

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: P165244

Luminaire Tested: **VST-F02-LED-E-U-SL3-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165244
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (14) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.2 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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



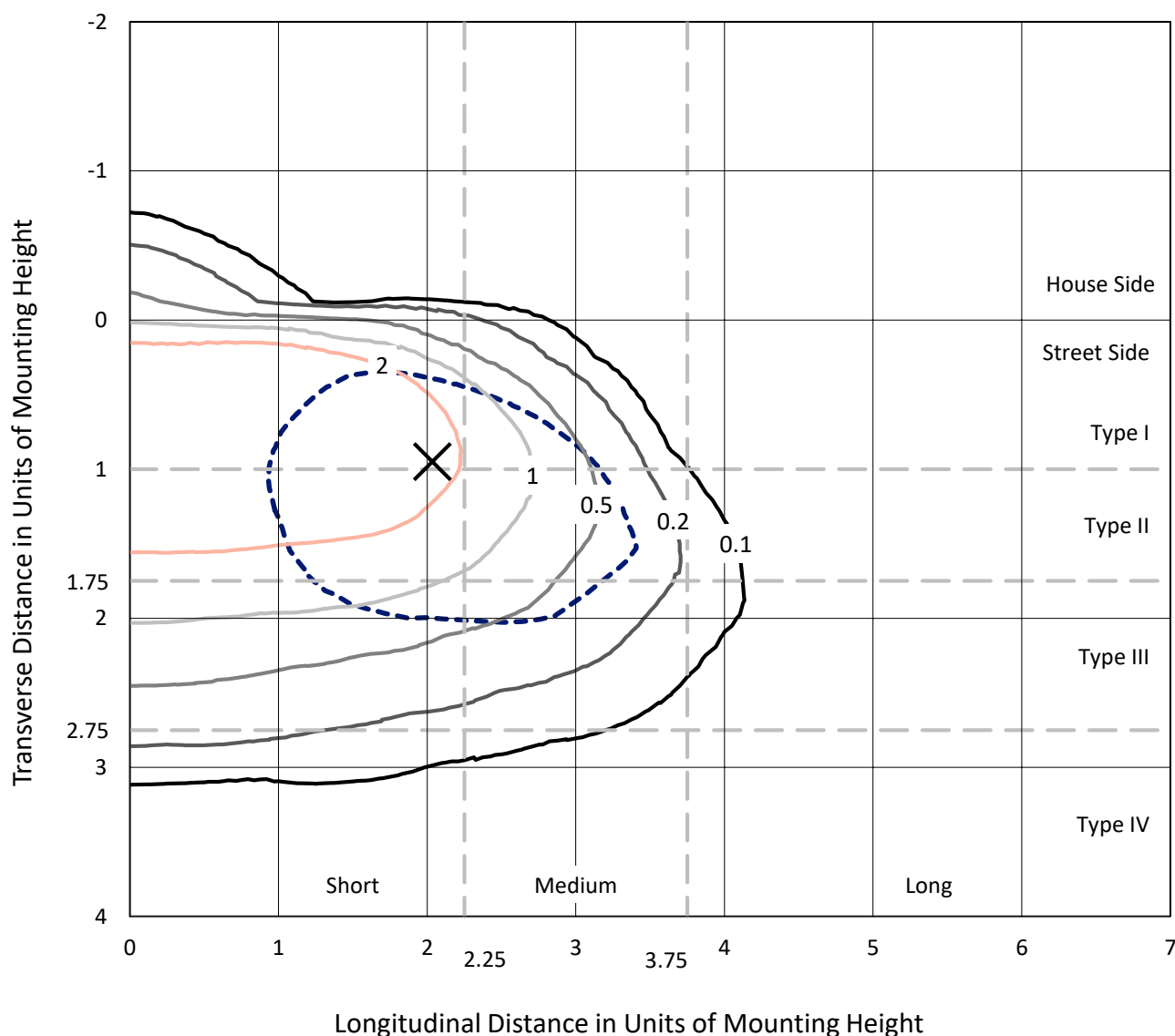
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

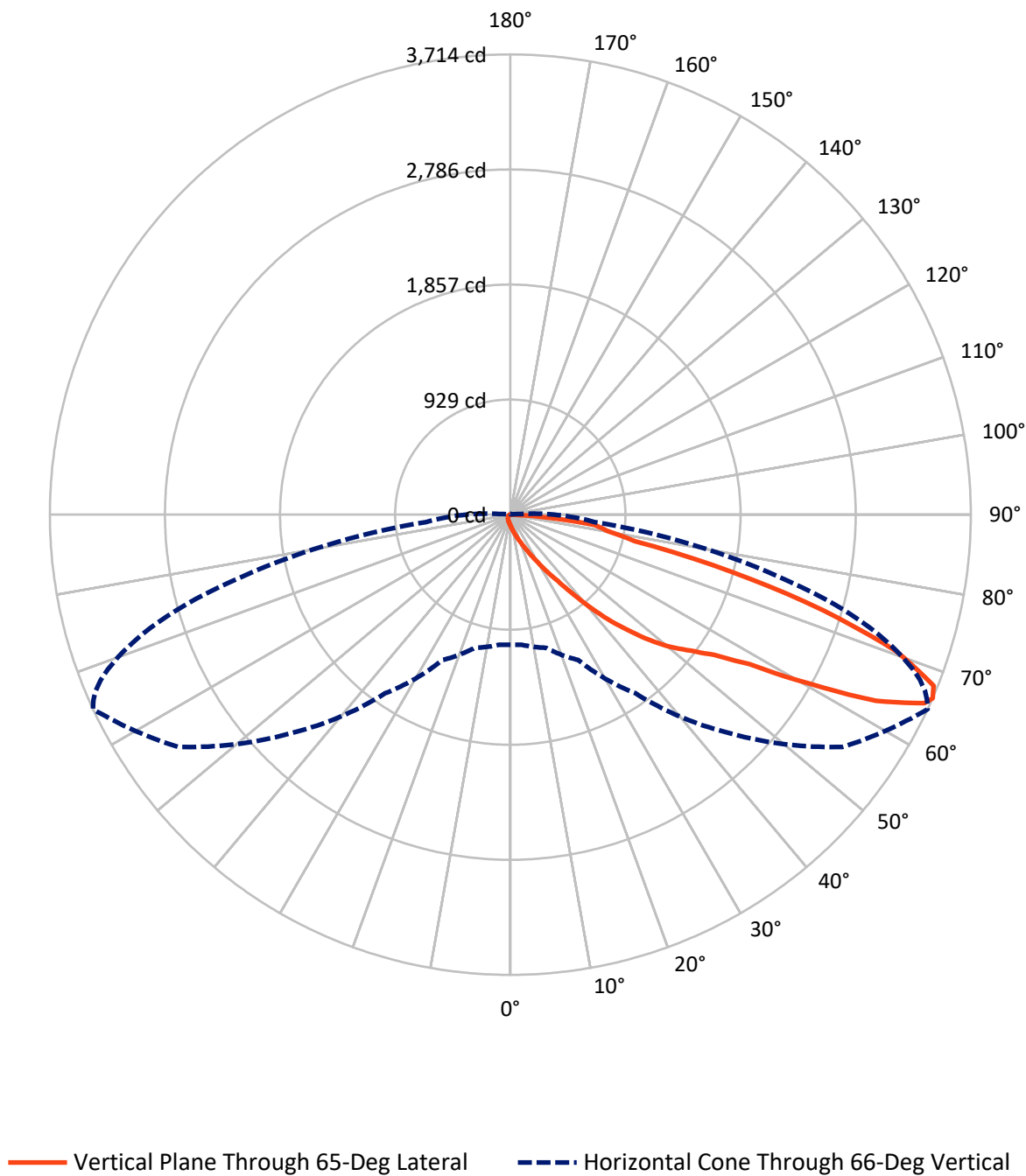


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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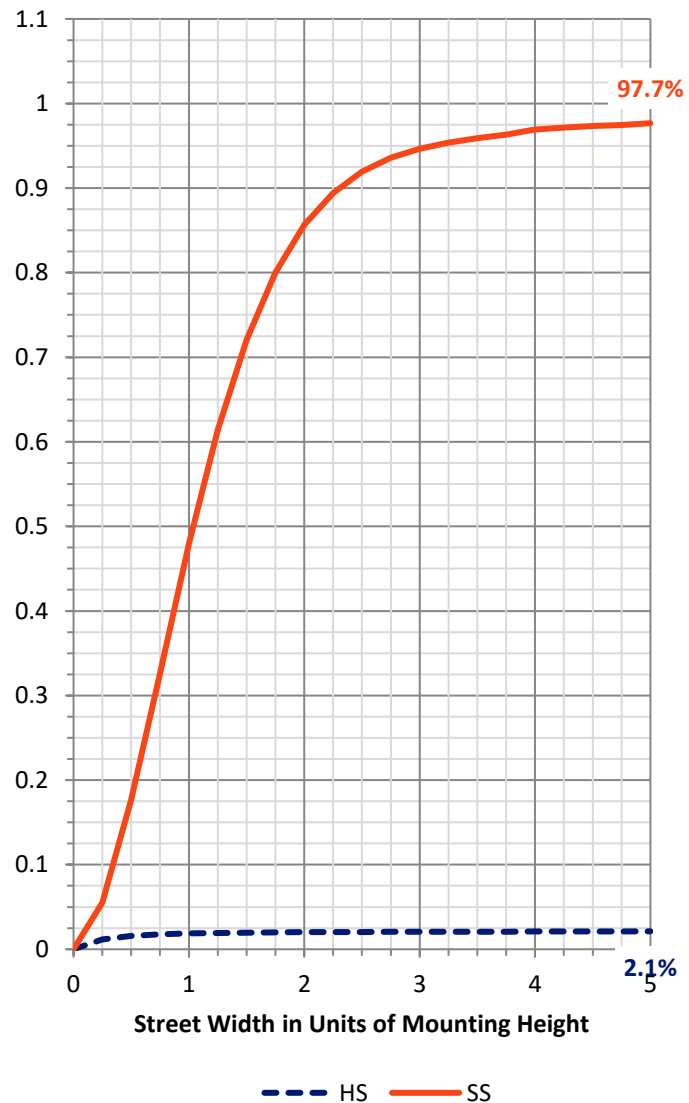
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	62.9	0.0	62.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2839.4	0.0	2839.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	2902.2	0.0	2902.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.3
10°-20°	41.6	1.4
20°-30°	89.7	3.1
30°-40°	191.5	6.6
40°-50°	423.5	14.6
50°-60°	717.8	24.7
60°-70°	957.8	33.0
70°-80°	421.9	14.5
80°-90°	48.6	1.7
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°	2902.2	100.0
0°-180°	2902.2	100.0

Coefficient of Utilization



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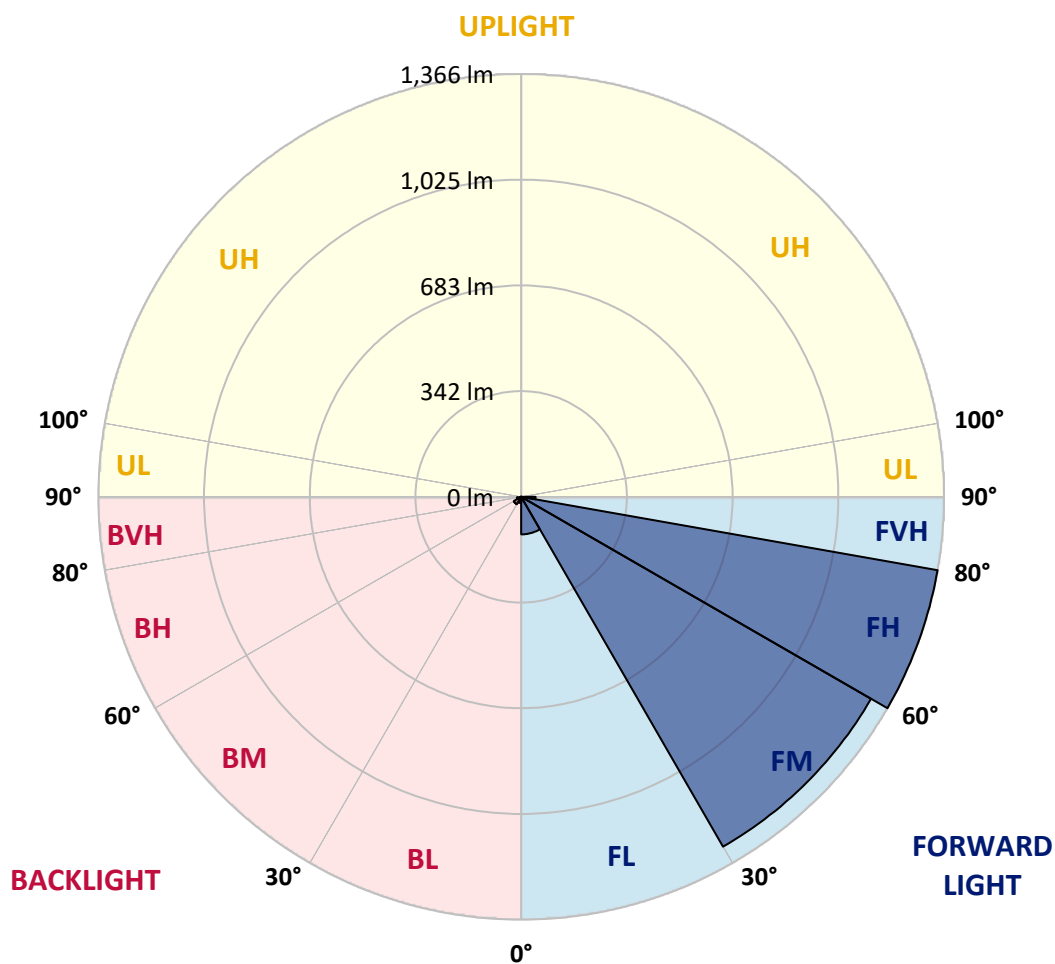
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.2	4.2			
FM	(30°-60°)	1305.2	45.0			
FH	(60°-80°)	1366.2	47.1			G1/1800
FVH	(80°-90°)	46.7	1.6			G1/100
BL	(0°-30°)	19.8	0.7	B0/110		
BM	(30°-60°)	27.6	1.0	B0/220		
BH	(60°-80°)	13.5	0.5	B0/110		G0/110
BVH	(80°-90°)	1.9	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	110.5	109.9	107.7	107.7	104.3	102.1	99.3	96.5	96.5	95.9	95.4
5°	146.2	142.9	142.3	136.1	131.1	123.9	117.2	108.2	107.2	106.0	105.4
7.5°	185.8	185.2	180.2	173.0	163.0	149.5	136.1	121.6	119.4	118.3	116.0
10°	237.1	234.4	227.6	215.3	200.3	182.5	160.7	137.8	135.0	132.8	131.6
12.5°	286.3	281.2	277.3	261.7	242.7	216.5	190.3	157.4	155.1	152.3	147.8
15°	332.0	327.5	320.8	307.4	286.3	253.3	222.7	182.5	176.9	173.0	169.6
17.5°	367.7	364.9	357.1	342.1	319.1	290.2	253.3	208.1	203.7	198.6	192.5
20°	401.8	397.8	385.6	364.9	340.4	318.0	289.6	241.6	235.4	229.3	222.7
22.5°	434.1	430.2	410.1	376.1	349.9	340.4	330.3	279.5	270.1	265.0	258.3
25°	479.3	470.9	439.7	385.6	350.4	357.7	374.9	328.6	319.7	312.5	301.9
27.5°	540.1	529.0	479.9	399.5	352.6	376.6	426.3	388.3	378.8	370.5	358.8
30°	608.8	601.5	542.9	433.0	368.8	404.5	483.7	464.2	453.1	443.0	429.1
32.5°	677.9	667.9	609.8	496.6	412.3	458.6	555.7	552.4	537.9	528.4	513.3
35°	738.8	733.7	690.8	600.9	511.7	553.5	651.7	655.6	642.8	632.8	616.0
37.5°	780.1	780.1	771.7	713.0	669.5	700.8	792.8	793.4	780.6	757.7	749.3
40°	801.2	807.4	837.5	848.6	846.4	886.6	978.1	968.1	957.5	945.7	917.9
42.5°	844.8	850.3	914.5	991.5	1041.7	1094.7	1157.8	1154.4	1141.6	1120.4	1094.7
45°	918.4	925.7	1002.1	1124.3	1227.5	1302.9	1343.0	1327.4	1314.5	1294.5	1281.1
47.5°	1012.1	1026.1	1112.6	1263.8	1388.2	1512.7	1554.5	1513.2	1502.0	1486.4	1464.7
50°	1112.0	1125.4	1217.5	1390.4	1531.1	1679.5	1749.2	1679.5	1663.3	1658.3	1633.7
52.5°	1198.5	1209.7	1298.4	1488.1	1640.4	1814.5	1916.0	1824.0	1812.2	1795.5	1777.7
55°	1249.9	1258.8	1341.9	1535.0	1714.7	1936.1	2077.3	1996.4	1979.1	1972.4	1946.8
57.5°	1267.1	1276.1	1350.8	1541.1	1754.8	2047.2	2273.2	2276.0	2255.3	2231.3	2223.5
60°	1267.1	1277.2	1340.2	1526.0	1793.9	2165.5	2534.3	2767.0	2722.3	2717.9	2689.4
62.5°	1214.7	1224.2	1287.8	1479.7	1846.3	2325.1	2898.1	3308.8	3295.9	3266.9	3220.0
65°	1100.9	1106.5	1168.9	1361.5	1826.2	2471.8	3213.4	3669.2	3648.5	3591.7	3531.4
66°	1049.5	1054.0	1112.6	1293.9	1760.4	2491.9	3269.2	3714.4	3680.4	3632.3	3564.3
67.5°	975.3	983.2	1024.4	1168.4	1602.5	2422.1	3234.0	3682.6	3653.0	3595.0	3526.9
70°	651.2	645.6	791.2	896.6	1220.8	1973.6	2901.4	3306.5	3307.1	3279.7	3252.4
72.5°	309.1	312.5	354.8	551.8	799.0	1318.5	2309.5	2639.2	2677.1	2628.1	2594.0
75°	222.1	227.1	252.8	337.6	476.5	791.2	1497.0	1845.7	1846.9	1759.8	1682.3
77.5°	64.7	67.5	94.9	208.1	357.1	533.9	859.8	1026.1	1002.1	939.6	881.0
80°	26.8	26.8	27.9	66.4	143.4	362.7	601.5	790.1	787.3	763.3	728.7
82.5°	10.0	10.6	13.4	27.4	34.1	89.3	401.2	685.7	684.1	650.0	625.5
85°	1.1	1.1	3.4	11.7	12.8	16.7	80.3	302.4	300.7	302.4	265.0
87.5°	0.0	0.0	0.5	1.1	1.7	2.2	3.4	11.7	12.8	12.2	11.2
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	95.4	94.3	94.3	93.8	93.8	93.8	93.2	92.6	92.6	92.0	91.5
5°	104.3	103.2	102.7	101.5	101.0	100.4	99.3	98.8	97.7	97.1	96.5
7.5°	115.0	112.7	112.1	110.5	108.8	107.7	106.6	104.9	103.8	101.5	101.0
10°	128.3	125.5	123.3	121.1	119.4	116.6	115.0	112.7	110.5	108.8	107.2
12.5°	145.6	141.7	138.4	136.1	132.2	128.9	125.5	123.9	119.4	117.2	114.4
15°	164.6	160.1	156.2	151.7	149.0	143.4	138.9	133.9	131.6	127.8	123.3
17.5°	189.1	181.9	175.7	171.3	165.7	160.1	155.1	150.1	143.4	138.9	133.4
20°	215.3	209.2	200.9	193.1	186.4	179.7	172.4	165.7	159.6	152.3	145.6
22.5°	248.9	239.9	229.9	222.1	213.2	205.9	195.8	187.0	176.9	167.4	159.6
25°	291.2	279.5	270.1	258.9	248.3	237.1	224.8	213.7	200.9	191.9	178.6
27.5°	343.7	332.6	319.7	305.2	294.6	277.9	261.7	247.7	232.7	218.7	203.7
30°	410.6	394.5	381.1	367.1	346.0	329.8	310.8	291.8	271.1	257.2	234.4
32.5°	491.0	473.7	453.6	433.6	414.0	391.1	367.7	344.3	321.4	295.7	272.3
35°	589.2	568.6	545.7	523.9	493.8	469.3	439.7	407.3	381.7	352.1	322.5
37.5°	719.2	685.2	665.1	642.2	601.5	568.0	535.1	502.7	457.5	426.3	384.4
40°	882.1	862.1	829.1	792.3	755.5	711.4	666.8	623.8	571.4	527.8	479.3
42.5°	1073.5	1043.9	1010.5	957.5	920.1	868.2	817.4	760.5	696.4	640.6	583.6
45°	1253.2	1218.1	1192.4	1139.4	1100.3	1038.9	977.6	917.3	843.1	771.1	705.3
47.5°	1447.4	1418.3	1376.0	1333.0	1293.4	1224.2	1157.8	1084.7	1006.6	921.2	835.8
50°	1618.1	1595.2	1566.2	1514.3	1470.2	1412.2	1334.1	1254.3	1155.5	1070.8	973.7
52.5°	1763.2	1745.3	1704.6	1667.8	1628.2	1573.4	1503.7	1427.3	1320.7	1227.5	1117.1
55°	1934.5	1921.6	1885.9	1863.1	1827.9	1775.5	1710.2	1639.3	1526.6	1425.1	1300.1
57.5°	2215.1	2205.1	2173.9	2164.3	2129.8	2084.0	2003.7	1927.8	1796.1	1670.0	1527.2
60°	2679.9	2659.9	2614.1	2590.7	2517.5	2456.2	2351.9	2247.5	2088.5	1927.8	1755.9
62.5°	3177.6	3121.3	3034.2	2959.5	2855.7	2749.1	2609.6	2450.0	2263.7	2072.9	1875.3
65°	3446.0	3350.0	3240.1	3121.3	2986.8	2830.0	2654.3	2462.9	2262.6	2061.1	1852.4
66°	3476.7	3368.5	3251.9	3119.6	2970.1	2803.3	2624.7	2423.8	2215.7	2019.3	1810.6
67.5°	3438.2	3325.0	3201.7	3054.9	2893.1	2720.1	2532.6	2323.9	2123.6	1924.4	1721.3
70°	3168.7	3056.0	2946.1	2791.5	2619.1	2445.1	2267.6	2034.4	1844.6	1661.6	1480.9
72.5°	2530.4	2453.9	2345.2	2212.9	2044.9	1840.7	1692.8	1484.2	1319.6	1142.2	1002.1
75°	1581.3	1473.6	1339.1	1170.6	1042.3	876.5	790.1	631.6	537.9	455.9	376.6
77.5°	808.5	727.6	633.3	538.4	447.5	357.1	276.2	195.3	131.6	91.5	68.1
80°	667.9	596.5	518.3	431.9	351.5	272.9	196.4	133.9	85.4	55.8	43.5
82.5°	551.8	491.6	421.8	341.5	271.7	214.3	149.0	97.1	60.2	39.1	30.7
85°	234.9	213.2	164.6	130.6	98.2	72.5	50.8	34.1	24.0	19.5	17.9
87.5°	10.0	11.2	10.6	8.3	6.1	6.1	5.6	4.5	4.5	4.5	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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.5°	91.5	91.0	90.4	90.4	89.8	89.3	85.9	83.2	79.8	77.6	75.3
5°	95.4	94.9	93.8	93.2	92.0	91.5	84.2	78.1	73.1	69.2	66.4
7.5°	99.3	98.8	97.1	95.4	94.9	93.8	82.0	74.2	67.5	63.1	60.2
10°	104.3	102.7	101.0	98.8	97.1	95.4	79.8	69.7	62.5	58.6	55.8
12.5°	111.6	108.8	106.0	103.2	101.0	98.2	78.7	65.8	58.6	54.1	51.4
15°	120.0	116.0	112.7	109.4	105.4	102.7	76.4	62.5	55.2	50.8	47.5
17.5°	127.8	123.3	118.3	113.3	109.4	105.4	74.2	59.2	51.9	47.5	44.1
20°	138.9	132.2	126.1	120.0	114.4	109.4	70.9	55.8	49.1	44.1	40.7
22.5°	151.2	143.4	135.6	127.3	120.0	113.3	68.1	53.0	46.3	41.3	37.4
25°	166.9	157.4	146.8	136.1	127.8	118.9	65.3	50.2	43.5	38.5	34.6
27.5°	188.6	175.2	163.5	150.1	137.3	127.3	63.1	48.0	40.7	35.7	31.8
30°	218.2	198.6	180.2	165.7	150.7	136.1	60.8	45.2	38.5	32.9	28.4
32.5°	251.1	228.2	207.0	185.2	166.3	149.5	58.6	43.0	35.7	30.1	26.2
35°	291.8	262.8	234.4	209.2	186.4	164.0	56.3	40.7	33.5	27.4	23.5
37.5°	350.4	314.1	276.8	244.4	214.8	185.2	54.7	38.5	30.7	24.5	20.6
40°	430.7	383.9	338.1	294.1	255.5	218.7	52.4	36.2	28.4	22.3	18.4
42.5°	517.8	460.9	400.6	350.9	298.0	251.6	50.2	34.1	26.2	20.1	16.2
45°	626.0	555.2	482.1	414.5	349.9	290.2	48.0	31.8	23.5	17.9	14.0
47.5°	744.4	653.9	571.4	486.5	409.6	338.1	45.2	30.1	21.2	15.6	12.2
50°	866.0	770.6	666.2	569.7	478.2	386.2	42.4	27.4	19.0	14.0	10.0
52.5°	997.1	884.4	777.8	657.8	551.3	449.2	39.6	25.1	17.3	12.2	8.3
55°	1163.9	1037.8	912.8	778.4	650.0	522.3	36.8	22.3	15.1	10.6	6.7
57.5°	1373.7	1224.2	1070.8	919.0	763.3	618.2	34.6	19.5	12.8	8.9	5.6
60°	1571.8	1397.2	1211.3	1036.7	860.9	691.9	31.3	17.3	11.2	7.3	5.6
62.5°	1674.5	1475.3	1274.9	1082.5	895.0	718.1	27.9	14.5	9.5	6.1	5.0
65°	1649.3	1446.2	1252.1	1057.9	874.4	701.4	24.5	12.8	8.3	5.6	5.0
66°	1613.1	1412.2	1216.9	1032.2	857.0	683.5	22.9	12.2	7.8	5.6	4.5
67.5°	1533.8	1339.7	1153.3	981.5	809.6	649.4	20.6	11.2	7.3	5.0	4.5
70°	1310.1	1133.8	984.8	831.9	691.9	547.4	16.7	9.5	6.1	4.5	4.5
72.5°	867.1	747.1	647.8	557.4	465.9	361.6	14.0	7.8	5.0	4.5	3.9
75°	327.0	295.7	253.9	228.2	199.2	174.7	11.2	5.0	3.9	3.9	3.9
77.5°	58.0	53.6	47.5	43.5	40.2	36.8	8.9	3.4	3.4	3.9	3.9
80°	39.1	36.2	32.9	30.1	27.9	25.1	6.1	2.8	3.4	3.4	3.9
82.5°	27.9	26.2	24.5	22.3	20.6	18.4	3.9	2.8	3.4	3.4	3.4
85°	16.7	15.6	14.5	13.4	11.7	11.2	2.8	2.8	2.8	3.4	3.4
87.5°	4.5	3.9	4.5	4.5	3.4	3.9	2.2	2.2	2.2	2.8	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):

	145°	155°	165°	175°	180°
0°	87.6	87.6	87.6	87.6	87.6
2.5°	74.2	74.2	73.1	74.8	74.8
5°	64.2	64.2	63.6	64.2	64.2
7.5°	58.6	58.0	58.0	58.0	58.6
10°	53.6	53.0	53.0	53.0	53.0
12.5°	49.1	48.5	48.0	48.5	48.5
15°	45.2	44.1	44.1	44.1	44.1
17.5°	41.8	40.7	40.2	40.2	40.2
20°	38.5	36.8	36.8	36.8	36.8
22.5°	35.2	33.5	33.5	33.5	33.5
25°	31.8	30.1	30.1	30.1	30.1
27.5°	29.0	27.4	27.4	27.4	27.4
30°	25.7	24.5	24.5	25.1	24.5
32.5°	23.5	21.8	21.8	22.3	22.3
35°	20.6	19.5	19.5	19.5	19.5
37.5°	17.9	16.7	16.7	16.7	16.7
40°	15.6	14.5	14.0	14.5	14.5
42.5°	13.4	12.2	11.7	11.7	11.7
45°	11.7	10.0	9.5	10.0	10.0
47.5°	9.5	8.3	8.3	8.9	8.9
50°	7.3	7.3	7.8	8.9	8.9
52.5°	6.7	6.7	7.8	8.9	8.9
55°	6.1	6.7	7.8	8.3	8.9
57.5°	5.6	6.7	7.8	8.3	8.3
60°	5.6	6.1	7.3	8.3	8.3
62.5°	5.0	5.6	6.7	7.8	7.8
65°	5.0	5.6	6.7	7.8	7.8
66°	5.0	5.6	6.7	7.8	7.8
67.5°	5.0	5.6	6.7	7.8	7.8
70°	5.0	5.6	6.7	7.3	7.3
72.5°	4.5	5.0	6.1	7.3	7.3
75°	4.5	5.0	6.1	7.3	7.3
77.5°	4.5	5.0	6.1	7.3	7.3
80°	4.5	5.0	6.1	6.7	7.3
82.5°	3.9	5.0	5.6	6.7	6.7
85°	3.9	4.5	5.6	6.1	6.7
87.5°	3.4	3.9	4.5	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)