

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: P159526

Luminaire Tested: **VST-F02-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159526
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F02-LED-E-U-T3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5181.3 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

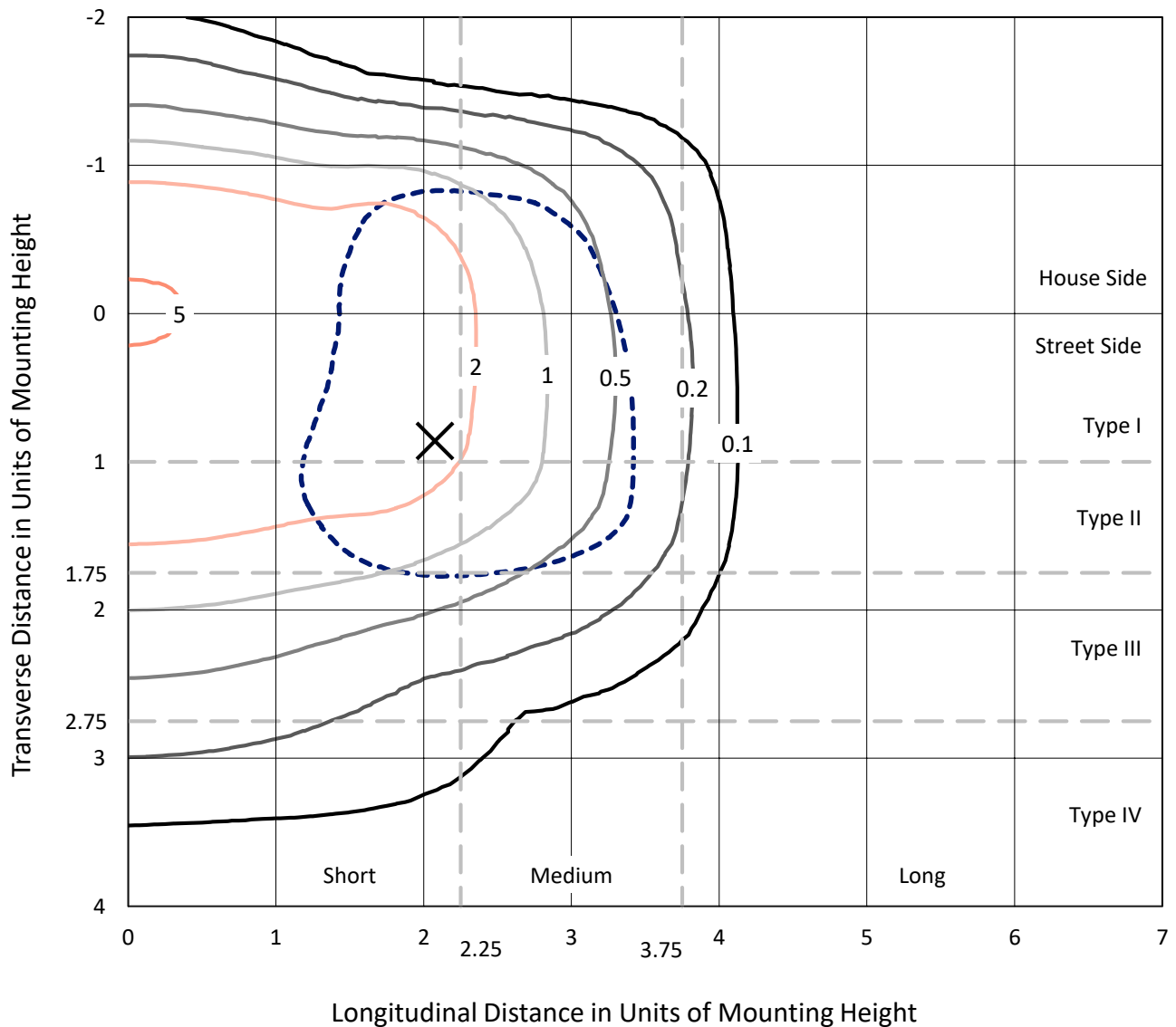
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

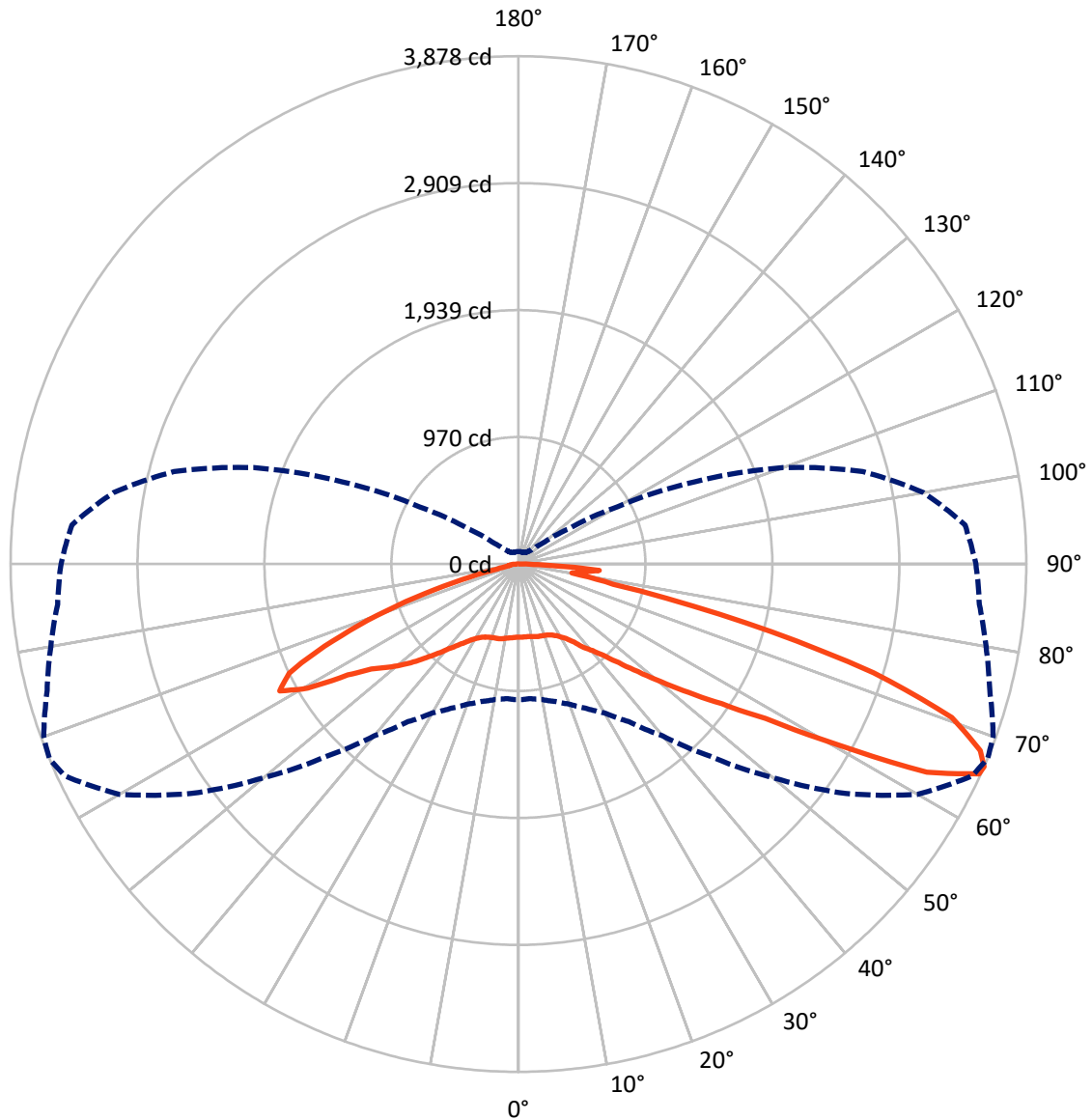


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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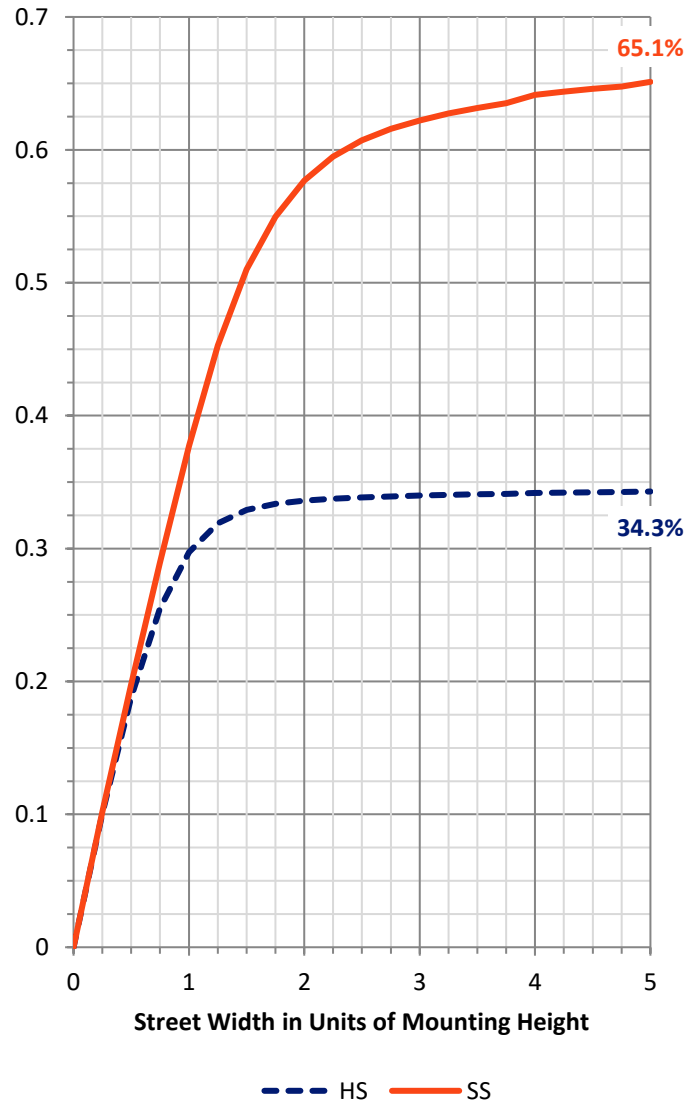
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1793.0	0.0	1793.0
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	3388.4	0.0	3388.4
	% Fixture	65.4	0.0	65.4
Total	Lumens	5181.3	0.0	5181.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.0
10°-20°	158.9	3.1
20°-30°	273.1	5.3
30°-40°	441.3	8.5
40°-50°	731.4	14.1
50°-60°	1147.9	22.2
60°-70°	1569.4	30.3
70°-80°	690.2	13.3
80°-90°	115.5	2.2
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°	5181.3	100.0
0°-180°	5181.3	100.0



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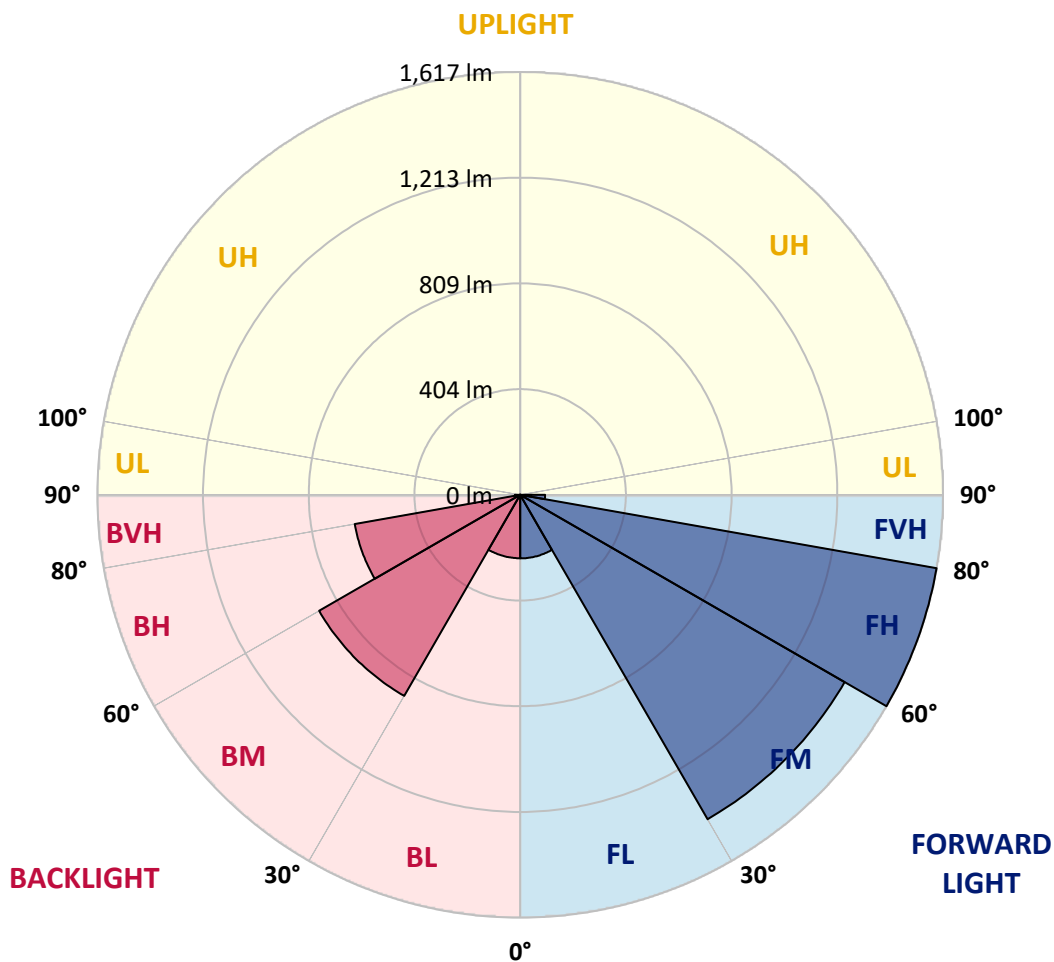
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.0	4.7			
FM	(30°-60°)	1432.8	27.7			
FH	(60°-80°)	1617.2	31.2			G1/1800
FVH	(80°-90°)	95.3	1.8			G1/100
BL	(0°-30°)	242.5	4.7	B1/500		
BM	(30°-60°)	887.9	17.1	B1/1000		
BH	(60°-80°)	642.3	12.4	B2/1000		G2/1000
BVH	(80°-90°)	20.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
2.5°	558.1	558.1	558.4	558.1	558.1	557.7	559.1	559.1	559.1	558.7	559.7
5°	556.7	556.7	557.0	557.0	557.4	557.0	558.1	558.4	558.4	558.4	559.4
7.5°	553.3	554.3	553.6	554.0	554.3	555.4	556.7	557.4	558.1	559.1	559.4
10°	546.2	547.9	547.6	548.6	548.9	551.9	553.0	554.3	556.7	558.1	559.1
12.5°	536.3	537.4	537.7	539.1	540.4	544.1	546.9	549.2	552.7	556.0	559.4
15°	528.6	529.3	529.3	530.6	532.6	536.0	539.4	543.5	548.6	554.3	559.7
17.5°	530.9	532.6	531.3	530.9	531.6	533.6	536.7	540.1	546.2	552.7	559.1
20°	546.5	546.9	546.2	544.5	543.1	543.5	543.5	544.1	547.9	553.0	558.1
22.5°	559.4	560.8	560.4	560.8	560.4	561.8	561.1	559.7	558.4	558.7	561.1
25°	570.6	571.9	571.9	572.9	574.7	577.4	579.4	579.1	577.0	574.3	573.3
27.5°	588.9	588.9	588.9	589.9	592.3	595.7	599.0	601.1	602.8	600.1	594.3
30°	617.7	618.0	617.0	617.3	619.0	623.5	627.5	630.5	634.0	633.6	626.2
32.5°	649.2	650.6	650.2	651.6	653.9	658.0	662.4	667.1	671.6	674.3	669.5
35°	689.9	691.2	691.6	693.6	696.3	702.4	708.5	714.6	719.3	721.4	720.4
37.5°	756.6	757.0	755.6	752.5	753.5	758.3	765.4	775.3	778.3	780.3	785.0
40°	856.6	855.5	850.1	847.4	845.7	847.7	846.4	854.2	861.3	861.7	861.3
42.5°	977.9	974.8	969.7	969.1	968.4	967.7	964.0	964.3	970.7	972.4	970.4
45°	1098.5	1094.8	1091.0	1094.4	1090.4	1100.9	1103.9	1112.0	1113.1	1116.4	1111.4
47.5°	1197.4	1197.8	1197.8	1202.5	1210.6	1230.7	1248.6	1264.2	1270.0	1278.1	1279.1
50°	1272.3	1274.3	1280.8	1296.0	1313.3	1346.9	1377.0	1405.1	1430.5	1440.0	1465.1
52.5°	1316.0	1321.4	1335.0	1360.4	1391.2	1434.6	1482.1	1529.8	1573.9	1611.1	1640.9
55°	1308.2	1312.3	1336.0	1375.7	1423.7	1482.1	1548.5	1617.6	1686.4	1749.4	1798.2
57.5°	1258.1	1260.8	1284.5	1329.2	1389.2	1467.5	1561.3	1664.0	1760.6	1862.2	1945.6
60°	1192.3	1196.4	1218.4	1253.7	1316.3	1399.7	1508.5	1647.7	1801.9	1961.8	2117.7
62.5°	1150.3	1149.3	1168.6	1200.1	1247.2	1322.8	1427.5	1592.5	1805.9	2076.4	2384.3
65°	1080.5	1077.5	1097.5	1133.4	1184.6	1257.7	1357.0	1515.6	1763.3	2119.7	2556.5
66°	1037.2	1031.0	1051.1	1087.3	1138.4	1216.4	1311.6	1468.1	1711.4	2077.4	2538.2
67.5°	961.3	958.2	967.7	996.2	1034.1	1107.3	1206.6	1364.2	1588.8	1949.9	2404.0
70°	781.3	774.5	782.0	794.9	809.5	827.4	888.4	1013.5	1203.5	1553.5	1936.7
72.5°	532.3	528.9	542.8	562.4	601.4	619.7	643.8	664.1	731.2	979.2	1350.9
75°	404.9	406.9	424.6	457.1	507.2	561.4	614.3	633.6	611.2	592.0	766.8
77.5°	227.0	238.9	260.2	301.6	354.8	431.3	523.5	625.1	676.0	663.4	620.4
80°	93.5	91.8	102.3	125.0	143.3	206.0	315.1	442.5	585.5	676.0	661.7
82.5°	26.1	26.8	34.6	44.4	57.2	72.8	113.8	182.9	298.2	463.9	607.2
85°	8.2	8.2	11.2	16.6	19.7	22.7	28.8	47.5	81.0	161.6	327.7
87.5°	1.7	1.7	2.4	4.7	5.1	5.1	6.4	8.8	7.8	7.1	31.9
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
2.5°	558.7	558.1	558.4	558.7	558.4	558.4	558.1	557.7	558.1	558.1	559.1
5°	558.4	558.1	558.4	558.4	558.4	558.7	558.7	558.7	559.7	559.7	561.4
7.5°	559.1	559.1	559.7	559.7	559.7	559.7	560.1	560.8	562.4	562.1	565.1
10°	560.4	561.1	562.8	563.2	563.2	564.2	564.8	566.2	567.9	568.6	571.3
12.5°	562.1	565.5	568.6	569.2	570.2	571.9	572.9	573.7	576.7	577.7	581.1
15°	564.2	568.9	572.6	574.0	575.3	577.4	578.7	579.7	582.4	583.8	587.9
17.5°	564.5	569.9	574.3	576.4	578.0	580.4	582.4	584.5	587.5	589.6	593.6
20°	564.2	571.3	578.0	580.7	582.4	586.9	589.9	592.6	596.3	598.4	602.5
22.5°	567.9	576.0	585.2	588.5	591.2	597.4	601.4	605.8	610.6	611.9	615.0
25°	576.7	585.2	596.7	601.4	606.2	614.3	620.0	626.5	631.3	631.9	632.9
27.5°	591.6	599.4	613.3	620.4	628.2	639.7	648.2	654.6	661.4	661.4	660.7
30°	621.8	623.5	638.0	647.2	658.7	675.6	688.1	695.3	700.4	700.4	694.6
32.5°	660.7	658.7	671.9	681.7	697.7	721.4	738.3	743.8	749.2	747.5	737.6
35°	716.9	711.2	718.7	733.6	751.5	784.1	801.7	813.9	817.3	812.5	796.9
37.5°	787.8	787.1	790.8	807.4	827.4	869.5	887.4	895.2	892.5	884.0	856.6
40°	862.7	860.6	858.2	869.5	891.8	942.3	974.2	978.2	974.5	961.9	927.4
42.5°	962.6	962.6	951.4	954.5	973.1	1029.7	1067.3	1080.2	1080.5	1062.2	1016.2
45°	1100.2	1098.8	1079.2	1074.4	1088.6	1144.2	1192.7	1199.8	1199.8	1175.8	1125.2
47.5°	1265.5	1263.8	1244.5	1227.9	1230.7	1290.6	1330.9	1341.8	1332.3	1314.3	1254.4
50°	1451.9	1448.8	1429.2	1413.6	1406.8	1467.5	1501.7	1506.8	1492.9	1471.6	1406.5
52.5°	1640.9	1650.1	1638.6	1630.1	1632.5	1671.8	1707.0	1682.9	1675.9	1652.8	1587.4
55°	1837.8	1865.9	1891.4	1883.9	1892.7	1931.0	1937.8	1905.9	1893.1	1876.4	1803.6
57.5°	2036.0	2118.0	2201.4	2224.7	2246.5	2301.4	2293.6	2241.4	2251.2	2275.9	2193.9
60°	2312.9	2549.7	2761.1	2800.1	2867.5	2914.3	2924.8	2914.6	2960.3	2947.5	2875.0
62.5°	2738.1	3132.8	3426.9	3500.1	3567.9	3565.5	3529.9	3493.3	3538.4	3538.4	3349.0
65°	3041.7	3489.6	3804.4	3865.0	3862.3	3780.7	3696.7	3623.5	3617.0	3566.9	3290.0
66°	3055.9	3517.1	3825.4	3878.3	3857.9	3726.5	3625.8	3533.0	3493.3	3423.5	3139.9
67.5°	2927.8	3439.4	3757.0	3803.0	3749.5	3561.1	3422.5	3298.2	3240.6	3123.0	2856.0
70°	2401.6	2956.0	3417.8	3512.0	3451.3	3212.8	3023.0	2855.0	2744.9	2575.1	2382.7
72.5°	1753.1	2182.4	2682.5	2835.7	2826.2	2606.6	2453.8	2300.0	2155.3	2000.8	1860.2
75°	1139.5	1419.7	1698.5	1788.0	1745.0	1617.9	1508.5	1418.7	1281.5	1174.0	1148.0
77.5°	650.6	794.9	751.9	740.7	686.8	554.3	368.6	258.5	233.5	291.4	319.5
80°	619.0	561.1	459.5	414.4	380.8	259.6	136.2	95.9	84.0	86.0	92.5
82.5°	698.0	727.4	595.0	497.0	432.7	315.8	172.4	80.3	58.6	69.5	77.9
85°	523.1	736.6	730.2	618.7	507.5	363.9	204.0	61.3	35.2	48.8	63.7
87.5°	106.1	174.5	168.1	147.7	125.7	87.8	34.2	19.3	17.6	24.1	36.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
2.5°	559.7	559.7	560.4	561.4	561.8	561.8	562.4	561.8	563.2	563.5	563.8
5°	562.8	563.8	564.5	566.2	567.2	567.9	568.9	568.2	569.6	569.9	570.6
7.5°	566.2	567.9	569.2	569.9	571.3	571.3	571.6	570.9	570.6	569.6	569.2
10°	572.3	573.3	575.0	574.3	573.7	571.3	569.2	566.2	564.5	561.4	559.7
12.5°	582.1	582.8	582.8	579.7	575.3	569.9	564.8	559.7	555.7	552.3	550.3
15°	588.9	590.2	588.5	584.2	577.7	570.2	563.5	556.7	551.3	546.9	544.1
17.5°	593.9	593.6	590.6	584.5	578.4	571.9	565.9	558.7	551.9	545.5	541.4
20°	601.7	598.4	593.0	586.5	580.1	574.7	569.9	563.2	556.0	547.2	541.1
22.5°	612.2	606.2	598.4	591.6	585.5	580.4	575.0	569.2	561.8	551.9	543.5
25°	627.2	616.7	607.9	601.1	595.7	589.9	583.8	576.4	568.9	558.7	548.6
27.5°	649.9	634.3	623.1	617.0	611.9	604.1	596.3	587.5	578.0	567.5	556.0
30°	677.3	658.7	645.8	640.4	634.3	625.5	617.0	604.8	591.6	579.1	564.8
32.5°	709.5	690.5	677.6	673.6	663.8	653.6	641.8	625.5	608.2	589.6	572.6
35°	758.3	734.2	722.4	712.9	699.4	687.1	667.1	645.8	621.1	596.3	575.3
37.5°	808.4	784.1	771.8	758.6	741.0	718.7	691.9	661.4	628.6	598.0	572.3
40°	875.5	849.1	833.5	813.2	784.7	749.8	710.2	668.5	628.6	590.6	559.4
42.5°	953.8	929.4	905.3	871.8	826.1	775.3	719.7	666.1	617.7	574.0	541.1
45°	1062.2	1020.5	982.3	928.4	861.7	790.1	720.7	655.0	599.0	550.6	514.0
47.5°	1184.2	1130.3	1062.6	978.2	887.0	795.9	710.9	634.0	569.6	517.1	477.1
50°	1324.8	1242.2	1138.1	1017.8	899.9	788.1	687.5	598.7	528.9	468.6	425.9
52.5°	1485.8	1359.7	1206.6	1046.0	897.9	764.4	648.8	552.3	474.4	410.3	368.3
55°	1664.3	1487.8	1271.9	1063.9	879.6	718.3	588.2	486.9	406.6	343.6	306.7
57.5°	1979.1	1712.5	1396.7	1088.0	841.3	648.5	511.3	404.2	331.7	278.2	242.9
60°	2563.9	2105.2	1632.8	1144.6	783.7	561.1	414.4	317.2	256.5	217.5	191.5
62.5°	2925.8	2381.6	1748.0	1136.5	690.2	441.5	307.7	235.1	187.4	161.6	145.4
65°	2840.1	2273.2	1607.4	976.1	537.1	313.1	203.6	153.8	128.8	115.6	107.8
66°	2723.5	2151.9	1488.5	874.2	467.9	261.6	168.1	129.1	110.8	101.0	96.9
67.5°	2479.2	1930.3	1283.8	700.0	350.7	194.8	124.0	101.3	90.1	85.0	82.3
70°	2075.0	1555.3	908.0	413.4	190.1	105.7	79.3	70.5	67.7	66.1	65.0
72.5°	1604.3	1126.0	530.6	203.3	95.9	68.5	60.3	56.6	55.6	55.6	55.9
75°	1010.8	647.2	237.5	97.9	65.0	55.2	51.5	49.8	50.2	50.5	50.2
77.5°	335.8	223.3	98.9	69.5	56.6	50.2	47.1	46.4	47.1	47.5	47.5
80°	96.5	84.4	71.5	61.3	51.8	46.7	44.0	43.7	45.4	45.7	45.1
82.5°	74.2	69.5	64.7	59.3	49.8	44.0	43.0	43.4	44.4	43.7	40.7
85°	68.1	67.4	48.5	48.1	43.4	42.0	41.0	41.3	40.3	36.6	33.2
87.5°	38.3	35.6	27.4	27.8	32.2	33.2	27.4	29.2	27.1	23.7	21.7
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):

	160°	165°	170°	175°	180°
0°	559.1	559.1	559.1	559.1	559.1
2.5°	564.5	564.2	564.2	565.1	563.8
5°	570.9	570.6	570.6	571.6	570.6
7.5°	567.9	566.9	566.2	565.9	565.9
10°	557.7	556.7	554.6	554.0	553.3
12.5°	547.2	546.2	543.8	543.8	543.1
15°	540.8	539.4	537.7	536.7	536.0
17.5°	537.4	535.4	533.3	532.3	531.6
20°	536.0	533.3	530.9	529.3	529.3
22.5°	536.3	533.0	530.3	528.2	527.6
25°	539.8	534.7	531.3	529.3	528.6
27.5°	544.5	538.4	534.0	531.3	530.3
30°	550.9	542.5	536.3	533.0	531.6
32.5°	555.4	543.5	535.7	530.9	529.3
35°	555.0	539.8	530.3	524.2	522.1
37.5°	548.9	530.9	518.4	511.0	507.5
40°	535.4	514.7	501.5	494.3	490.3
42.5°	515.7	493.3	481.5	473.7	469.3
45°	484.9	462.8	448.3	442.2	436.4
47.5°	442.2	419.8	407.3	398.5	394.7
50°	392.0	369.7	356.5	349.3	346.0
52.5°	337.1	315.8	306.3	299.5	294.8
55°	280.2	260.6	256.5	249.1	244.6
57.5°	226.7	215.2	211.4	204.0	200.2
60°	177.2	173.5	169.4	164.7	162.7
62.5°	137.2	133.9	132.8	129.8	129.4
65°	104.7	105.1	104.3	103.7	103.0
66°	95.2	94.9	95.2	94.6	94.2
67.5°	81.0	82.3	83.3	83.0	83.0
70°	65.8	66.7	68.1	67.7	67.7
72.5°	56.2	58.0	58.6	58.3	58.3
75°	50.8	52.5	52.5	51.8	51.5
77.5°	47.5	48.1	47.5	46.7	46.1
80°	44.0	43.4	42.4	41.3	40.7
82.5°	38.3	36.6	35.6	33.9	33.9
85°	30.8	29.5	27.1	25.4	23.7
87.5°	20.0	19.3	17.6	13.2	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)