

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: P150431

Luminaire Tested: **VXS-E01-LED-E1-SL3-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150431
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-E01-LED-E1-SL3-HSS-7050
Description: VISION SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 1779.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - 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

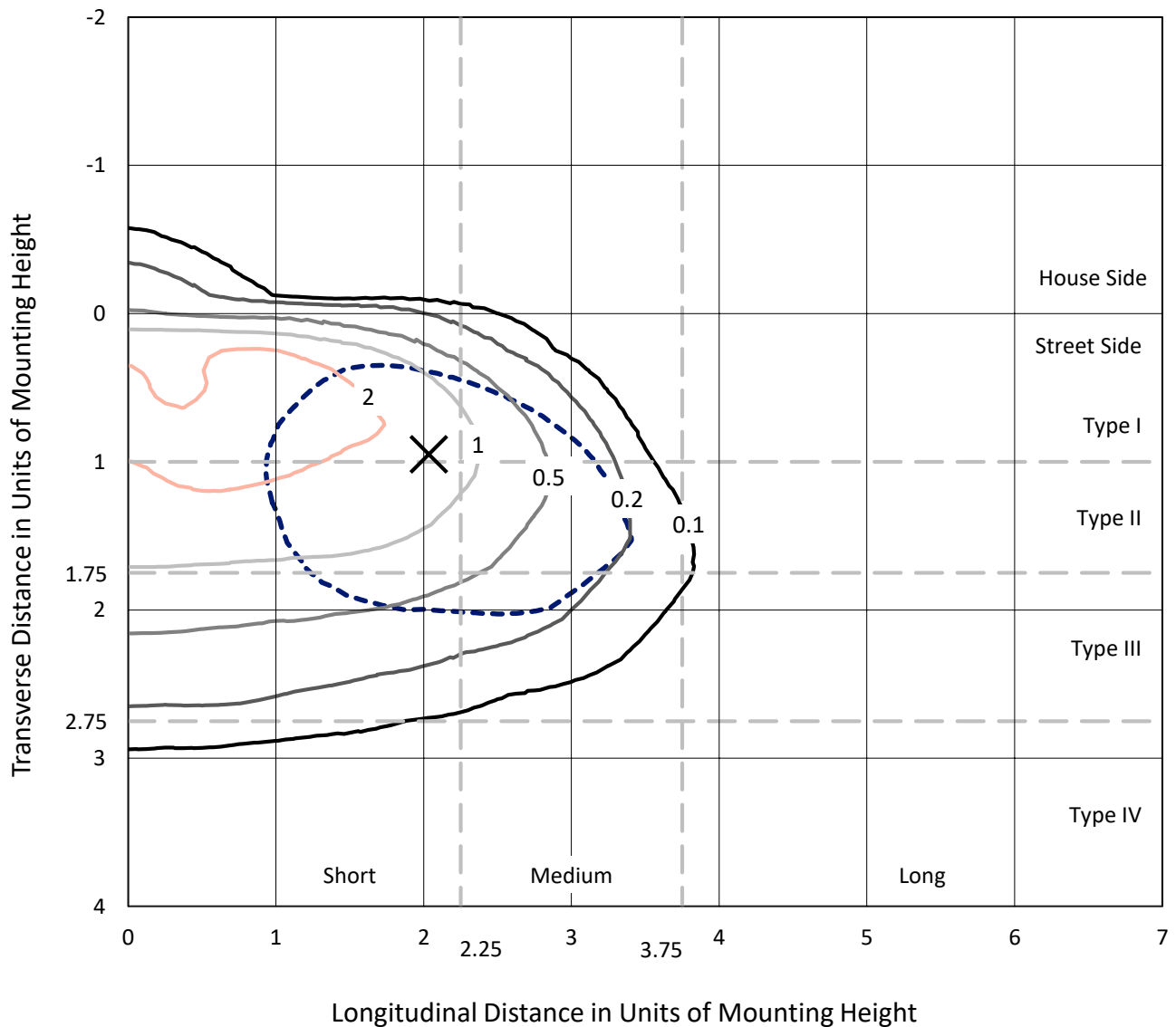


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Iso-Footcandle Lines of Horizontal Illumination

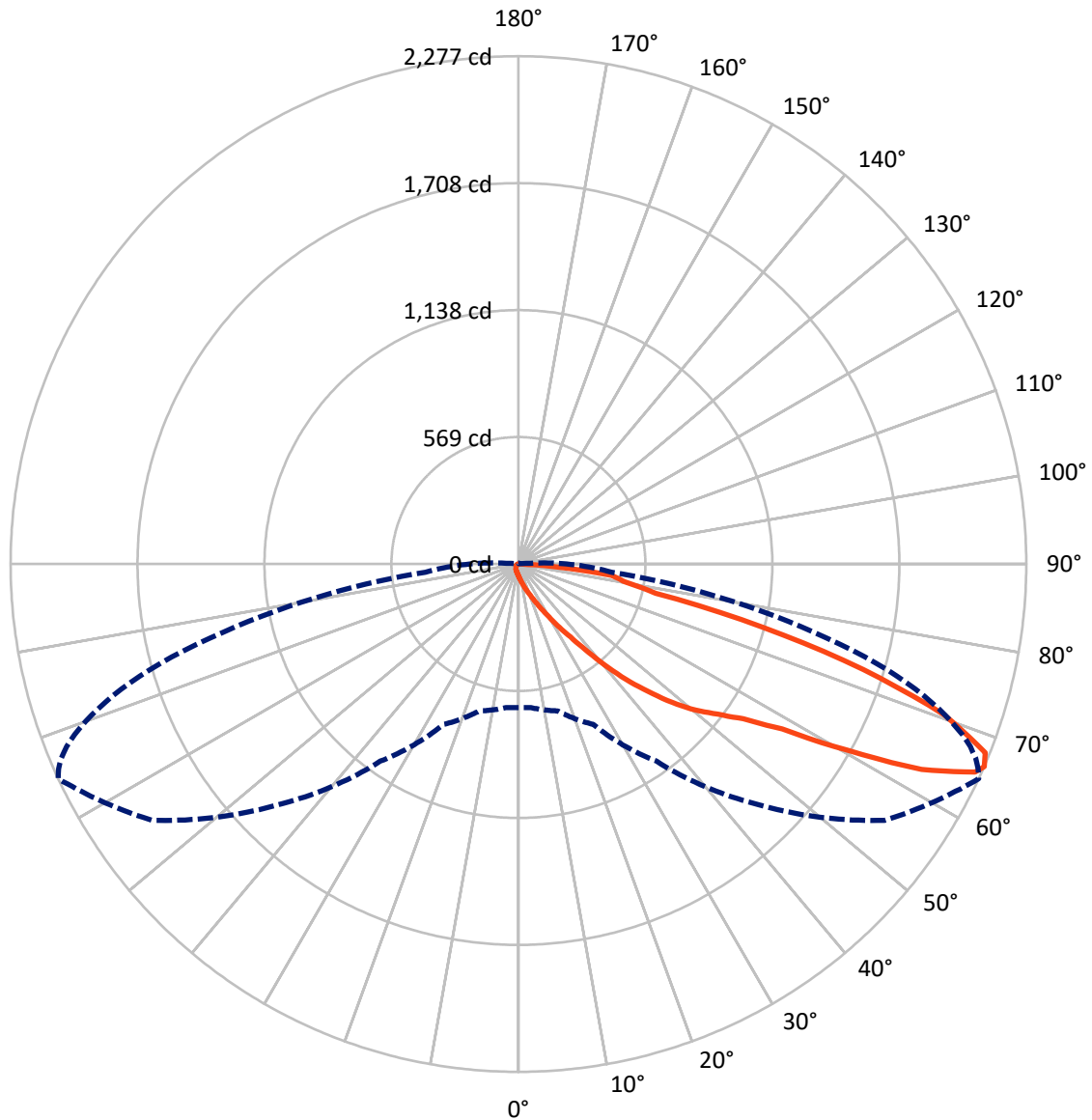
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.6	0.0	38.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	1740.5	0.0	1740.5
	% Fixture	97.8	0.0	97.8
Total	Lumens	1779.1	0.0	1779.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.3
10°-20°	25.5	1.4
20°-30°	55.0	3.1
30°-40°	117.4	6.6
40°-50°	259.6	14.6
50°-60°	440.0	24.7
60°-70°	587.1	33.0
70°-80°	258.6	14.5
80°-90°	29.8	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°	1779.1	100.0
0°-180°	1779.1	100.0



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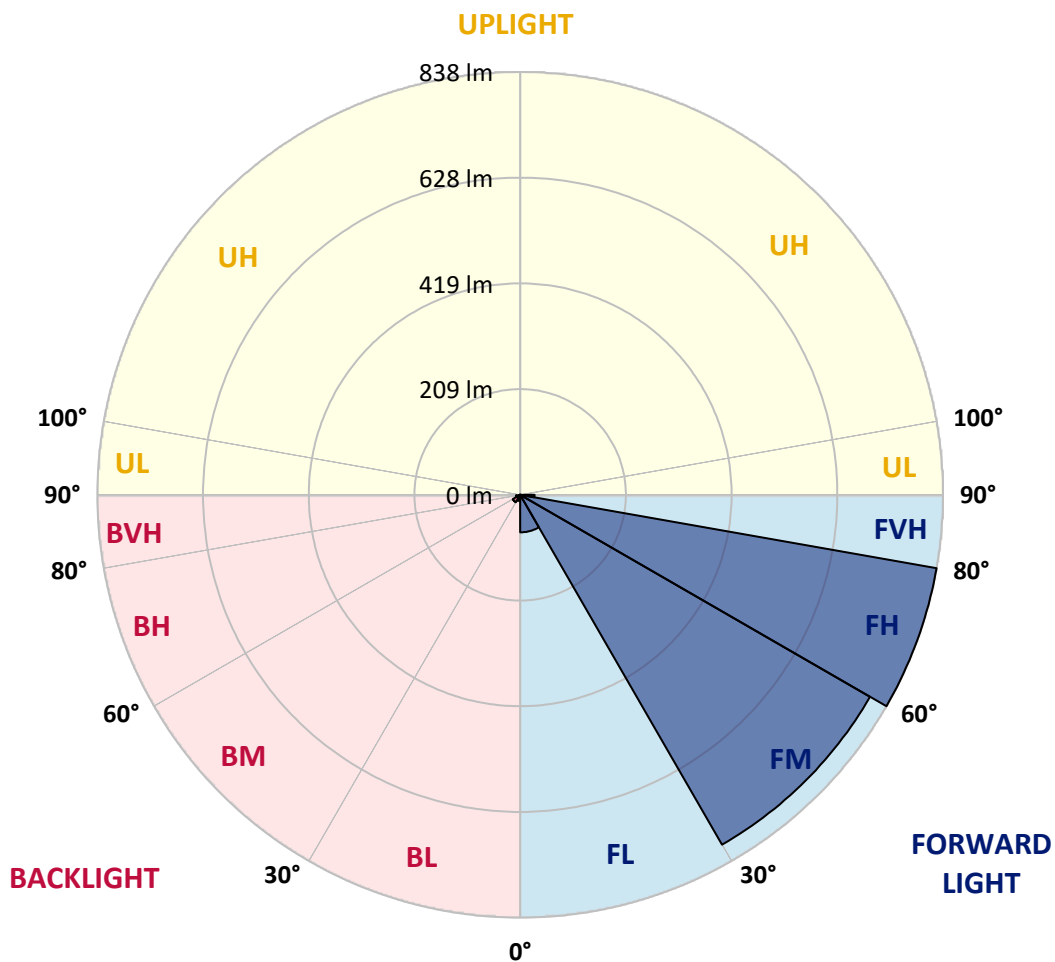
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	74.3	4.2			
FM	(30°-60°)	800.1	45.0			
FH	(60°-80°)	837.5	47.1			G1/1800
FVH	(80°-90°)	28.6	1.6			G1/100
BL	(0°-30°)	12.2	0.7	B0/110		
BM	(30°-60°)	16.9	1.0	B0/220		
BH	(60°-80°)	8.3	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	67.8	67.4	66.0	66.0	63.9	62.6	60.9	59.2	59.2	58.9	58.4
5°	89.6	87.6	87.3	83.4	80.4	76.0	71.8	66.3	65.7	65.0	64.7
7.5°	113.9	113.6	110.5	106.0	99.9	91.7	83.4	74.6	73.2	72.5	71.2
10°	145.4	143.6	139.6	132.0	122.8	111.8	98.5	84.5	82.8	81.5	80.7
12.5°	175.4	172.4	169.9	160.4	148.8	132.7	116.7	96.5	95.1	93.4	90.7
15°	203.5	200.7	196.7	188.5	175.4	155.2	136.5	111.8	108.4	106.0	103.9
17.5°	225.4	223.7	218.9	209.6	195.6	177.8	155.2	127.6	124.9	121.8	118.0
20°	246.2	243.8	236.4	223.7	208.6	194.9	177.5	148.1	144.4	140.6	136.5
22.5°	266.1	263.7	251.4	230.6	214.5	208.6	202.5	171.4	165.6	162.5	158.3
25°	293.8	288.7	269.5	236.4	214.8	219.3	229.8	201.5	196.0	191.5	185.1
27.5°	331.1	324.2	294.2	244.9	216.2	230.9	261.3	238.0	232.2	227.2	219.9
30°	373.2	368.7	332.8	265.4	226.1	248.0	296.6	284.6	277.7	271.6	263.0
32.5°	415.5	409.4	373.9	304.5	252.7	281.1	340.6	338.7	329.7	323.9	314.7
35°	452.8	449.7	423.4	368.4	313.7	339.3	399.5	401.9	394.0	387.9	377.6
37.5°	478.1	478.1	473.1	437.1	410.5	429.6	486.0	486.4	478.5	464.5	459.4
40°	491.2	494.9	513.4	520.2	518.9	543.5	599.6	593.5	586.9	579.8	562.7
42.5°	517.8	521.2	560.6	607.8	638.5	671.1	709.7	707.7	699.8	686.8	671.1
45°	563.0	567.5	614.3	689.2	752.4	798.7	823.3	813.7	805.8	793.5	785.3
47.5°	620.4	629.0	682.0	774.7	851.0	927.3	953.0	927.6	920.7	911.2	897.8
50°	681.7	689.8	746.3	852.3	938.5	1029.5	1072.3	1029.5	1019.6	1016.5	1001.5
52.5°	734.7	741.6	796.0	912.2	1005.6	1112.3	1174.5	1118.1	1110.9	1100.6	1089.7
55°	766.1	771.6	822.6	940.9	1051.1	1186.8	1273.4	1223.8	1213.2	1209.1	1193.4
57.5°	776.8	782.3	828.1	944.7	1075.8	1254.9	1393.5	1395.1	1382.5	1367.8	1363.0
60°	776.8	782.9	821.6	935.4	1099.7	1327.5	1553.6	1696.2	1668.8	1666.0	1648.6
62.5°	744.6	750.5	789.4	907.0	1131.8	1425.3	1776.6	2028.3	2020.4	2002.6	1973.9
65°	674.8	678.2	716.6	834.6	1119.5	1515.2	1969.7	2249.2	2236.6	2201.7	2164.8
66°	643.4	646.1	682.0	793.2	1079.2	1527.6	2003.9	2276.9	2256.1	2226.6	2184.9
67.5°	597.9	602.7	628.0	716.3	982.3	1484.8	1982.5	2257.4	2239.3	2203.7	2162.0
70°	399.2	395.8	485.0	549.6	748.4	1209.7	1778.5	2026.9	2027.3	2010.5	1993.7
72.5°	189.5	191.5	217.5	338.2	489.8	808.2	1415.6	1617.8	1641.0	1611.0	1590.2
75°	136.2	139.2	154.9	206.9	292.1	485.0	917.7	1131.5	1132.1	1078.8	1031.2
77.5°	39.7	41.3	58.1	127.6	218.9	327.4	527.0	629.0	614.3	576.0	540.1
80°	16.4	16.4	17.1	40.7	87.9	222.3	368.7	484.4	482.6	467.9	446.7
82.5°	6.1	6.5	8.2	16.8	20.8	54.7	245.9	420.3	419.4	398.4	383.4
85°	0.7	0.7	2.1	7.2	7.9	10.3	49.2	185.4	184.4	185.4	162.5
87.5°	0.0	0.0	0.3	0.7	1.0	1.3	2.1	7.2	7.9	7.6	6.8
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	58.4	57.8	57.8	57.5	57.5	57.5	57.1	56.8	56.8	56.5	56.1
5°	63.9	63.3	62.9	62.3	61.9	61.6	60.9	60.5	59.9	59.5	59.2
7.5°	70.5	69.1	68.7	67.8	66.7	66.0	65.3	64.4	63.6	62.3	61.9
10°	78.7	77.0	75.5	74.2	73.2	71.5	70.5	69.1	67.8	66.7	65.7
12.5°	89.2	86.8	84.9	83.4	81.0	79.0	77.0	76.0	73.2	71.8	70.2
15°	100.9	98.1	95.8	93.1	91.3	87.9	85.2	82.1	80.7	78.3	75.5
17.5°	116.0	111.5	107.8	105.0	101.6	98.1	95.1	92.0	87.9	85.2	81.8
20°	132.0	128.3	123.1	118.3	114.2	110.2	105.7	101.6	97.8	93.4	89.2
22.5°	152.5	147.0	140.9	136.2	130.7	126.2	120.1	114.6	108.4	102.6	97.8
25°	178.5	171.4	165.6	158.7	152.2	145.4	137.8	131.0	123.1	117.6	109.4
27.5°	210.7	203.8	196.0	187.0	180.6	170.4	160.4	151.8	142.6	134.1	124.9
30°	251.7	241.9	233.6	225.1	212.0	202.2	190.5	178.9	166.2	157.7	143.6
32.5°	301.0	290.4	278.0	265.8	253.8	239.8	225.4	211.0	197.0	181.2	166.9
35°	361.1	348.5	334.5	321.1	302.7	287.7	269.5	249.6	234.0	215.9	197.7
37.5°	440.9	420.0	407.7	393.7	368.7	348.2	328.0	308.2	280.5	261.3	235.6
40°	540.7	528.4	508.3	485.7	463.1	436.1	408.7	382.4	350.3	323.5	293.8
42.5°	658.0	639.9	619.4	586.9	564.0	532.2	501.0	466.2	426.8	392.6	357.7
45°	768.2	746.6	730.9	698.4	674.5	636.9	599.3	562.3	516.8	472.6	432.3
47.5°	887.3	869.4	843.4	817.1	792.8	750.5	709.7	664.9	617.0	564.7	512.3
50°	991.9	977.9	960.1	928.3	901.2	865.7	817.8	768.9	708.4	656.4	596.9
52.5°	1080.8	1069.8	1044.9	1022.4	998.0	964.6	921.8	874.9	809.6	752.4	684.8
55°	1185.8	1177.9	1156.1	1142.1	1120.5	1088.4	1048.3	1004.9	935.9	873.6	796.9
57.5°	1357.9	1351.7	1332.5	1326.7	1305.6	1277.5	1228.3	1181.8	1101.0	1023.7	936.2
60°	1642.8	1630.5	1602.4	1588.1	1543.2	1505.6	1441.7	1377.7	1280.2	1181.8	1076.4
62.5°	1947.9	1913.4	1860.0	1814.2	1750.6	1685.2	1599.7	1501.9	1387.7	1270.7	1149.5
65°	2112.4	2053.6	1986.2	1913.4	1830.9	1734.8	1627.0	1509.7	1386.9	1263.5	1135.5
66°	2131.2	2064.9	1993.4	1912.3	1820.6	1718.3	1608.9	1485.8	1358.2	1237.8	1109.9
67.5°	2107.7	2038.2	1962.6	1872.6	1773.5	1667.5	1552.5	1424.6	1301.8	1179.7	1055.1
70°	1942.4	1873.4	1805.9	1711.2	1605.5	1498.8	1390.1	1247.0	1130.8	1018.5	907.8
72.5°	1551.1	1504.2	1437.6	1356.5	1253.6	1128.4	1037.7	909.8	808.9	700.1	614.3
75°	969.3	903.3	820.9	717.6	639.0	537.3	484.4	387.2	329.7	279.5	230.9
77.5°	495.6	446.0	388.2	330.1	274.3	218.9	169.3	119.7	80.7	56.1	41.8
80°	409.4	365.6	317.7	264.8	215.4	167.3	120.4	82.1	52.3	34.2	26.6
82.5°	338.2	301.3	258.5	209.3	166.5	131.3	91.3	59.5	36.9	23.9	18.9
85°	144.0	130.7	100.9	80.0	60.2	44.5	31.1	20.8	14.7	12.0	11.0
87.5°	6.1	6.8	6.5	5.2	3.7	3.7	3.4	2.7	2.7	2.7	2.7
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°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	56.1	55.8	55.4	55.4	55.0	54.7	52.6	51.0	48.9	47.6	46.2
5°	58.4	58.1	57.5	57.1	56.5	56.1	51.6	47.9	44.8	42.4	40.7
7.5°	60.9	60.5	59.5	58.4	58.1	57.5	50.3	45.5	41.3	38.7	36.9
10°	63.9	62.9	61.9	60.5	59.5	58.4	48.9	42.8	38.3	36.0	34.2
12.5°	68.4	66.7	65.0	63.3	61.9	60.2	48.2	40.3	36.0	33.2	31.5
15°	73.6	71.2	69.1	67.0	64.7	62.9	46.8	38.3	33.9	31.1	29.1
17.5°	78.3	75.5	72.5	69.4	67.0	64.7	45.5	36.3	31.8	29.1	27.0
20°	85.2	81.0	77.3	73.6	70.2	67.0	43.4	34.2	30.1	27.0	25.0
22.5°	92.6	87.9	83.1	78.0	73.6	69.4	41.8	32.5	28.4	25.3	22.9
25°	102.3	96.5	89.9	83.4	78.3	72.8	40.0	30.8	26.6	23.6	21.2
27.5°	115.6	107.4	100.2	92.0	84.1	78.0	38.7	29.4	25.0	21.9	19.5
30°	133.8	121.8	110.5	101.6	92.3	83.4	37.3	27.7	23.6	20.2	17.4
32.5°	153.9	139.9	126.9	113.6	102.0	91.7	36.0	26.3	21.9	18.4	16.1
35°	178.9	161.1	143.6	128.3	114.2	100.5	34.5	25.0	20.5	16.8	14.4
37.5°	214.8	192.5	169.6	149.8	131.7	113.6	33.5	23.6	18.9	15.0	12.6
40°	264.0	235.3	207.3	180.2	156.7	134.1	32.1	22.3	17.4	13.7	11.3
42.5°	317.4	282.5	245.6	215.1	182.7	154.3	30.8	20.8	16.1	12.3	9.9
45°	383.7	340.3	295.5	254.1	214.5	177.8	29.4	19.5	14.4	11.0	8.6
47.5°	456.3	400.8	350.3	298.2	251.1	207.3	27.7	18.4	13.0	9.5	7.6
50°	530.9	472.3	408.4	349.2	293.2	236.7	26.0	16.8	11.6	8.6	6.1
52.5°	611.2	542.2	476.8	403.2	337.9	275.3	24.2	15.4	10.6	7.6	5.2
55°	713.5	636.2	559.6	477.1	398.4	320.1	22.6	13.7	9.2	6.5	4.1
57.5°	842.1	750.5	656.4	563.3	467.9	379.0	21.2	12.0	7.9	5.5	3.4
60°	963.5	856.5	742.6	635.5	527.8	424.1	19.2	10.6	6.8	4.5	3.4
62.5°	1026.4	904.4	781.6	663.5	548.6	440.2	17.1	8.9	5.8	3.7	3.1
65°	1011.1	886.5	767.6	648.5	536.0	429.9	15.0	7.9	5.2	3.4	3.1
66°	988.8	865.7	746.0	632.7	525.4	419.0	14.0	7.6	4.8	3.4	2.7
67.5°	940.2	821.2	706.9	601.7	496.3	398.1	12.6	6.8	4.5	3.1	2.7
70°	803.1	695.0	603.7	509.9	424.1	335.5	10.3	5.8	3.7	2.7	2.7
72.5°	531.5	458.0	397.1	341.7	285.6	221.7	8.6	4.8	3.1	2.7	2.4
75°	200.4	181.2	155.6	139.9	122.1	107.0	6.8	3.1	2.4	2.4	2.4
77.5°	35.5	32.8	29.1	26.6	24.7	22.6	5.5	2.1	2.1	2.4	2.4
80°	23.9	22.3	20.2	18.4	17.1	15.4	3.7	1.8	2.1	2.1	2.4
82.5°	17.1	16.1	15.0	13.7	12.6	11.3	2.4	1.8	2.1	2.1	2.1
85°	10.3	9.5	8.9	8.2	7.2	6.8	1.8	1.8	1.8	2.1	2.1
87.5°	2.7	2.4	2.7	2.7	2.1	2.4	1.3	1.3	1.3	1.8	1.8
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°	53.7	53.7	53.7	53.7	53.7
2.5°	45.5	45.5	44.8	45.8	45.8
5°	39.4	39.4	39.0	39.4	39.4
7.5°	36.0	35.5	35.5	35.5	36.0
10°	32.8	32.5	32.5	32.5	32.5
12.5°	30.1	29.7	29.4	29.7	29.7
15°	27.7	27.0	27.0	27.0	27.0
17.5°	25.7	25.0	24.7	24.7	24.7
20°	23.6	22.6	22.6	22.6	22.6
22.5°	21.6	20.5	20.5	20.5	20.5
25°	19.5	18.4	18.4	18.4	18.4
27.5°	17.8	16.8	16.8	16.8	16.8
30°	15.8	15.0	15.0	15.4	15.0
32.5°	14.4	13.4	13.4	13.7	13.7
35°	12.6	12.0	12.0	12.0	12.0
37.5°	11.0	10.3	10.3	10.3	10.3
40°	9.5	8.9	8.6	8.9	8.9
42.5°	8.2	7.6	7.2	7.2	7.2
45°	7.2	6.1	5.8	6.1	6.1
47.5°	5.8	5.2	5.2	5.5	5.5
50°	4.5	4.5	4.8	5.5	5.5
52.5°	4.1	4.1	4.8	5.5	5.5
55°	3.7	4.1	4.8	5.2	5.5
57.5°	3.4	4.1	4.8	5.2	5.2
60°	3.4	3.7	4.5	5.2	5.2
62.5°	3.1	3.4	4.1	4.8	4.8
65°	3.1	3.4	4.1	4.8	4.8
66°	3.1	3.4	4.1	4.8	4.8
67.5°	3.1	3.4	4.1	4.8	4.8
70°	3.1	3.4	4.1	4.5	4.5
72.5°	2.7	3.1	3.7	4.5	4.5
75°	2.7	3.1	3.7	4.5	4.5
77.5°	2.7	3.1	3.7	4.5	4.5
80°	2.7	3.1	3.7	4.1	4.5
82.5°	2.4	3.1	3.4	4.1	4.1
85°	2.4	2.7	3.4	3.7	4.1
87.5°	2.1	2.4	2.7	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)