

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: P156457

Luminaire Tested: **VXS-F01-LED-E1-T4-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156457
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F01-LED-E1-T4-7060
Description: VISION SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): 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

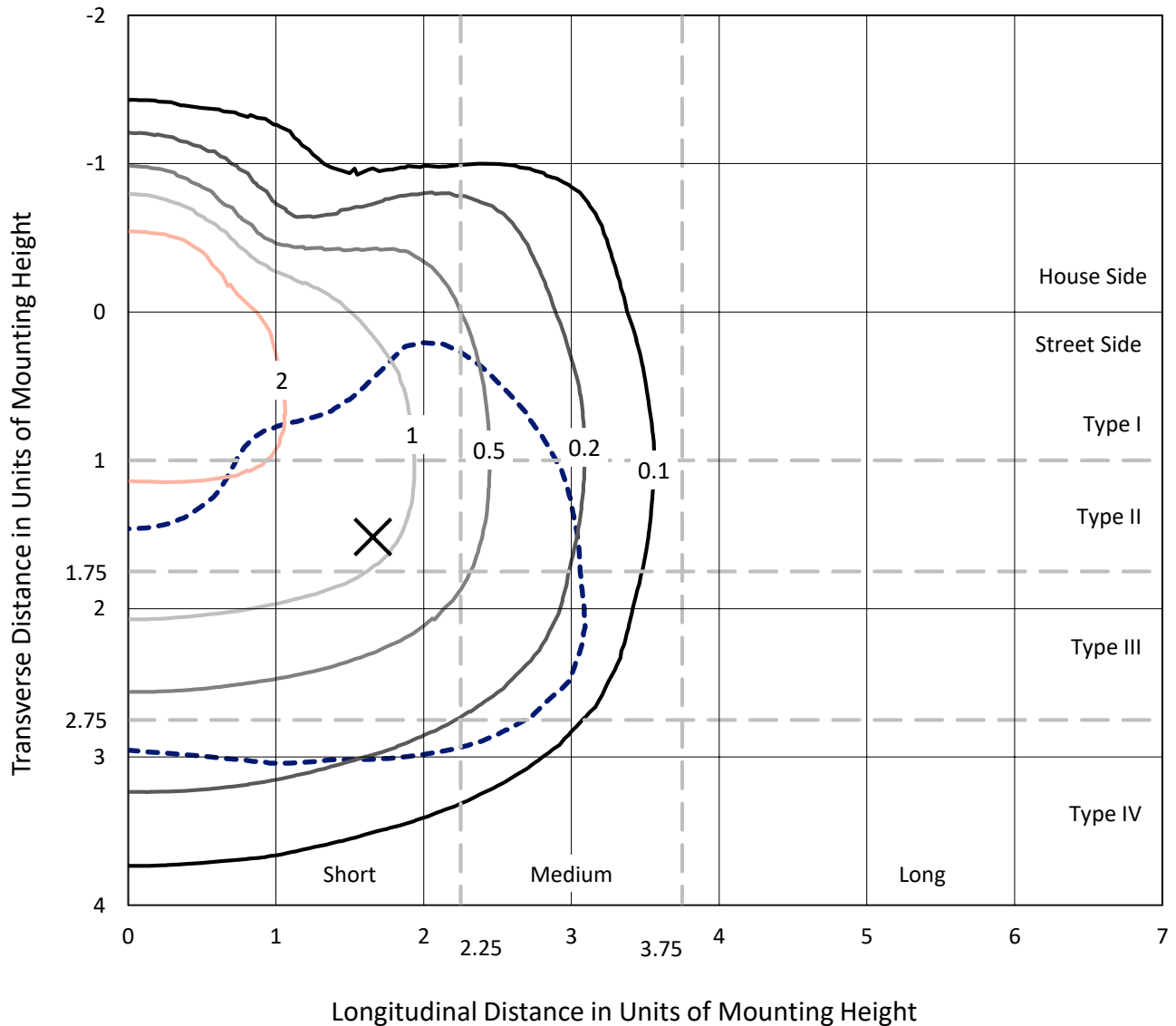


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

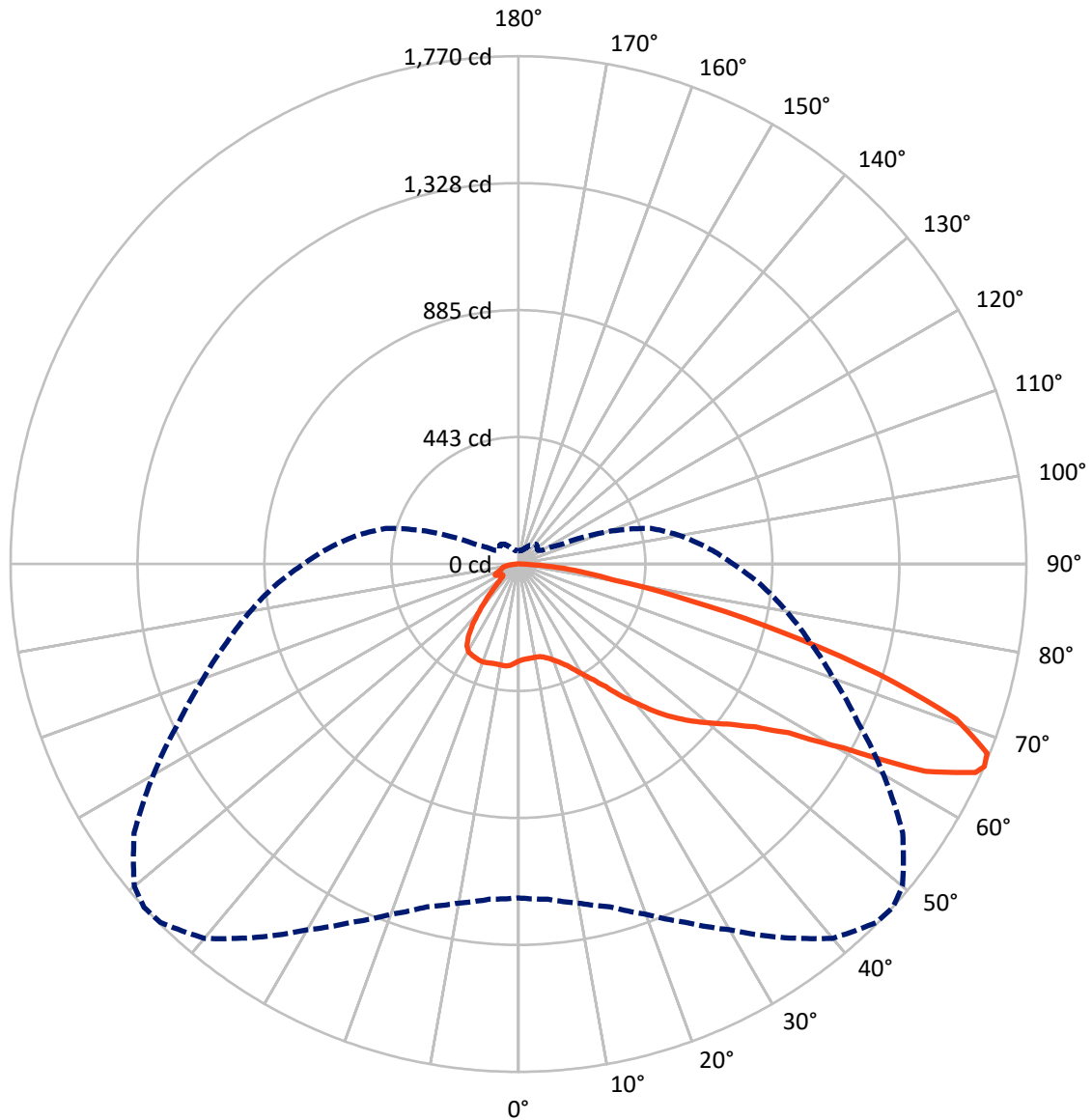


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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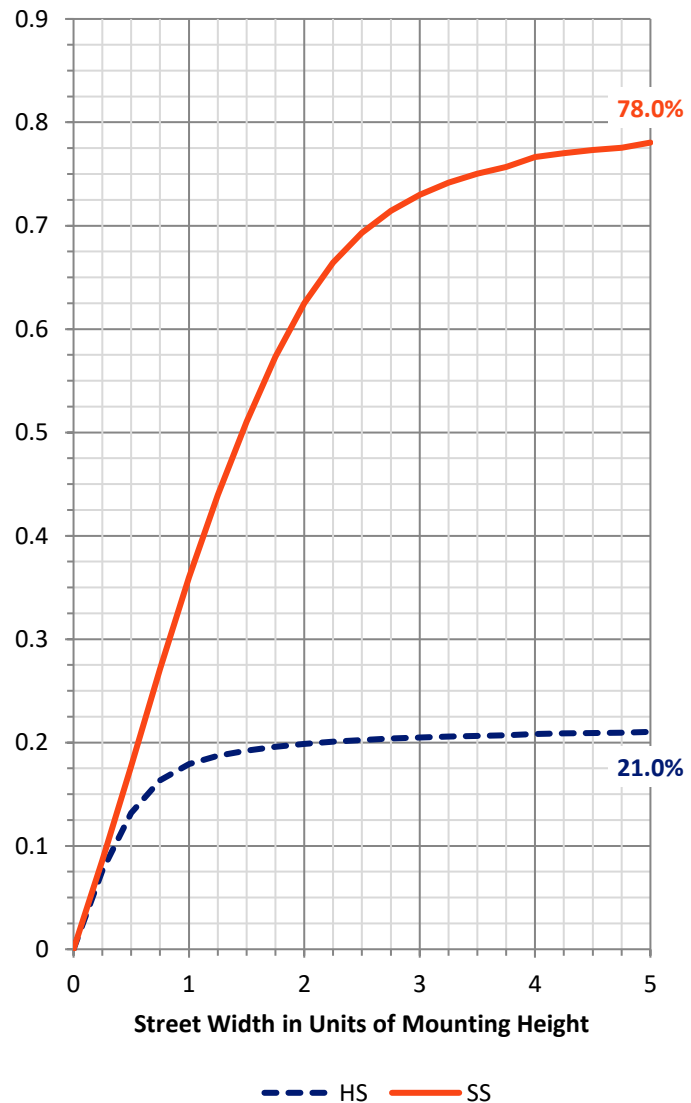
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.2	0.0	546.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	2013.7	0.0	2013.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	2559.9	0.0	2559.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	1.3
10°-20°	99.5	3.9
20°-30°	171.3	6.7
30°-40°	259.2	10.1
40°-50°	336.0	13.1
50°-60°	463.3	18.1
60°-70°	719.7	28.1
70°-80°	418.5	16.3
80°-90°	59.5	2.3
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°	2559.9	100.0
0°-180°	2559.9	100.0



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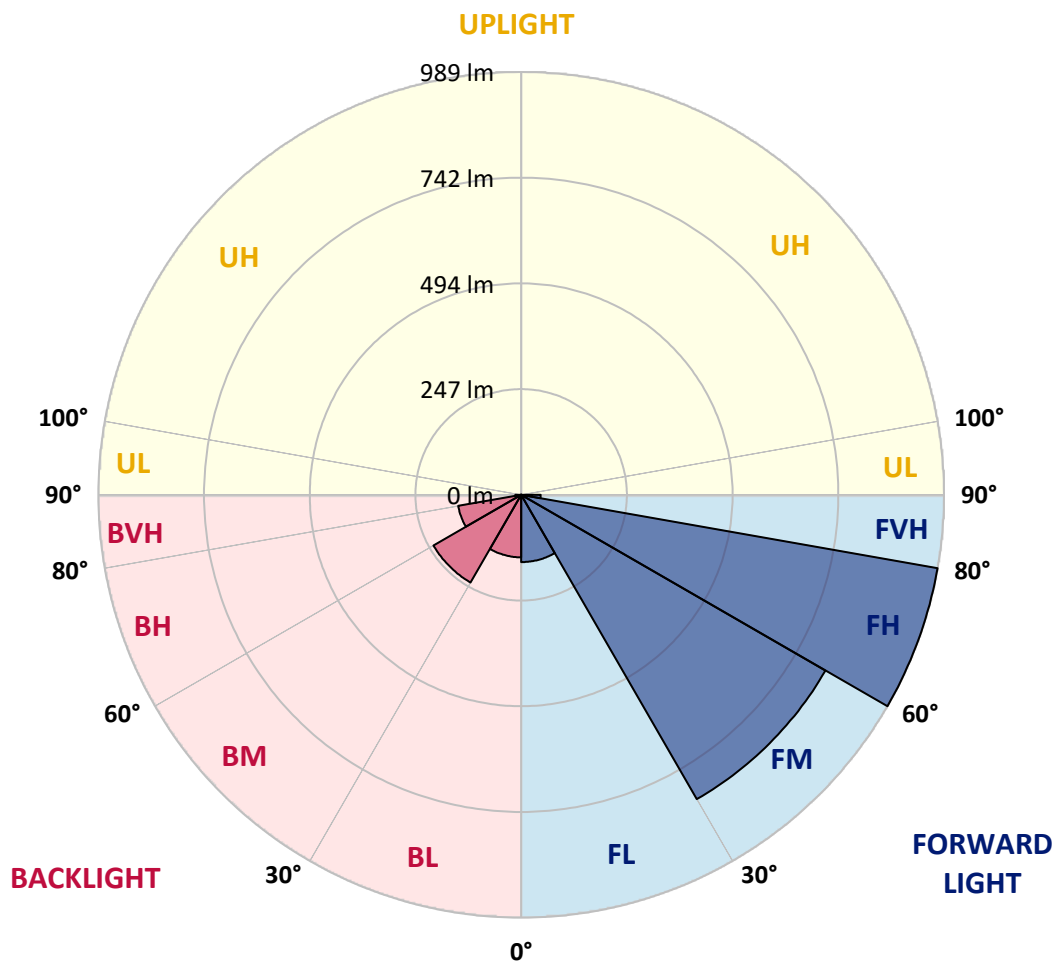
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	157.4	6.1			
FM	(30°-60°)	821.7	32.1			
FH	(60°-80°)	988.9	38.6			G1/1800
FVH	(80°-90°)	45.7	1.8			G1/100
BL	(0°-30°)	146.2	5.7	B1/500		
BM	(30°-60°)	236.8	9.2	B1/1000		
BH	(60°-80°)	149.4	5.8	B1/500		G1/500
BVH	(80°-90°)	13.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4
2.5°	331.2	332.3	331.5	331.8	331.8	332.0	332.0	332.3	332.0	332.8	332.8	333.5
5°	325.3	325.8	325.6	326.1	326.7	327.8	327.6	328.9	329.2	330.1	330.1	331.5
7.5°	323.0	322.5	322.7	323.6	324.1	324.7	325.3	326.4	327.3	329.2	329.2	330.4
10°	325.3	325.0	325.3	325.8	325.8	326.1	325.6	326.7	327.3	328.9	328.9	330.1
12.5°	334.6	334.6	334.0	334.0	333.5	332.8	331.5	330.7	330.4	330.7	330.7	331.2
15°	349.5	349.0	347.9	347.0	345.9	343.9	342.0	340.2	339.1	337.4	337.4	336.9
17.5°	364.2	363.4	362.3	361.1	359.7	357.7	354.6	352.6	349.5	347.6	347.6	346.4
20°	381.1	379.5	378.0	376.7	373.9	373.3	370.2	366.7	363.1	358.5	358.5	358.0
22.5°	403.2	400.4	398.7	397.8	395.0	394.2	389.1	384.2	379.8	373.9	373.9	372.4
25°	425.5	422.7	421.9	420.7	418.8	417.6	412.8	407.5	401.6	393.4	393.4	391.6
27.5°	447.3	447.6	445.3	446.1	445.6	443.6	438.8	433.5	428.9	419.3	419.3	417.3
30°	474.4	472.6	471.5	473.3	471.3	471.5	467.3	464.5	457.1	451.5	451.5	447.6
32.5°	502.6	502.3	504.0	505.2	504.9	504.2	500.9	498.0	491.6	483.4	483.4	481.7
35°	541.2	543.0	544.4	549.4	549.4	553.2	549.7	546.3	538.8	528.8	528.8	525.5
37.5°	567.6	568.1	573.8	580.5	589.0	596.9	599.2	600.0	596.9	589.5	589.5	584.5
40°	591.5	592.6	601.7	612.1	624.6	640.1	649.4	653.7	654.5	651.1	651.1	640.1
42.5°	615.5	617.2	626.5	641.8	659.1	678.8	695.1	705.6	711.5	711.5	711.5	705.1
45°	643.5	645.8	656.0	672.5	692.6	717.5	740.1	760.1	769.7	770.3	770.3	764.0
47.5°	676.6	678.5	690.4	707.4	727.9	753.1	781.6	804.5	822.3	823.3	823.3	818.2
50°	719.2	722.0	731.9	747.2	768.3	793.7	822.3	854.1	872.7	877.3	877.3	871.9
52.5°	775.6	776.2	784.4	798.5	819.2	843.4	873.6	908.4	933.0	936.6	936.6	927.9
55°	853.6	852.7	858.1	873.4	888.9	907.8	939.2	978.1	1005.5	1011.1	1011.1	1002.1
57.5°	959.5	958.7	963.1	966.8	995.9	1014.2	1045.0	1082.3	1108.8	1125.2	1125.2	1109.6
60°	1123.5	1122.7	1129.9	1151.5	1173.2	1200.0	1229.9	1274.6	1311.8	1316.7	1316.7	1301.3
62.5°	1242.4	1246.6	1262.7	1287.9	1331.9	1384.4	1439.2	1497.9	1574.4	1598.8	1598.8	1591.4
65°	1200.8	1209.3	1231.6	1269.7	1328.5	1401.0	1486.9	1593.4	1695.9	1753.2	1753.2	1751.5
66°	1163.6	1173.0	1200.3	1237.0	1299.2	1378.4	1472.2	1588.3	1702.9	1766.1	1766.1	1770.2
67.5°	1095.9	1106.3	1133.1	1176.6	1237.0	1321.5	1422.3	1548.5	1678.0	1751.7	1751.7	1762.2
70°	963.9	975.9	995.3	1031.2	1090.8	1166.1	1272.3	1385.3	1521.0	1605.5	1605.5	1618.2
72.5°	805.8	816.3	838.0	867.4	916.3	963.7	1046.9	1130.3	1227.5	1323.7	1323.7	1314.4
75°	578.5	583.1	596.1	628.0	654.2	696.9	763.7	832.1	898.4	942.5	942.5	948.7
77.5°	300.7	312.5	330.9	366.2	394.7	433.2	476.6	528.0	576.6	617.0	617.0	605.9
80°	196.8	201.9	218.2	236.4	257.2	281.8	310.9	330.1	336.3	333.8	333.8	336.3
82.5°	113.5	122.8	144.6	158.4	173.9	182.4	205.6	227.6	240.0	224.5	224.5	218.9
85°	14.4	18.7	58.8	74.0	84.7	97.4	104.5	117.7	109.8	98.2	98.2	119.7
87.5°	3.1	2.8	3.9	8.5	8.7	7.4	13.9	14.7	9.0	4.6	4.6	5.6
90°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4
2.5°	334.0	334.3	334.9	335.8	336.3	336.9	337.4	338.2	338.9	339.4	340.5
5°	332.6	333.8	334.9	336.0	337.4	339.7	341.1	342.2	343.3	345.6	346.4
7.5°	331.8	333.8	335.4	337.4	339.7	341.7	344.1	345.6	347.3	348.7	350.4
10°	331.2	334.0	335.8	338.5	341.1	343.1	345.9	347.6	349.5	351.3	352.1
12.5°	332.3	333.8	335.4	338.2	341.3	344.1	347.3	348.7	350.4	351.8	352.1
15°	337.1	337.1	337.4	339.7	342.8	345.1	347.6	349.0	349.8	350.7	350.7
17.5°	345.9	343.9	342.5	342.8	344.8	346.2	347.6	347.6	347.0	346.7	346.2
20°	356.1	353.5	350.7	348.7	348.2	347.0	346.2	343.3	341.1	339.1	337.7
22.5°	370.8	366.7	362.8	359.2	355.8	351.5	346.7	341.1	335.8	332.0	329.8
25°	388.8	385.7	380.9	375.2	371.0	363.1	356.9	348.7	342.0	337.1	333.2
27.5°	414.5	410.9	406.3	401.2	395.0	386.2	378.7	369.0	360.8	353.8	348.7
30°	446.4	441.7	438.2	432.0	427.8	417.9	410.3	398.4	382.6	371.3	364.2
32.5°	479.2	473.8	471.0	466.2	461.3	455.4	443.8	425.5	405.2	386.8	374.7
35°	522.9	517.3	512.2	508.0	500.9	489.8	479.7	457.7	429.7	404.0	383.7
37.5°	578.0	568.7	556.0	545.3	532.8	517.0	501.5	478.9	446.9	413.7	386.5
40°	636.7	620.3	602.3	582.2	560.7	537.9	520.1	497.2	461.3	421.9	384.6
42.5°	698.0	672.0	646.8	618.7	588.7	561.7	538.4	513.4	472.1	424.1	376.7
45°	758.7	729.6	691.5	654.5	616.7	583.1	557.1	528.8	482.0	425.0	366.2
47.5°	808.9	779.1	735.5	689.2	644.4	606.2	575.8	545.3	495.2	430.9	363.6
50°	862.1	825.6	777.3	722.6	671.7	629.1	596.6	565.0	513.9	446.1	371.9
52.5°	919.9	878.1	821.7	760.4	704.8	657.1	621.8	589.3	537.6	467.6	387.4
55°	990.5	939.4	878.1	808.9	749.4	696.6	657.6	619.2	565.8	493.0	406.8
57.5°	1098.3	1035.6	966.8	888.0	822.0	759.6	713.0	668.6	609.6	530.9	433.5
60°	1293.5	1226.5	1137.1	1041.7	963.9	891.1	822.8	767.8	695.1	605.4	492.1
62.5°	1573.1	1484.0	1364.7	1231.1	1129.4	1024.4	947.4	865.4	775.3	678.5	561.3
65°	1728.3	1620.4	1460.6	1305.6	1174.9	1060.8	962.8	868.0	768.0	675.4	577.4
66°	1747.6	1635.1	1469.1	1305.9	1168.7	1051.5	948.4	850.2	748.0	659.6	570.7
67.5°	1739.6	1624.7	1453.6	1281.3	1141.9	1016.0	909.4	807.6	705.6	623.2	548.1
70°	1610.1	1501.0	1333.1	1166.1	1033.7	909.4	807.9	707.6	614.1	543.5	488.2
72.5°	1337.0	1243.8	1097.8	966.8	862.9	760.4	674.3	578.5	499.5	447.3	414.5
75°	965.1	908.6	775.6	700.5	609.3	541.2	457.7	400.9	344.1	318.8	313.2
77.5°	609.6	533.7	449.2	369.8	304.1	252.1	196.3	166.6	139.0	136.1	164.4
80°	308.6	277.8	214.0	170.6	143.4	116.1	91.8	69.4	48.6	58.4	70.1
82.5°	202.2	168.6	132.1	108.7	94.6	78.4	61.0	42.4	31.1	35.0	48.0
85°	109.2	93.2	75.1	59.3	48.0	42.9	28.8	20.3	20.0	21.5	27.4
87.5°	7.9	7.9	6.2	5.6	6.7	5.6	5.1	5.1	4.8	5.1	6.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4
2.5°	341.1	342.0	342.2	343.6	344.5	345.1	345.6	345.6	345.9	346.7	347.0
5°	347.6	349.0	350.7	351.8	352.4	354.1	354.6	354.6	355.2	356.4	357.2
7.5°	351.5	353.5	355.2	355.8	356.9	357.5	358.3	358.9	358.9	360.0	360.6
10°	353.0	354.1	355.8	355.8	356.9	356.9	357.7	358.0	358.0	359.2	360.0
12.5°	353.0	353.5	354.9	354.9	355.8	356.1	357.2	358.0	358.3	359.7	360.8
15°	351.3	351.8	353.0	353.3	355.2	356.4	358.9	360.6	360.6	362.0	362.6
17.5°	346.4	347.9	350.2	352.4	356.1	358.5	361.7	363.1	362.0	361.1	360.3
20°	338.5	341.1	346.4	352.1	358.5	362.0	363.6	362.3	358.3	354.4	351.8
22.5°	330.7	335.8	344.8	353.3	360.6	362.8	362.0	356.9	350.4	345.6	342.2
25°	334.3	340.2	349.0	356.6	361.5	360.8	357.5	350.4	343.3	337.1	331.5
27.5°	349.5	356.1	360.8	363.4	362.8	358.9	353.5	345.6	337.1	328.9	321.0
30°	363.9	367.4	368.5	366.5	362.0	355.4	348.7	339.7	328.4	318.2	309.2
32.5°	370.5	367.0	361.7	356.4	349.0	343.3	334.0	324.1	310.1	297.9	288.8
35°	370.5	356.9	343.3	332.0	321.0	314.0	303.2	289.9	277.0	266.8	259.8
37.5°	362.3	336.3	314.0	295.6	281.8	274.2	258.0	246.2	235.2	231.8	227.3
40°	347.3	308.9	276.7	252.7	235.2	223.9	207.8	199.6	195.4	193.7	192.8
42.5°	327.3	278.4	235.4	205.8	186.9	174.2	163.5	158.4	158.1	157.8	157.8
45°	305.8	245.7	195.4	160.1	143.4	132.1	127.0	125.1	126.7	126.5	126.7
47.5°	292.5	220.8	158.7	121.1	108.4	101.0	98.5	99.4	100.8	100.2	100.2
50°	290.9	208.1	134.1	94.3	84.7	81.0	80.5	80.5	81.3	80.7	80.5
52.5°	297.0	206.1	121.5	81.0	73.4	70.3	69.7	69.4	69.2	67.5	66.1
55°	307.8	210.7	117.7	77.6	69.7	66.3	65.5	65.0	63.8	61.6	59.0
57.5°	329.2	224.8	121.1	79.4	70.9	68.1	67.2	67.2	65.0	61.2	57.6
60°	380.9	260.6	134.9	85.8	76.3	73.4	74.0	73.7	70.3	65.0	59.3
62.5°	447.6	307.5	153.1	94.9	83.0	82.5	85.3	84.7	79.1	70.9	62.7
65°	478.3	329.5	158.1	96.9	84.5	86.9	92.6	92.0	85.0	73.7	63.2
66°	478.9	329.5	155.9	95.1	82.5	85.6	91.2	90.9	83.8	72.5	62.1
67.5°	467.3	320.5	149.3	91.8	78.4	80.7	85.8	85.6	79.1	69.7	59.9
70°	423.8	286.8	132.7	85.8	73.2	72.0	73.7	72.5	68.3	61.9	55.0
72.5°	363.1	240.8	115.8	81.3	69.4	65.0	63.8	63.0	59.6	56.0	51.7
75°	286.0	190.6	101.7	77.9	66.1	60.1	58.1	57.0	54.8	52.2	48.8
77.5°	176.5	136.4	88.7	73.4	63.5	57.6	56.2	54.5	51.1	48.0	45.5
80°	78.8	84.5	72.8	64.1	56.8	51.4	49.1	46.6	43.2	41.2	39.8
82.5°	52.5	54.5	52.8	48.0	42.9	38.7	35.3	35.3	34.7	33.1	32.4
85°	33.6	33.9	32.7	29.6	27.7	25.2	23.7	24.0	25.2	24.9	24.6
87.5°	7.7	7.7	9.0	8.5	9.8	10.5	11.3	12.1	13.9	13.9	14.7
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):

	160°	165°	170°	175°	180°
0°	337.4	337.4	337.4	337.4	337.4
2.5°	347.3	347.9	348.4	347.6	347.9
5°	357.2	356.9	358.3	357.5	358.0
7.5°	360.3	360.6	361.7	361.7	362.0
10°	360.6	361.1	362.6	363.4	363.9
12.5°	362.0	363.1	365.4	365.9	365.9
15°	363.1	363.6	365.1	365.7	366.2
17.5°	359.2	358.0	358.5	358.9	358.5
20°	349.3	348.2	347.9	346.7	347.3
22.5°	338.5	335.4	333.5	331.2	331.2
25°	325.6	320.7	316.8	312.8	313.7
27.5°	313.4	307.3	303.2	300.7	300.1
30°	301.6	295.0	291.4	288.3	288.3
32.5°	281.8	277.3	272.4	270.5	270.3
35°	254.4	251.6	247.7	246.7	245.4
37.5°	223.6	222.8	219.4	219.1	217.7
40°	191.4	192.0	190.9	190.3	189.4
42.5°	159.3	162.1	161.6	161.2	160.6
45°	128.5	130.5	130.8	131.6	133.0
47.5°	101.0	101.7	102.2	102.0	102.2
50°	79.1	77.6	77.4	76.5	77.4
52.5°	63.8	61.6	60.4	59.3	58.8
55°	56.2	53.9	52.8	52.2	51.7
57.5°	54.2	51.9	50.3	49.1	48.8
60°	54.8	51.4	49.1	47.7	47.5
62.5°	56.2	51.7	48.6	47.2	46.8
65°	56.0	51.1	48.3	46.6	46.3
66°	55.0	50.6	47.7	46.3	46.0
67.5°	53.7	49.7	47.2	46.0	45.5
70°	51.1	48.6	46.6	45.2	44.7
72.5°	48.8	46.8	45.2	43.7	43.5
75°	46.3	44.7	42.9	41.8	41.6
77.5°	43.2	41.6	40.4	39.5	39.3
80°	38.1	37.0	35.9	34.7	34.7
82.5°	31.6	30.8	29.6	28.8	28.5
85°	24.2	24.2	23.4	22.6	22.3
87.5°	14.4	14.1	14.1	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

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