.5°	515.9	482.6	453.7	421.4	387.0	355.8	328.0	301.3	186.8	97.8	74.5
30°	572.6	533.7	492.6	451.4	414.7	379.1	340.2	306.9	179.0	91.2	68.9
32.5°	648.3	599.3	549.3	501.5	452.5	406.9	365.8	322.5	174.5	85.6	63.4
35°	748.3	684.9	623.7	563.7	504.8	449.2	395.8	346.9	174.5	78.9	56.7
37.5°	842.8	769.4	691.6	617.1	547.0	482.6	419.2	360.2	165.7	73.4	51.2
40°	945.1	857.2	766.1	678.2	593.8	513.7	441.4	373.6	157.9	66.7	45.6
42.5°	1101.8	990.7	871.7	769.4	668.2	569.3	479.2	399.2	147.9	60.0	40.0
45°	1307.6	1166.3	1026.3	901.7	772.8	651.6	544.8	445.8	145.6	54.5	34.4
47.5°	1527.7	1360.9	1196.4	1037.4	886.2	744.9	617.1	498.1	145.6	49.0	30.0
50°	1746.7	1537.8	1362.1	1177.5	1007.4	840.5	688.2	552.6	146.8	44.5	24.4
52.5°	1944.7	1721.2	1524.4	1310.9	1123.0	929.5	763.8	606.0	144.6	38.9	20.0
55°	2219.3	1956.9	1729.0	1493.3	1273.1	1055.2	867.3	686.0	145.6	34.4	16.7
57.5°	2725.2	2417.2	2142.6	1833.5	1580.0	1298.7	1070.7	850.6	159.0	28.9	12.2
60°	3451.2	3051.0	2665.2	2288.2	1965.8	1631.1	1335.3	1076.3	186.8	23.4	8.9
62.5°	3939.3	3415.7	2955.4	2539.5	2164.8	1814.6	1492.1	1197.5	205.7	18.9	5.5
63°	3989.4	3447.9	2985.4	2556.2	2173.7	1823.5	1498.8	1206.4	206.8	17.8	5.5
65°	4083.9	3503.5	3002.0	2559.5	2164.8	1811.3	1494.3	1205.3	209.0	14.4	4.5
67.5°	3976.1	3417.9	2905.4	2463.9	2087.0	1739.0	1438.8	1160.8	207.9	10.0	3.3
70°	3555.8	3093.3	2642.9	2231.5	1889.1	1574.4	1309.8	1058.5	191.2	6.7	2.2
72.5°	2610.7	2296.0	1946.9	1650.0	1423.2	1181.9	1008.5	795.0	147.9	4.5	1.1
75°	773.8	704.9	592.6	522.6	461.4	381.3	339.1	264.6	75.6	2.2	0.0
77.5°	154.6	140.1	125.7	114.5	107.8	92.3	87.8	72.2	31.1	1.1	0.0
80°	81.2	66.7	56.7	50.0	43.3	35.6	30.0	24.4	5.5	0.0	0.0
82.5°	77.8	52.3	37.8	31.1	26.7	21.1	16.7	12.2	3.3	0.0	0.0
85°	28.9	22.2	16.7	13.4	11.1	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°	234.6	234.6	234.6	234.6	234.6	234.6	234.6
2.5°	199.0	190.1	185.7	180.1	180.1	179.0	181.2
5°	165.7	153.5	144.6	137.9	139.0	135.6	136.8
7.5°	140.1	127.9	120.0	115.7	114.5	113.4	113.4
10°	121.2	110.1	103.4	100.1	99.0	99.0	99.0
12.5°	107.8	96.8	91.2	88.9	88.9	87.8	87.8
15°	96.8	87.8	82.3	80.1	80.1	78.9	80.1
17.5°	87.8	78.9	74.5	72.2	72.2	71.2	71.2
20°	80.1	72.2	67.9	64.5	64.5	63.4	64.5
22.5°	73.4	65.6	60.0	57.8	56.7	55.6	56.7
25°	66.7	58.9	53.3	50.0	49.0	49.0	47.8
27.5°	61.2	53.3	46.7	43.3	42.3	42.3	41.1
30°	55.6	46.7	40.0	36.7	35.6	35.6	35.6
32.5°	50.0	40.0	34.4	31.1	30.0	30.0	30.0
35°	44.5	34.4	28.9	25.6	24.4	24.4	24.4
37.5°	37.8	28.9	22.2	20.0	18.9	17.8	17.8
40°	32.3	22.2	16.7	14.4	12.2	12.2	12.2
42.5°	26.7	17.8	12.2	8.9	7.8	6.7	7.8
45°	22.2	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	5.5	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°	5.5	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)