

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: P676232

Luminaire Tested: **CCW-SA-1C-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676232
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-722-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

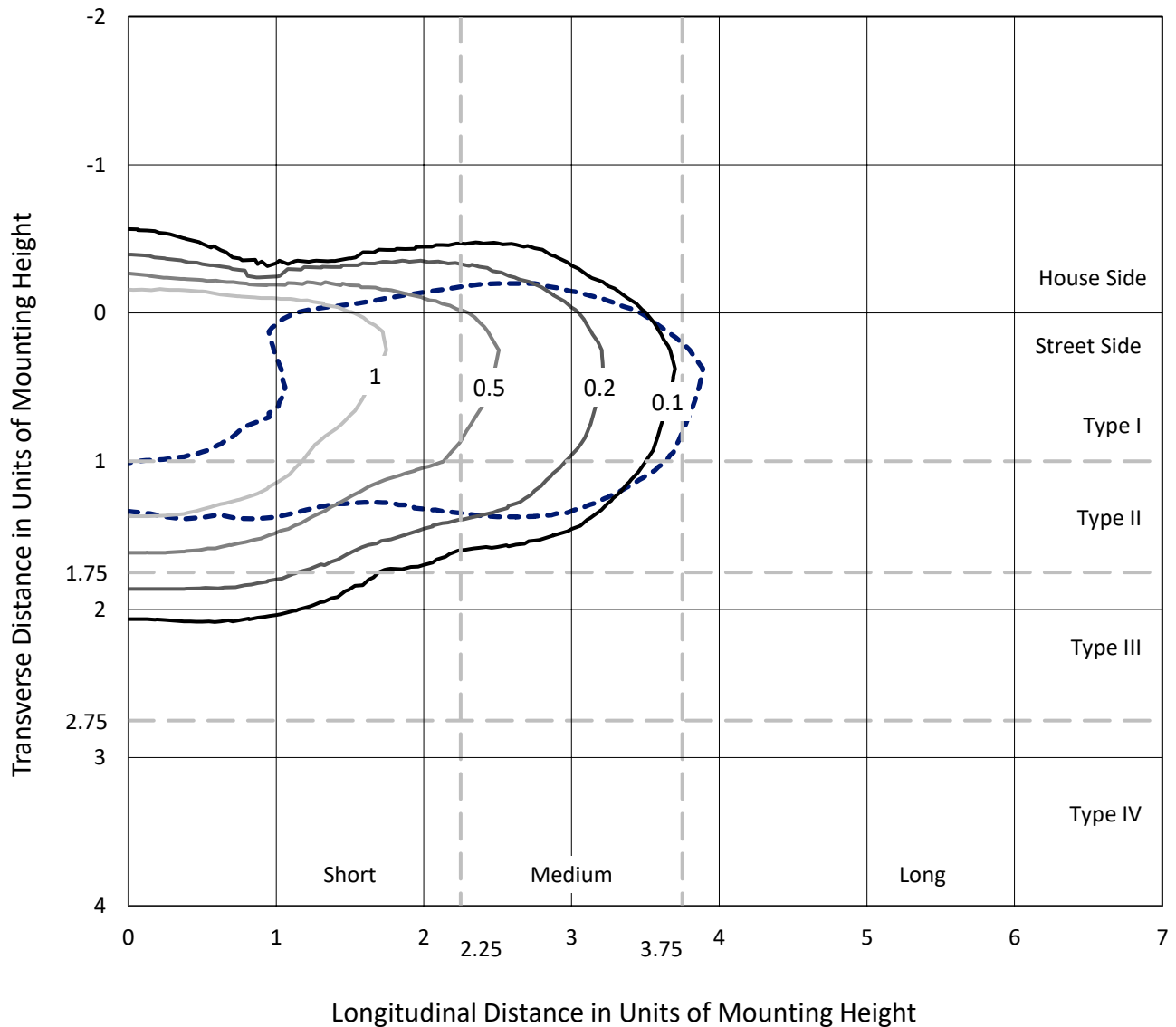
Lumens per Lamp: N/A
Luminaire Lumens: 2571.2 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

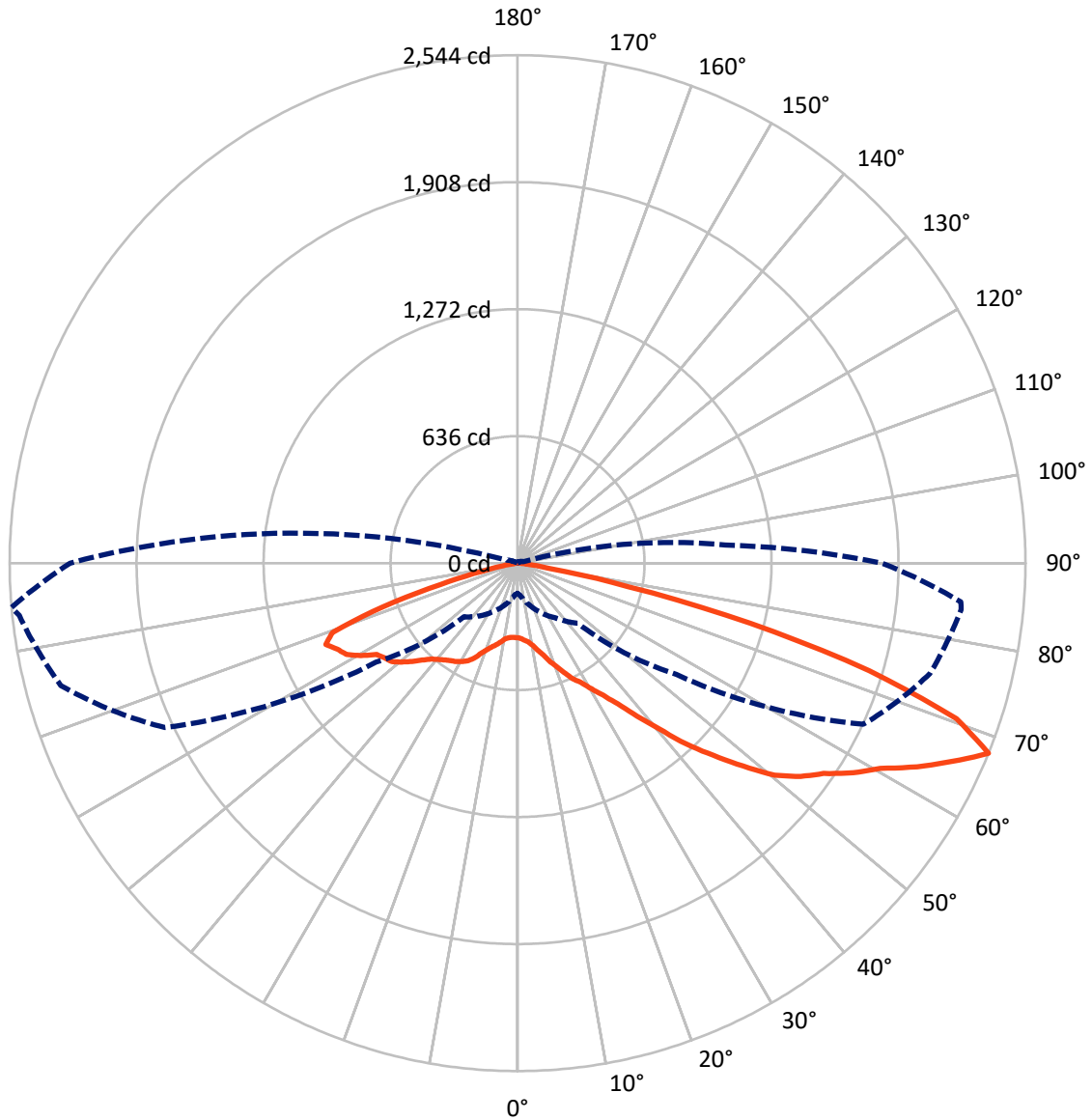
× Max cd
 - - - 1/2 Max cd



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	365.3	0.0	365.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2205.9	0.0	2205.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	2571.2	0.0	2571.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	1.3
10°-20°	91.7	3.6
20°-30°	152.2	5.9
30°-40°	261.9	10.2
40°-50°	470.7	18.3
50°-60°	670.1	26.1
60°-70°	610.9	23.8
70°-80°	260.1	10.1
80°-90°	19.4	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°	2571.2	100.0
0°-180°	2571.2	100.0



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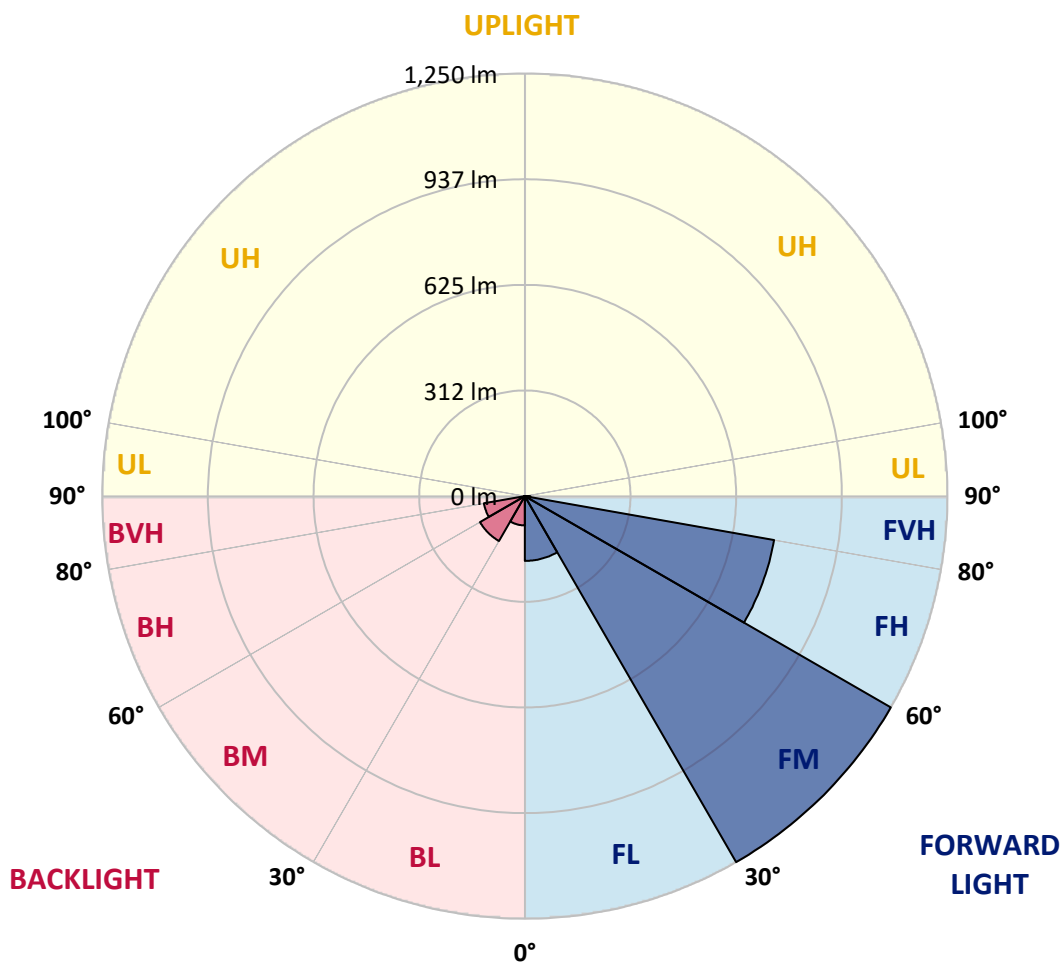
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.5	7.4			
FM (30°-60°)	1249.6	48.6			
FH (60°-80°)	748.3	29.1			G1/1800
FVH (80°-90°)	16.4	0.6			G1/100
BL (0°-30°)	86.5	3.4	B0/110		
BM (30°-60°)	153.1	6.0	B0/220		
BH (60°-80°)	122.7	4.8	B1/500		G1/500
BVH (80°-90°)	2.9	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°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	387.4	391.0	391.0	389.8	386.1	383.7	382.5	380.0	377.6	377.6	378.8
5°	391.0	387.4	392.3	386.1	386.1	386.1	391.0	388.6	387.4	381.2	381.2
7.5°	391.0	387.4	387.4	391.0	387.4	389.8	396.0	393.5	398.4	387.4	389.8
10°	380.0	378.8	381.2	386.1	387.4	392.3	398.4	410.7	411.9	404.5	403.3
12.5°	357.9	356.7	365.3	367.8	382.5	394.7	413.1	422.9	434.0	430.3	422.9
15°	342.0	344.5	350.6	360.4	373.9	396.0	416.8	438.9	458.5	453.6	451.1
17.5°	348.1	346.9	348.1	354.3	371.4	393.5	429.0	454.8	483.0	483.0	485.4
20°	366.5	370.2	369.0	365.3	373.9	392.3	429.0	474.4	521.0	517.3	517.3
22.5°	398.4	399.6	392.3	389.8	388.6	399.6	436.4	498.9	552.9	560.2	557.8
25°	431.5	432.7	430.3	422.9	413.1	415.6	449.9	518.5	597.0	609.2	606.8
27.5°	486.7	485.4	479.3	470.7	456.0	445.0	470.7	533.2	631.3	652.2	646.0
30°	541.8	538.1	529.6	518.5	505.1	484.2	496.5	561.4	674.2	693.8	680.3
32.5°	609.2	601.9	604.3	587.2	559.0	525.9	523.4	587.2	708.5	736.7	725.7
35°	695.1	686.5	674.2	658.3	631.3	587.2	573.7	628.9	766.2	787.0	787.0
37.5°	807.8	816.4	801.7	735.5	706.1	664.4	636.2	671.8	816.4	866.7	854.4
40°	923.1	930.4	903.5	854.4	790.7	739.2	722.0	741.6	892.4	952.5	929.2
42.5°	1016.2	1026.0	1016.2	952.5	902.2	836.0	805.4	823.8	990.5	1062.8	1032.2
45°	1114.3	1124.1	1113.1	1071.4	1022.4	984.4	907.1	930.4	1093.5	1201.3	1167.0
47.5°	1187.9	1200.1	1180.5	1171.9	1132.7	1126.6	995.4	1021.1	1201.3	1341.1	1298.2
50°	1205.0	1218.5	1235.7	1245.5	1232.0	1246.7	1114.3	1136.4	1314.1	1469.8	1428.1
52.5°	1164.6	1178.0	1216.0	1261.4	1323.9	1368.1	1234.4	1252.8	1431.8	1576.4	1554.4
55°	1045.7	1057.9	1135.1	1196.4	1346.0	1418.3	1349.7	1426.9	1516.4	1688.0	1634.1
57.5°	845.8	860.5	962.3	1056.7	1272.4	1390.1	1418.3	1571.5	1656.1	1770.1	1707.6
60°	600.7	609.2	697.5	864.2	1068.9	1249.1	1404.8	1679.4	1766.5	1880.5	1847.4
62.5°	345.7	353.0	445.0	601.9	806.6	1043.2	1344.8	1781.2	1885.4	2001.8	1983.4
65°	229.2	231.7	294.2	380.0	524.7	768.6	1192.8	1871.9	2003.0	2098.7	2077.8
67.5°	150.8	164.3	213.3	272.1	335.9	425.4	972.1	1909.9	2137.9	2233.5	2228.6
70°	107.9	112.8	153.2	209.6	252.5	239.0	568.8	1641.4	2131.8	2270.3	2229.8
72.5°	63.7	68.6	101.7	156.9	198.6	152.0	266.0	1160.9	1766.5	1811.8	1800.8
75°	46.6	46.6	62.5	112.8	144.7	109.1	125.0	734.3	1173.1	1273.7	1272.4
77.5°	33.1	34.3	42.9	67.4	111.6	79.7	68.6	408.2	641.1	701.2	668.1
80°	19.6	20.8	29.4	40.5	80.9	57.6	45.4	186.3	246.4	248.8	236.6
82.5°	14.7	14.7	19.6	28.2	56.4	39.2	28.2	71.1	79.7	72.3	61.3
85°	8.6	7.4	14.7	20.8	33.1	22.1	19.6	33.1	36.8	27.0	24.5
87.5°	2.5	2.5	6.1	7.4	14.7	12.3	8.6	12.3	17.2	9.8	7.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	376.3	372.7	366.5	364.1	355.5	351.8	349.4	343.2	344.5	340.8	340.8
5°	372.7	372.7	360.4	346.9	333.4	324.9	315.0	302.8	302.8	297.9	299.1
7.5°	386.1	376.3	360.4	335.9	313.8	294.2	285.6	273.4	266.0	262.3	262.3
10°	394.7	384.9	357.9	328.5	300.3	275.8	257.4	240.3	230.5	230.5	229.2
12.5°	418.0	403.3	367.8	327.3	285.6	248.8	220.7	201.0	187.6	177.7	180.2
15°	437.6	421.7	372.7	317.5	259.9	208.4	174.1	137.3	118.9	109.1	105.4
17.5°	468.3	438.9	383.7	300.3	220.7	163.0	112.8	82.1	74.8	73.6	73.6
20°	494.0	459.7	384.9	267.2	181.4	104.2	72.3	67.4	63.7	62.5	61.3
22.5°	529.6	486.7	380.0	229.2	129.9	69.9	61.3	56.4	53.9	50.3	50.3
25°	566.3	522.2	370.2	193.7	79.7	60.1	53.9	49.0	44.1	41.7	42.9
27.5°	605.6	549.2	342.0	150.8	61.3	52.7	44.1	40.5	38.0	36.8	36.8
30°	637.4	566.3	300.3	100.5	55.2	46.6	39.2	35.5	33.1	31.9	31.9
32.5°	660.7	581.1	253.8	67.4	50.3	41.7	35.5	31.9	29.4	28.2	28.2
35°	700.0	592.1	210.8	57.6	45.4	36.8	30.6	28.2	25.7	25.7	25.7
37.5°	760.0	606.8	167.9	52.7	41.7	33.1	29.4	25.7	24.5	23.3	23.3
40°	812.7	625.2	120.1	47.8	38.0	30.6	25.7	23.3	22.1	20.8	20.8
42.5°	888.7	646.0	78.5	42.9	34.3	28.2	23.3	20.8	19.6	18.4	18.4
45°	985.6	680.3	61.3	38.0	30.6	25.7	22.1	19.6	17.2	17.2	15.9
47.5°	1088.6	722.0	55.2	35.5	28.2	23.3	19.6	17.2	15.9	14.7	14.7
50°	1184.2	762.5	51.5	33.1	25.7	22.1	18.4	15.9	13.5	12.3	12.3
52.5°	1270.0	800.5	49.0	30.6	24.5	19.6	15.9	13.5	12.3	11.0	11.0
55°	1315.3	817.6	47.8	29.4	22.1	18.4	14.7	12.3	11.0	9.8	9.8
57.5°	1386.4	839.7	46.6	28.2	20.8	15.9	13.5	11.0	9.8	8.6	8.6
60°	1501.7	912.0	45.4	27.0	19.6	15.9	12.3	9.8	7.4	6.1	6.1
62.5°	1597.3	972.1	40.5	23.3	17.2	13.5	9.8	7.4	4.9	3.7	3.7
65°	1706.4	1000.3	35.5	20.8	14.7	11.0	7.4	4.9	3.7	1.2	1.2
67.5°	1825.3	1043.2	29.4	18.4	13.5	8.6	6.1	3.7	1.2	0.0	0.0
70°	1762.8	989.3	24.5	15.9	12.3	7.4	4.9	2.5	0.0	0.0	0.0
72.5°	1381.5	708.5	19.6	14.7	11.0	7.4	4.9	1.2	0.0	0.0	0.0
75°	923.1	400.9	17.2	12.3	8.6	6.1	3.7	1.2	0.0	0.0	0.0
77.5°	501.4	180.2	14.7	11.0	7.4	4.9	3.7	1.2	0.0	0.0	0.0
80°	163.0	71.1	12.3	9.8	7.4	4.9	3.7	1.2	0.0	0.0	0.0
82.5°	44.1	22.1	12.3	9.8	7.4	4.9	3.7	1.2	0.0	0.0	0.0
85°	18.4	14.7	12.3	9.8	7.4	4.9	3.7	1.2	0.0	0.0	0.0
87.5°	7.4	4.9	4.9	6.1	4.9	3.7	2.5	1.2	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°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	342.0	344.5	345.7	345.7	351.8	357.9	365.3	371.4	371.4	375.1	378.8
5°	300.3	302.8	306.5	317.5	329.8	343.2	356.7	366.5	380.0	386.1	389.8
7.5°	266.0	268.5	278.3	289.3	306.5	329.8	353.0	375.1	388.6	394.7	399.6
10°	230.5	234.1	245.2	264.8	286.8	315.0	342.0	380.0	402.1	414.3	419.2
12.5°	179.0	188.8	203.5	224.3	252.5	295.4	345.7	384.9	422.9	437.6	447.4
15°	112.8	121.4	144.7	177.7	215.8	266.0	335.9	392.3	445.0	459.7	475.6
17.5°	72.3	73.6	80.9	116.5	165.5	229.2	321.2	403.3	469.5	490.3	514.9
20°	61.3	63.7	65.0	69.9	110.3	188.8	290.5	416.8	498.9	527.1	550.4
22.5°	51.5	52.7	55.2	58.8	66.2	137.3	248.8	416.8	524.7	566.3	593.3
25°	41.7	44.1	46.6	50.3	57.6	85.8	205.9	409.4	555.3	606.8	641.1
27.5°	36.8	36.8	39.2	42.9	49.0	60.1	163.0	387.4	578.6	631.3	676.7
30°	31.9	33.1	34.3	38.0	44.1	52.7	112.8	351.8	603.1	679.1	730.6
32.5°	28.2	28.2	30.6	33.1	39.2	47.8	72.3	297.9	635.0	715.9	788.2
35°	25.7	25.7	27.0	29.4	35.5	42.9	56.4	252.5	673.0	785.8	865.5
37.5°	23.3	23.3	24.5	27.0	31.9	38.0	51.5	217.0	712.2	855.6	972.1
40°	20.8	20.8	22.1	24.5	28.2	34.3	46.6	175.3	761.3	958.6	1088.6
42.5°	18.4	18.4	19.6	22.1	25.7	30.6	40.5	131.2	826.2	1070.2	1239.3
45°	15.9	15.9	17.2	19.6	22.1	28.2	36.8	100.5	897.3	1194.0	1371.7
47.5°	13.5	14.7	15.9	18.4	20.8	25.7	33.1	88.3	967.2	1325.1	1518.8
50°	12.3	12.3	13.5	15.9	19.6	23.3	30.6	87.0	1038.3	1425.7	1669.6
52.5°	11.0	11.0	12.3	14.7	18.4	22.1	29.4	89.5	1097.1	1518.8	1775.0
55°	9.8	9.8	11.0	12.3	15.9	20.8	27.0	91.9	1138.8	1613.2	1859.6
57.5°	8.6	8.6	9.8	12.3	14.7	18.4	24.5	94.4	1206.2	1706.4	1982.2
60°	6.1	6.1	8.6	11.0	13.5	15.9	23.3	96.8	1314.1	1835.1	2086.4
62.5°	3.7	3.7	4.9	8.6	11.0	14.7	20.8	91.9	1414.6	2000.6	2245.8
65°	1.2	2.5	3.7	4.9	8.6	12.3	17.2	83.4	1499.2	2166.1	2392.9
67.5°	0.0	0.0	1.2	3.7	7.4	9.8	14.7	61.3	1512.7	2240.9	2543.6
70°	0.0	0.0	1.2	3.7	6.1	9.8	13.5	34.3	1288.4	2001.8	2331.6
72.5°	0.0	0.0	0.0	2.5	6.1	8.6	12.3	25.7	950.0	1509.0	1842.5
75°	0.0	0.0	0.0	1.2	4.9	7.4	11.0	19.6	577.4	1006.4	1202.6
77.5°	0.0	0.0	0.0	1.2	3.7	7.4	11.0	17.2	203.5	479.3	565.1
80°	0.0	0.0	0.0	2.5	4.9	7.4	9.8	14.7	49.0	120.1	161.8
82.5°	0.0	0.0	0.0	1.2	3.7	6.1	8.6	12.3	19.6	35.5	56.4
85°	0.0	0.0	0.0	1.2	2.5	6.1	8.6	11.0	13.5	17.2	24.5
87.5°	0.0	0.0	0.0	0.0	1.2	2.5	3.7	4.9	4.9	4.9	8.6
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°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	377.6	382.5	384.9	389.8	392.3	391.0	389.8	393.5	391.0	387.4
5°	391.0	391.0	394.7	396.0	396.0	392.3	394.7	393.5	391.0	391.0
7.5°	405.8	411.9	411.9	404.5	403.3	400.9	400.9	391.0	387.4	391.0
10°	420.5	425.4	426.6	418.0	407.0	402.1	396.0	383.7	377.6	380.0
12.5°	451.1	451.1	437.6	427.8	413.1	396.0	381.2	364.1	355.5	357.9
15°	473.2	478.1	459.7	437.6	411.9	380.0	364.1	350.6	345.7	342.0
17.5°	516.1	506.3	476.9	445.0	408.2	375.1	364.1	351.8	348.1	348.1
20°	552.9	548.0	503.8	446.2	407.0	384.9	377.6	371.4	370.2	366.5
22.5°	603.1	581.1	524.7	459.7	420.5	400.9	398.4	404.5	400.9	398.4
25°	641.1	622.7	540.6	479.3	441.3	435.2	438.9	445.0	435.2	431.5
27.5°	692.6	658.3	571.2	505.1	469.5	475.6	487.9	489.1	483.0	486.7
30°	740.4	703.6	594.5	534.5	517.3	523.4	541.8	555.3	546.7	541.8
32.5°	809.1	752.7	641.1	583.5	577.4	593.3	614.2	622.7	611.7	609.2
35°	881.4	809.1	688.9	638.7	649.7	671.8	690.2	704.9	687.7	695.1
37.5°	994.2	899.8	769.8	725.7	730.6	739.2	773.5	814.0	822.5	807.8
40°	1111.8	997.8	844.6	810.3	821.3	844.6	885.1	923.1	942.7	923.1
42.5°	1247.9	1092.2	959.8	919.4	930.4	963.5	1017.5	1048.1	1045.7	1016.2
45°	1415.9	1223.4	1067.7	1017.5	1057.9	1087.3	1141.3	1144.9	1121.7	1114.3
47.5°	1544.6	1333.7	1184.2	1152.3	1207.5	1208.7	1221.0	1222.2	1196.4	1187.9
50°	1686.8	1461.2	1314.1	1267.5	1360.7	1317.8	1284.7	1262.6	1223.4	1205.0
52.5°	1826.5	1551.9	1434.2	1386.4	1483.3	1369.3	1309.2	1241.8	1184.2	1164.6
55°	1901.3	1701.5	1609.5	1498.0	1510.3	1384.0	1233.2	1148.6	1050.6	1045.7
57.5°	1989.6	1802.0	1757.9	1574.0	1464.9	1281.0	1075.1	963.5	858.1	845.8
60°	2093.8	1961.4	1914.8	1561.7	1304.3	1076.3	852.0	708.5	609.2	600.7
62.5°	2210.2	2150.1	2011.6	1441.6	1035.8	757.6	562.7	442.5	350.6	345.7
65°	2394.1	2308.3	2063.1	1213.6	685.3	485.4	373.9	286.8	231.7	229.2
67.5°	2509.3	2368.3	1947.9	865.5	380.0	321.2	262.3	208.4	160.6	150.8
70°	2346.3	2173.4	1540.9	495.2	220.7	243.9	202.3	139.7	110.3	107.9
72.5°	1874.3	1613.2	1037.1	232.9	137.3	191.2	147.1	94.4	66.2	63.7
75°	1278.6	1015.0	650.9	107.9	96.8	139.7	107.9	55.2	46.6	46.6
77.5°	571.2	517.3	333.4	66.2	72.3	106.6	62.5	38.0	34.3	33.1
80°	174.1	182.7	136.1	45.4	53.9	80.9	38.0	25.7	20.8	19.6
82.5°	58.8	68.6	61.3	27.0	36.8	57.6	25.7	17.2	14.7	14.7
85°	28.2	34.3	30.6	17.2	19.6	28.2	20.8	13.5	8.6	8.6
87.5°	11.0	15.9	11.0	7.4	11.0	14.7	8.6	6.1	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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