

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: INVUE

Report Number: P150445

Luminaire Tested: **VXS-F02-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150445
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F02-LED-E1-SL3-HSS
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2862.6 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
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: 25 FT



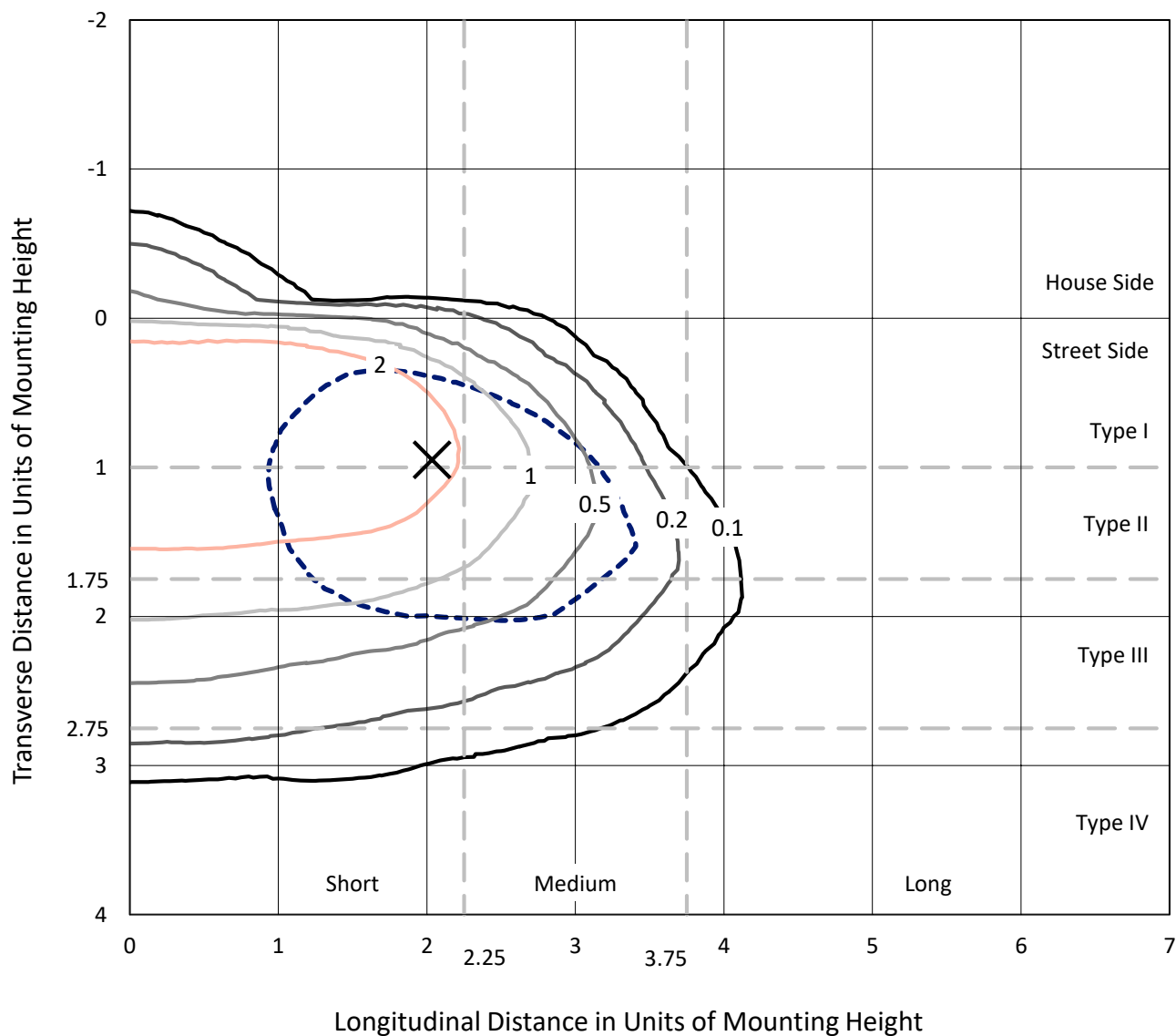
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

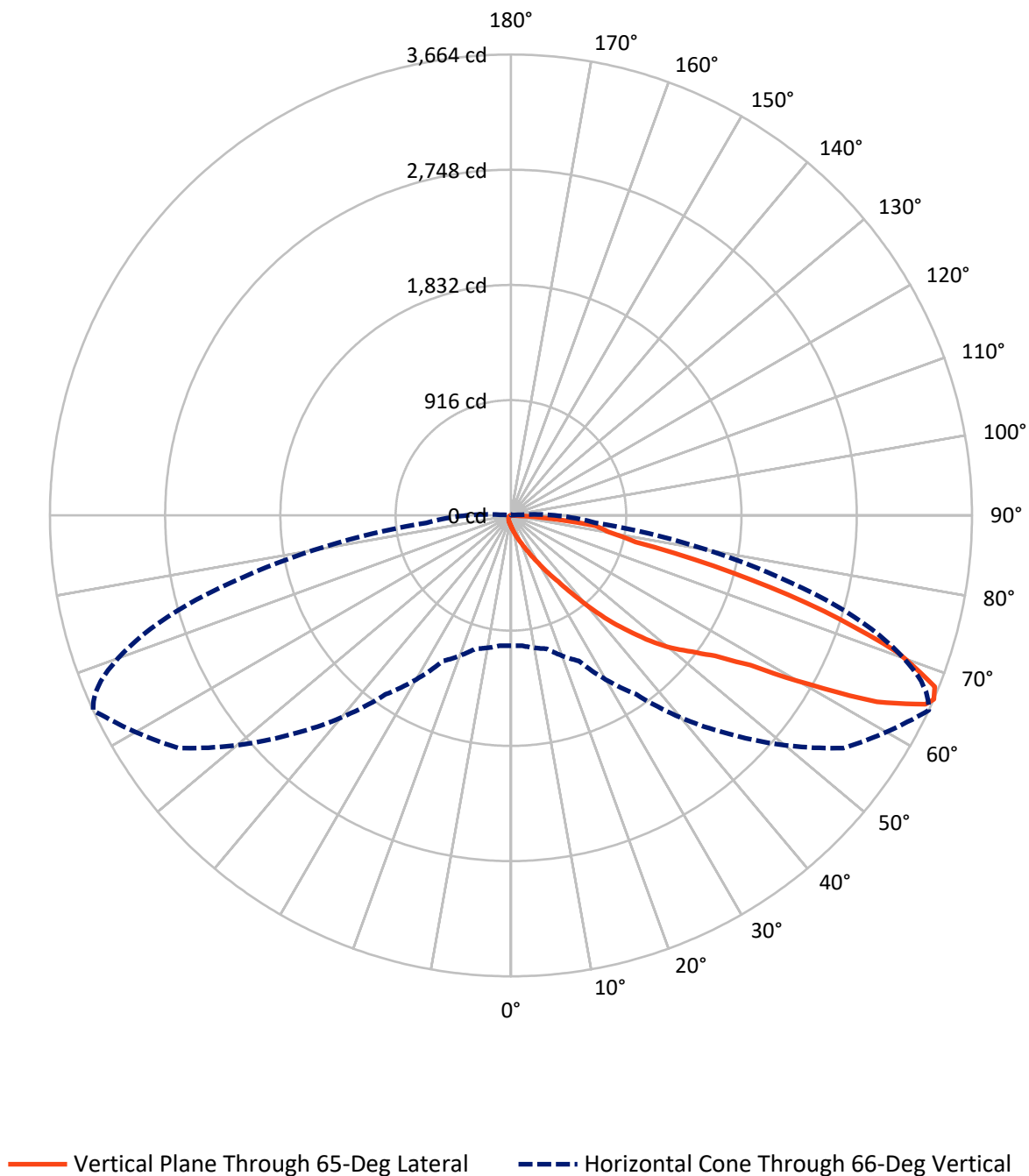


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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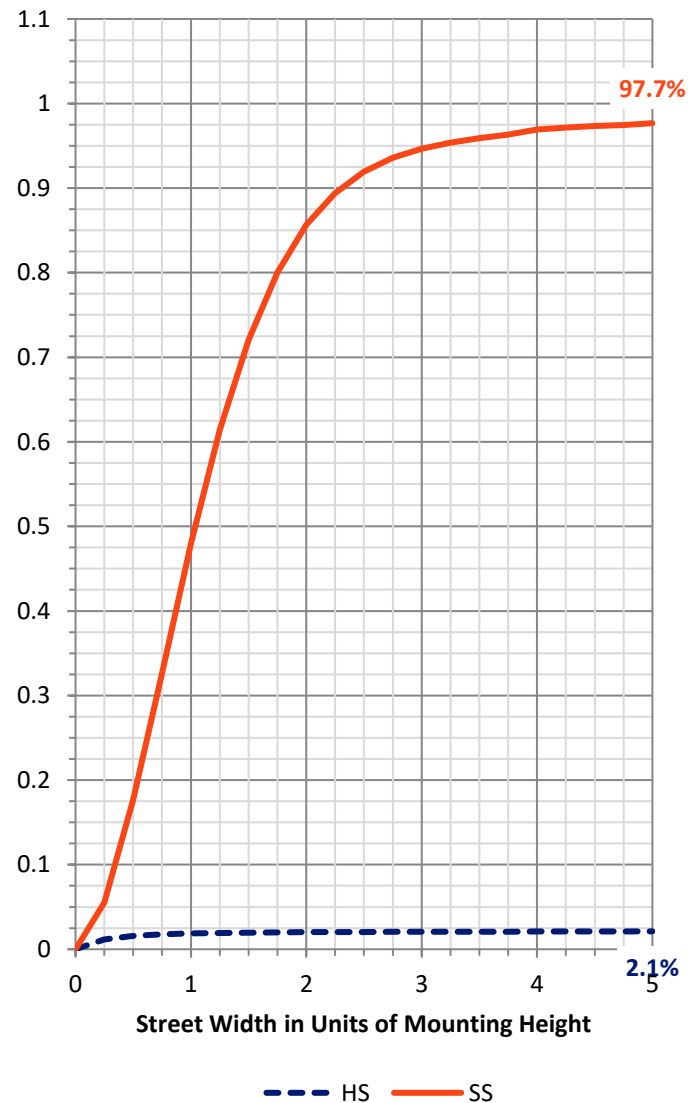
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	62.0	0.0	62.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2800.6	0.0	2800.6
	% Fixture	97.8	0.0	97.8
Total	Lumens	2862.6	0.0	2862.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.3
10°-20°	41.0	1.4
20°-30°	88.5	3.1
30°-40°	188.9	6.6
40°-50°	417.8	14.6
50°-60°	708.0	24.7
60°-70°	944.7	33.0
70°-80°	416.1	14.5
80°-90°	47.9	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°	2862.6	100.0
0°-180°	2862.6	100.0

Coefficient of Utilization



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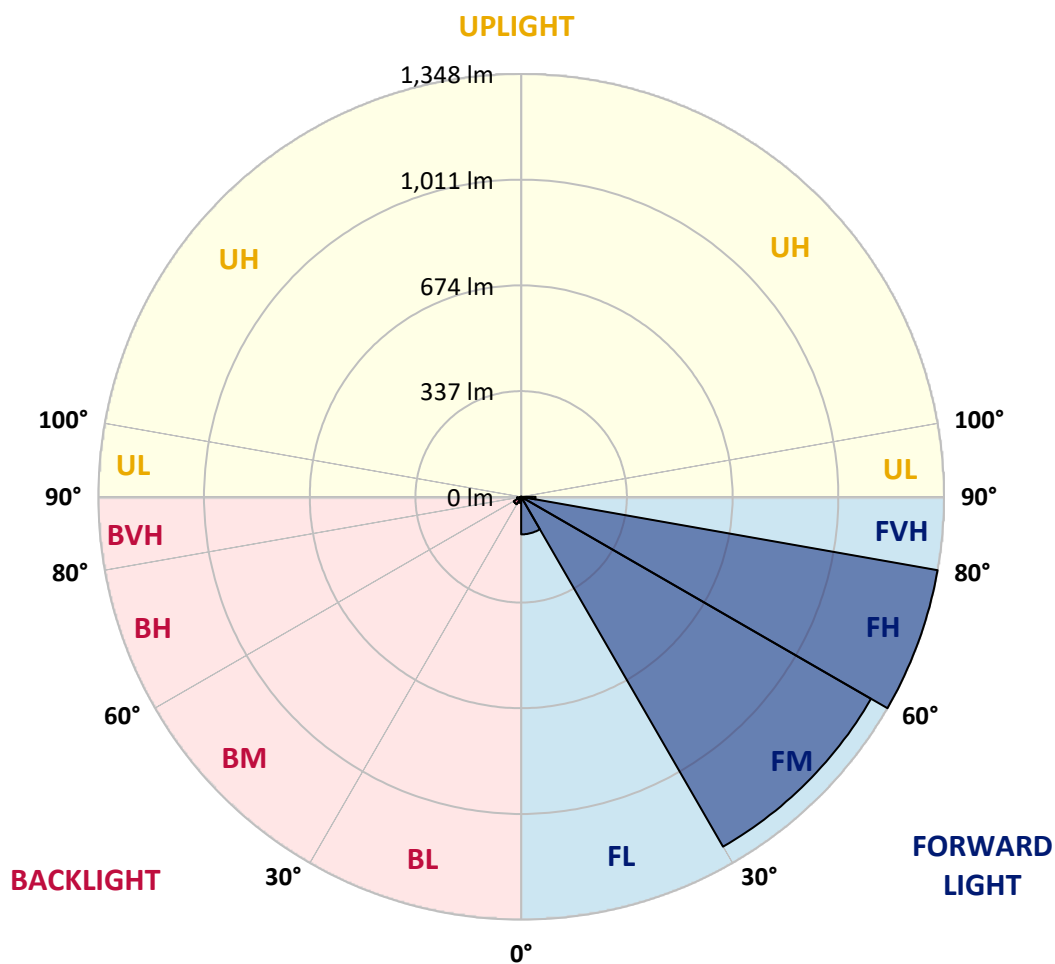
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.6	4.2			
FM	(30°-60°)	1287.4	45.0			
FH	(60°-80°)	1347.6	47.1			G1/1800
FVH	(80°-90°)	46.0	1.6			G1/100
BL	(0°-30°)	19.6	0.7	B0/110		
BM	(30°-60°)	27.2	1.0	B0/220		
BH	(60°-80°)	13.3	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°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	109.0	108.4	106.2	106.2	102.9	100.7	97.9	95.2	95.2	94.6	94.1
5°	144.1	140.9	140.3	134.3	129.3	122.2	115.5	106.7	105.7	104.6	104.0
7.5°	183.3	182.7	177.7	170.6	160.7	147.5	134.3	120.0	117.8	116.7	114.5
10°	233.9	231.2	224.6	212.4	197.6	180.0	158.5	136.0	133.2	131.0	129.8
12.5°	282.3	277.4	273.6	258.1	239.4	213.6	187.7	155.2	153.0	150.3	145.8
15°	327.5	323.0	316.5	303.2	282.3	249.8	219.6	180.0	174.5	170.6	167.4
17.5°	362.7	359.9	352.2	337.4	314.8	286.2	249.8	205.3	200.8	196.0	189.8
20°	396.3	392.4	380.3	359.9	335.8	313.7	285.6	238.3	232.2	226.2	219.6
22.5°	428.2	424.4	404.5	371.0	345.1	335.8	325.8	275.8	266.3	261.5	254.8
25°	472.7	464.5	433.7	380.3	345.6	352.7	369.8	324.1	315.3	308.2	297.7
27.5°	532.7	521.8	473.3	394.1	347.8	371.5	420.5	383.0	373.7	365.4	353.9
30°	600.4	593.3	535.4	427.0	363.7	399.0	477.2	457.9	446.8	437.0	423.2
32.5°	668.7	658.8	601.6	489.8	406.7	452.4	548.2	544.9	530.6	521.1	506.3
35°	728.7	723.7	681.3	592.7	504.7	545.9	642.8	646.6	634.0	624.1	607.6
37.5°	769.4	769.4	761.1	703.3	660.4	691.2	782.1	782.6	769.9	747.4	739.2
40°	790.3	796.4	826.1	837.1	834.9	874.5	964.8	954.8	944.4	932.8	905.3
42.5°	833.3	838.8	902.1	977.9	1027.5	1079.8	1142.0	1138.7	1126.0	1105.1	1079.8
45°	905.9	913.1	988.4	1108.9	1210.8	1285.1	1324.7	1309.3	1296.6	1276.8	1263.6
47.5°	998.3	1012.1	1097.4	1246.5	1369.2	1492.0	1533.3	1492.5	1481.6	1466.1	1444.7
50°	1096.9	1110.1	1200.8	1371.5	1510.2	1656.6	1725.4	1656.6	1640.6	1635.6	1611.4
52.5°	1182.2	1193.2	1280.6	1467.8	1618.0	1789.7	1889.9	1799.1	1787.6	1771.0	1753.4
55°	1232.7	1241.6	1323.6	1514.0	1691.2	1909.7	2048.9	1969.1	1952.1	1945.5	1920.2
57.5°	1249.8	1258.7	1332.4	1520.1	1730.9	2019.3	2242.2	2244.9	2224.6	2200.8	2193.2
60°	1249.8	1259.8	1322.0	1505.2	1769.3	2136.0	2499.7	2729.2	2685.2	2680.7	2652.6
62.5°	1198.1	1207.5	1270.3	1459.5	1821.1	2293.3	2858.5	3263.6	3250.9	3222.3	3176.1
65°	1085.8	1091.3	1153.0	1342.9	1801.3	2438.0	3169.4	3619.1	3598.8	3542.6	3483.2
66°	1035.2	1039.6	1097.4	1276.3	1736.4	2457.8	3224.5	3663.7	3630.2	3582.8	3515.6
67.5°	962.0	969.7	1010.5	1152.4	1580.6	2389.1	3189.8	3632.3	3603.1	3545.9	3478.8
70°	642.3	636.8	780.4	884.5	1204.1	1946.6	2861.9	3261.3	3262.0	3234.9	3208.0
72.5°	304.9	308.2	350.1	544.2	788.1	1300.5	2277.9	2603.1	2640.6	2592.1	2558.5
75°	219.1	224.0	249.3	333.0	469.9	780.4	1476.6	1820.5	1821.7	1735.9	1659.3
77.5°	63.8	66.6	93.6	205.3	352.2	526.7	848.1	1012.1	988.4	926.8	869.0
80°	26.4	26.4	27.6	65.5	141.5	357.7	593.3	779.3	776.6	752.8	718.8
82.5°	9.9	10.5	13.2	26.9	33.6	88.1	395.8	676.4	674.7	641.1	616.9
85°	1.1	1.1	3.3	11.6	12.6	16.5	79.3	298.2	296.7	298.2	261.5
87.5°	0.0	0.0	0.5	1.1	1.7	2.2	3.3	11.6	12.6	12.1	11.0
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	94.1	93.1	93.1	92.4	92.4	92.4	91.9	91.4	91.4	90.8	90.3
5°	102.9	101.9	101.2	100.2	99.6	99.1	97.9	97.4	96.3	95.8	95.2
7.5°	113.4	111.2	110.6	109.0	107.4	106.2	105.1	103.4	102.4	100.2	99.6
10°	126.6	123.8	121.7	119.4	117.8	115.0	113.4	111.2	109.0	107.4	105.7
12.5°	143.6	139.8	136.5	134.3	130.5	127.2	123.8	122.2	117.8	115.5	112.8
15°	162.4	157.9	154.1	149.7	146.9	141.5	137.0	132.1	129.8	126.0	121.7
17.5°	186.5	179.4	173.4	168.9	163.4	157.9	153.0	148.1	141.5	137.0	131.5
20°	212.4	206.4	198.1	190.5	183.8	177.2	170.1	163.4	157.4	150.3	143.6
22.5°	245.5	236.7	226.7	219.1	210.3	203.1	193.2	184.4	174.5	165.1	157.4
25°	287.3	275.8	266.3	255.3	244.9	233.9	221.8	210.8	198.1	189.3	176.1
27.5°	339.1	328.0	315.3	301.0	290.6	274.1	258.1	244.4	229.5	215.8	200.8
30°	405.1	389.1	375.9	362.2	341.2	325.3	306.5	287.9	267.5	253.7	231.2
32.5°	484.4	467.3	447.5	427.7	408.4	385.8	362.7	339.6	317.0	291.7	268.6
35°	581.1	560.8	538.2	516.8	487.0	462.8	433.7	401.8	376.5	347.3	318.1
37.5°	709.4	675.9	656.1	633.5	593.3	560.2	527.8	495.9	451.3	420.5	379.2
40°	870.1	850.3	817.8	781.5	745.2	701.7	657.6	615.3	563.5	520.6	472.7
42.5°	1058.9	1029.7	996.7	944.4	907.6	856.4	806.2	750.2	686.8	631.8	575.6
45°	1236.1	1201.5	1176.1	1123.8	1085.3	1024.8	964.2	904.8	831.6	760.6	695.6
47.5°	1427.6	1399.0	1357.2	1314.8	1275.8	1207.5	1142.0	1069.8	992.8	908.6	824.5
50°	1596.1	1573.5	1544.9	1493.7	1450.2	1393.0	1315.9	1237.2	1139.8	1056.2	960.3
52.5°	1739.1	1721.5	1681.3	1645.0	1605.9	1552.0	1483.2	1407.8	1302.7	1210.8	1101.8
55°	1908.1	1895.4	1860.2	1837.6	1802.9	1751.2	1686.8	1616.9	1505.8	1405.6	1282.3
57.5°	2184.9	2175.0	2144.1	2134.8	2100.7	2055.5	1976.3	1901.5	1771.6	1647.2	1506.3
60°	2643.3	2623.5	2578.3	2555.2	2483.2	2422.6	2319.7	2216.8	2060.0	1901.5	1731.9
62.5°	3134.2	3078.7	2992.8	2919.1	2816.7	2711.6	2574.0	2416.6	2232.7	2044.6	1849.7
65°	3399.0	3304.4	3195.9	3078.7	2946.0	2791.4	2618.0	2429.2	2231.7	2033.0	1827.2
66°	3429.2	3322.5	3207.5	3077.0	2929.5	2765.0	2588.8	2390.7	2185.4	1991.7	1785.9
67.5°	3391.3	3279.6	3157.9	3013.2	2853.6	2683.0	2498.0	2292.2	2094.6	1898.1	1697.8
70°	3125.4	3014.3	2905.8	2753.4	2583.3	2411.6	2236.6	2006.5	1819.5	1639.0	1460.6
72.5°	2495.9	2420.4	2313.2	2182.7	2017.0	1815.6	1669.7	1463.9	1301.6	1126.5	988.4
75°	1559.7	1453.5	1320.8	1154.6	1028.1	864.6	779.3	623.0	530.6	449.6	371.5
77.5°	797.4	717.6	624.7	531.1	441.3	352.2	272.4	192.6	129.8	90.3	67.2
80°	658.8	588.3	511.3	426.0	346.7	269.1	193.7	132.1	84.2	55.0	42.9
82.5°	544.2	484.9	416.1	336.8	268.0	211.3	146.9	95.8	59.5	38.5	30.3
85°	231.7	210.3	162.4	128.8	96.9	71.5	50.1	33.6	23.6	19.3	17.6
87.5°	9.9	11.0	10.5	8.3	6.0	6.0	5.5	4.4	4.4	4.4	4.4
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	90.3	89.7	89.1	89.1	88.6	88.1	84.8	82.0	78.7	76.5	74.3
5°	94.1	93.6	92.4	91.9	90.8	90.3	83.1	77.1	72.1	68.3	65.5
7.5°	97.9	97.4	95.8	94.1	93.6	92.4	80.9	73.2	66.6	62.2	59.5
10°	102.9	101.2	99.6	97.4	95.8	94.1	78.7	68.8	61.7	57.8	55.0
12.5°	110.1	107.4	104.6	101.9	99.6	96.9	77.6	65.0	57.8	53.4	50.7
15°	118.3	114.5	111.2	107.9	104.0	101.2	75.4	61.7	54.5	50.1	46.7
17.5°	126.0	121.7	116.7	111.7	107.9	104.0	73.2	58.3	51.2	46.7	43.5
20°	137.0	130.5	124.4	118.3	112.8	107.9	69.8	55.0	48.4	43.5	40.2
22.5°	149.1	141.5	133.8	125.5	118.3	111.7	67.2	52.3	45.7	40.7	36.9
25°	164.6	155.2	144.8	134.3	126.0	117.2	64.4	49.5	42.9	37.9	34.1
27.5°	186.0	172.8	161.2	148.1	135.3	125.5	62.2	47.4	40.2	35.2	31.4
30°	215.2	196.0	177.7	163.4	148.6	134.3	60.0	44.6	37.9	32.4	28.1
32.5°	247.7	225.1	204.1	182.7	164.0	147.5	57.8	42.4	35.2	29.7	25.9
35°	287.9	259.2	231.2	206.4	183.8	161.8	55.5	40.2	33.1	26.9	23.1
37.5°	345.6	309.8	273.0	241.0	211.9	182.7	53.9	37.9	30.3	24.2	20.4
40°	424.9	378.7	333.5	290.1	252.0	215.8	51.7	35.8	28.1	22.0	18.1
42.5°	510.7	454.6	395.1	346.2	293.9	248.2	49.5	33.6	25.9	19.8	16.0
45°	617.5	547.6	475.5	408.9	345.1	286.2	47.4	31.4	23.1	17.6	13.8
47.5°	734.2	645.0	563.5	479.9	403.9	333.5	44.6	29.7	20.9	15.4	12.1
50°	854.1	760.0	657.1	561.9	471.6	380.8	41.9	26.9	18.8	13.8	9.9
52.5°	983.5	872.3	767.2	648.9	543.7	443.0	39.1	24.8	17.1	12.1	8.3
55°	1148.0	1023.6	900.4	767.8	641.1	515.1	36.4	22.0	14.8	10.5	6.6
57.5°	1354.9	1207.5	1056.2	906.4	752.8	609.7	34.1	19.3	12.6	8.8	5.5
60°	1550.4	1378.0	1194.8	1022.6	849.2	682.4	30.8	17.1	11.0	7.2	5.5
62.5°	1651.6	1455.1	1257.5	1067.7	882.8	708.3	27.6	14.3	9.3	6.0	5.0
65°	1626.8	1426.5	1235.0	1043.4	862.4	691.8	24.2	12.6	8.3	5.5	5.0
66°	1591.1	1393.0	1200.3	1018.1	845.4	674.2	22.6	12.1	7.7	5.5	4.4
67.5°	1513.0	1321.3	1137.6	968.1	798.5	640.6	20.4	11.0	7.2	5.0	4.4
70°	1292.2	1118.3	971.4	820.6	682.4	539.9	16.5	9.3	6.0	4.4	4.4
72.5°	855.2	736.9	639.0	549.8	459.6	356.6	13.8	7.7	5.0	4.4	3.8
75°	322.5	291.7	250.4	225.1	196.5	172.2	11.0	5.0	3.8	3.8	3.8
77.5°	57.2	52.8	46.7	42.9	39.6	36.4	8.8	3.3	3.3	3.8	3.8
80°	38.5	35.8	32.4	29.7	27.6	24.8	6.0	2.8	3.3	3.3	3.8
82.5°	27.6	25.9	24.2	22.0	20.4	18.1	3.8	2.8	3.3	3.3	3.3
85°	16.5	15.4	14.3	13.2	11.6	11.0	2.8	2.8	2.8	3.3	3.3
87.5°	4.4	3.8	4.4	4.4	3.3	3.8	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°	86.4	86.4	86.4	86.4	86.4
2.5°	73.2	73.2	72.1	73.8	73.8
5°	63.3	63.3	62.7	63.3	63.3
7.5°	57.8	57.2	57.2	57.2	57.8
10°	52.8	52.3	52.3	52.3	52.3
12.5°	48.4	47.9	47.4	47.9	47.9
15°	44.6	43.5	43.5	43.5	43.5
17.5°	41.2	40.2	39.6	39.6	39.6
20°	37.9	36.4	36.4	36.4	36.4
22.5°	34.7	33.1	33.1	33.1	33.1
25°	31.4	29.7	29.7	29.7	29.7
27.5°	28.6	26.9	26.9	26.9	26.9
30°	25.3	24.2	24.2	24.8	24.2
32.5°	23.1	21.5	21.5	22.0	22.0
35°	20.4	19.3	19.3	19.3	19.3
37.5°	17.6	16.5	16.5	16.5	16.5
40°	15.4	14.3	13.8	14.3	14.3
42.5°	13.2	12.1	11.6	11.6	11.6
45°	11.6	9.9	9.3	9.9	9.9
47.5°	9.3	8.3	8.3	8.8	8.8
50°	7.2	7.2	7.7	8.8	8.8
52.5°	6.6	6.6	7.7	8.8	8.8
55°	6.0	6.6	7.7	8.3	8.8
57.5°	5.5	6.6	7.7	8.3	8.3
60°	5.5	6.0	7.2	8.3	8.3
62.5°	5.0	5.5	6.6	7.7	7.7
65°	5.0	5.5	6.6	7.7	7.7
66°	5.0	5.5	6.6	7.7	7.7
67.5°	5.0	5.5	6.6	7.7	7.7
70°	5.0	5.5	6.6	7.2	7.2
72.5°	4.4	5.0	6.0	7.2	7.2
75°	4.4	5.0	6.0	7.2	7.2
77.5°	4.4	5.0	6.0	7.2	7.2
80°	4.4	5.0	6.0	6.6	7.2
82.5°	3.8	5.0	5.5	6.6	6.6
85°	3.8	4.4	5.5	6.0	6.6
87.5°	3.3	3.8	4.4	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)