

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: P165240

Luminaire Tested: **VST-F02-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165240
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2387.2 lumens
Efficiency: N/A
Efficacy: 43.4 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

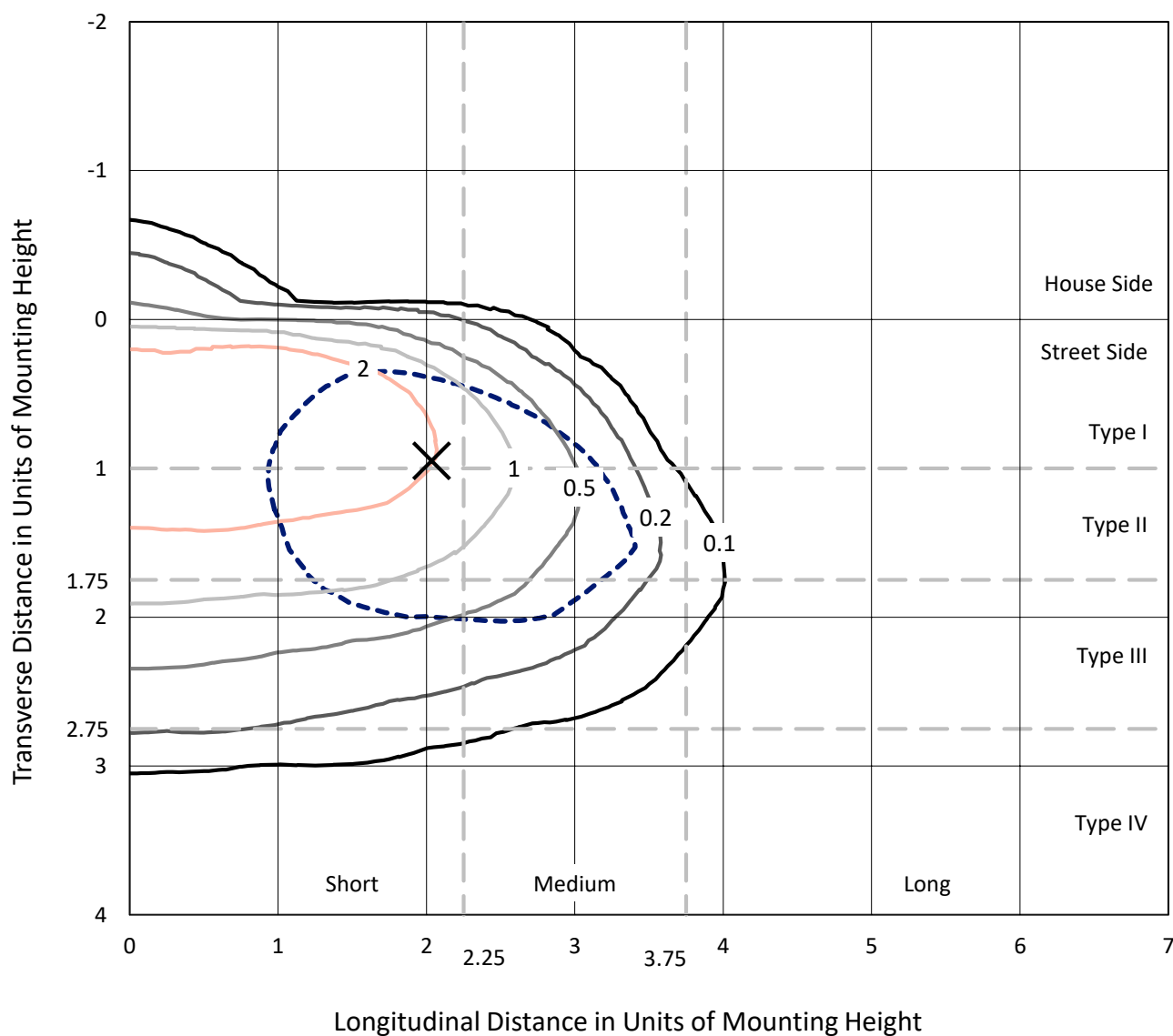


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

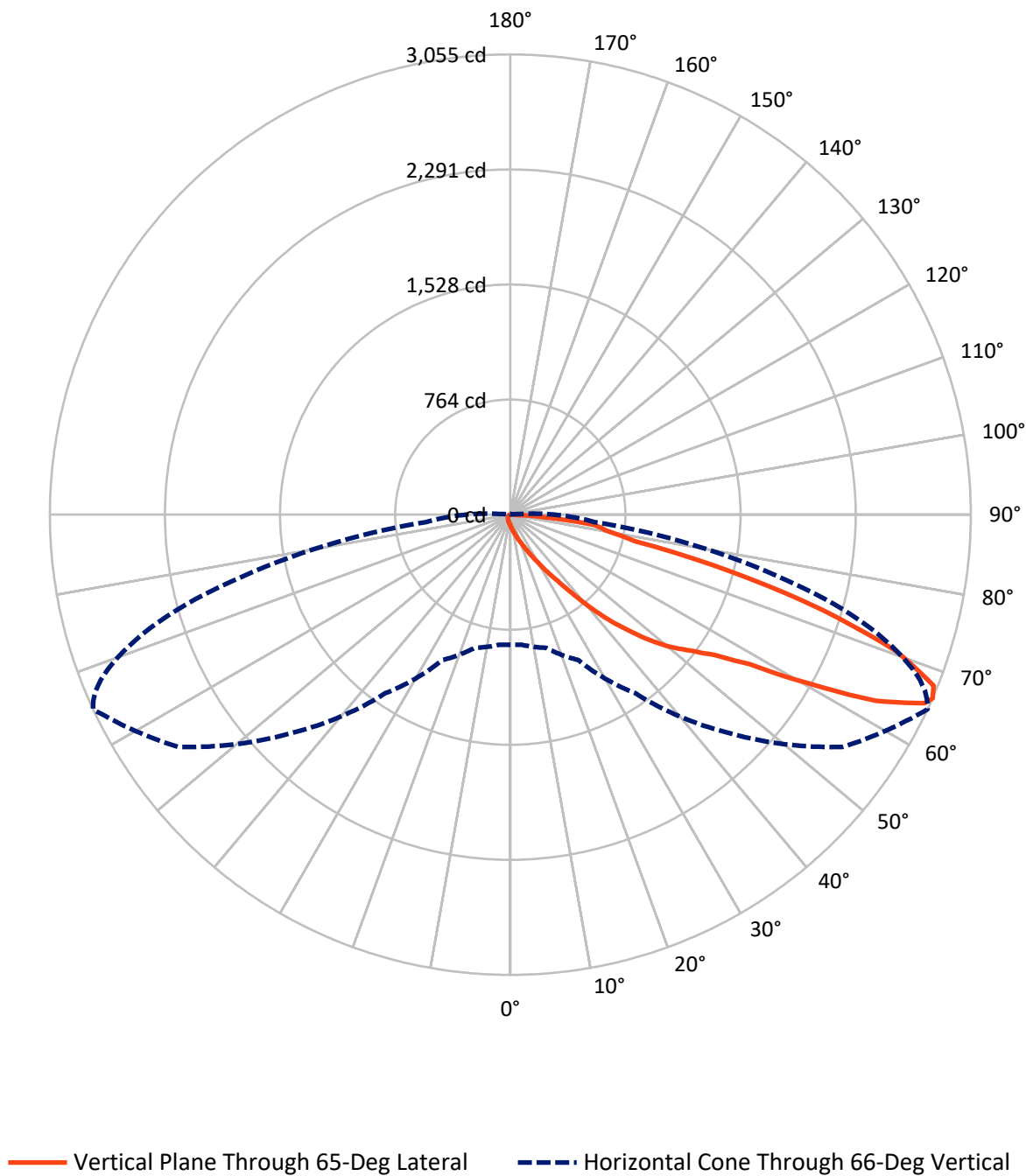


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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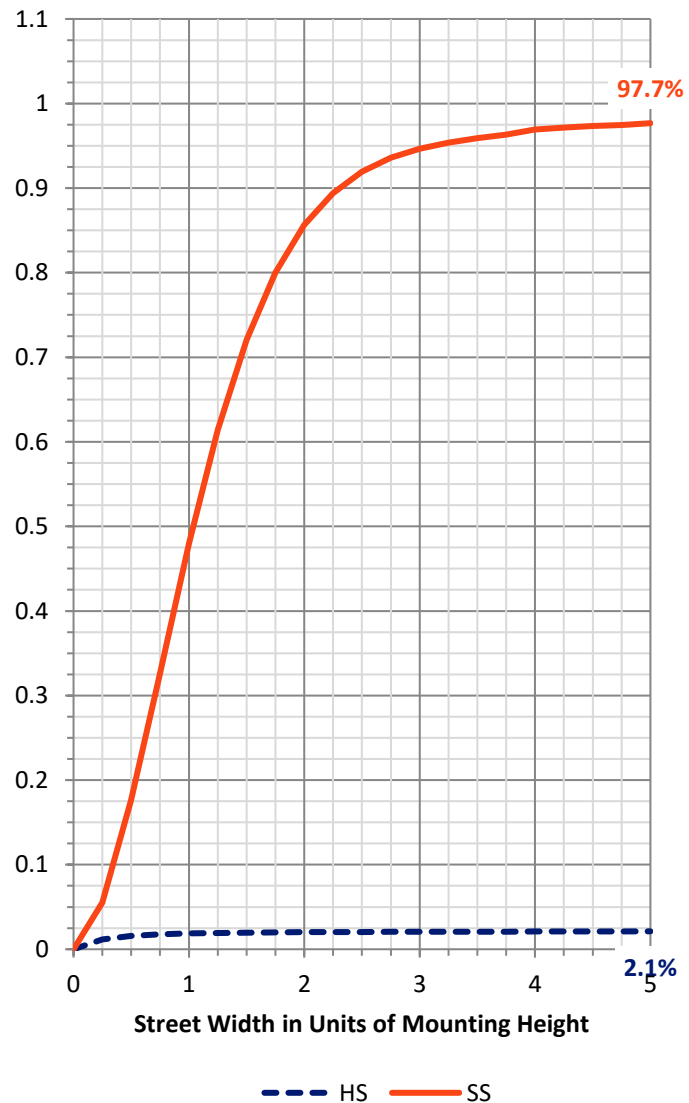
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.7	0.0	51.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2335.4	0.0	2335.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	2387.2	0.0	2387.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.3
10°-20°	34.2	1.4
20°-30°	73.8	3.1
30°-40°	157.5	6.6
40°-50°	348.4	14.6
50°-60°	590.4	24.7
60°-70°	787.8	33.0
70°-80°	347.0	14.5
80°-90°	40.0	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°	2387.2	100.0
0°-180°	2387.2	100.0

Coefficient of Utilization



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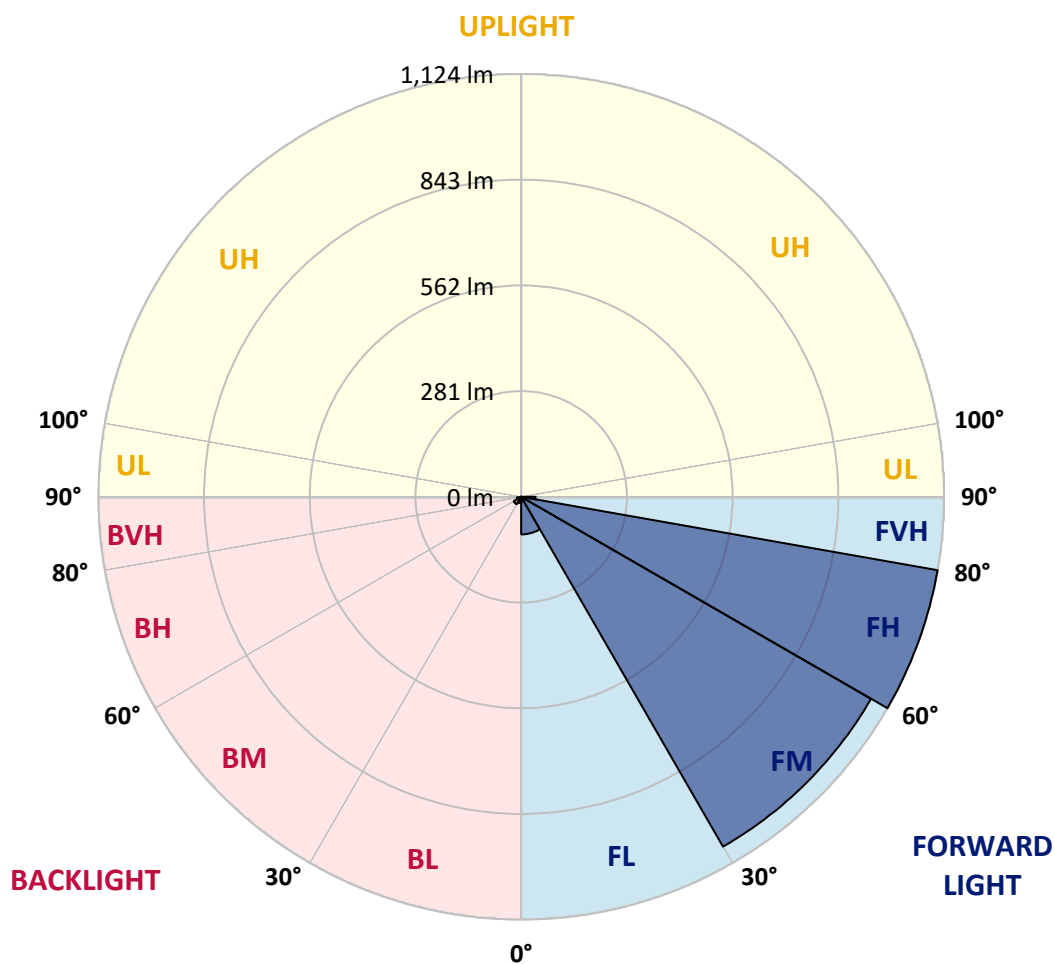
CATALOG NUMBER: VST-F02-LED-E-U-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.7	4.2			
FM	(30°-60°)	1073.6	45.0			
FH	(60°-80°)	1123.8	47.1			G1/1800
FVH	(80°-90°)	38.4	1.6			G1/100
BL	(0°-30°)	16.3	0.7	B0/110		
BM	(30°-60°)	22.7	1.0	B0/220		
BH	(60°-80°)	11.1	0.5	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	90.9	90.4	88.6	88.6	85.8	84.0	81.7	79.4	79.4	78.9	78.5
5°	120.2	117.5	117.0	112.0	107.9	101.9	96.4	89.0	88.1	87.2	86.7
7.5°	152.8	152.3	148.3	142.3	134.0	123.0	112.0	100.1	98.2	97.3	95.5
10°	195.1	192.7	187.3	177.1	164.8	150.1	132.2	113.3	111.1	109.2	108.3
12.5°	235.4	231.3	228.1	215.2	199.6	178.1	156.5	129.4	127.6	125.3	121.6
15°	273.1	269.4	263.9	252.9	235.4	208.4	183.1	150.1	145.5	142.3	139.5
17.5°	302.5	300.2	293.7	281.3	262.5	238.6	208.4	171.2	167.5	163.4	158.3
20°	330.4	327.2	317.1	300.2	280.0	261.6	238.2	198.7	193.7	188.6	183.1
22.5°	357.1	353.8	337.3	309.3	287.8	280.0	271.7	229.9	222.1	218.0	212.5
25°	394.3	387.4	361.6	317.1	288.2	294.2	308.4	270.3	263.0	257.0	248.3
27.5°	444.2	435.1	394.7	328.6	290.0	309.8	350.6	319.4	311.6	304.7	295.1
30°	500.7	494.8	446.6	356.2	303.4	332.8	397.9	381.8	372.7	364.4	352.9
32.5°	557.6	549.4	501.6	408.5	339.1	377.2	457.1	454.4	442.4	434.6	422.2
35°	607.6	603.5	568.2	494.3	420.8	455.3	536.0	539.2	528.7	520.4	506.6
37.5°	641.6	641.6	634.7	586.5	550.7	576.4	652.1	652.6	642.1	623.2	616.4
40°	659.0	664.1	688.9	698.0	696.2	729.2	804.5	796.3	787.6	777.9	755.0
42.5°	694.9	699.4	752.2	815.5	856.9	900.4	952.3	949.6	939.0	921.5	900.4
45°	755.4	761.4	824.3	924.8	1009.7	1071.7	1104.7	1091.8	1081.3	1064.8	1053.7
47.5°	832.5	844.0	915.1	1039.5	1141.9	1244.2	1278.6	1244.6	1235.5	1222.6	1204.7
50°	914.7	925.7	1001.4	1143.7	1259.3	1381.4	1438.8	1381.4	1368.1	1364.0	1343.8
52.5°	985.8	995.0	1067.9	1224.0	1349.3	1492.4	1576.0	1500.2	1490.6	1476.8	1462.1
55°	1028.0	1035.4	1103.8	1262.5	1410.4	1592.5	1708.6	1642.1	1627.9	1622.3	1601.2
57.5°	1042.3	1049.6	1111.1	1267.6	1443.4	1683.8	1869.7	1872.0	1855.0	1835.3	1828.9
60°	1042.3	1050.5	1102.4	1255.2	1475.5	1781.2	2084.5	2275.9	2239.1	2235.5	2212.1
62.5°	999.1	1006.9	1059.2	1217.1	1518.7	1912.4	2383.7	2721.5	2711.0	2687.1	2648.5
65°	905.5	910.1	961.4	1119.8	1502.1	2033.1	2643.0	3018.0	3001.0	2954.2	2904.7
66°	863.3	866.9	915.1	1064.3	1448.0	2049.6	2688.9	3055.1	3027.2	2987.7	2931.7
67.5°	802.2	808.7	842.6	961.0	1318.1	1992.2	2660.0	3029.0	3004.7	2956.9	2900.9
70°	535.6	531.0	650.8	737.5	1004.2	1623.3	2386.5	2719.7	2720.2	2697.7	2675.2
72.5°	254.3	257.0	291.9	453.9	657.2	1084.5	1899.5	2170.8	2202.0	2161.6	2133.6
75°	182.6	186.8	207.9	277.7	391.9	650.8	1231.3	1518.2	1519.1	1447.5	1383.7
77.5°	53.2	55.6	78.0	171.2	293.7	439.2	707.2	844.0	824.3	772.9	724.7
80°	22.0	22.0	22.9	54.6	118.0	298.3	494.8	649.9	647.6	627.8	599.4
82.5°	8.2	8.7	11.0	22.5	28.0	73.4	330.0	564.1	562.7	534.7	514.4
85°	0.9	0.9	2.8	9.7	10.6	13.7	66.1	248.8	247.4	248.8	218.0
87.5°	0.0	0.0	0.4	0.9	1.4	1.9	2.8	9.7	10.6	10.1	9.2
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°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	78.5	77.6	77.6	77.1	77.1	77.1	76.6	76.2	76.2	75.7	75.3
5°	85.8	84.9	84.4	83.5	83.1	82.6	81.7	81.2	80.3	79.9	79.4
7.5°	94.6	92.7	92.2	90.9	89.5	88.6	87.7	86.3	85.4	83.5	83.1
10°	105.5	103.3	101.4	99.6	98.2	95.9	94.6	92.7	90.9	89.5	88.1
12.5°	119.8	116.6	113.8	112.0	108.8	106.0	103.3	101.9	98.2	96.4	94.1
15°	135.4	131.7	128.5	124.8	122.5	118.0	114.2	110.2	108.3	105.1	101.4
17.5°	155.6	149.6	144.5	140.9	136.3	131.7	127.6	123.5	118.0	114.2	109.7
20°	177.1	172.1	165.2	158.8	153.3	147.8	141.8	136.3	131.3	125.3	119.8
22.5°	204.7	197.3	189.1	182.6	175.3	169.4	161.1	153.8	145.5	137.7	131.3
25°	239.6	229.9	222.1	212.9	204.2	195.1	184.9	175.8	165.2	157.9	146.9
27.5°	282.7	273.5	263.0	251.0	242.3	228.5	215.2	203.8	191.4	179.9	167.5
30°	337.8	324.5	313.4	302.0	284.5	271.2	255.6	240.1	223.0	211.6	192.7
32.5°	403.9	389.6	373.1	356.6	340.6	321.7	302.5	283.1	264.4	243.2	224.0
35°	484.6	467.6	448.9	430.9	406.1	386.0	361.6	335.0	313.9	289.6	265.3
37.5°	591.6	563.6	547.0	528.2	494.8	467.2	440.1	413.5	376.3	350.6	316.2
40°	725.6	709.1	682.0	651.7	621.4	585.1	548.5	513.1	470.0	434.2	394.3
42.5°	883.0	858.7	831.1	787.6	756.8	714.1	672.4	625.5	572.8	526.9	480.1
45°	1030.8	1001.9	980.8	937.1	905.0	854.5	804.1	754.5	693.4	634.3	580.1
47.5°	1190.5	1166.6	1131.7	1096.4	1063.9	1006.9	952.3	892.2	827.9	757.7	687.5
50°	1330.9	1312.1	1288.3	1245.5	1209.3	1161.5	1097.3	1031.7	950.5	880.7	800.9
52.5°	1450.3	1435.6	1402.1	1371.8	1339.2	1294.2	1236.8	1174.0	1086.3	1009.7	918.8
55°	1591.1	1580.6	1551.2	1532.4	1503.5	1460.3	1406.6	1348.4	1255.7	1172.2	1069.3
57.5°	1822.0	1813.7	1788.0	1780.2	1751.8	1714.1	1648.1	1585.6	1477.3	1373.6	1256.2
60°	2204.3	2187.8	2150.1	2130.8	2070.7	2020.3	1934.5	1848.6	1717.8	1585.6	1444.3
62.5°	2613.7	2567.3	2495.7	2434.2	2348.9	2261.2	2146.4	2015.2	1861.9	1705.0	1542.5
65°	2834.4	2755.5	2665.1	2567.3	2456.7	2327.8	2183.2	2025.8	1861.0	1695.3	1523.7
66°	2859.7	2770.6	2674.7	2566.0	2443.0	2305.7	2158.9	1993.6	1822.4	1660.9	1489.3
67.5°	2828.0	2734.8	2633.4	2512.7	2379.6	2237.3	2083.1	1911.5	1746.7	1582.9	1415.8
70°	2606.3	2513.6	2423.2	2296.1	2154.2	2011.1	1865.2	1673.3	1517.3	1366.7	1218.1
72.5°	2081.3	2018.4	1928.9	1820.2	1682.0	1514.0	1392.4	1220.8	1085.4	939.5	824.3
75°	1300.6	1212.1	1101.5	962.9	857.3	721.0	649.9	519.5	442.4	374.9	309.8
77.5°	665.0	598.4	520.9	442.9	368.1	293.7	227.2	160.6	108.3	75.3	56.0
80°	549.4	490.6	426.4	355.2	289.1	224.5	161.6	110.2	70.3	45.9	35.8
82.5°	453.9	404.3	346.9	280.9	223.5	176.2	122.5	79.9	49.6	32.2	25.3
85°	193.2	175.3	135.4	107.4	80.8	59.6	41.8	28.0	19.7	16.1	14.7
87.5°	8.2	9.2	8.7	6.9	5.0	5.0	4.6	3.7	3.7	3.7	3.7
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
2.5°	75.3	74.8	74.3	74.3	73.9	73.4	70.7	68.4	65.6	63.8	62.0
5°	78.5	78.0	77.1	76.6	75.7	75.3	69.3	64.3	60.1	56.9	54.6
7.5°	81.7	81.2	79.9	78.5	78.0	77.1	67.5	61.0	55.6	51.8	49.6
10°	85.8	84.4	83.1	81.2	79.9	78.5	65.6	57.4	51.4	48.2	45.9
12.5°	91.8	89.5	87.2	84.9	83.1	80.8	64.7	54.2	48.2	44.5	42.2
15°	98.7	95.5	92.7	89.9	86.7	84.4	62.9	51.4	45.4	41.8	39.0
17.5°	105.1	101.4	97.3	93.2	89.9	86.7	61.0	48.7	42.7	39.0	36.2
20°	114.2	108.8	103.7	98.7	94.1	89.9	58.3	45.9	40.4	36.2	33.5
22.5°	124.4	118.0	111.5	104.6	98.7	93.2	56.0	43.6	38.1	34.0	30.7
25°	137.2	129.4	120.7	112.0	105.1	97.7	53.7	41.3	35.8	31.7	28.4
27.5°	155.1	144.1	134.5	123.5	112.9	104.6	51.8	39.5	33.5	29.4	26.2
30°	179.5	163.4	148.3	136.3	123.9	112.0	50.0	37.2	31.7	27.1	23.4
32.5°	206.5	187.7	170.3	152.3	136.7	123.0	48.2	35.3	29.4	24.8	21.6
35°	240.1	216.2	192.7	172.1	153.3	134.9	46.3	33.5	27.5	22.5	19.3
37.5°	288.2	258.4	227.6	201.0	176.7	152.3	45.0	31.7	25.3	20.2	17.0
40°	354.3	315.8	278.1	241.9	210.2	179.9	43.1	29.8	23.4	18.4	15.1
42.5°	425.9	379.1	329.5	288.7	245.1	207.0	41.3	28.0	21.6	16.5	13.3
45°	514.9	456.7	396.5	341.0	287.8	238.6	39.5	26.2	19.3	14.7	11.5
47.5°	612.2	537.9	470.0	400.2	336.8	278.1	37.2	24.8	17.5	12.8	10.1
50°	712.3	633.8	548.0	468.5	393.3	317.6	34.9	22.5	15.6	11.5	8.2
52.5°	820.1	727.4	639.8	541.1	453.4	369.4	32.6	20.6	14.2	10.1	6.9
55°	957.4	853.6	750.8	640.2	534.7	429.6	30.3	18.4	12.4	8.7	5.5
57.5°	1129.9	1006.9	880.7	755.9	627.8	508.5	28.4	16.1	10.6	7.3	4.6
60°	1292.8	1149.2	996.4	852.7	708.1	569.1	25.7	14.2	9.2	5.9	4.6
62.5°	1377.3	1213.4	1048.7	890.3	736.1	590.6	22.9	11.9	7.8	5.0	4.1
65°	1356.6	1189.6	1029.8	870.1	719.2	576.9	20.2	10.6	6.9	4.6	4.1
66°	1326.8	1161.5	1001.0	849.1	704.9	562.2	18.8	10.1	6.4	4.6	3.7
67.5°	1261.6	1101.9	948.6	807.2	665.9	534.2	17.0	9.2	5.9	4.1	3.7
70°	1077.6	932.6	810.0	684.3	569.1	450.2	13.7	7.8	5.0	3.7	3.7
72.5°	713.2	614.5	532.9	458.5	383.2	297.4	11.5	6.4	4.1	3.7	3.2
75°	268.9	243.2	208.8	187.7	163.9	143.6	9.2	4.1	3.2	3.2	3.2
77.5°	47.8	44.0	39.0	35.8	33.1	30.3	7.3	2.8	2.8	3.2	3.2
80°	32.2	29.8	27.1	24.8	22.9	20.6	5.0	2.3	2.8	2.8	3.2
82.5°	22.9	21.6	20.2	18.4	17.0	15.1	3.2	2.3	2.8	2.8	2.8
85°	13.7	12.8	11.9	11.0	9.7	9.2	2.3	2.3	2.3	2.8	2.8
87.5°	3.7	3.2	3.7	3.7	2.8	3.2	1.9	1.9	1.9	2.3	2.3
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):

	145°	155°	165°	175°	180°
0°	72.1	72.1	72.1	72.1	72.1
2.5°	61.0	61.0	60.1	61.5	61.5
5°	52.8	52.8	52.3	52.8	52.8
7.5°	48.2	47.8	47.8	47.8	48.2
10°	44.0	43.6	43.6	43.6	43.6
12.5°	40.4	40.0	39.5	40.0	40.0
15°	37.2	36.2	36.2	36.2	36.2
17.5°	34.4	33.5	33.1	33.1	33.1
20°	31.7	30.3	30.3	30.3	30.3
22.5°	28.9	27.5	27.5	27.5	27.5
25°	26.2	24.8	24.8	24.8	24.8
27.5°	23.9	22.5	22.5	22.5	22.5
30°	21.1	20.2	20.2	20.6	20.2
32.5°	19.3	17.9	17.9	18.4	18.4
35°	17.0	16.1	16.1	16.1	16.1
37.5°	14.7	13.7	13.7	13.7	13.7
40°	12.8	11.9	11.5	11.9	11.9
42.5°	11.0	10.1	9.7	9.7	9.7
45°	9.7	8.2	7.8	8.2	8.2
47.5°	7.8	6.9	6.9	7.3	7.3
50°	5.9	5.9	6.4	7.3	7.3
52.5°	5.5	5.5	6.4	7.3	7.3
55°	5.0	5.5	6.4	6.9	7.3
57.5°	4.6	5.5	6.4	6.9	6.9
60°	4.6	5.0	5.9	6.9	6.9
62.5°	4.1	4.6	5.5	6.4	6.4
65°	4.1	4.6	5.5	6.4	6.4
66°	4.1	4.6	5.5	6.4	6.4
67.5°	4.1	4.6	5.5	6.4	6.4
70°	4.1	4.6	5.5	5.9	5.9
72.5°	3.7	4.1	5.0	5.9	5.9
75°	3.7	4.1	5.0	5.9	5.9
77.5°	3.7	4.1	5.0	5.9	5.9
80°	3.7	4.1	5.0	5.5	5.9
82.5°	3.2	4.1	4.6	5.5	5.5
85°	3.2	3.7	4.6	5.0	5.5
87.5°	2.8	3.2	3.7	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)