

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: P156451

Luminaire Tested: **VXS-E01-LED-E1-T4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156451
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-E01-LED-E1-T4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.9 lumens
Efficiency: N/A
Efficacy: 125.5 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): 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

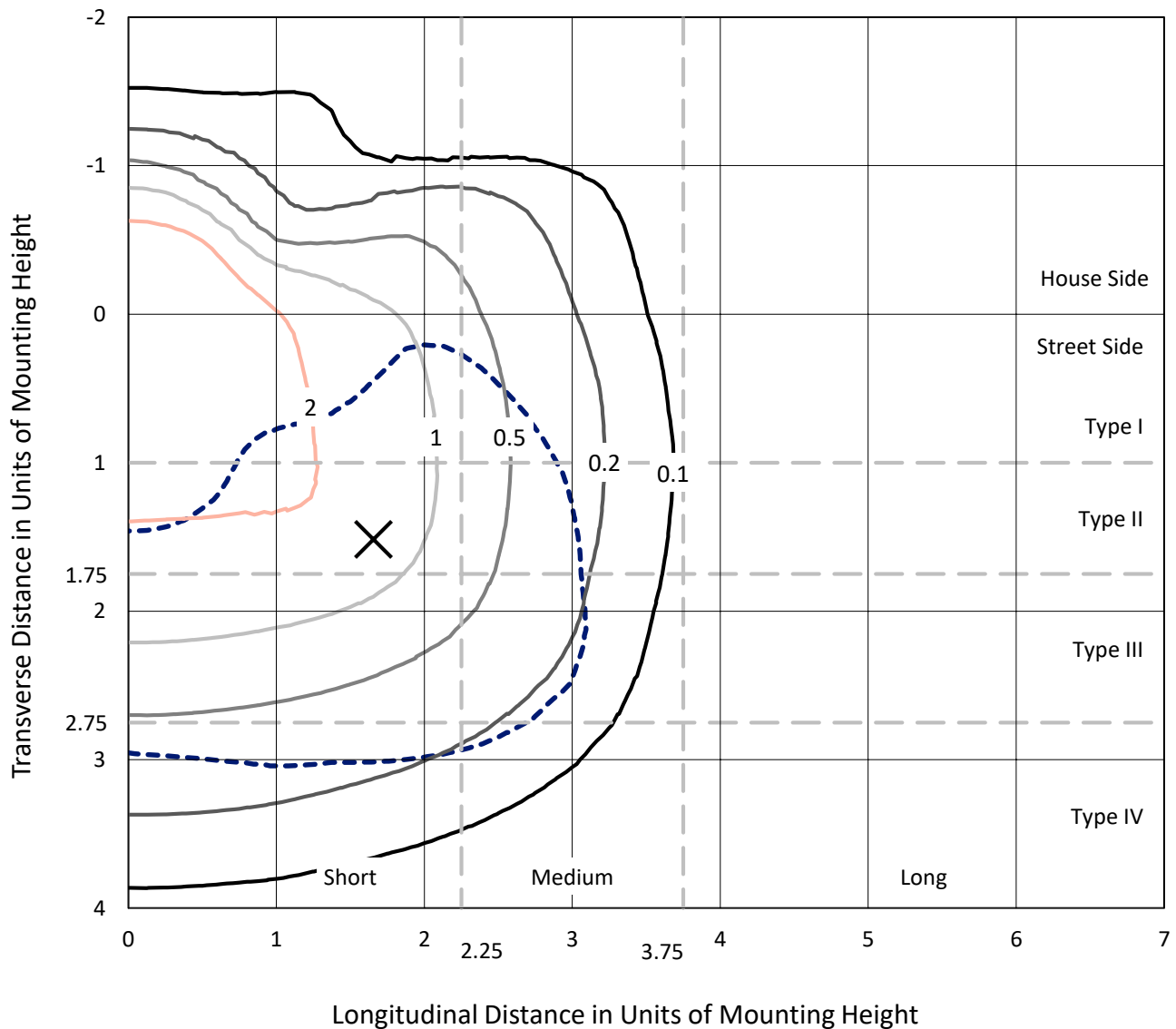


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

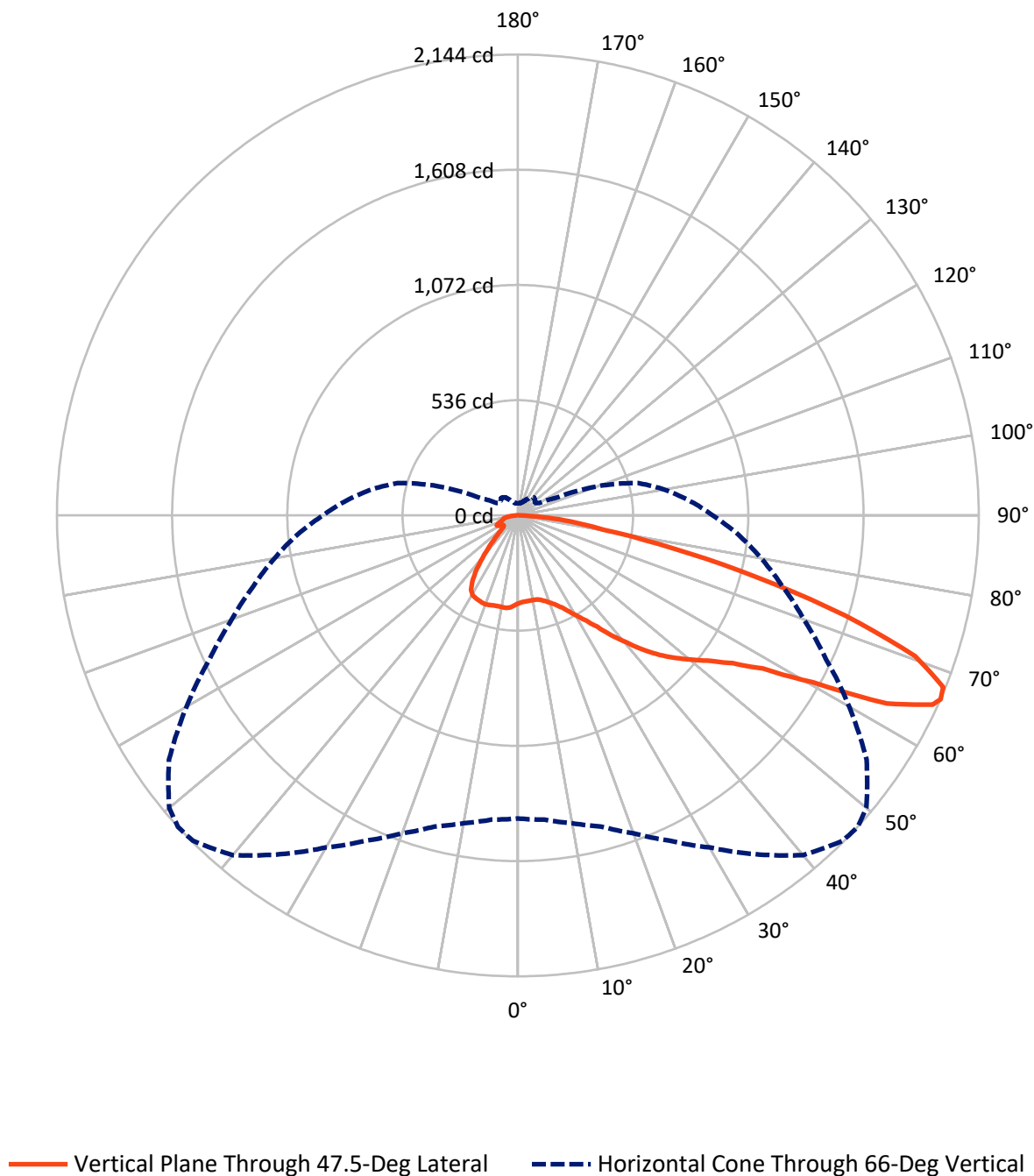


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	661.7	0.0	661.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	2439.3	0.0	2439.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	3100.9	0.0	3100.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.3
10°-20°	120.5	3.9
20°-30°	207.6	6.7
30°-40°	314.0	10.1
40°-50°	407.0	13.1
50°-60°	561.2	18.1
60°-70°	871.9	28.1
70°-80°	507.0	16.3
80°-90°	72.1	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°	3100.9	100.0
0°-180°	3100.9	100.0

Coefficient of Utilization



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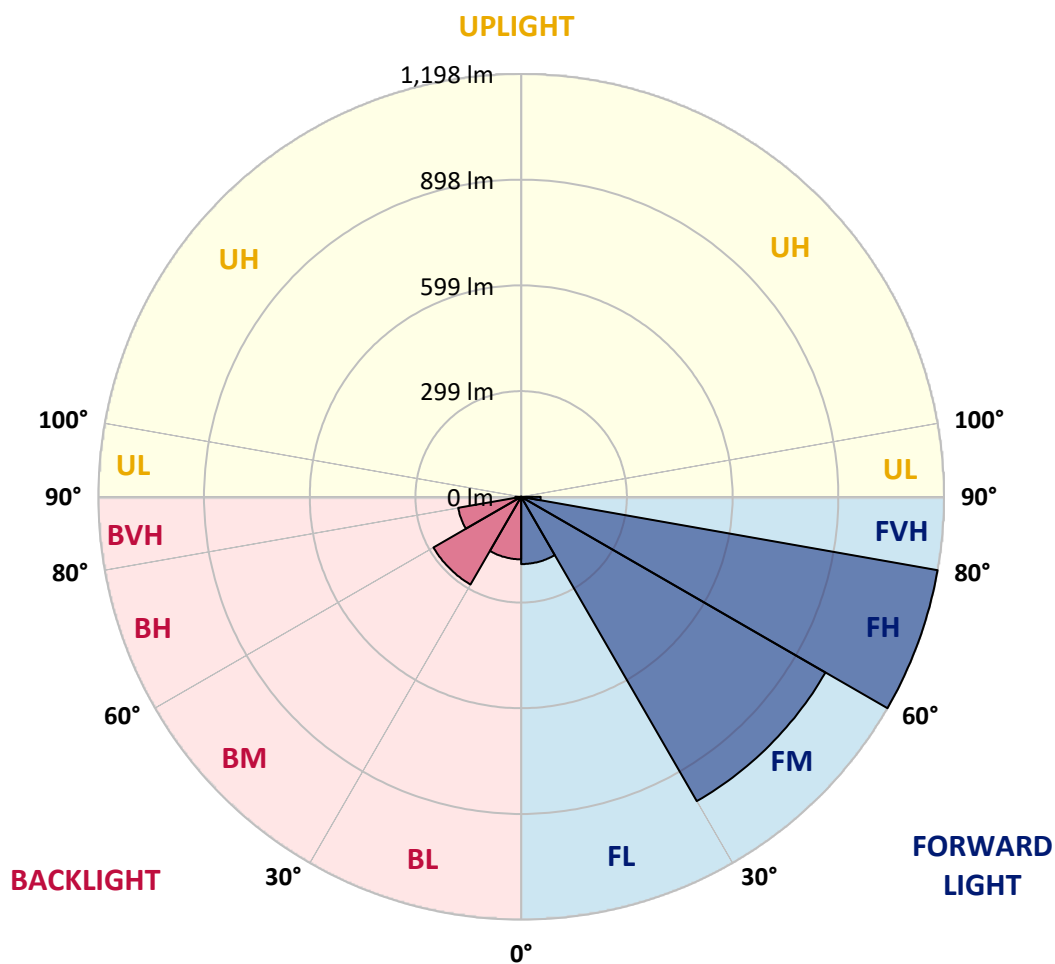
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	190.6	6.1			
FM	(30°-60°)	995.4	32.1			
FH	(60°-80°)	1197.9	38.6			G1/1800
FVH	(80°-90°)	55.3	1.8			G1/100
BL	(0°-30°)	177.1	5.7	B1/500		
BM	(30°-60°)	286.8	9.2	B1/1000		
BH	(60°-80°)	181.0	5.8	B1/500		G1/500
BVH	(80°-90°)	16.8	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°	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
2.5°	401.2	402.6	401.6	401.9	401.9	402.3	402.3	402.6	402.3	403.2	403.9
5°	394.0	394.7	394.4	395.0	395.8	397.1	396.8	398.4	398.9	399.8	401.6
7.5°	391.3	390.6	391.0	392.0	392.6	393.4	394.0	395.4	396.4	398.9	400.2
10°	394.0	393.7	394.0	394.7	394.7	395.0	394.4	395.8	396.4	398.4	399.8
12.5°	405.3	405.3	404.7	404.7	403.9	403.2	401.6	400.5	400.2	400.5	401.2
15°	423.4	422.8	421.3	420.3	419.0	416.6	414.2	412.1	410.8	408.7	408.1
17.5°	441.2	440.2	438.9	437.5	435.8	433.4	429.6	427.2	423.4	421.0	419.7
20°	461.8	459.7	458.0	456.3	452.8	452.1	448.4	444.4	439.9	434.4	433.7
22.5°	488.4	485.0	483.0	482.0	478.5	477.5	471.3	465.5	460.0	452.8	451.2
25°	515.4	512.0	511.0	509.6	507.3	505.9	500.1	493.6	486.4	476.5	474.4
27.5°	541.8	542.2	539.4	540.4	539.7	537.3	531.5	525.0	519.6	507.9	505.5
30°	574.6	572.5	571.2	573.3	570.9	571.2	566.1	562.7	553.8	546.9	542.2
32.5°	608.8	608.5	610.6	611.9	611.6	610.9	606.7	603.3	595.4	585.6	583.5
35°	655.6	657.7	659.5	665.6	665.6	670.1	665.9	661.9	652.6	640.6	636.5
37.5°	687.5	688.2	695.0	703.2	713.5	723.1	725.8	726.8	723.1	714.2	708.0
40°	716.6	717.9	728.9	741.6	756.6	775.4	786.6	791.8	792.8	788.7	775.4
42.5°	745.6	747.7	759.0	777.4	798.3	822.3	842.1	854.7	862.0	862.0	854.1
45°	779.5	782.3	794.5	814.7	839.0	869.1	896.5	920.7	932.4	933.1	925.6
47.5°	819.5	821.9	836.3	856.8	881.8	912.2	946.7	974.5	996.0	997.4	991.2
50°	871.2	874.6	886.5	905.0	930.7	961.5	996.0	1034.6	1057.2	1062.7	1056.2
52.5°	939.6	940.2	950.2	967.3	992.2	1021.7	1058.2	1100.3	1130.1	1134.5	1123.9
55°	1034.0	1033.0	1039.5	1057.9	1076.7	1099.7	1137.6	1184.8	1218.0	1224.9	1213.9
57.5°	1162.3	1161.2	1166.6	1171.1	1206.3	1228.6	1265.9	1311.0	1343.2	1363.0	1344.2
60°	1360.9	1359.9	1368.8	1394.8	1421.1	1453.7	1489.9	1543.9	1589.1	1594.9	1576.5
62.5°	1505.0	1510.1	1529.5	1560.0	1613.4	1677.0	1743.3	1814.5	1907.2	1936.6	1927.7
65°	1454.7	1465.0	1491.9	1538.1	1609.3	1697.2	1801.1	1930.2	2054.3	2123.7	2121.7
66°	1409.5	1420.8	1454.0	1498.4	1573.7	1669.8	1783.4	1923.9	2062.8	2139.4	2144.2
67.5°	1327.5	1340.1	1372.5	1425.3	1498.4	1600.7	1722.8	1875.8	2032.7	2122.0	2134.6
70°	1167.7	1182.1	1205.7	1249.1	1321.2	1412.6	1541.2	1678.0	1842.6	1944.8	1960.2
72.5°	976.2	988.8	1015.1	1050.8	1109.9	1167.4	1268.3	1369.1	1486.8	1603.4	1592.1
75°	700.8	706.3	722.1	760.7	792.5	844.1	925.2	1008.0	1088.4	1141.8	1149.2
77.5°	364.2	378.7	400.8	443.6	478.1	524.7	577.3	639.6	698.4	747.4	734.0
80°	238.4	244.6	264.4	286.3	311.6	341.3	376.6	399.8	407.4	404.2	407.4
82.5°	137.5	148.8	175.1	191.9	210.7	220.9	249.0	275.6	290.8	271.9	265.1
85°	17.4	22.6	71.2	89.6	102.6	118.0	126.5	142.6	133.1	119.1	145.0
87.5°	3.7	3.4	4.8	10.3	10.6	8.9	16.8	17.8	11.0	5.5	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
2.5°	404.7	405.0	405.7	406.6	407.4	408.1	408.7	409.7	410.5	411.1	412.5
5°	402.9	404.2	405.7	407.0	408.7	411.5	413.2	414.5	416.0	418.7	419.7
7.5°	401.9	404.2	406.3	408.7	411.5	413.9	416.9	418.7	420.7	422.4	424.5
10°	401.2	404.7	406.6	410.1	413.2	415.5	419.0	421.0	423.4	425.5	426.5
12.5°	402.6	404.2	406.3	409.7	413.5	416.9	420.7	422.4	424.5	426.2	426.5
15°	408.4	408.4	408.7	411.5	415.2	417.9	421.0	422.8	423.7	424.8	424.8
17.5°	419.0	416.6	414.9	415.2	417.6	419.4	421.0	421.0	420.3	420.0	419.4
20°	431.3	428.2	424.8	422.4	421.8	420.3	419.4	416.0	413.2	410.8	409.1
22.5°	449.1	444.4	439.5	435.0	431.0	425.8	420.0	413.2	406.6	402.3	399.5
25°	471.0	467.3	461.5	454.6	449.4	439.9	432.3	422.4	414.2	408.4	403.6
27.5°	502.1	497.6	492.2	486.0	478.5	467.9	458.7	447.0	437.1	428.6	422.4
30°	540.7	534.9	530.9	523.3	518.1	506.2	497.0	482.6	463.4	449.7	441.2
32.5°	580.4	573.9	570.5	564.7	558.9	551.7	537.7	515.4	490.8	468.6	453.9
35°	633.5	626.6	620.4	615.3	606.7	593.5	581.1	554.4	520.6	489.4	464.9
37.5°	700.1	688.8	673.5	660.5	645.4	626.2	607.5	580.1	541.5	501.0	468.3
40°	771.3	751.5	729.5	705.3	679.3	651.6	630.1	602.3	558.9	511.0	465.8
42.5°	845.5	814.1	783.6	749.4	713.2	680.3	652.2	621.9	571.9	513.8	456.3
45°	919.1	883.8	837.6	792.8	747.0	706.3	674.8	640.6	583.8	514.7	443.6
47.5°	979.9	943.6	891.0	834.9	780.5	734.3	697.4	660.5	599.9	522.0	440.5
50°	1044.2	1000.1	941.7	875.2	813.7	762.1	722.7	684.5	622.5	540.4	450.5
52.5°	1114.3	1063.7	995.3	921.1	853.7	796.0	753.2	713.8	651.2	566.4	469.2
55°	1199.9	1137.9	1063.7	979.9	907.8	843.8	796.6	750.1	685.4	597.2	492.8
57.5°	1330.5	1254.6	1171.1	1075.8	995.6	920.1	863.6	809.9	738.4	643.0	525.0
60°	1566.8	1485.8	1377.4	1261.8	1167.7	1079.5	996.7	929.9	842.1	733.4	596.2
62.5°	1905.5	1797.7	1653.1	1491.3	1368.2	1240.9	1147.6	1048.3	939.3	821.9	680.0
65°	2093.6	1962.9	1769.3	1581.6	1423.2	1285.1	1166.3	1051.4	930.4	818.1	699.5
66°	2116.9	1980.7	1779.6	1581.9	1415.6	1273.8	1148.9	1029.8	906.0	799.0	691.3
67.5°	2107.3	1968.1	1760.8	1552.1	1383.2	1230.7	1101.7	978.2	854.7	754.9	663.9
70°	1950.3	1818.2	1614.7	1412.6	1252.2	1101.7	978.5	857.1	743.9	658.4	591.4
72.5°	1619.6	1506.6	1329.8	1171.1	1045.3	921.1	816.8	700.8	605.1	541.8	502.1
75°	1169.1	1100.6	939.6	848.6	738.1	655.6	554.4	485.7	416.9	386.1	379.3
77.5°	738.4	646.4	544.1	448.1	368.4	305.4	237.7	201.8	168.3	164.9	199.1
80°	373.9	336.6	259.3	206.6	173.8	140.6	111.2	84.1	58.9	70.8	84.9
82.5°	244.9	204.1	160.1	131.7	114.6	95.1	73.9	51.3	37.6	42.4	58.1
85°	132.3	112.8	91.0	71.8	58.1	52.0	34.9	24.7	24.2	26.0	33.2
87.5°	9.5	9.5	7.6	6.8	8.2	6.8	6.1	6.1	5.8	6.1	8.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7	408.7
2.5°	413.2	414.2	414.5	416.3	417.3	417.9	418.7	418.7	419.0	420.0	420.3
5°	421.0	422.8	424.8	426.2	426.8	428.9	429.6	429.6	430.3	431.6	432.6
7.5°	425.8	428.2	430.3	431.0	432.3	433.1	434.1	434.7	434.7	436.1	436.8
10°	427.6	428.9	431.0	431.0	432.3	432.3	433.4	433.7	433.7	435.0	436.1
12.5°	427.6	428.2	429.9	429.9	431.0	431.3	432.6	433.7	434.1	435.8	437.1
15°	425.5	426.2	427.6	427.9	430.3	431.6	434.7	436.8	436.8	438.4	439.2
17.5°	419.7	421.3	424.1	426.8	431.3	434.4	438.1	439.9	438.4	437.5	436.5
20°	410.1	413.2	419.7	426.5	434.4	438.4	440.5	438.9	434.1	429.2	426.2
22.5°	400.5	406.6	417.6	427.9	436.8	439.5	438.4	432.3	424.5	418.7	414.5
25°	405.0	412.1	422.8	432.0	437.8	437.1	433.1	424.5	416.0	408.4	401.6
27.5°	423.4	431.3	437.1	440.2	439.5	434.7	428.2	418.7	408.4	398.4	388.9
30°	440.9	445.0	446.3	443.9	438.4	430.7	422.4	411.5	397.8	385.5	374.5
32.5°	448.7	444.7	438.1	431.6	422.8	416.0	404.7	392.6	375.5	360.8	349.9
35°	448.7	432.3	416.0	402.3	388.9	380.3	367.4	351.3	335.5	323.2	314.7
37.5°	438.9	407.4	380.3	358.1	341.3	332.1	312.6	298.2	284.9	280.8	275.3
40°	420.7	374.2	335.2	306.1	284.9	271.2	251.7	241.9	236.7	234.6	233.6
42.5°	396.4	337.2	285.3	249.3	226.4	211.0	198.0	191.9	191.5	191.2	191.2
45°	370.5	297.6	236.7	193.9	173.8	160.1	153.9	151.5	153.6	153.3	153.6
47.5°	354.3	267.5	192.2	146.7	131.3	122.5	119.4	120.4	122.1	121.5	121.5
50°	352.3	252.1	162.5	114.2	102.6	98.1	97.5	97.5	98.5	97.8	97.5
52.5°	359.8	249.6	147.0	98.1	88.9	85.2	84.5	84.1	83.8	81.8	80.0
55°	372.8	255.1	142.6	94.1	84.5	80.4	79.4	78.7	77.3	74.6	71.5
57.5°	398.9	272.2	146.7	96.1	85.8	82.4	81.5	81.5	78.7	74.2	69.7
60°	461.5	315.6	163.5	103.9	92.3	88.9	89.6	89.2	85.2	78.7	71.8
62.5°	542.2	372.4	185.4	114.9	100.5	99.9	103.3	102.6	95.8	85.8	76.0
65°	579.4	399.2	191.5	117.3	102.3	105.4	112.2	111.5	102.9	89.2	76.6
66°	580.1	399.2	188.8	115.2	99.9	103.6	110.5	110.2	101.6	87.9	75.2
67.5°	566.1	388.2	180.9	111.2	95.1	97.8	103.9	103.6	95.8	84.5	72.5
70°	513.4	347.5	160.7	103.9	88.6	87.3	89.2	87.9	82.8	74.9	66.7
72.5°	439.9	291.7	140.2	98.5	84.1	78.7	77.3	76.3	72.1	67.8	62.6
75°	346.5	230.9	123.1	94.4	80.0	72.8	70.5	69.1	66.3	63.3	59.2
77.5°	213.8	165.2	107.4	88.9	77.0	69.7	68.1	66.0	61.9	58.1	55.0
80°	95.4	102.3	88.3	77.6	68.7	62.3	59.5	56.5	52.3	49.9	48.2
82.5°	63.6	66.0	63.9	58.1	52.0	46.8	42.8	42.8	42.1	40.0	39.4
85°	40.7	41.0	39.7	36.0	33.5	30.5	28.7	29.1	30.5	30.1	29.7
87.5°	9.2	9.2	11.0	10.3	12.0	12.6	13.7	14.7	16.8	16.8	17.8
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):

	160°	165°	170°	175°	180°
0°	408.7	408.7	408.7	408.7	408.7
2.5°	420.7	421.3	422.1	421.0	421.3
5°	432.6	432.3	434.1	433.1	433.7
7.5°	436.5	436.8	438.1	438.1	438.4
10°	436.8	437.5	439.2	440.2	440.9
12.5°	438.4	439.9	442.6	443.3	443.3
15°	439.9	440.5	442.3	442.9	443.6
17.5°	435.0	433.7	434.4	434.7	434.4
20°	423.1	421.8	421.3	420.0	420.7
22.5°	410.1	406.3	403.9	401.2	401.2
25°	394.4	388.6	383.7	379.0	380.0
27.5°	379.7	372.1	367.4	364.2	363.6
30°	365.3	357.4	353.0	349.2	349.2
32.5°	341.3	335.9	330.1	327.7	327.4
35°	308.2	304.8	300.0	299.0	297.2
37.5°	270.9	269.8	265.8	265.4	263.7
40°	231.9	232.5	231.2	230.6	229.5
42.5°	193.0	196.4	195.6	195.3	194.6
45°	155.6	158.0	158.3	159.4	161.1
47.5°	122.5	123.1	123.8	123.5	123.8
50°	95.8	94.1	93.7	92.6	93.7
52.5°	77.3	74.6	73.2	71.8	71.2
55°	68.1	65.3	63.9	63.3	62.6
57.5°	65.7	62.9	60.9	59.5	59.2
60°	66.3	62.3	59.5	57.8	57.5
62.5°	68.1	62.6	58.9	57.1	56.8
65°	67.8	61.9	58.4	56.5	56.1
66°	66.7	61.2	57.8	56.1	55.8
67.5°	65.0	60.2	57.1	55.8	55.0
70°	61.9	58.9	56.5	54.7	54.1
72.5°	59.2	56.8	54.7	53.1	52.6
75°	56.1	54.1	52.0	50.6	50.3
77.5°	52.3	50.3	48.9	47.9	47.6
80°	46.2	44.8	43.4	42.1	42.1
82.5°	38.3	37.3	36.0	34.9	34.5
85°	29.4	29.4	28.4	27.4	27.0
87.5°	17.4	17.1	17.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

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