

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: P676264

Luminaire Tested: **CCW-SA-1B-735-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676264
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

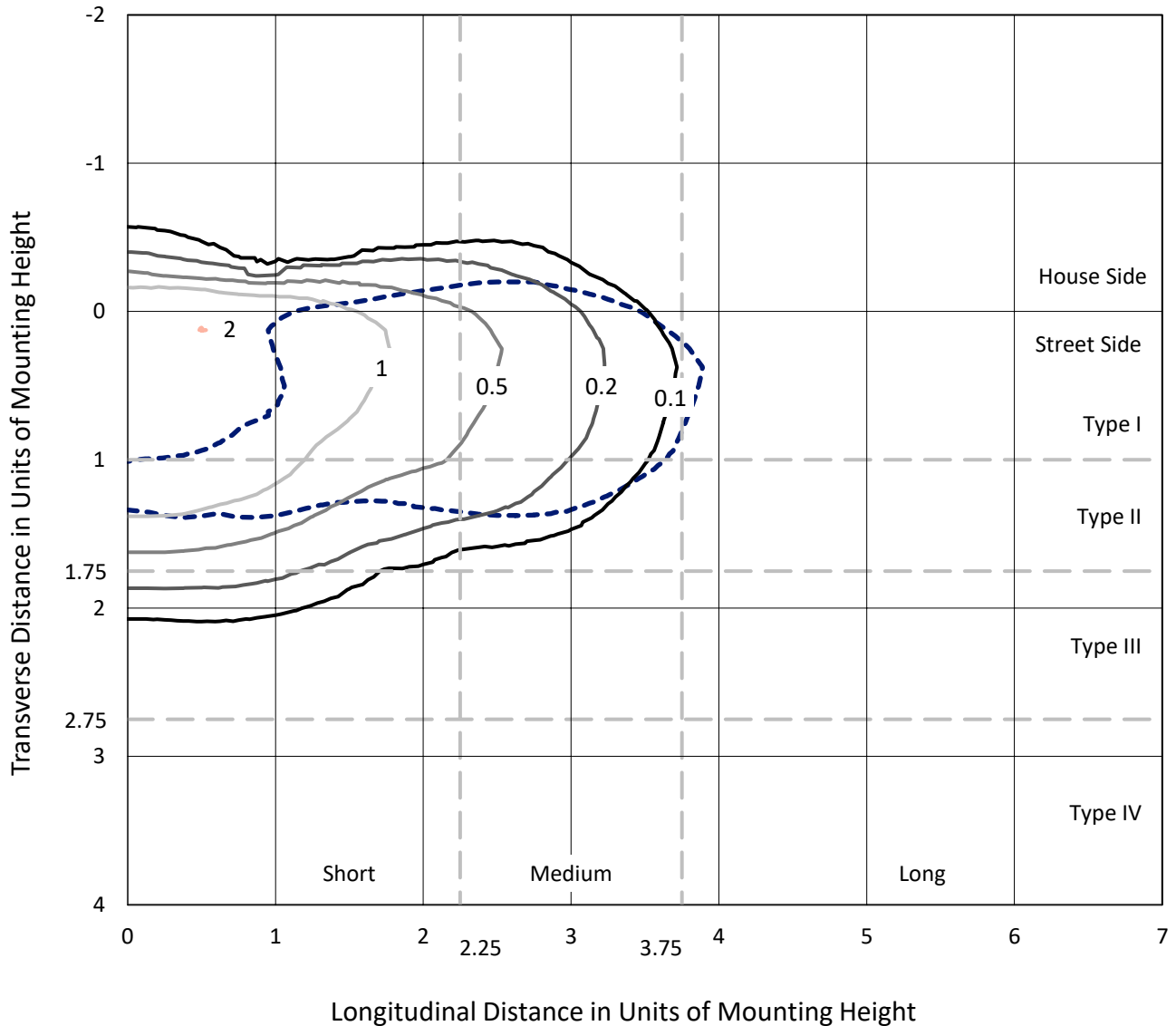
Lumens per Lamp: N/A
Luminaire Lumens: 2629.8 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
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

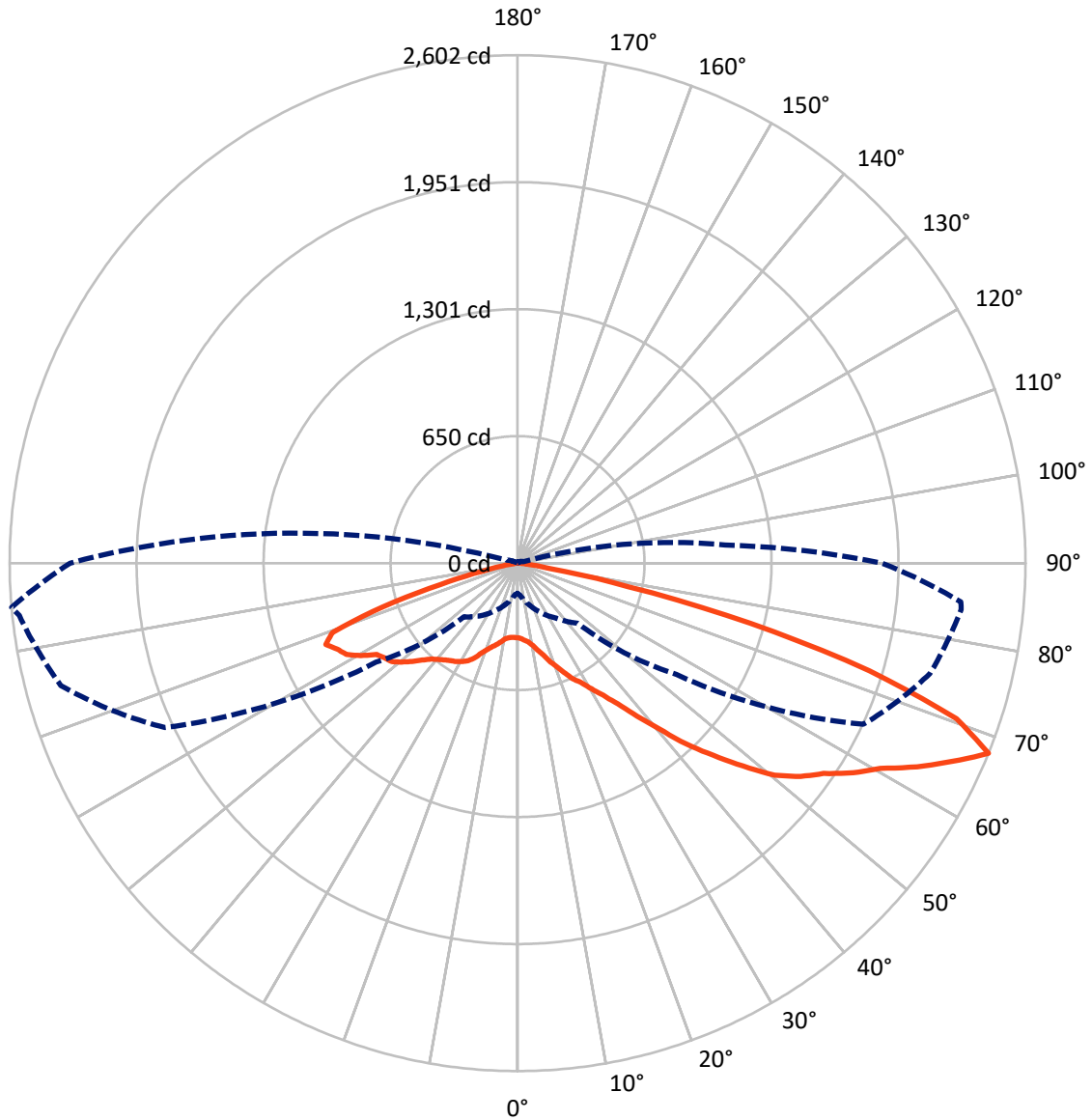
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	373.6	0.0	373.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2256.2	0.0	2256.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	2629.8	0.0	2629.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	1.3
10°-20°	93.8	3.6
20°-30°	155.7	5.9
30°-40°	267.9	10.2
40°-50°	481.4	18.3
50°-60°	685.4	26.1
60°-70°	624.8	23.8
70°-80°	266.1	10.1
80°-90°	19.8	0.8
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°	2629.8	100.0
0°-180°	2629.8	100.0



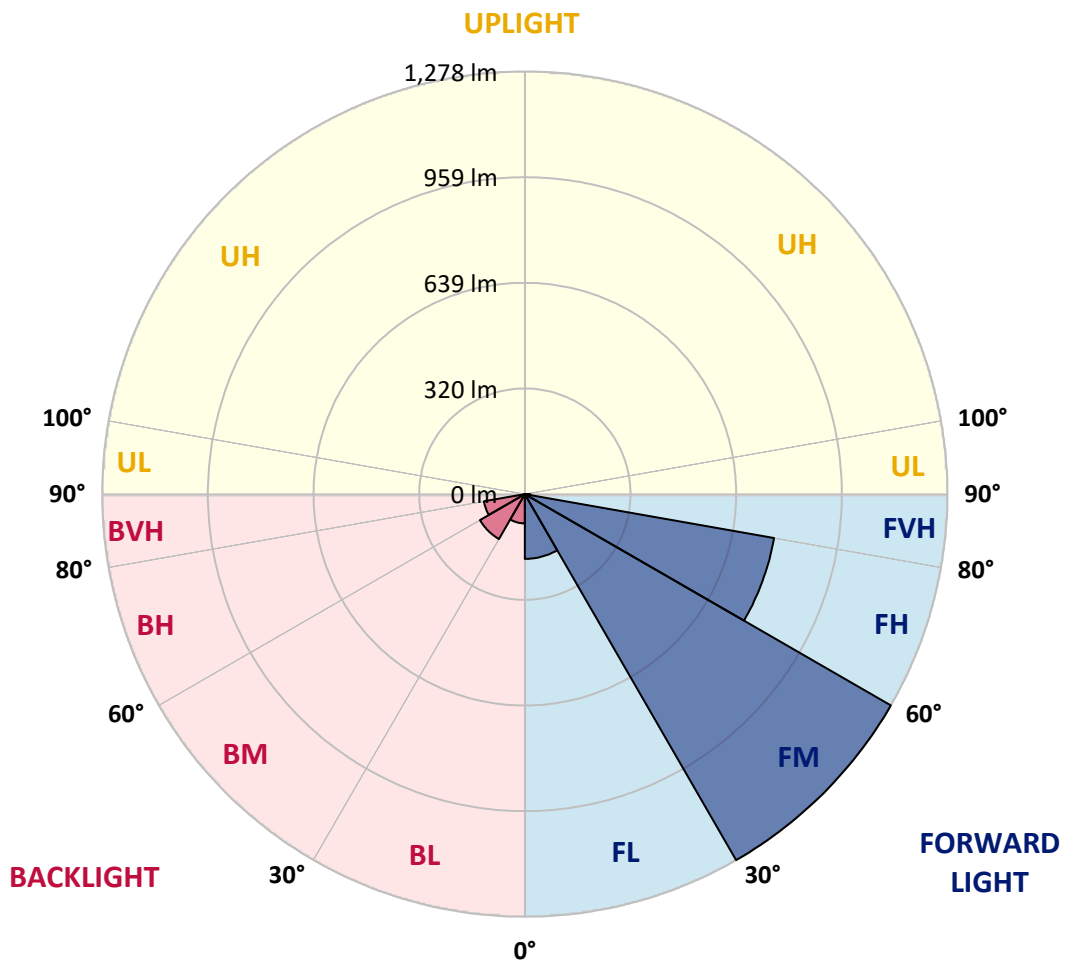
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.9	7.4			
FM (30°-60°)	1278.1	48.6			
FH (60°-80°)	765.4	29.1			G1/1800
FVH (80°-90°)	16.8	0.6			G1/100
BL (0°-30°)	88.4	3.4	B0/110		
BM (30°-60°)	156.6	6.0	B0/220		
BH (60°-80°)	125.5	4.8	B1/500		G1/500
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4
2.5°	396.2	400.0	400.0	398.7	394.9	392.4	391.2	388.7	386.2	386.2	387.4
5°	400.0	396.2	401.2	394.9	394.9	394.9	400.0	397.5	396.2	389.9	389.9
7.5°	400.0	396.2	396.2	400.0	396.2	398.7	405.0	402.5	407.5	396.2	398.7
10°	388.7	387.4	389.9	394.9	396.2	401.2	407.5	420.0	421.3	413.8	412.5
12.5°	366.1	364.9	373.6	376.1	391.2	403.7	422.5	432.6	443.8	440.1	432.6
15°	349.8	352.3	358.6	368.6	382.4	405.0	426.3	448.9	468.9	463.9	461.4
17.5°	356.1	354.8	356.1	362.3	379.9	402.5	438.8	465.2	494.0	494.0	496.5
20°	374.9	378.6	377.4	373.6	382.4	401.2	438.8	485.2	532.9	529.1	529.1
22.5°	407.5	408.7	401.2	398.7	397.5	408.7	446.4	510.3	565.5	573.0	570.5
25°	441.3	442.6	440.1	432.6	422.5	425.0	460.1	530.4	610.6	623.1	620.6
27.5°	497.8	496.5	490.2	481.5	466.4	455.1	481.5	545.4	645.7	667.0	660.8
30°	554.2	550.4	541.6	530.4	516.6	495.3	507.8	574.2	689.6	709.7	695.9
32.5°	623.1	615.6	618.1	600.6	571.7	537.9	535.4	600.6	724.7	753.5	742.3
35°	710.9	702.1	689.6	673.3	645.7	600.6	586.8	643.2	783.6	804.9	804.9
37.5°	826.3	835.0	820.0	752.3	722.2	679.6	650.7	687.1	835.0	886.4	873.9
40°	944.1	951.6	924.1	873.9	808.7	756.0	738.5	758.5	912.8	974.2	950.4
42.5°	1039.4	1049.4	1039.4	974.2	922.8	855.1	823.7	842.6	1013.1	1087.0	1055.7
45°	1139.7	1149.7	1138.5	1095.8	1045.7	1006.8	927.8	951.6	1118.4	1228.7	1193.6
47.5°	1214.9	1227.5	1207.4	1198.6	1158.5	1152.2	1018.1	1044.4	1228.7	1371.7	1327.8
50°	1232.5	1246.3	1263.8	1273.9	1260.1	1275.1	1139.7	1162.3	1344.1	1503.3	1460.7
52.5°	1191.1	1204.9	1243.8	1290.2	1354.1	1399.2	1262.6	1281.4	1464.4	1612.4	1589.8
55°	1069.5	1082.0	1161.0	1223.7	1376.7	1450.6	1380.4	1459.4	1551.0	1726.5	1671.3
57.5°	865.1	880.2	984.2	1080.8	1301.4	1421.8	1450.6	1607.4	1693.9	1810.5	1746.5
60°	614.4	623.1	713.4	883.9	1093.3	1277.6	1436.9	1717.7	1806.7	1923.3	1889.5
62.5°	353.6	361.1	455.1	615.6	825.0	1067.0	1375.4	1821.8	1928.3	2047.5	2028.6
65°	234.5	237.0	300.9	388.7	536.6	786.1	1219.9	1914.6	2048.7	2146.5	2125.2
67.5°	154.2	168.0	218.2	278.3	343.5	435.1	994.3	1953.4	2186.6	2284.4	2279.4
70°	110.3	115.3	156.7	214.4	258.3	244.5	581.8	1678.8	2180.4	2322.0	2280.7
72.5°	65.2	70.2	104.1	160.5	203.1	155.5	272.1	1187.3	1806.7	1853.1	1841.8
75°	47.6	47.6	63.9	115.3	147.9	111.6	127.9	751.0	1199.9	1302.7	1301.4
77.5°	33.9	35.1	43.9	69.0	114.1	81.5	70.2	417.5	655.7	717.2	683.3
80°	20.1	21.3	30.1	41.4	82.8	58.9	46.4	190.6	252.0	254.5	242.0
82.5°	15.0	15.0	20.1	28.8	57.7	40.1	28.8	72.7	81.5	74.0	62.7
85°	8.8	7.5	15.0	21.3	33.9	22.6	20.1	33.9	37.6	27.6	25.1
87.5°	2.5	2.5	6.3	7.5	15.0	12.5	8.8	12.5	17.6	10.0	7.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4
2.5°	384.9	381.2	374.9	372.4	363.6	359.8	357.3	351.1	352.3	348.6	348.6
5°	381.2	381.2	368.6	354.8	341.0	332.3	322.2	309.7	309.7	304.7	305.9
7.5°	394.9	384.9	368.6	343.5	321.0	300.9	292.1	279.6	272.1	268.3	268.3
10°	403.7	393.7	366.1	336.0	307.2	282.1	263.3	245.7	235.7	235.7	234.5
12.5°	427.5	412.5	376.1	334.8	292.1	254.5	225.7	205.6	191.8	181.8	184.3
15°	447.6	431.3	381.2	324.7	265.8	213.1	178.0	140.4	121.6	111.6	107.8
17.5°	479.0	448.9	392.4	307.2	225.7	166.8	115.3	84.0	76.5	75.2	75.2
20°	505.3	470.2	393.7	273.3	185.6	106.6	74.0	69.0	65.2	63.9	62.7
22.5°	541.6	497.8	388.7	234.5	132.9	71.5	62.7	57.7	55.2	51.4	51.4
25°	579.3	534.1	378.6	198.1	81.5	61.4	55.2	50.2	45.1	42.6	43.9
27.5°	619.4	561.7	349.8	154.2	62.7	53.9	45.1	41.4	38.9	37.6	37.6
30°	652.0	579.3	307.2	102.8	56.4	47.6	40.1	36.4	33.9	32.6	32.6
32.5°	675.8	594.3	259.5	69.0	51.4	42.6	36.4	32.6	30.1	28.8	28.8
35°	715.9	605.6	215.7	58.9	46.4	37.6	31.3	28.8	26.3	26.3	26.3
37.5°	777.4	620.6	171.8	53.9	42.6	33.9	30.1	26.3	25.1	23.8	23.8
40°	831.3	639.4	122.9	48.9	38.9	31.3	26.3	23.8	22.6	21.3	21.3
42.5°	909.0	660.8	80.2	43.9	35.1	28.8	23.8	21.3	20.1	18.8	18.8
45°	1008.1	695.9	62.7	38.9	31.3	26.3	22.6	20.1	17.6	17.6	16.3
47.5°	1113.4	738.5	56.4	36.4	28.8	23.8	20.1	17.6	16.3	15.0	15.0
50°	1211.2	779.9	52.7	33.9	26.3	22.6	18.8	16.3	13.8	12.5	12.5
52.5°	1298.9	818.7	50.2	31.3	25.1	20.1	16.3	13.8	12.5	11.3	11.3
55°	1345.3	836.3	48.9	30.1	22.6	18.8	15.0	12.5	11.3	10.0	10.0
57.5°	1418.0	858.9	47.6	28.8	21.3	16.3	13.8	11.3	10.0	8.8	8.8
60°	1535.9	932.8	46.4	27.6	20.1	16.3	12.5	10.0	7.5	6.3	6.3
62.5°	1633.7	994.3	41.4	23.8	17.6	13.8	10.0	7.5	5.0	3.8	3.8
65°	1745.3	1023.1	36.4	21.3	15.0	11.3	7.5	5.0	3.8	1.3	1.3
67.5°	1866.9	1067.0	30.1	18.8	13.8	8.8	6.3	3.8	1.3	0.0	0.0
70°	1803.0	1011.8	25.1	16.3	12.5	7.5	5.0	2.5	0.0	0.0	0.0
72.5°	1413.0	724.7	20.1	15.0	11.3	7.5	5.0	1.3	0.0	0.0	0.0
75°	944.1	410.0	17.6	12.5	8.8	6.3	3.8	1.3	0.0	0.0	0.0
77.5°	512.8	184.3	15.0	11.3	7.5	5.0	3.8	1.3	0.0	0.0	0.0
80°	166.8	72.7	12.5	10.0	7.5	5.0	3.8	1.3	0.0	0.0	0.0
82.5°	45.1	22.6	12.5	10.0	7.5	5.0	3.8	1.3	0.0	0.0	0.0
85°	18.8	15.0	12.5	10.0	7.5	5.0	3.8	1.3	0.0	0.0	0.0
87.5°	7.5	5.0	5.0	6.3	5.0	3.8	2.5	1.3	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4
2.5°	349.8	352.3	353.6	353.6	359.8	366.1	373.6	379.9	379.9	383.7	387.4
5°	307.2	309.7	313.5	324.7	337.3	351.1	364.9	374.9	388.7	394.9	398.7
7.5°	272.1	274.6	284.6	295.9	313.5	337.3	361.1	383.7	397.5	403.7	408.7
10°	235.7	239.5	250.8	270.8	293.4	322.2	349.8	388.7	411.2	423.8	428.8
12.5°	183.1	193.1	208.1	229.4	258.3	302.2	353.6	393.7	432.6	447.6	457.6
15°	115.3	124.1	147.9	181.8	220.7	272.1	343.5	401.2	455.1	470.2	486.5
17.5°	74.0	75.2	82.8	119.1	169.3	234.5	328.5	412.5	480.2	501.5	526.6
20°	62.7	65.2	66.5	71.5	112.8	193.1	297.2	426.3	510.3	539.1	563.0
22.5°	52.7	53.9	56.4	60.2	67.7	140.4	254.5	426.3	536.6	579.3	606.8
25°	42.6	45.1	47.6	51.4	58.9	87.8	210.6	418.8	568.0	620.6	655.7
27.5°	37.6	37.6	40.1	43.9	50.2	61.4	166.8	396.2	591.8	645.7	692.1
30°	32.6	33.9	35.1	38.9	45.1	53.9	115.3	359.8	616.9	694.6	747.3
32.5°	28.8	28.8	31.3	33.9	40.1	48.9	74.0	304.7	649.5	732.2	806.2
35°	26.3	26.3	27.6	30.1	36.4	43.9	57.7	258.3	688.3	803.7	885.2
37.5°	23.8	23.8	25.1	27.6	32.6	38.9	52.7	221.9	728.5	875.2	994.3
40°	21.3	21.3	22.6	25.1	28.8	35.1	47.6	179.3	778.6	980.5	1113.4
42.5°	18.8	18.8	20.1	22.6	26.3	31.3	41.4	134.2	845.1	1094.6	1267.6
45°	16.3	16.3	17.6	20.1	22.6	28.8	37.6	102.8	917.8	1221.2	1403.0
47.5°	13.8	15.0	16.3	18.8	21.3	26.3	33.9	90.3	989.2	1355.4	1553.5
50°	12.5	12.5	13.8	16.3	20.1	23.8	31.3	89.0	1062.0	1458.2	1707.7
52.5°	11.3	11.3	12.5	15.0	18.8	22.6	30.1	91.5	1122.2	1553.5	1815.5
55°	10.0	10.0	11.3	12.5	16.3	21.3	27.6	94.0	1164.8	1650.0	1902.0
57.5°	8.8	8.8	10.0	12.5	15.0	18.8	25.1	96.5	1233.7	1745.3	2027.4
60°	6.3	6.3	8.8	11.3	13.8	16.3	23.8	99.1	1344.1	1876.9	2134.0
62.5°	3.8	3.8	5.0	8.8	11.3	15.0	21.3	94.0	1446.9	2046.2	2297.0
65°	1.3	2.5	3.8	5.0	8.8	12.5	17.6	85.3	1533.4	2215.5	2447.4
67.5°	0.0	0.0	1.3	3.8	7.5	10.0	15.0	62.7	1547.2	2291.9	2601.6
70°	0.0	0.0	1.3	3.8	6.3	10.0	13.8	35.1	1317.7	2047.5	2384.7
72.5°	0.0	0.0	0.0	2.5	6.3	8.8	12.5	26.3	971.7	1543.4	1884.5
75°	0.0	0.0	0.0	1.3	5.0	7.5	11.3	20.1	590.5	1029.4	1230.0
77.5°	0.0	0.0	0.0	1.3	3.8	7.5	11.3	17.6	208.1	490.2	578.0
80°	0.0	0.0	0.0	2.5	5.0	7.5	10.0	15.0	50.2	122.9	165.5
82.5°	0.0	0.0	0.0	1.3	3.8	6.3	8.8	12.5	20.1	36.4	57.7
85°	0.0	0.0	0.0	1.3	2.5	6.3	8.8	11.3	13.8	17.6	25.1
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	3.8	5.0	5.0	5.0	8.8
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4	382.4
2.5°	386.2	391.2	393.7	398.7	401.2	400.0	398.7	402.5	400.0	396.2
5°	400.0	400.0	403.7	405.0	405.0	401.2	403.7	402.5	400.0	400.0
7.5°	415.0	421.3	421.3	413.8	412.5	410.0	410.0	400.0	396.2	400.0
10°	430.1	435.1	436.3	427.5	416.3	411.2	405.0	392.4	386.2	388.7
12.5°	461.4	461.4	447.6	437.6	422.5	405.0	389.9	372.4	363.6	366.1
15°	484.0	489.0	470.2	447.6	421.3	388.7	372.4	358.6	353.6	349.8
17.5°	527.9	517.8	487.7	455.1	417.5	383.7	372.4	359.8	356.1	356.1
20°	565.5	560.4	515.3	456.4	416.3	393.7	386.2	379.9	378.6	374.9
22.5°	616.9	594.3	536.6	470.2	430.1	410.0	407.5	413.8	410.0	407.5
25°	655.7	636.9	552.9	490.2	451.4	445.1	448.9	455.1	445.1	441.3
27.5°	708.4	673.3	584.3	516.6	480.2	486.5	499.0	500.3	494.0	497.8
30°	757.3	719.7	608.1	546.7	529.1	535.4	554.2	568.0	559.2	554.2
32.5°	827.5	769.8	655.7	596.8	590.5	606.8	628.2	636.9	625.6	623.1
35°	901.5	827.5	704.6	653.2	664.5	687.1	705.9	720.9	703.4	710.9
37.5°	1016.8	920.3	787.4	742.3	747.3	756.0	791.1	832.5	841.3	826.3
40°	1137.2	1020.6	863.9	828.8	840.0	863.9	905.2	944.1	964.2	944.1
42.5°	1276.4	1117.1	981.7	940.4	951.6	985.5	1040.7	1072.0	1069.5	1039.4
45°	1448.1	1251.3	1092.1	1040.7	1082.0	1112.1	1167.3	1171.0	1147.2	1139.7
47.5°	1579.8	1364.1	1211.2	1178.6	1235.0	1236.2	1248.8	1250.0	1223.7	1214.9
50°	1725.2	1494.5	1344.1	1296.4	1391.7	1347.8	1314.0	1291.4	1251.3	1232.5
52.5°	1868.2	1587.3	1466.9	1418.0	1517.1	1400.5	1339.1	1270.1	1211.2	1191.1
55°	1944.6	1740.3	1646.2	1532.1	1544.7	1415.5	1261.3	1174.8	1074.5	1069.5
57.5°	2034.9	1843.1	1798.0	1609.9	1498.3	1310.2	1099.6	985.5	877.7	865.1
60°	2141.5	2006.1	1958.4	1597.3	1334.0	1100.8	871.4	724.7	623.1	614.4
62.5°	2260.6	2199.2	2057.5	1474.5	1059.5	774.8	575.5	452.6	358.6	353.6
65°	2448.7	2360.9	2110.1	1241.3	700.9	496.5	382.4	293.4	237.0	234.5
67.5°	2566.5	2422.3	1992.3	885.2	388.7	328.5	268.3	213.1	164.2	154.2
70°	2399.8	2223.0	1576.0	506.5	225.7	249.5	206.9	142.9	112.8	110.3
72.5°	1917.1	1650.0	1060.7	238.2	140.4	195.6	150.5	96.5	67.7	65.2
75°	1307.7	1038.1	665.8	110.3	99.1	142.9	110.3	56.4	47.6	47.6
77.5°	584.3	529.1	341.0	67.7	74.0	109.1	63.9	38.9	35.1	33.9
80°	178.0	186.8	139.2	46.4	55.2	82.8	38.9	26.3	21.3	20.1
82.5°	60.2	70.2	62.7	27.6	37.6	58.9	26.3	17.6	15.0	15.0
85°	28.8	35.1	31.3	17.6	20.1	28.8	21.3	13.8	8.8	8.8
87.5°	11.3	16.3	11.3	7.5	11.3	15.0	8.8	6.3	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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