

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: P165037

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165037
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7246.6 lumens
Efficiency: N/A
Efficacy: 74.6 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

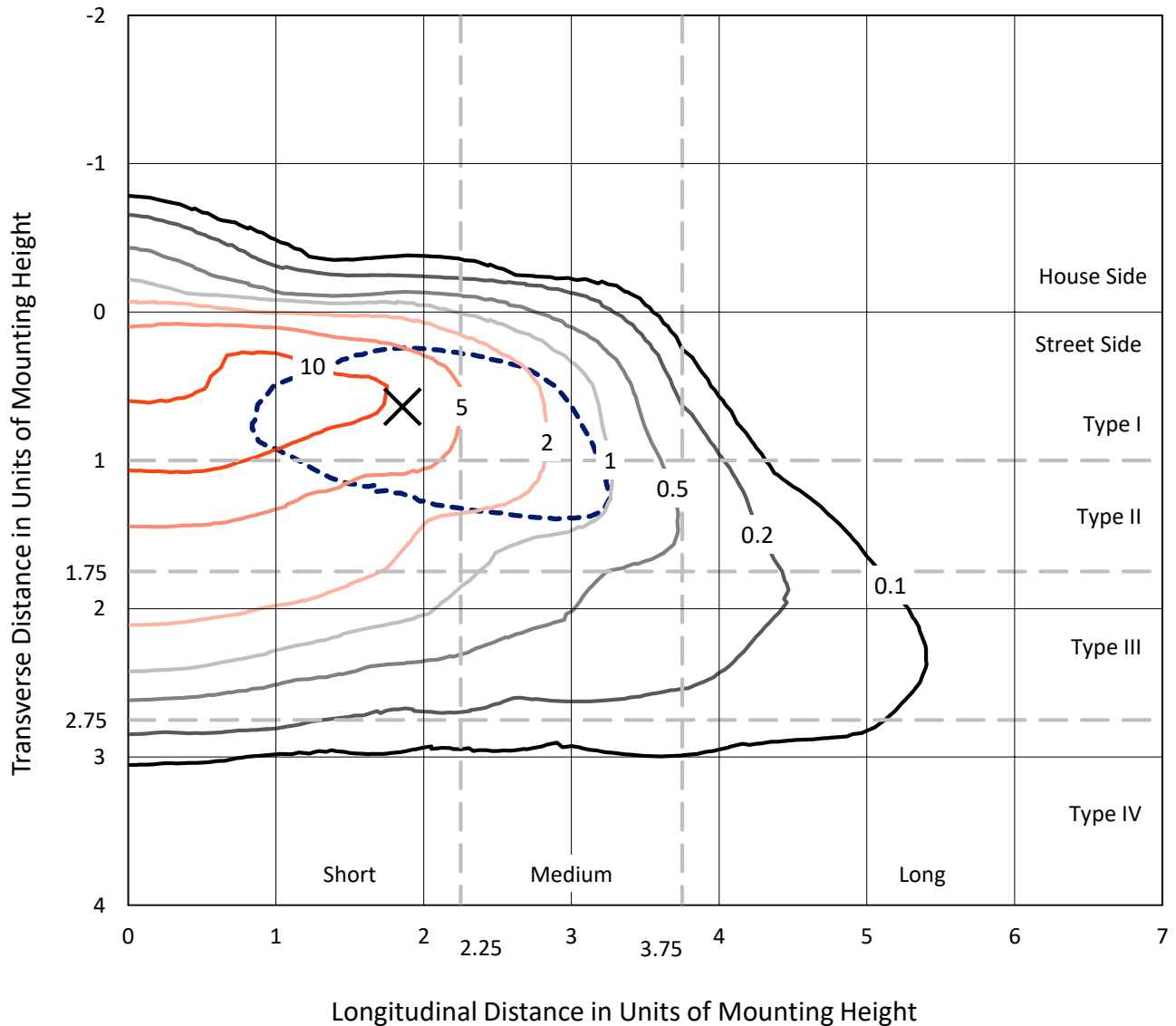
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

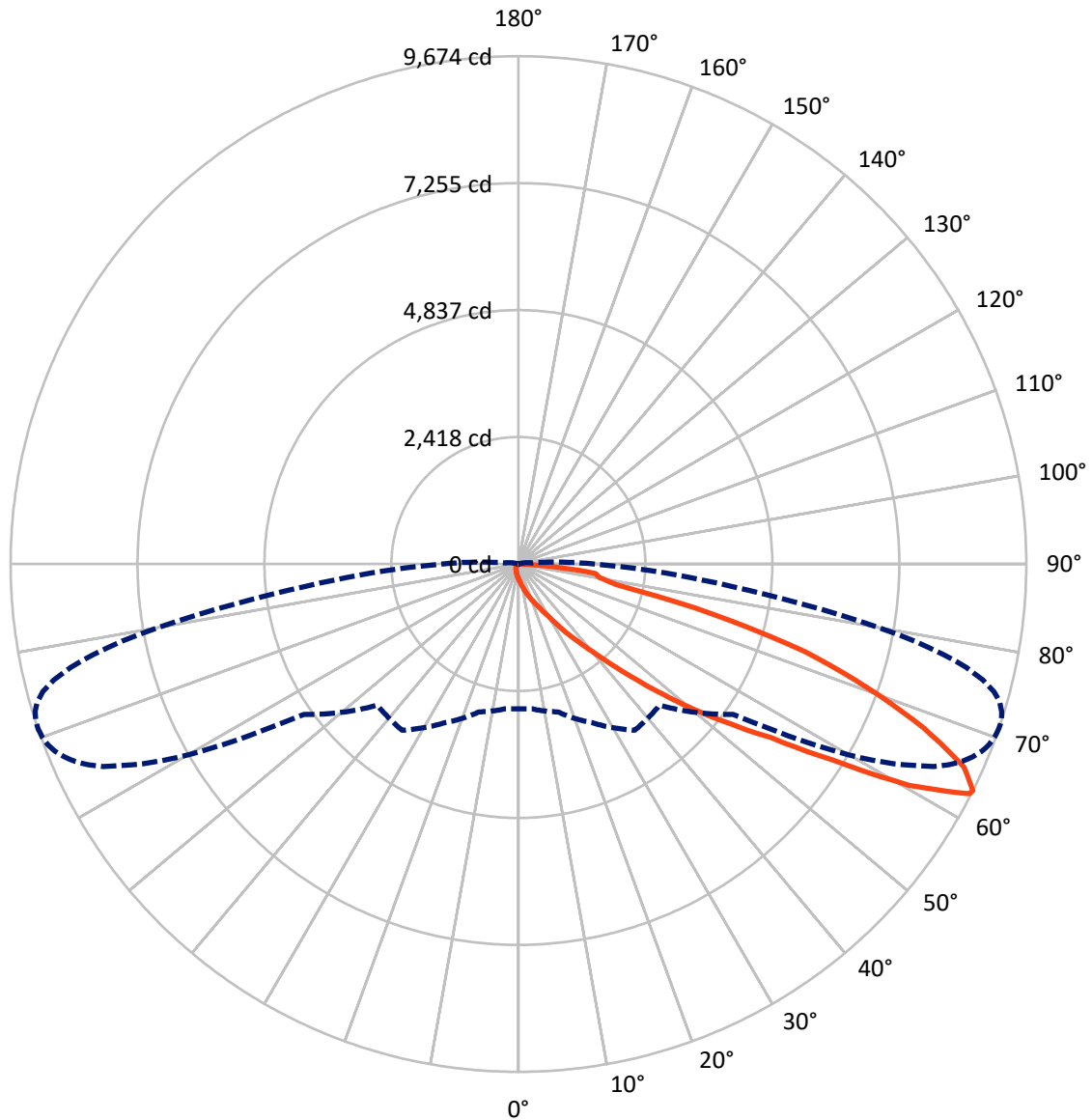


Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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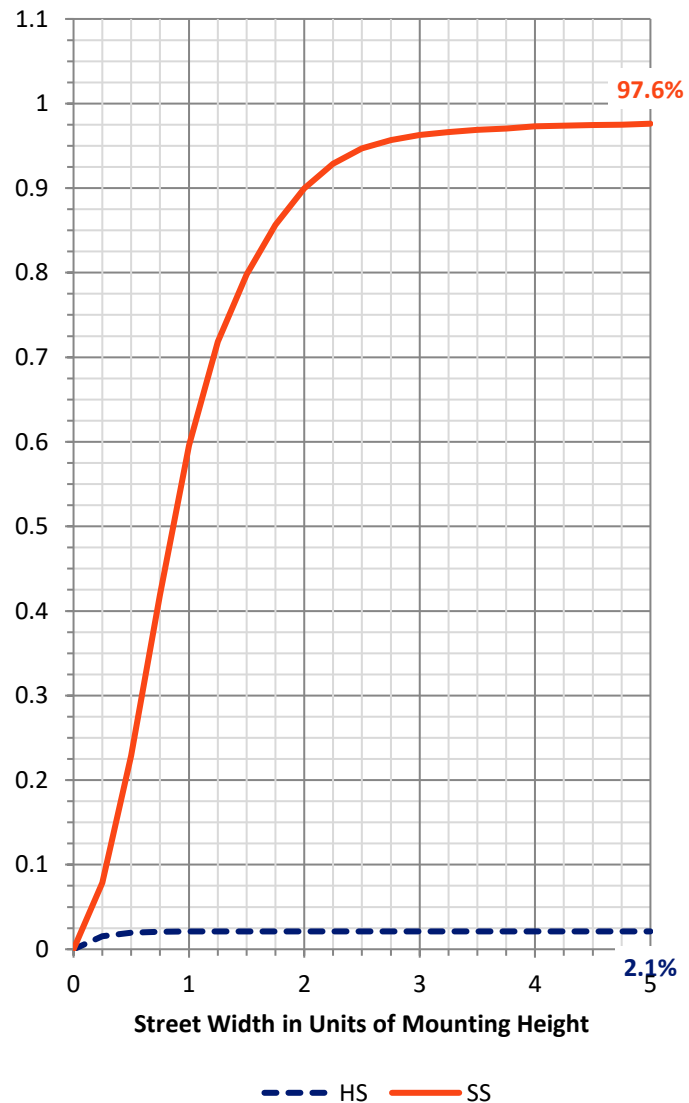
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	153.9	0.0	153.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7092.8	0.0	7092.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	7246.6	0.0	7246.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	0.4
10°-20°	119.2	1.6
20°-30°	242.0	3.3
30°-40°	591.3	8.2
40°-50°	1322.4	18.2
50°-60°	1859.4	25.7
60°-70°	2186.5	30.2
70°-80°	789.5	10.9
80°-90°	105.6	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°	7246.6	100.0
0°-180°	7246.6	100.0

Coefficient of Utilization



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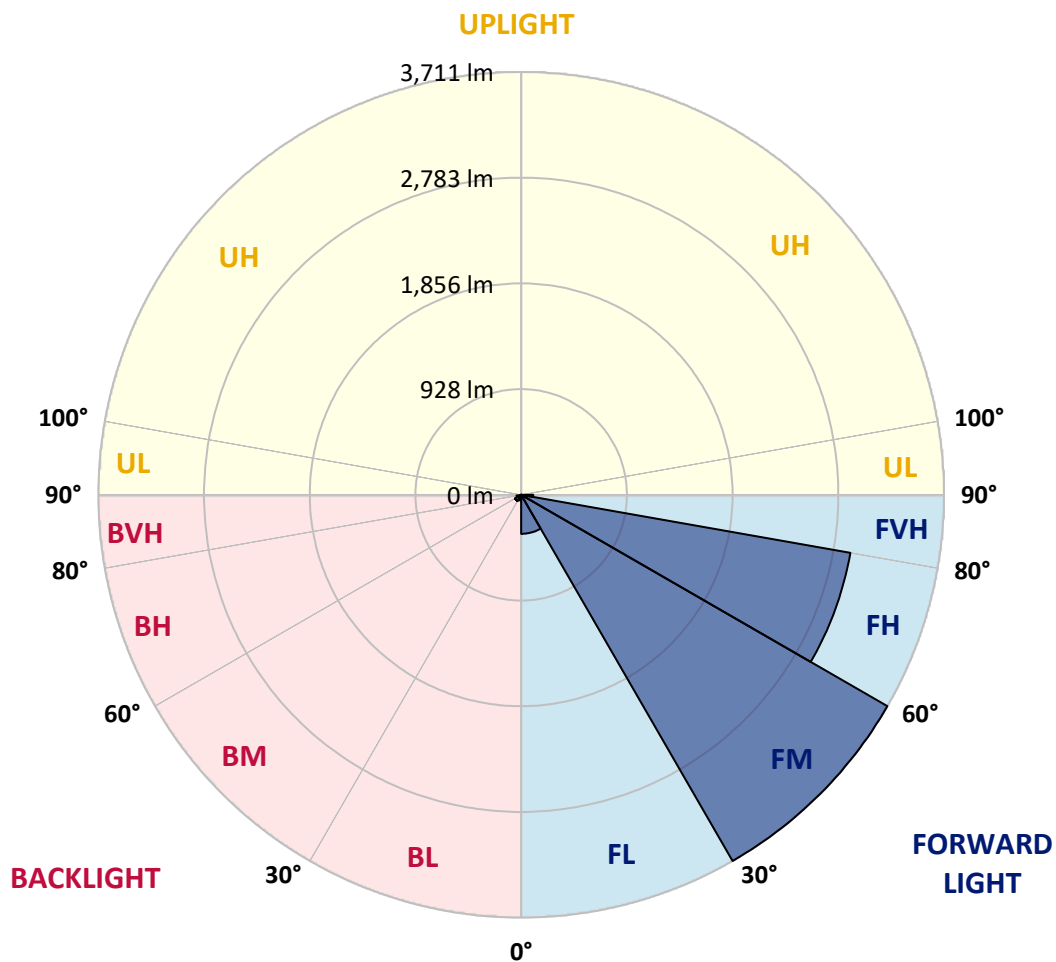
CATALOG NUMBER: VST-E04-LED-E-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.4	4.7			
FM (30°-60°)	3711.1	51.2			
FH (60°-80°)	2933.9	40.5			G2/5000
FVH (80°-90°)	105.4	1.5			G2/225
BL (0°-30°)	49.5	0.7	B0/110		
BM (30°-60°)	62.0	0.9	B0/220		
BH (60°-80°)	42.2	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°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	363.6	367.5	364.9	358.3	350.4	339.9	330.6	330.6	329.4	325.4	326.7
5°	476.9	478.2	473.0	457.1	442.6	420.2	395.2	392.6	389.9	386.0	384.7
7.5°	587.6	592.8	587.6	570.4	541.4	507.2	467.7	463.8	455.8	455.8	450.6
10°	700.9	700.9	695.6	675.8	649.4	600.7	550.6	544.1	534.9	532.2	524.3
12.5°	781.2	781.2	778.6	768.1	747.0	703.5	642.9	636.3	624.5	620.5	611.3
15°	812.8	812.8	814.2	823.4	824.7	805.0	741.7	736.4	724.6	714.0	710.1
17.5°	832.6	831.3	831.3	844.5	868.2	881.4	840.5	835.2	822.1	816.8	803.6
20°	876.1	873.4	865.5	865.5	887.9	934.0	934.0	932.7	918.2	914.2	907.7
22.5°	940.6	938.0	914.2	894.5	905.0	963.0	1017.0	1014.4	1009.1	1003.8	999.9
25°	1046.0	1036.8	995.9	938.0	928.8	990.7	1080.2	1086.9	1090.8	1090.8	1093.4
27.5°	1205.4	1193.6	1121.1	1013.1	972.2	1035.4	1150.1	1163.3	1175.1	1177.8	1189.6
30°	1426.7	1405.7	1301.6	1143.5	1050.0	1101.4	1252.9	1267.4	1284.5	1289.8	1308.2
32.5°	1790.3	1778.5	1678.4	1441.2	1241.0	1230.5	1396.5	1414.9	1437.3	1446.5	1468.9
35°	2343.7	2346.3	2264.6	2051.2	1774.6	1629.6	1653.4	1669.1	1677.0	1704.7	1716.6
37.5°	2719.1	2725.7	2744.2	2659.8	2462.2	2314.6	2128.9	2146.1	2105.2	2109.1	2110.5
40°	2924.6	2945.7	3053.8	3135.4	3119.6	3034.0	2885.1	2894.3	2817.9	2800.8	2717.8
42.5°	3061.6	3089.3	3261.9	3514.8	3643.9	3721.7	3687.4	3683.4	3624.2	3601.8	3531.9
45°	3147.3	3172.3	3389.7	3762.5	4060.2	4286.8	4380.3	4390.9	4340.8	4318.4	4260.5
47.5°	3143.3	3172.3	3405.4	3854.7	4293.4	4655.7	4919.2	4932.3	4962.6	4942.9	4946.8
50°	2969.4	2997.1	3231.6	3697.9	4224.9	4824.3	5306.5	5348.6	5397.4	5430.3	5446.2
52.5°	2758.6	2778.4	2986.6	3429.2	3932.4	4754.5	5535.7	5608.2	5680.6	5742.6	5786.0
55°	2680.9	2703.3	2866.6	3234.2	3697.9	4462.0	5642.4	5749.1	5851.9	5953.4	6036.3
57.5°	2721.8	2742.8	2860.1	3142.0	3558.3	4153.8	5672.7	5838.7	6007.4	6172.0	6335.4
60°	2871.9	2894.3	2994.5	3227.6	3521.4	3975.9	5554.2	5829.5	6110.1	6397.3	6667.4
62.5°	2812.6	2821.8	2969.4	3377.8	3784.9	3824.4	5123.4	5508.1	5936.2	6378.9	6814.9
63°	2756.0	2766.6	2916.7	3337.0	3865.3	3802.0	4990.3	5396.1	5847.9	6324.8	6799.1
65°	2499.1	2500.4	2615.0	2947.0	3775.7	3841.5	4397.5	4784.8	5303.8	5875.6	6475.0
67.5°	1865.4	1856.2	1966.9	2219.8	2964.2	3842.9	3774.3	3991.8	4352.7	4859.9	5397.4
70°	661.4	646.9	826.0	1176.4	1847.0	3143.3	3243.4	3257.9	3358.1	3632.1	3969.4
72.5°	214.7	218.7	263.4	430.8	851.0	2115.8	2936.5	2891.7	2865.4	2864.0	2908.8
75°	85.6	87.0	105.4	191.0	382.1	1019.7	2571.6	2596.6	2605.8	2619.0	2633.5
77.5°	40.8	44.8	59.3	106.7	189.7	504.6	1840.4	2052.5	2173.7	2267.3	2323.9
80°	14.5	17.1	33.0	65.8	88.2	231.8	969.6	1169.8	1347.7	1577.0	1774.6
82.5°	0.0	0.0	6.6	46.1	48.7	93.5	397.8	466.3	533.5	691.6	887.9
85°	0.0	0.0	0.0	13.2	14.5	15.8	134.4	162.1	181.8	212.1	245.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	7.9	19.8	30.3
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°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	324.1	322.8	322.8	320.2	318.8	316.2	314.9	310.9	309.6	309.6	309.6
5°	383.4	378.1	375.4	368.9	364.9	363.6	357.0	354.4	350.4	351.8	345.1
7.5°	449.2	440.0	436.1	426.8	424.2	415.0	412.3	405.8	401.8	393.9	391.3
10°	521.7	509.8	503.3	488.7	484.8	478.2	470.3	462.4	455.8	447.9	444.0
12.5°	604.7	594.2	588.9	569.1	559.9	550.6	540.2	529.6	519.0	512.5	503.3
15°	702.2	685.0	679.8	661.4	645.5	633.7	619.2	606.0	598.1	585.0	575.7
17.5°	798.3	781.2	777.3	749.6	732.5	724.6	708.8	691.6	677.1	664.0	649.4
20°	894.5	882.6	872.1	845.8	827.4	814.2	793.0	775.9	764.1	745.7	727.2
22.5°	990.7	978.8	971.0	943.3	926.2	907.7	889.3	870.8	853.7	831.3	810.2
25°	1089.5	1081.6	1077.6	1052.6	1036.8	1019.7	1001.2	980.2	959.0	934.0	911.7
27.5°	1192.2	1194.9	1187.0	1181.7	1164.6	1152.7	1123.8	1109.3	1093.4	1063.1	1035.4
30°	1322.6	1330.6	1327.9	1331.9	1321.4	1313.4	1291.0	1272.6	1254.2	1225.2	1193.6
32.5°	1487.4	1497.9	1503.1	1517.7	1512.4	1509.8	1503.1	1476.8	1463.6	1413.6	1400.4
35°	1741.6	1736.3	1758.7	1770.6	1765.3	1762.7	1754.8	1740.3	1724.5	1688.9	1656.0
37.5°	2072.2	2077.5	2085.4	2061.8	2045.9	2044.6	2020.9	2006.4	1984.0	1944.5	1905.0
40°	2678.2	2645.4	2608.5	2508.3	2464.9	2439.8	2370.0	2350.2	2312.0	2258.0	2217.2
42.5°	3466.1	3433.1	3322.5	3155.2	3065.6	2941.8	2885.1	2815.3	2761.3	2673.0	2625.6
45°	4248.6	4153.8	4140.6	3945.6	3835.0	3671.6	3570.2	3452.9	3330.4	3214.5	3130.2
47.5°	4908.6	4887.5	4823.0	4704.4	4601.7	4464.6	4334.2	4153.8	4027.3	3862.6	3711.1
50°	5436.9	5435.6	5411.8	5343.4	5257.8	5147.1	5032.5	4879.7	4736.1	4534.5	4372.5
52.5°	5832.2	5853.2	5861.1	5840.0	5807.1	5709.6	5651.7	5523.8	5402.6	5231.4	5056.2
55°	6121.9	6199.7	6239.2	6284.0	6274.8	6240.6	6237.9	6154.9	6099.6	5963.8	5840.0
57.5°	6480.3	6608.1	6730.6	6948.0	6955.8	7032.3	7071.8	7111.4	7121.8	7067.8	7027.0
60°	6936.1	7197.0	7428.8	7883.4	8001.9	8189.0	8310.2	8441.9	8553.8	8563.1	8560.5
62.5°	7257.5	7659.4	8033.5	8708.0	8938.6	9154.6	9316.6	9444.5	9522.2	9601.2	9638.1
63°	7266.8	7706.8	8104.6	8800.2	9042.6	9248.2	9402.3	9520.9	9602.6	9649.9	9673.7
65°	7044.2	7577.7	8051.9	8744.9	8972.8	9179.7	9260.0	9337.8	9377.3	9395.7	9325.8
67.5°	5970.5	6492.2	7045.4	7820.1	8015.0	8262.7	8328.6	8368.2	8386.6	8382.6	8323.4
70°	4464.6	4902.1	5517.3	6402.6	6660.8	6903.2	7053.4	7117.9	7139.0	7132.4	7044.2
72.5°	3117.0	3373.8	3881.0	4866.5	5218.2	5529.1	5714.9	5811.0	5830.8	5791.3	5709.6
75°	2617.7	2630.9	2745.4	3284.2	3613.6	3945.6	4155.0	4215.7	4176.2	4056.2	3848.2
77.5°	2337.0	2366.1	2366.1	2446.4	2511.0	2603.2	2623.0	2475.4	2304.2	2082.8	1903.7
80°	1960.3	2061.8	2132.9	2192.2	2198.7	2180.3	2131.5	2048.6	1916.8	1748.2	1561.1
82.5°	1191.0	1391.2	1472.9	1778.5	1928.6	2030.1	2022.2	1911.5	1811.4	1636.2	1476.8
85°	300.4	324.1	351.8	457.1	512.5	625.8	696.9	729.8	741.7	681.1	616.6
87.5°	29.0	19.8	33.0	25.0	35.6	26.3	35.6	33.0	40.8	43.4	47.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	307.0	305.6	304.3	303.0	301.7	300.4	297.8	297.8	295.1	293.8	292.5
5°	341.2	338.6	337.3	334.6	330.6	328.0	324.1	318.8	314.9	313.5	310.9
7.5°	384.7	378.1	375.4	371.5	366.2	358.3	353.0	349.1	342.6	338.6	330.6
10°	433.4	426.8	419.0	411.0	403.1	393.9	387.3	382.1	371.5	366.2	357.0
12.5°	495.4	483.5	474.2	463.8	453.2	442.6	434.7	419.0	409.7	397.8	389.9
15°	558.6	548.0	537.5	524.3	508.5	491.4	483.5	469.0	457.1	438.7	428.2
17.5°	635.0	615.2	599.4	583.6	569.1	553.3	537.5	515.1	498.0	482.2	461.1
20°	710.1	686.4	669.2	648.2	627.1	602.1	583.6	567.8	544.1	523.0	500.6
22.5°	790.4	766.7	739.0	718.0	689.0	669.2	644.2	617.8	594.2	566.5	538.8
25°	887.9	862.9	831.3	803.6	770.6	743.0	712.7	682.4	653.4	621.8	586.2
27.5°	1007.8	981.4	947.2	914.2	870.8	836.6	807.6	766.7	729.8	690.3	649.4
30°	1159.3	1130.3	1088.2	1040.7	997.3	959.0	918.2	864.2	823.4	775.9	723.3
32.5°	1357.0	1322.6	1266.0	1221.2	1167.2	1117.1	1060.5	1006.5	948.6	886.6	826.0
35°	1605.9	1574.3	1508.4	1442.6	1383.3	1324.0	1252.9	1191.0	1109.3	1034.2	956.4
37.5°	1864.2	1807.4	1746.9	1675.8	1601.9	1530.8	1443.8	1358.2	1264.7	1183.0	1085.5
40°	2159.2	2090.7	2040.6	1964.2	1860.2	1758.7	1678.4	1571.7	1454.4	1345.0	1230.5
42.5°	2563.7	2487.3	2397.7	2281.8	2206.6	2088.1	1984.0	1857.5	1703.4	1580.9	1442.6
45°	3031.4	2927.3	2840.3	2728.3	2637.4	2489.9	2368.7	2200.1	2045.9	1885.2	1716.6
47.5°	3564.9	3435.8	3309.3	3198.6	3053.8	2908.8	2754.7	2575.5	2377.9	2201.4	2001.1
50°	4177.4	3994.3	3819.1	3676.9	3477.9	3310.6	3143.3	2941.8	2723.0	2520.2	2292.2
52.5°	4858.6	4646.5	4414.6	4195.9	3965.4	3750.6	3549.0	3317.2	3073.5	2825.8	2571.6
55°	5680.6	5521.2	5248.6	4970.6	4662.2	4375.1	4115.5	3828.4	3531.9	3206.6	2939.1
57.5°	6967.8	6890.0	6662.1	6384.2	5982.3	5633.2	5193.2	4841.4	4412.0	3964.1	3618.9
60°	8712.0	8615.8	8488.0	8262.7	7943.9	7469.7	6984.9	6438.2	5784.7	5164.2	4575.4
62.5°	9642.1	9607.8	9503.8	9348.2	9050.6	8676.4	8187.7	7586.9	6849.2	6095.6	5344.7
63°	9669.7	9626.2	9536.6	9378.6	9116.4	8754.2	8274.6	7691.0	6969.0	6201.0	5434.2
65°	9295.6	9278.5	9187.5	9015.0	8835.8	8559.1	8187.7	7685.7	7079.7	6353.8	5591.0
67.5°	8244.3	8192.9	8053.3	8000.6	7875.4	7683.0	7399.8	7054.6	6621.3	6050.8	5392.1
70°	6973.0	6896.6	6721.4	6627.8	6475.0	6353.8	6181.3	5934.9	5667.4	5269.6	4778.2
72.5°	5625.3	5467.2	5306.5	5062.8	4849.4	4633.3	4442.2	4268.4	3974.6	3813.8	3441.0
75°	3653.1	3365.9	3090.6	2721.8	2389.8	2096.0	1810.1	1665.2	1363.5	1241.0	1065.8
77.5°	1733.7	1573.0	1357.0	1189.6	976.2	797.0	650.8	488.7	383.4	300.4	229.2
80°	1399.0	1263.4	1133.0	981.4	820.7	654.7	501.9	375.4	266.1	184.4	130.4
82.5°	1247.6	1100.0	939.3	835.2	725.9	594.2	487.4	397.8	293.8	214.7	146.2
85°	484.8	408.4	314.9	256.9	200.2	164.6	148.9	102.7	80.4	63.2	48.7
87.5°	42.2	34.2	27.7	18.5	19.8	10.6	11.8	7.9	6.6	6.6	5.3
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°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	291.1	289.8	288.5	285.8	285.8	283.3	281.9	280.6	274.0	259.5	247.7
5°	305.6	303.0	300.4	296.4	293.8	289.8	287.2	283.3	268.7	241.1	217.4
7.5°	326.7	321.4	317.5	309.6	305.6	300.4	296.4	289.8	266.1	223.9	191.0
10°	351.8	342.6	335.9	326.7	318.8	312.2	305.6	296.4	263.4	205.5	167.3
12.5°	382.1	371.5	358.3	347.8	337.3	328.0	318.8	307.0	259.5	189.7	148.9
15°	412.3	396.6	387.3	372.8	358.3	345.1	332.0	321.4	260.9	172.6	133.0
17.5°	446.6	430.8	411.0	395.2	379.4	362.3	346.5	325.4	254.2	159.4	121.2
20°	479.5	457.1	438.7	419.0	396.6	375.4	355.7	337.3	249.0	146.2	110.6
22.5°	515.1	488.7	465.0	440.0	412.3	388.6	364.9	341.2	239.8	134.4	101.4
25°	558.6	528.2	494.0	463.8	434.7	405.8	375.4	346.5	230.6	123.8	94.9
27.5°	611.3	571.8	537.5	499.3	458.5	421.6	388.6	357.0	221.4	115.9	88.2
30°	678.5	632.3	583.6	534.9	491.4	449.2	403.1	363.6	212.1	108.0	81.7
32.5°	768.1	710.1	650.8	594.2	536.2	482.2	433.4	382.1	206.8	101.4	75.1
35°	886.6	811.5	739.0	667.9	598.1	532.2	469.0	411.0	206.8	93.5	67.2
37.5°	998.6	911.7	819.4	731.1	648.2	571.8	496.6	426.8	196.3	87.0	60.6
40°	1119.8	1015.7	907.7	803.6	703.5	608.6	523.0	442.6	187.0	79.0	54.0
42.5°	1305.5	1173.8	1032.9	911.7	791.8	674.5	567.8	473.0	175.2	71.1	47.4
45°	1549.3	1381.9	1216.0	1068.4	915.6	772.0	645.5	528.2	172.6	64.6	40.8
47.5°	1810.1	1612.5	1417.5	1229.1	1050.0	882.6	731.1	590.2	172.6	58.0	35.6
50°	2069.6	1822.0	1613.8	1395.1	1193.6	995.9	815.4	654.7	173.9	52.7	29.0
52.5°	2304.2	2039.4	1806.2	1553.2	1330.6	1101.4	905.0	718.0	171.3	46.1	23.7
55°	2629.5	2318.6	2048.6	1769.3	1508.4	1250.2	1027.6	812.8	172.6	40.8	19.8
57.5°	3229.0	2864.0	2538.6	2172.4	1872.0	1538.7	1268.6	1007.8	188.4	34.2	14.5
60°	4089.2	3615.0	3157.8	2711.2	2329.2	1932.6	1582.2	1275.3	221.4	27.7	10.6
62.5°	4667.5	4047.0	3501.7	3009.0	2565.0	2150.0	1767.9	1418.8	243.7	22.4	6.6
63°	4726.8	4085.3	3537.2	3028.7	2575.5	2160.6	1775.8	1429.4	245.0	21.0	6.6
65°	4838.8	4151.1	3557.0	3032.6	2565.0	2146.1	1770.6	1428.1	247.7	17.1	5.3
67.5°	4711.0	4049.7	3442.4	2919.4	2472.7	2060.4	1704.7	1375.4	246.3	11.8	3.9
70°	4213.0	3665.0	3131.4	2644.0	2238.2	1865.4	1551.9	1254.2	226.6	7.9	2.6
72.5°	3093.3	2720.4	2306.8	1955.0	1686.2	1400.4	1194.9	941.9	175.2	5.3	1.3
75°	916.9	835.2	702.2	619.2	546.7	451.8	401.8	313.5	89.6	2.6	0.0
77.5°	183.1	166.0	148.9	135.7	127.8	109.4	104.1	85.6	36.9	1.3	0.0
80°	96.2	79.0	67.2	59.3	51.4	42.2	35.6	29.0	6.6	0.0	0.0
82.5°	92.2	61.9	44.8	36.9	31.6	25.0	19.8	14.5	3.9	0.0	0.0
85°	34.2	26.3	19.8	15.8	13.2	11.8	9.2	7.9	0.0	0.0	0.0
87.5°	5.3	3.9	3.9	2.6	2.6	1.3	1.3	1.3	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°	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	235.8	225.3	220.0	213.4	213.4	212.1	214.7
5°	196.3	181.8	171.3	163.4	164.6	160.7	162.1
7.5°	166.0	151.5	142.2	137.0	135.7	134.4	134.4
10°	143.6	130.4	122.5	118.6	117.3	117.3	117.3
12.5°	127.8	114.6	108.0	105.4	105.4	104.1	104.1
15°	114.6	104.1	97.5	94.9	94.9	93.5	94.9
17.5°	104.1	93.5	88.2	85.6	85.6	84.3	84.3
20°	94.9	85.6	80.4	76.4	76.4	75.1	76.4
22.5°	87.0	77.8	71.1	68.5	67.2	65.8	67.2
25°	79.0	69.8	63.2	59.3	58.0	58.0	56.6
27.5°	72.5	63.2	55.4	51.4	50.1	50.1	48.7
30°	65.8	55.4	47.4	43.4	42.2	42.2	42.2
32.5°	59.3	47.4	40.8	36.9	35.6	35.6	35.6
35°	52.7	40.8	34.2	30.3	29.0	29.0	29.0
37.5°	44.8	34.2	26.3	23.7	22.4	21.0	21.0
40°	38.2	26.3	19.8	17.1	14.5	14.5	14.5
42.5°	31.6	21.0	14.5	10.6	9.2	7.9	9.2
45°	26.3	15.8	9.2	5.3	3.9	3.9	3.9
47.5°	21.0	10.6	3.9	1.3	1.3	1.3	1.3
50°	15.8	6.6	1.3	0.0	0.0	1.3	1.3
52.5°	11.8	3.9	0.0	0.0	0.0	0.0	0.0
55°	6.6	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	3.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)