

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: P165030

Luminaire Tested: **VST-F03-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165030
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3786.7 lumens
Efficiency: N/A
Efficacy: 48.4 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 - G1

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

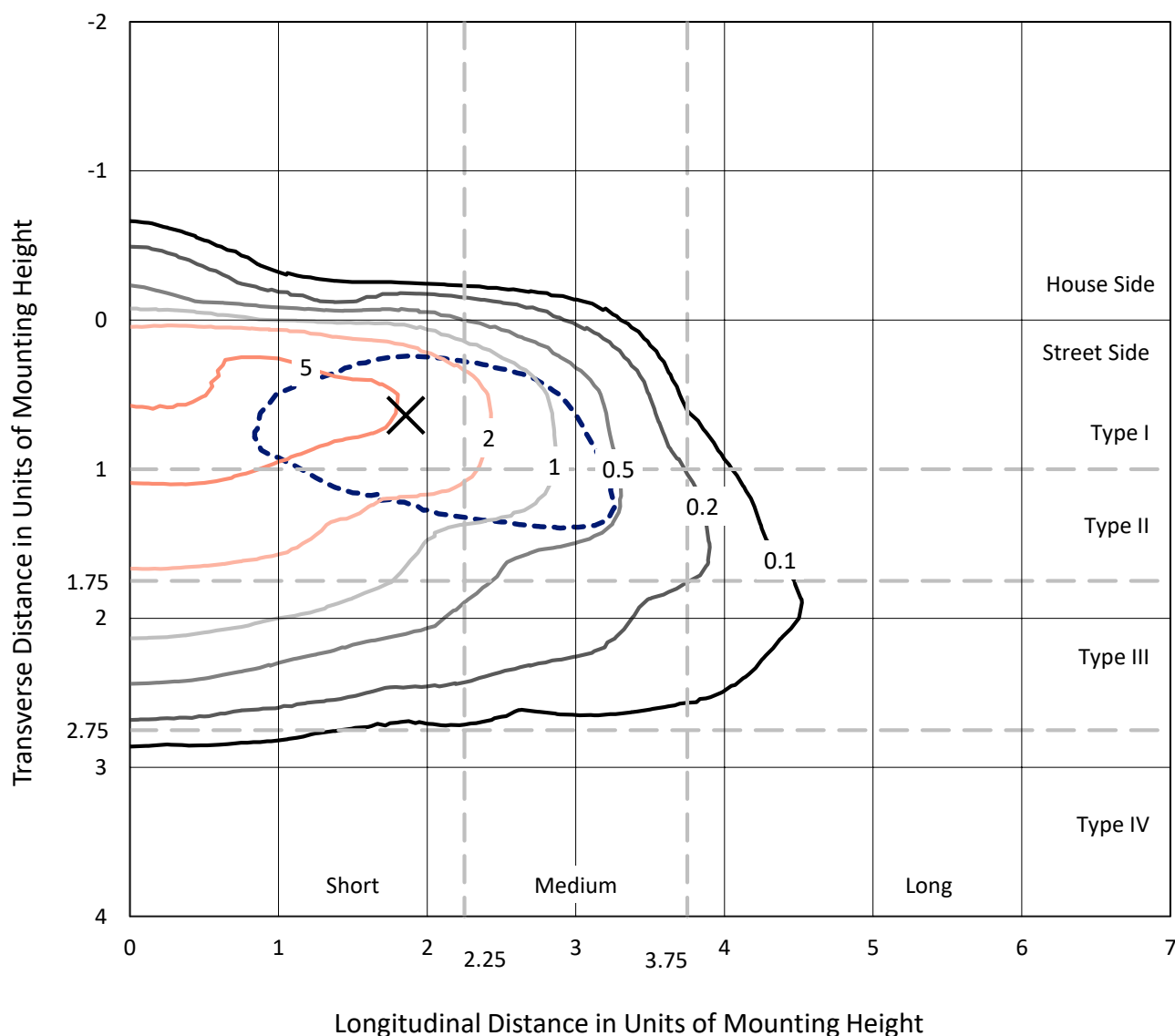


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

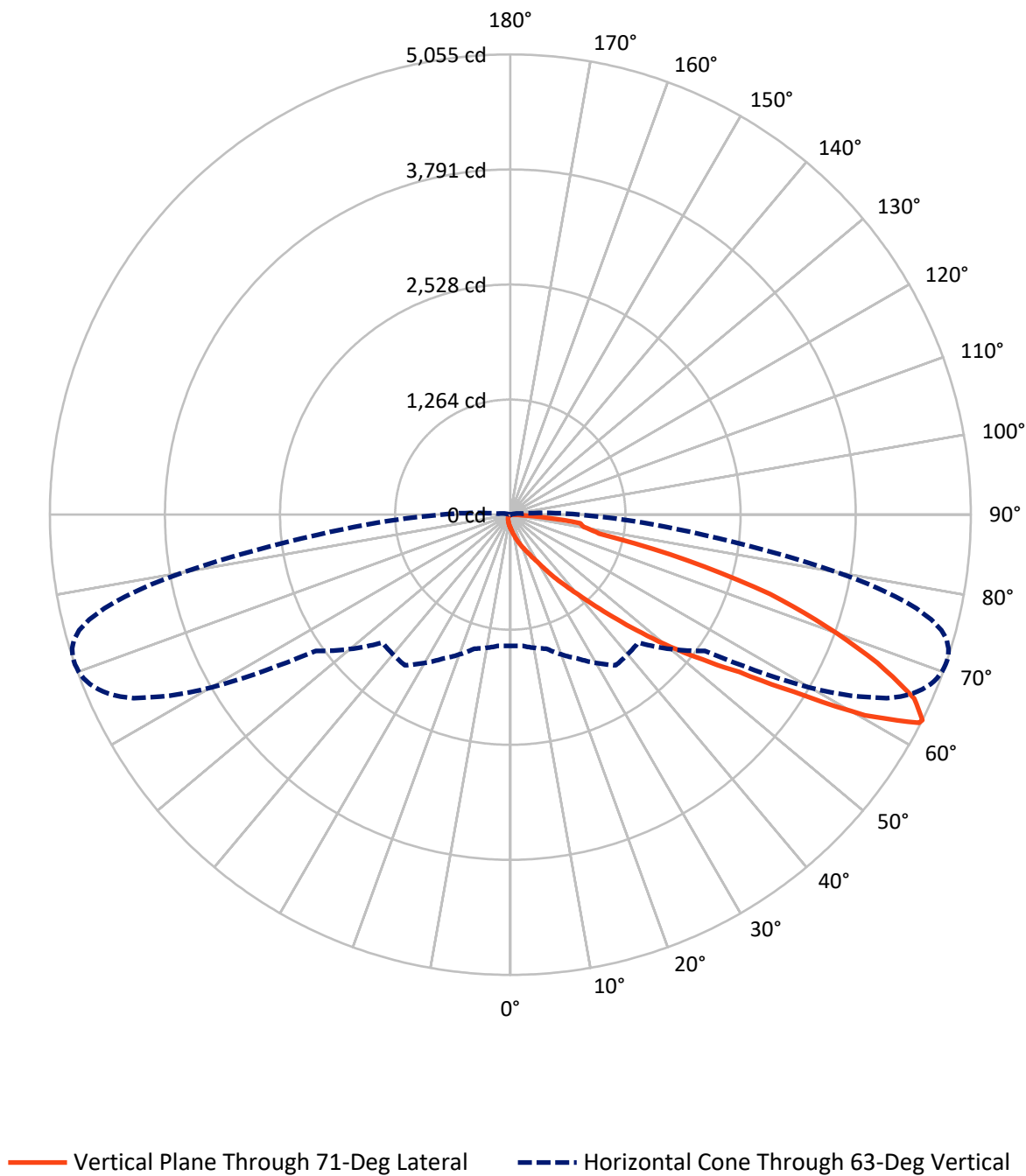


Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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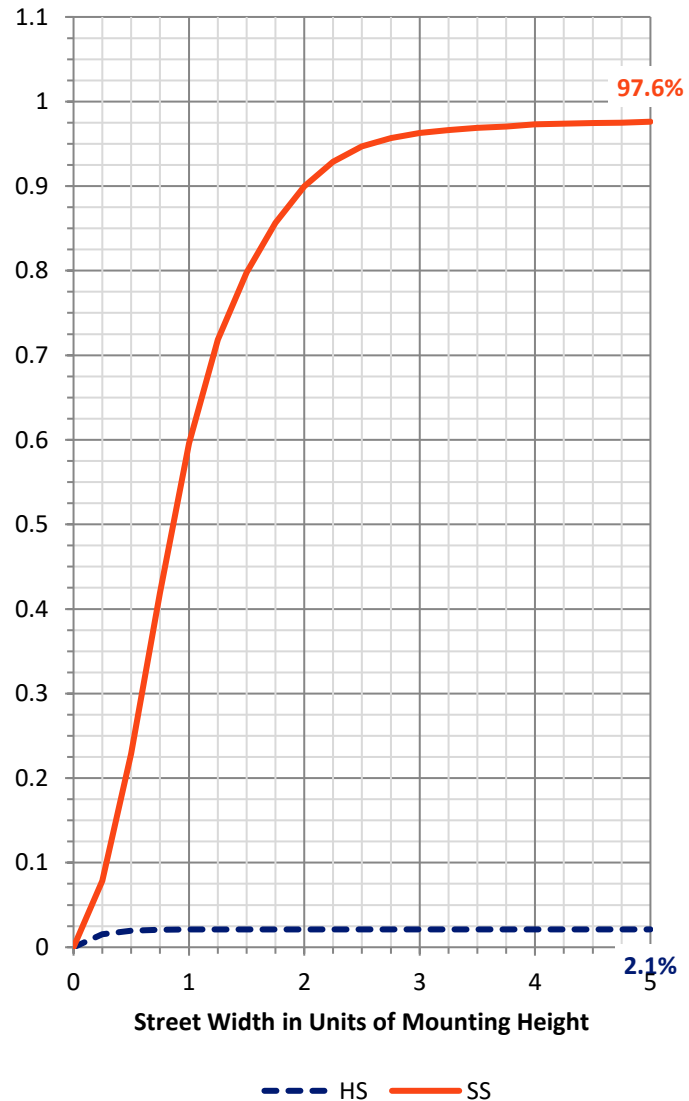
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	80.4	0.0	80.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3706.4	0.0	3706.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	3786.7	0.0	3786.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.4
10°-20°	62.3	1.6
20°-30°	126.5	3.3
30°-40°	309.0	8.2
40°-50°	691.0	18.2
50°-60°	971.6	25.7
60°-70°	1142.6	30.2
70°-80°	412.6	10.9
80°-90°	55.2	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°	3786.7	100.0
0°-180°	3786.7	100.0

Coefficient of Utilization



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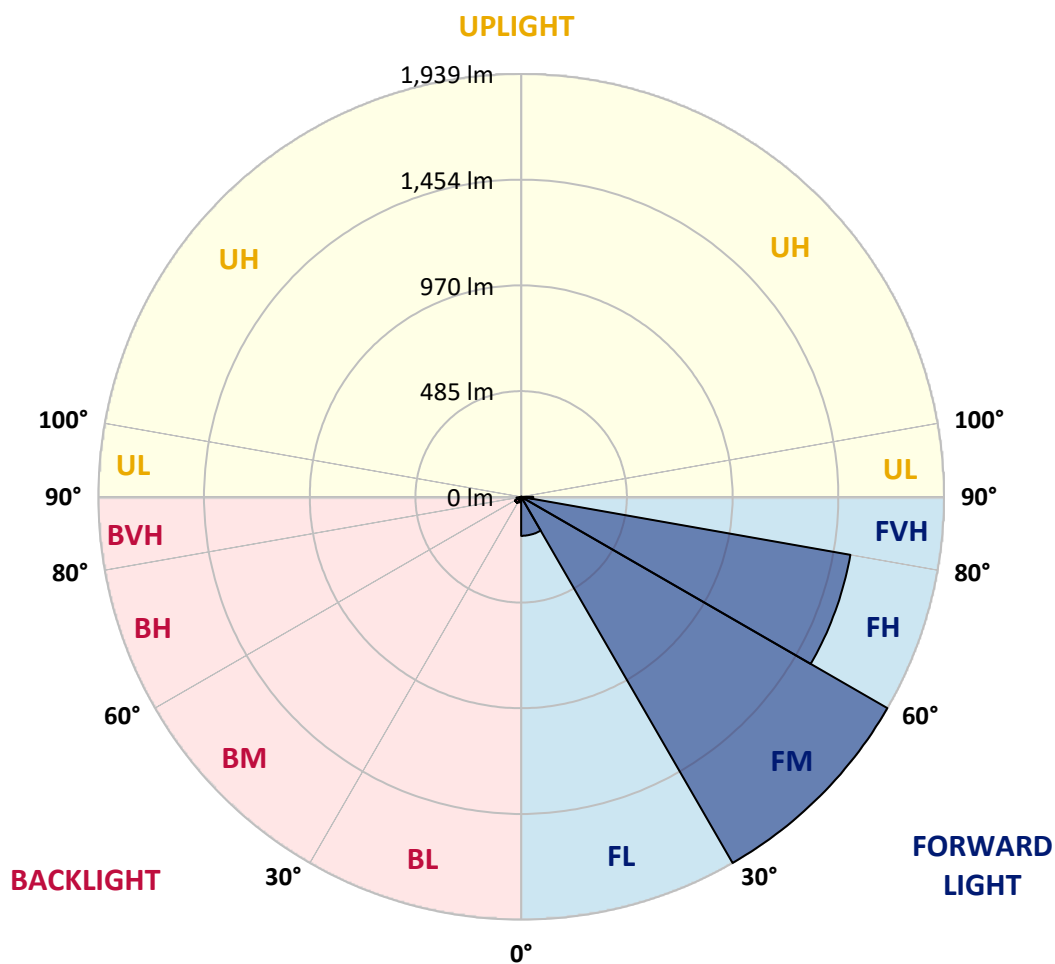
CATALOG NUMBER: VST-F03-LED-E-U-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.9	4.7			
FM	(30°-60°)	1939.3	51.2			
FH	(60°-80°)	1533.1	40.5			G1/1800
FVH	(80°-90°)	55.1	1.5			G1/100
BL	(0°-30°)	25.8	0.7	B0/110		
BM	(30°-60°)	32.4	0.9	B0/220		
BH	(60°-80°)	22.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	190.0	192.1	190.7	187.3	183.1	177.6	172.8	172.8	172.1	170.0	170.7
5°	249.2	249.9	247.1	238.9	231.3	219.6	206.5	205.1	203.8	201.7	201.1
7.5°	307.1	309.8	307.1	298.1	283.0	265.0	244.4	242.3	238.2	238.2	235.4
10°	366.2	366.2	363.5	353.2	339.4	313.9	287.8	284.3	279.5	278.1	274.0
12.5°	408.2	408.2	406.9	401.3	390.3	367.6	335.9	332.5	326.3	324.2	319.4
15°	424.7	424.7	425.5	430.3	431.0	420.7	387.5	384.8	378.6	373.1	371.0
17.5°	435.1	434.4	434.4	441.3	453.7	460.6	439.2	436.4	429.6	426.8	419.9
20°	457.8	456.4	452.3	452.3	464.0	488.0	488.0	487.4	479.8	477.7	474.3
22.5°	491.5	490.1	477.7	467.4	472.9	503.2	531.5	530.1	527.3	524.6	522.5
25°	546.6	541.8	520.4	490.1	485.3	517.7	564.5	568.0	570.0	570.0	571.4
27.5°	629.9	623.7	585.8	529.4	508.0	541.1	601.0	607.9	614.0	615.4	621.6
30°	745.6	734.5	680.2	597.5	548.7	575.5	654.7	662.3	671.2	674.0	683.6
32.5°	935.5	929.3	877.1	753.1	648.5	643.0	729.7	739.3	751.1	755.9	767.6
35°	1224.7	1226.1	1183.4	1071.8	927.3	851.6	863.9	872.2	876.4	890.8	897.0
37.5°	1420.9	1424.3	1433.9	1389.9	1286.6	1209.5	1112.5	1121.5	1100.1	1102.1	1102.9
40°	1528.3	1539.2	1595.8	1638.4	1630.1	1585.4	1507.6	1512.4	1472.5	1463.6	1420.2
42.5°	1599.8	1614.3	1704.5	1836.7	1904.2	1944.8	1926.9	1924.8	1893.8	1882.1	1845.6
45°	1644.6	1657.7	1771.3	1966.1	2121.7	2240.1	2288.9	2294.5	2268.3	2256.6	2226.3
47.5°	1642.5	1657.7	1779.5	2014.3	2243.5	2432.8	2570.5	2577.4	2593.3	2582.9	2585.0
50°	1551.7	1566.2	1688.7	1932.4	2207.7	2521.0	2772.9	2794.9	2820.4	2837.6	2845.9
52.5°	1441.6	1451.9	1560.7	1792.0	2054.9	2484.5	2892.7	2930.6	2968.4	3000.8	3023.5
55°	1400.9	1412.6	1498.0	1690.1	1932.4	2331.6	2948.5	3004.2	3058.0	3110.9	3154.3
57.5°	1422.2	1433.3	1494.5	1641.8	1859.4	2170.6	2964.3	3051.1	3139.1	3225.2	3310.6
60°	1500.7	1512.4	1564.8	1686.6	1840.1	2077.6	2902.3	3046.2	3192.8	3342.9	3484.0
62.5°	1469.8	1474.6	1551.7	1765.1	1977.8	1998.4	2677.2	2878.3	3102.0	3333.3	3561.1
63°	1440.2	1445.7	1524.1	1743.7	2019.8	1986.7	2607.7	2819.8	3055.9	3305.0	3552.9
65°	1305.9	1306.6	1366.5	1540.0	1973.0	2007.4	2297.9	2500.3	2771.5	3070.3	3383.5
67.5°	974.8	970.0	1027.8	1160.0	1548.9	2008.1	1972.3	2085.9	2274.5	2539.6	2820.4
70°	345.6	338.0	431.6	614.7	965.2	1642.5	1694.9	1702.4	1754.8	1897.9	2074.2
72.5°	112.2	114.3	137.6	225.1	444.7	1105.6	1534.4	1511.0	1497.3	1496.6	1520.0
75°	44.8	45.4	55.1	99.8	199.7	532.9	1343.8	1356.8	1361.7	1368.5	1376.2
77.5°	21.3	23.4	31.0	55.7	99.1	263.6	961.7	1072.5	1135.9	1184.8	1214.3
80°	7.6	8.9	17.2	34.4	46.1	121.1	506.6	611.3	704.2	824.0	927.3
82.5°	0.0	0.0	3.4	24.1	25.4	48.8	207.9	243.7	278.8	361.4	464.0
85°	0.0	0.0	0.0	6.9	7.6	8.3	70.3	84.7	95.0	110.8	128.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	4.1	10.3	15.8
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°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	169.3	168.7	168.7	167.3	166.6	165.2	164.5	162.5	161.8	161.8	161.8
5°	200.3	197.6	196.2	192.8	190.7	190.0	186.6	185.2	183.1	183.8	180.4
7.5°	234.7	229.9	227.9	223.0	221.7	216.8	215.5	212.0	210.0	205.9	204.5
10°	272.6	266.4	263.0	255.4	253.3	249.9	245.8	241.6	238.2	234.1	232.0
12.5°	316.0	310.5	307.7	297.4	292.6	287.8	282.2	276.7	271.2	267.8	263.0
15°	366.9	358.0	355.2	345.6	337.3	331.1	323.6	316.7	312.5	305.7	300.8
17.5°	417.2	408.2	406.1	391.7	382.7	378.6	370.4	361.4	353.8	347.0	339.4
20°	467.4	461.2	455.7	442.0	432.4	425.5	414.4	405.5	399.3	389.6	380.0
22.5°	517.7	511.5	507.4	492.9	484.0	474.3	464.7	455.0	446.1	434.4	423.4
25°	569.3	565.2	563.1	550.1	541.8	532.9	523.2	512.2	501.1	488.0	476.4
27.5°	623.0	624.4	620.2	617.5	608.5	602.3	587.2	579.7	571.4	555.5	541.1
30°	691.1	695.3	693.9	696.0	690.5	686.3	674.6	665.0	655.4	640.3	623.7
32.5°	777.2	782.8	785.5	793.1	790.3	788.9	785.5	771.7	764.8	738.7	731.8
35°	910.1	907.3	919.0	925.2	922.4	921.1	917.0	909.4	901.1	882.5	865.3
37.5°	1082.9	1085.6	1089.8	1077.4	1069.1	1068.4	1056.0	1048.4	1036.7	1016.1	995.5
40°	1399.5	1382.3	1363.1	1310.7	1288.0	1274.9	1238.5	1228.1	1208.2	1179.9	1158.6
42.5°	1811.2	1794.0	1736.2	1648.7	1601.9	1537.2	1507.6	1471.1	1442.9	1396.8	1372.0
45°	2220.1	2170.6	2163.7	2061.8	2003.9	1918.6	1865.6	1804.3	1740.3	1679.8	1635.7
47.5°	2565.0	2554.0	2520.3	2458.3	2404.6	2333.0	2264.9	2170.6	2104.4	2018.4	1939.3
50°	2841.1	2840.4	2828.0	2792.2	2747.5	2689.6	2629.7	2549.9	2474.8	2369.5	2284.9
52.5°	3047.6	3058.6	3062.8	3051.7	3034.5	2983.6	2953.3	2886.5	2823.2	2733.7	2642.1
55°	3199.0	3239.6	3260.3	3283.7	3278.9	3261.0	3259.6	3216.2	3187.4	3116.4	3051.7
57.5°	3386.3	3453.1	3517.1	3630.7	3634.8	3674.8	3695.4	3716.0	3721.5	3693.3	3672.0
60°	3624.5	3760.8	3881.9	4119.5	4181.4	4279.1	4342.5	4411.3	4469.8	4474.7	4473.3
62.5°	3792.4	4002.4	4197.9	4550.4	4670.9	4783.8	4868.4	4935.2	4975.8	5017.1	5036.4
63°	3797.3	4027.2	4235.1	4598.6	4725.2	4832.6	4913.2	4975.1	5017.9	5042.6	5055.0
65°	3680.9	3959.7	4207.6	4569.7	4688.8	4796.9	4838.8	4879.4	4900.1	4909.7	4873.3
67.5°	3119.9	3392.5	3681.6	4086.4	4188.3	4317.7	4352.2	4372.8	4382.4	4380.4	4349.4
70°	2333.0	2561.6	2883.1	3345.7	3480.6	3607.3	3685.7	3719.5	3730.5	3727.0	3680.9
72.5°	1628.8	1763.0	2028.1	2543.0	2726.8	2889.2	2986.3	3036.5	3046.9	3026.2	2983.6
75°	1367.9	1374.8	1434.7	1716.2	1888.3	2061.8	2171.2	2202.9	2182.3	2119.6	2010.8
77.5°	1221.2	1236.4	1236.4	1278.4	1312.1	1360.3	1370.6	1293.5	1204.0	1088.4	994.8
80°	1024.4	1077.4	1114.6	1145.5	1148.9	1139.3	1113.8	1070.5	1001.6	913.5	815.8
82.5°	622.3	727.0	769.7	929.3	1007.8	1060.8	1056.7	998.9	946.6	855.0	771.7
85°	157.0	169.3	183.8	238.9	267.8	327.0	364.1	381.4	387.5	355.9	322.2
87.5°	15.1	10.3	17.2	13.1	18.6	13.7	18.6	17.2	21.3	22.7	24.8
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°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	160.4	159.7	159.0	158.3	157.6	157.0	155.6	155.6	154.2	153.5	152.8
5°	178.3	176.9	176.2	174.8	172.8	171.4	169.3	166.6	164.5	163.9	162.5
7.5°	201.1	197.6	196.2	194.2	191.4	187.3	184.5	182.5	179.0	176.9	172.8
10°	226.5	223.0	218.9	214.8	210.7	205.9	202.4	199.7	194.2	191.4	186.6
12.5°	258.8	252.7	247.8	242.3	236.8	231.3	227.2	218.9	214.1	207.9	203.8
15°	291.9	286.4	280.9	274.0	265.7	256.7	252.7	245.0	238.9	229.3	223.7
17.5°	331.8	321.5	313.3	305.0	297.4	289.1	280.9	269.2	260.2	251.9	241.0
20°	371.0	358.7	349.7	338.7	327.7	314.6	305.0	296.7	284.3	273.3	261.6
22.5°	413.0	400.7	386.2	375.2	360.1	349.7	336.7	322.9	310.5	296.0	281.6
25°	464.0	450.9	434.4	419.9	402.7	388.3	372.4	356.6	341.5	325.0	306.4
27.5°	526.6	512.9	494.9	477.7	455.0	437.2	422.0	400.7	381.4	360.7	339.4
30°	605.8	590.6	568.6	543.8	521.2	501.1	479.8	451.6	430.3	405.5	377.9
32.5°	709.1	691.1	661.6	638.2	609.9	583.7	554.2	526.0	495.7	463.3	431.6
35°	839.2	822.7	788.2	753.8	722.8	691.9	654.7	622.3	579.7	540.4	499.7
37.5°	974.1	944.5	912.8	875.7	837.1	799.9	754.5	709.7	660.9	618.2	567.2
40°	1128.3	1092.5	1066.3	1026.4	972.0	919.0	877.1	821.3	760.0	702.8	643.0
42.5°	1339.7	1299.7	1252.9	1192.3	1153.1	1091.1	1036.7	970.7	890.1	826.1	753.8
45°	1584.1	1529.6	1484.2	1425.7	1378.2	1301.1	1237.8	1149.7	1069.1	985.1	897.0
47.5°	1862.8	1795.4	1729.3	1671.5	1595.8	1520.0	1439.5	1345.9	1242.6	1150.3	1045.7
50°	2182.9	2087.2	1995.7	1921.4	1817.4	1730.0	1642.5	1537.2	1422.9	1316.9	1197.8
52.5°	2538.8	2428.0	2306.9	2192.6	2072.1	1959.9	1854.5	1733.4	1606.1	1476.7	1343.8
55°	2968.4	2885.1	2742.7	2597.4	2436.2	2286.2	2150.6	2000.5	1845.6	1675.6	1535.8
57.5°	3641.0	3600.4	3481.3	3336.1	3126.1	2943.7	2713.7	2529.9	2305.5	2071.4	1891.1
60°	4552.5	4502.2	4435.4	4317.7	4151.1	3903.3	3650.0	3364.3	3022.8	2698.6	2390.9
62.5°	5038.5	5020.6	4966.2	4885.0	4729.4	4533.8	4278.5	3964.6	3579.1	3185.3	2792.9
63°	5052.9	5030.2	4983.4	4900.8	4763.8	4574.5	4323.9	4018.9	3641.7	3240.4	2839.7
65°	4857.4	4848.5	4801.0	4710.8	4617.2	4472.6	4278.5	4016.2	3699.5	3320.2	2921.6
67.5°	4308.1	4281.2	4208.3	4180.7	4115.3	4014.8	3866.8	3686.4	3460.0	3161.9	2817.7
70°	3643.7	3603.8	3512.3	3463.4	3383.5	3320.2	3230.0	3101.3	2961.5	2753.6	2496.9
72.5°	2939.5	2856.9	2772.9	2645.6	2534.0	2421.1	2321.3	2230.4	2076.9	1992.9	1798.1
75°	1909.0	1758.8	1615.0	1422.2	1248.8	1095.2	945.8	870.2	712.5	648.5	556.9
77.5°	905.9	821.9	709.1	621.6	510.1	416.5	340.1	255.4	200.3	157.0	119.8
80°	731.1	660.2	592.0	512.9	428.9	342.1	262.3	196.2	139.0	96.4	68.2
82.5°	652.0	574.8	490.8	436.4	379.3	310.5	254.7	207.9	153.5	112.2	76.4
85°	253.3	213.4	164.5	134.2	104.6	86.0	77.8	53.7	42.0	33.0	25.4
87.5°	22.0	17.9	14.5	9.7	10.3	5.5	6.2	4.1	3.4	3.4	2.8
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°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	152.1	151.4	150.7	149.3	149.3	148.0	147.3	146.6	143.2	135.6	129.4
5°	159.7	158.3	157.0	154.9	153.5	151.4	150.1	148.0	140.4	126.0	113.6
7.5°	170.7	167.9	165.9	161.8	159.7	157.0	154.9	151.4	139.0	117.0	99.8
10°	183.8	179.0	175.6	170.7	166.6	163.1	159.7	154.9	137.6	107.4	87.4
12.5°	199.7	194.2	187.3	181.7	176.2	171.4	166.6	160.4	135.6	99.1	77.8
15°	215.5	207.2	202.4	194.8	187.3	180.4	173.5	167.9	136.3	90.2	69.5
17.5°	233.3	225.1	214.8	206.5	198.3	189.4	181.1	170.0	132.8	83.3	63.4
20°	250.6	238.9	229.3	218.9	207.2	196.2	185.9	176.2	130.1	76.4	57.8
22.5°	269.2	255.4	243.0	229.9	215.5	203.1	190.7	178.3	125.3	70.3	53.0
25°	291.9	276.1	258.1	242.3	227.2	212.0	196.2	181.1	120.5	64.7	49.6
27.5°	319.4	298.8	280.9	260.9	239.6	220.3	203.1	186.6	115.7	60.6	46.1
30°	354.5	330.4	305.0	279.5	256.7	234.7	210.7	190.0	110.8	56.5	42.7
32.5°	401.3	371.0	340.1	310.5	280.2	251.9	226.5	199.7	108.1	53.0	39.2
35°	463.3	424.1	386.2	349.0	312.5	278.1	245.0	214.8	108.1	48.8	35.1
37.5°	521.8	476.4	428.2	382.0	338.7	298.8	259.5	223.0	102.6	45.4	31.7
40°	585.1	530.8	474.3	419.9	367.6	318.1	273.3	231.3	97.7	41.3	28.2
42.5°	682.2	613.4	539.8	476.4	413.8	352.4	296.7	247.1	91.6	37.1	24.8
45°	809.6	722.1	635.4	558.3	478.4	403.4	337.3	276.1	90.2	33.7	21.3
47.5°	945.8	842.6	740.7	642.3	548.7	461.2	382.0	308.4	90.2	30.3	18.6
50°	1081.5	952.1	843.3	729.0	623.7	520.4	426.1	342.1	90.9	27.5	15.1
52.5°	1204.0	1065.7	943.8	811.6	695.3	575.5	472.9	375.2	89.5	24.1	12.4
55°	1374.1	1211.6	1070.5	924.5	788.2	653.3	537.0	424.7	90.2	21.3	10.3
57.5°	1687.3	1496.6	1326.6	1135.2	978.2	804.1	662.9	526.6	98.5	17.9	7.6
60°	2136.8	1889.0	1650.1	1416.7	1217.1	1009.9	826.7	666.4	115.7	14.5	5.5
62.5°	2439.0	2114.8	1829.8	1572.4	1340.3	1123.5	923.8	741.4	127.3	11.7	3.4
63°	2470.0	2134.7	1848.4	1582.7	1345.9	1129.0	928.0	746.9	128.0	11.0	3.4
65°	2528.5	2169.2	1858.7	1584.7	1340.3	1121.5	925.2	746.2	129.4	8.9	2.8
67.5°	2461.7	2116.1	1798.9	1525.5	1292.1	1076.6	890.8	718.7	128.7	6.2	2.0
70°	2201.5	1915.2	1636.3	1381.6	1169.6	974.8	811.0	655.4	118.4	4.1	1.4
72.5°	1616.4	1421.5	1205.4	1021.6	881.2	731.8	624.4	492.2	91.6	2.8	0.7
75°	479.1	436.4	366.9	323.6	285.7	236.1	210.0	163.9	46.8	1.4	0.0
77.5°	95.7	86.8	77.8	70.9	66.8	57.1	54.4	44.8	19.3	0.7	0.0
80°	50.2	41.3	35.1	31.0	26.8	22.0	18.6	15.1	3.4	0.0	0.0
82.5°	48.2	32.3	23.4	19.3	16.5	13.1	10.3	7.6	2.0	0.0	0.0
85°	17.9	13.7	10.3	8.3	6.9	6.2	4.8	4.1	0.0	0.0	0.0
87.5°	2.8	2.0	2.0	1.4	1.4	0.7	0.7	0.7	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°	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	123.2	117.7	115.0	111.5	111.5	110.8	112.2
5°	102.6	95.0	89.5	85.4	86.0	84.0	84.7
7.5°	86.8	79.2	74.3	71.6	70.9	70.3	70.3
10°	75.1	68.2	64.0	62.0	61.3	61.3	61.3
12.5°	66.8	59.9	56.5	55.1	55.1	54.4	54.4
15°	59.9	54.4	50.9	49.6	49.6	48.8	49.6
17.5°	54.4	48.8	46.1	44.8	44.8	44.0	44.0
20°	49.6	44.8	42.0	39.9	39.9	39.2	39.9
22.5°	45.4	40.6	37.1	35.8	35.1	34.4	35.1
25°	41.3	36.5	33.0	31.0	30.3	30.3	29.6
27.5°	37.9	33.0	28.9	26.8	26.2	26.2	25.4
30°	34.4	28.9	24.8	22.7	22.0	22.0	22.0
32.5°	31.0	24.8	21.3	19.3	18.6	18.6	18.6
35°	27.5	21.3	17.9	15.8	15.1	15.1	15.1
37.5°	23.4	17.9	13.7	12.4	11.7	11.0	11.0
40°	20.0	13.7	10.3	8.9	7.6	7.6	7.6
42.5°	16.5	11.0	7.6	5.5	4.8	4.1	4.8
45°	13.7	8.3	4.8	2.8	2.0	2.0	2.0
47.5°	11.0	5.5	2.0	0.7	0.7	0.7	0.7
50°	8.3	3.4	0.7	0.0	0.0	0.7	0.7
52.5°	6.2	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.4	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)