

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: P149231

Luminaire Tested: **VXM-E01-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149231
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXM-E01-LED-E1-SL2-HSS-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1881.4 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 24.7
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

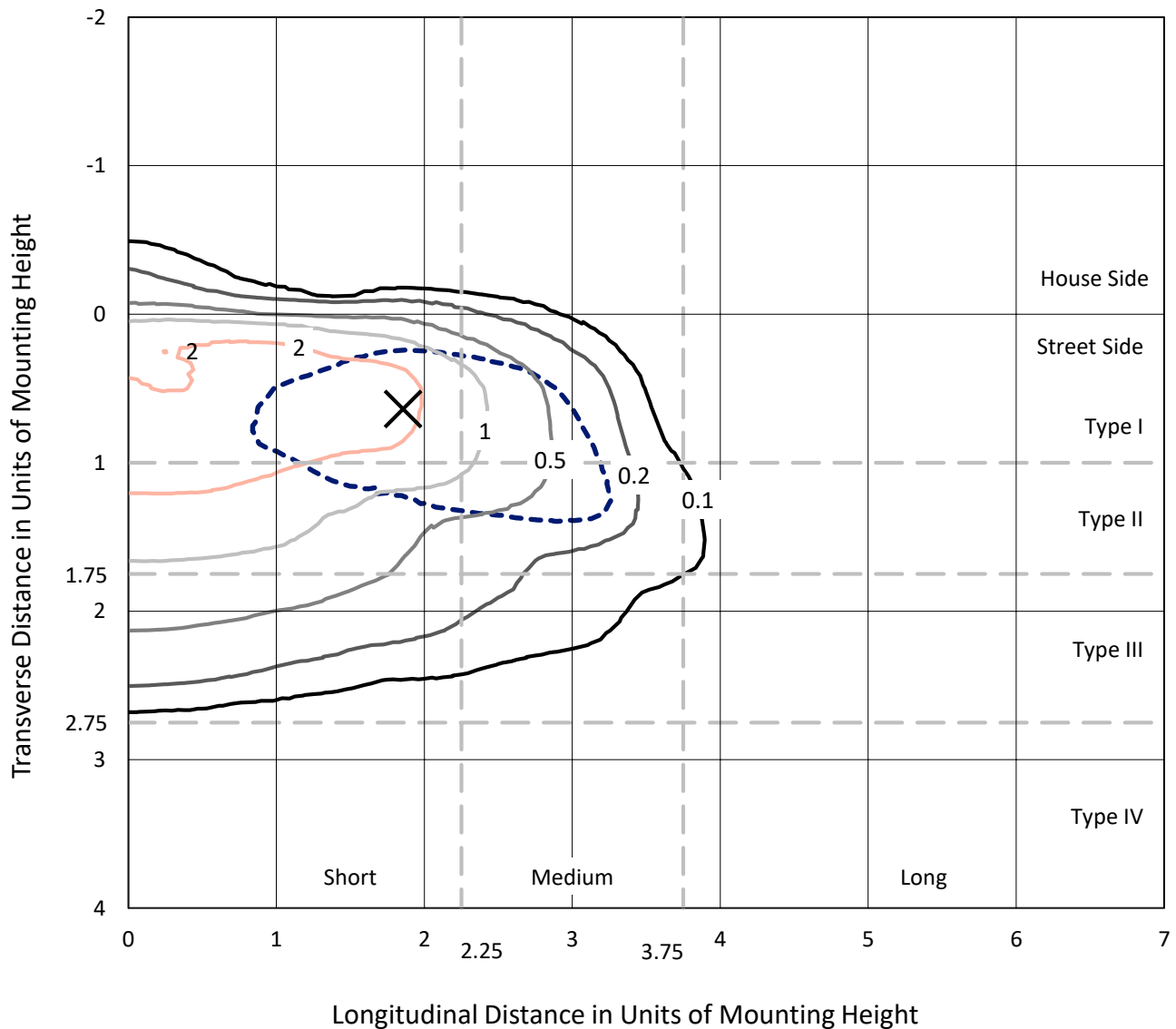


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

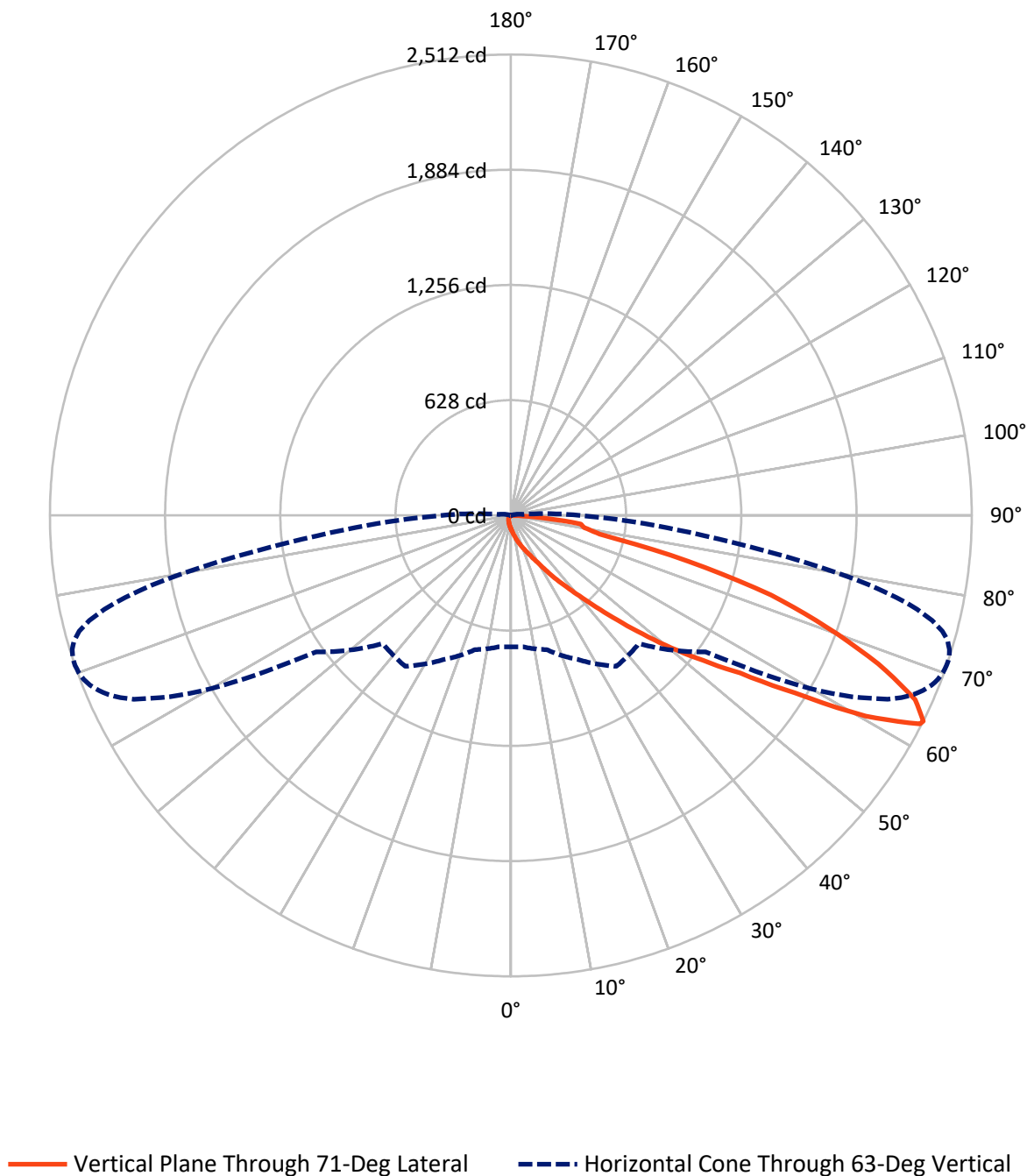


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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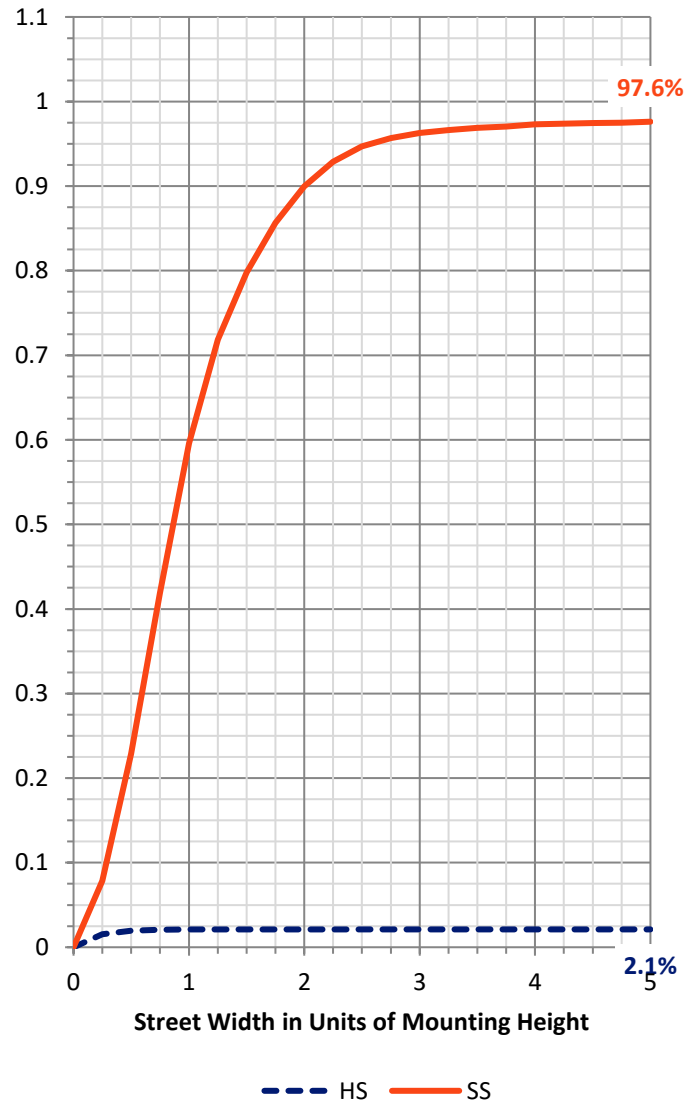
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.9	0.0	39.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	1841.5	0.0	1841.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	1881.4	0.0	1881.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.4
10°-20°	30.9	1.6
20°-30°	62.8	3.3
30°-40°	153.5	8.2
40°-50°	343.3	18.2
50°-60°	482.8	25.7
60°-70°	567.7	30.2
70°-80°	205.0	10.9
80°-90°	27.4	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°	1881.4	100.0
0°-180°	1881.4	100.0

Coefficient of Utilization



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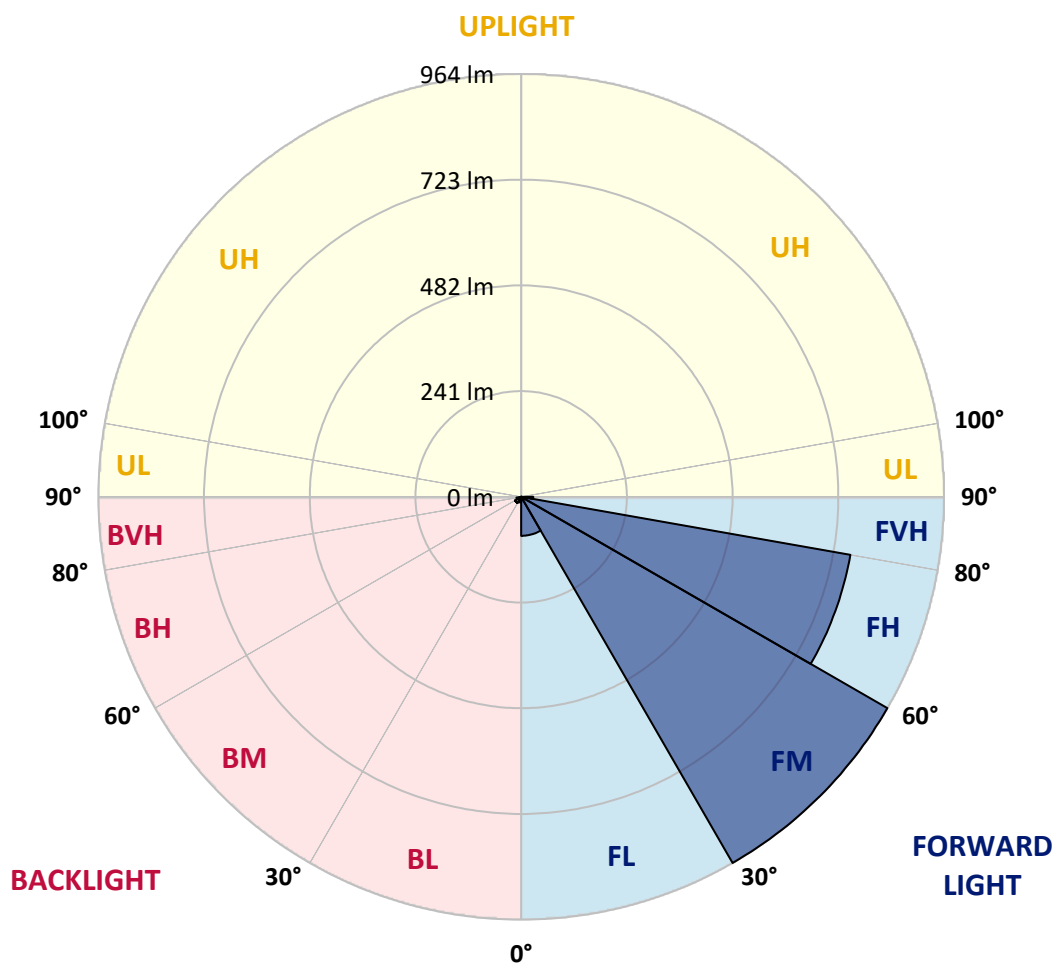
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	88.9	4.7			
FM	(30°-60°)	963.5	51.2			
FH	(60°-80°)	761.7	40.5			G1/1800
FVH	(80°-90°)	27.4	1.5			G1/100
BL	(0°-30°)	12.8	0.7	B0/110		
BM	(30°-60°)	16.1	0.9	B0/220		
BH	(60°-80°)	11.0	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°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	94.4	95.4	94.7	93.0	91.0	88.2	85.9	85.9	85.5	84.5	84.8
5°	123.8	124.2	122.8	118.7	114.9	109.1	102.6	101.9	101.2	100.2	99.9
7.5°	152.5	153.9	152.5	148.1	140.6	131.7	121.4	120.4	118.3	118.3	117.0
10°	182.0	182.0	180.6	175.5	168.6	156.0	143.0	141.3	138.9	138.2	136.1
12.5°	202.8	202.8	202.1	199.4	193.9	182.6	166.9	165.2	162.1	161.1	158.7
15°	211.0	211.0	211.4	213.8	214.1	209.0	192.6	191.2	188.1	185.4	184.4
17.5°	216.2	215.8	215.8	219.2	225.4	228.8	218.2	216.9	213.4	212.1	208.6
20°	227.5	226.8	224.7	224.7	230.5	242.5	242.5	242.2	238.4	237.4	235.7
22.5°	244.2	243.5	237.4	232.2	235.0	250.0	264.1	263.4	262.0	260.6	259.6
25°	271.6	269.2	258.6	243.5	241.1	257.2	280.5	282.2	283.2	283.2	283.9
27.5°	313.0	309.9	291.1	263.0	252.4	268.8	298.6	302.0	305.1	305.8	308.9
30°	370.4	365.0	337.9	296.9	272.6	285.9	325.3	329.0	333.5	334.9	339.6
32.5°	464.8	461.7	435.8	374.2	322.2	319.5	362.6	367.3	373.2	375.6	381.4
35°	608.5	609.2	588.0	532.5	460.7	423.1	429.3	433.4	435.4	442.6	445.7
37.5°	706.0	707.7	712.5	690.6	639.3	601.0	552.7	557.2	546.6	547.6	547.9
40°	759.3	764.8	792.8	814.0	809.9	787.7	749.1	751.5	731.6	727.2	705.6
42.5°	794.9	802.1	846.9	912.5	946.1	966.2	957.4	956.3	940.9	935.1	917.0
45°	817.1	823.6	880.1	976.9	1054.2	1113.0	1137.3	1140.0	1127.0	1121.2	1106.1
47.5°	816.1	823.6	884.2	1000.8	1114.7	1208.8	1277.2	1280.6	1288.4	1283.3	1284.3
50°	770.9	778.1	839.0	960.1	1096.9	1252.5	1377.7	1388.7	1401.3	1409.9	1414.0
52.5°	716.2	721.4	775.4	890.3	1021.0	1234.4	1437.2	1456.0	1474.9	1490.9	1502.2
55°	696.0	701.9	744.3	839.7	960.1	1158.5	1464.9	1492.6	1519.3	1545.7	1567.2
57.5°	706.6	712.1	742.6	815.8	923.8	1078.4	1472.8	1515.9	1559.7	1602.4	1644.8
60°	745.6	751.5	777.4	838.0	914.3	1032.3	1442.0	1513.5	1586.4	1660.9	1731.0
62.5°	730.2	732.6	770.9	877.0	982.7	992.9	1330.2	1430.0	1541.2	1656.1	1769.3
63°	715.5	718.3	757.3	866.4	1003.5	987.1	1295.6	1401.0	1518.3	1642.1	1765.2
65°	648.8	649.2	678.9	765.1	980.3	997.4	1141.7	1242.3	1377.0	1525.5	1681.1
67.5°	484.3	481.9	510.7	576.3	769.6	997.7	979.9	1036.4	1130.1	1261.8	1401.3
70°	171.7	167.9	214.5	305.4	479.5	816.1	842.1	845.9	871.8	943.0	1030.6
72.5°	55.8	56.8	68.4	111.8	221.0	549.3	762.4	750.8	743.9	743.6	755.2
75°	22.2	22.6	27.4	49.6	99.2	264.7	667.7	674.2	676.5	680.0	683.7
77.5°	10.6	11.6	15.4	27.7	49.3	131.0	477.8	532.9	564.4	588.6	603.4
80°	3.8	4.4	8.6	17.1	22.9	60.2	251.7	303.7	349.9	409.4	460.7
82.5°	0.0	0.0	1.7	12.0	12.7	24.3	103.3	121.1	138.5	179.6	230.5
85°	0.0	0.0	0.0	3.4	3.8	4.1	34.9	42.1	47.2	55.1	63.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.1	5.1	7.9
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	84.1	83.8	83.8	83.1	82.8	82.1	81.7	80.7	80.4	80.4	80.4
5°	99.5	98.2	97.5	95.8	94.7	94.4	92.7	92.0	91.0	91.3	89.6
7.5°	116.6	114.2	113.2	110.8	110.1	107.7	107.1	105.3	104.3	102.3	101.6
10°	135.4	132.4	130.7	126.9	125.9	124.2	122.1	120.1	118.3	116.3	115.3
12.5°	157.0	154.3	152.9	147.8	145.4	143.0	140.2	137.5	134.8	133.1	130.7
15°	182.3	177.9	176.5	171.7	167.6	164.5	160.8	157.3	155.3	151.9	149.5
17.5°	207.3	202.8	201.8	194.6	190.2	188.1	184.0	179.6	175.8	172.4	168.6
20°	232.2	229.2	226.4	219.6	214.8	211.4	205.9	201.5	198.4	193.6	188.8
22.5°	257.2	254.1	252.1	244.9	240.5	235.7	230.9	226.1	221.6	215.8	210.4
25°	282.9	280.8	279.8	273.3	269.2	264.7	259.9	254.5	249.0	242.5	236.7
27.5°	309.5	310.2	308.2	306.8	302.4	299.3	291.8	288.0	283.9	276.0	268.8
30°	343.4	345.5	344.8	345.8	343.1	341.0	335.2	330.4	325.6	318.1	309.9
32.5°	386.2	388.9	390.3	394.0	392.7	392.0	390.3	383.4	380.0	367.0	363.6
35°	452.2	450.8	456.6	459.7	458.3	457.6	455.6	451.8	447.7	438.5	429.9
37.5°	538.0	539.4	541.4	535.3	531.2	530.8	524.7	520.9	515.1	504.8	494.6
40°	695.4	686.8	677.2	651.2	639.9	633.4	615.3	610.2	600.3	586.2	575.6
42.5°	899.9	891.3	862.6	819.2	795.9	763.8	749.1	730.9	716.9	694.0	681.7
45°	1103.1	1078.4	1075.0	1024.4	995.7	953.3	926.9	896.5	864.7	834.6	812.7
47.5°	1274.4	1269.0	1252.2	1221.4	1194.7	1159.2	1125.3	1078.4	1045.6	1002.8	963.5
50°	1411.6	1411.2	1405.1	1387.3	1365.1	1336.3	1306.6	1266.9	1229.6	1177.3	1135.2
52.5°	1514.2	1519.7	1521.7	1516.2	1507.7	1482.4	1467.3	1434.2	1402.7	1358.2	1312.7
55°	1589.4	1609.6	1619.9	1631.5	1629.1	1620.2	1619.5	1598.0	1583.6	1548.4	1516.2
57.5°	1682.5	1715.6	1747.5	1803.9	1805.9	1825.8	1836.0	1846.3	1849.0	1835.0	1824.4
60°	1800.8	1868.5	1928.7	2046.7	2077.5	2126.1	2157.6	2191.8	2220.8	2223.2	2222.5
62.5°	1884.3	1988.6	2085.7	2260.9	2320.7	2376.8	2418.9	2452.0	2472.2	2492.8	2502.3
63°	1886.7	2000.9	2104.2	2284.8	2347.7	2401.1	2441.1	2471.9	2493.1	2505.4	2511.6
65°	1828.9	1967.4	2090.5	2270.4	2329.6	2383.3	2404.2	2424.3	2434.6	2439.4	2421.3
67.5°	1550.1	1685.5	1829.2	2030.3	2080.9	2145.2	2162.3	2172.6	2177.4	2176.4	2161.0
70°	1159.2	1272.7	1432.4	1662.3	1729.3	1792.3	1831.3	1848.0	1853.5	1851.8	1828.9
72.5°	809.3	876.0	1007.6	1263.5	1354.8	1435.5	1483.7	1508.7	1513.8	1503.6	1482.4
75°	679.6	683.0	712.8	852.7	938.2	1024.4	1078.8	1094.5	1084.3	1053.1	999.1
77.5°	606.8	614.3	614.3	635.2	651.9	675.9	681.0	642.7	598.2	540.8	494.2
80°	508.9	535.3	553.8	569.1	570.9	566.1	553.4	531.9	497.7	453.9	405.3
82.5°	309.2	361.2	382.4	461.7	500.7	527.1	525.0	496.3	470.3	424.8	383.4
85°	78.0	84.1	91.3	118.7	133.1	162.5	180.9	189.5	192.6	176.8	160.1
87.5°	7.5	5.1	8.6	6.5	9.2	6.8	9.2	8.6	10.6	11.3	12.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	79.7	79.4	79.0	78.7	78.3	78.0	77.3	77.3	76.6	76.3	75.9
5°	88.6	87.9	87.6	86.9	85.9	85.2	84.1	82.8	81.7	81.4	80.7
7.5°	99.9	98.2	97.5	96.5	95.1	93.0	91.7	90.6	88.9	87.9	85.9
10°	112.5	110.8	108.8	106.7	104.7	102.3	100.6	99.2	96.5	95.1	92.7
12.5°	128.6	125.5	123.1	120.4	117.7	114.9	112.9	108.8	106.4	103.3	101.2
15°	145.0	142.3	139.6	136.1	132.0	127.6	125.5	121.8	118.7	113.9	111.2
17.5°	164.9	159.7	155.6	151.5	147.8	143.7	139.6	133.7	129.3	125.2	119.7
20°	184.4	178.2	173.8	168.3	162.8	156.3	151.5	147.4	141.3	135.8	130.0
22.5°	205.2	199.1	191.9	186.4	178.9	173.8	167.3	160.4	154.3	147.1	139.9
25°	230.5	224.0	215.8	208.6	200.1	192.9	185.0	177.2	169.6	161.4	152.2
27.5°	261.7	254.8	245.9	237.4	226.1	217.2	209.7	199.1	189.5	179.2	168.6
30°	301.0	293.5	282.5	270.2	258.9	249.0	238.4	224.4	213.8	201.5	187.8
32.5°	352.3	343.4	328.7	317.1	303.0	290.0	275.3	261.3	246.3	230.2	214.5
35°	416.9	408.7	391.6	374.5	359.1	343.7	325.3	309.2	288.0	268.5	248.3
37.5°	484.0	469.3	453.5	435.1	415.9	397.4	374.9	352.6	328.4	307.1	281.8
40°	560.6	542.8	529.8	510.0	483.0	456.6	435.8	408.0	377.6	349.2	319.5
42.5°	665.6	645.8	622.5	592.4	572.9	542.1	515.1	482.3	442.3	410.4	374.5
45°	787.0	760.0	737.4	708.4	684.8	646.4	615.0	571.2	531.2	489.5	445.7
47.5°	925.5	892.0	859.2	830.5	792.8	755.2	715.2	668.7	617.4	571.5	519.6
50°	1084.6	1037.1	991.6	954.6	903.0	859.5	816.1	763.8	707.0	654.3	595.1
52.5°	1261.4	1206.4	1146.2	1089.4	1029.5	973.8	921.4	861.2	798.0	733.7	667.7
55°	1474.9	1433.5	1362.7	1290.5	1210.5	1135.9	1068.5	994.0	917.0	832.5	763.1
57.5°	1809.0	1788.8	1729.7	1657.5	1553.2	1462.5	1348.3	1257.0	1145.5	1029.2	939.6
60°	2261.9	2236.9	2203.7	2145.2	2062.5	1939.3	1813.5	1671.5	1501.9	1340.8	1187.9
62.5°	2503.4	2494.5	2467.4	2427.1	2349.8	2252.6	2125.7	1969.8	1778.2	1582.6	1387.6
63°	2510.5	2499.3	2476.0	2434.9	2366.9	2272.8	2148.3	1996.8	1809.4	1610.0	1410.9
65°	2413.4	2409.0	2385.4	2340.5	2294.0	2222.2	2125.7	1995.4	1838.1	1649.6	1451.6
67.5°	2140.5	2127.1	2090.9	2077.2	2044.7	1994.7	1921.2	1831.6	1719.1	1571.0	1399.9
70°	1810.4	1790.6	1745.1	1720.8	1681.1	1649.6	1604.8	1540.9	1471.4	1368.1	1240.6
72.5°	1460.5	1419.4	1377.7	1314.4	1259.0	1202.9	1153.3	1108.2	1031.9	990.2	893.4
75°	948.5	873.9	802.4	706.6	620.5	544.2	470.0	432.3	354.0	322.2	276.7
77.5°	450.1	408.4	352.3	308.9	253.4	206.9	169.0	126.9	99.5	78.0	59.5
80°	363.2	328.0	294.2	254.8	213.1	170.0	130.3	97.5	69.1	47.9	33.9
82.5°	323.9	285.6	243.9	216.9	188.5	154.3	126.6	103.3	76.3	55.8	38.0
85°	125.9	106.0	81.7	66.7	52.0	42.8	38.6	26.7	20.9	16.4	12.7
87.5°	10.9	8.9	7.2	4.8	5.1	2.7	3.1	2.1	1.7	1.7	1.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	75.6	75.2	74.9	74.2	74.2	73.5	73.2	72.9	71.1	67.4	64.3
5°	79.4	78.7	78.0	77.0	76.3	75.2	74.6	73.5	69.8	62.6	56.4
7.5°	84.8	83.5	82.4	80.4	79.4	78.0	77.0	75.2	69.1	58.1	49.6
10°	91.3	88.9	87.2	84.8	82.8	81.1	79.4	77.0	68.4	53.4	43.4
12.5°	99.2	96.5	93.0	90.3	87.6	85.2	82.8	79.7	67.4	49.3	38.6
15°	107.1	103.0	100.6	96.8	93.0	89.6	86.2	83.5	67.7	44.8	34.5
17.5°	115.9	111.8	106.7	102.6	98.5	94.1	90.0	84.5	66.0	41.4	31.5
20°	124.5	118.7	113.9	108.8	103.0	97.5	92.3	87.6	64.6	38.0	28.7
22.5°	133.7	126.9	120.7	114.2	107.1	100.9	94.7	88.6	62.3	34.9	26.3
25°	145.0	137.2	128.3	120.4	112.9	105.3	97.5	90.0	59.9	32.2	24.6
27.5°	158.7	148.4	139.6	129.6	119.0	109.5	100.9	92.7	57.5	30.1	22.9
30°	176.1	164.2	151.5	138.9	127.6	116.6	104.7	94.4	55.1	28.0	21.2
32.5°	199.4	184.4	169.0	154.3	139.2	125.2	112.5	99.2	53.7	26.3	19.5
35°	230.2	210.7	191.9	173.4	155.3	138.2	121.8	106.7	53.7	24.3	17.4
37.5°	259.3	236.7	212.7	189.8	168.3	148.4	128.9	110.8	51.0	22.6	15.7
40°	290.7	263.7	235.7	208.6	182.6	158.0	135.8	114.9	48.6	20.5	14.0
42.5°	339.0	304.8	268.2	236.7	205.6	175.1	147.4	122.8	45.5	18.5	12.3
45°	402.2	358.8	315.7	277.4	237.7	200.4	167.6	137.2	44.8	16.8	10.6
47.5°	470.0	418.7	368.0	319.1	272.6	229.2	189.8	153.2	44.8	15.0	9.2
50°	537.3	473.0	419.0	362.2	309.9	258.6	211.7	170.0	45.1	13.7	7.5
52.5°	598.2	529.5	468.9	403.3	345.5	285.9	235.0	186.4	44.5	12.0	6.2
55°	682.7	602.0	531.9	459.4	391.6	324.6	266.8	211.0	44.8	10.6	5.1
57.5°	838.3	743.6	659.1	564.0	486.0	399.5	329.4	261.7	48.9	8.9	3.8
60°	1061.7	938.5	819.9	703.9	604.7	501.8	410.8	331.1	57.5	7.2	2.7
62.5°	1211.8	1050.7	909.1	781.2	665.9	558.2	459.0	368.4	63.3	5.8	1.7
63°	1227.2	1060.7	918.4	786.3	668.7	560.9	461.1	371.1	63.6	5.5	1.7
65°	1256.3	1077.8	923.5	787.4	665.9	557.2	459.7	370.8	64.3	4.4	1.4
67.5°	1223.1	1051.4	893.7	757.9	642.0	534.9	442.6	357.1	64.0	3.1	1.0
70°	1093.8	951.5	813.0	686.5	581.1	484.3	402.9	325.6	58.8	2.1	0.7
72.5°	803.1	706.3	598.9	507.6	437.8	363.6	310.2	244.6	45.5	1.4	0.3
75°	238.1	216.9	182.3	160.8	141.9	117.3	104.3	81.4	23.3	0.7	0.0
77.5°	47.5	43.1	38.6	35.2	33.2	28.4	27.0	22.2	9.6	0.3	0.0
80°	25.0	20.5	17.4	15.4	13.3	10.9	9.2	7.5	1.7	0.0	0.0
82.5°	23.9	16.1	11.6	9.6	8.2	6.5	5.1	3.8	1.0	0.0	0.0
85°	8.9	6.8	5.1	4.1	3.4	3.1	2.4	2.1	0.0	0.0	0.0
87.5°	1.4	1.0	1.0	0.7	0.7	0.3	0.3	0.3	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°	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	61.2	58.5	57.1	55.4	55.4	55.1	55.8
5°	51.0	47.2	44.5	42.4	42.8	41.7	42.1
7.5°	43.1	39.3	36.9	35.6	35.2	34.9	34.9
10°	37.3	33.9	31.8	30.8	30.4	30.4	30.4
12.5°	33.2	29.8	28.0	27.4	27.4	27.0	27.0
15°	29.8	27.0	25.3	24.6	24.6	24.3	24.6
17.5°	27.0	24.3	22.9	22.2	22.2	21.9	21.9
20°	24.6	22.2	20.9	19.8	19.8	19.5	19.8
22.5°	22.6	20.2	18.5	17.8	17.4	17.1	17.4
25°	20.5	18.1	16.4	15.4	15.0	15.0	14.7
27.5°	18.8	16.4	14.4	13.3	13.0	13.0	12.7
30°	17.1	14.4	12.3	11.3	10.9	10.9	10.9
32.5°	15.4	12.3	10.6	9.6	9.2	9.2	9.2
35°	13.7	10.6	8.9	7.9	7.5	7.5	7.5
37.5°	11.6	8.9	6.8	6.2	5.8	5.5	5.5
40°	9.9	6.8	5.1	4.4	3.8	3.8	3.8
42.5°	8.2	5.5	3.8	2.7	2.4	2.1	2.4
45°	6.8	4.1	2.4	1.4	1.0	1.0	1.0
47.5°	5.5	2.7	1.0	0.3	0.3	0.3	0.3
50°	4.1	1.7	0.3	0.0	0.0	0.3	0.3
52.5°	3.1	1.0	0.0	0.0	0.0	0.0	0.0
55°	1.7	0.3	0.0	0.0	0.0	0.0	0.0
57.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	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)