

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: P676236

Luminaire Tested: **CCW-SA-2A-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676236
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-722-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

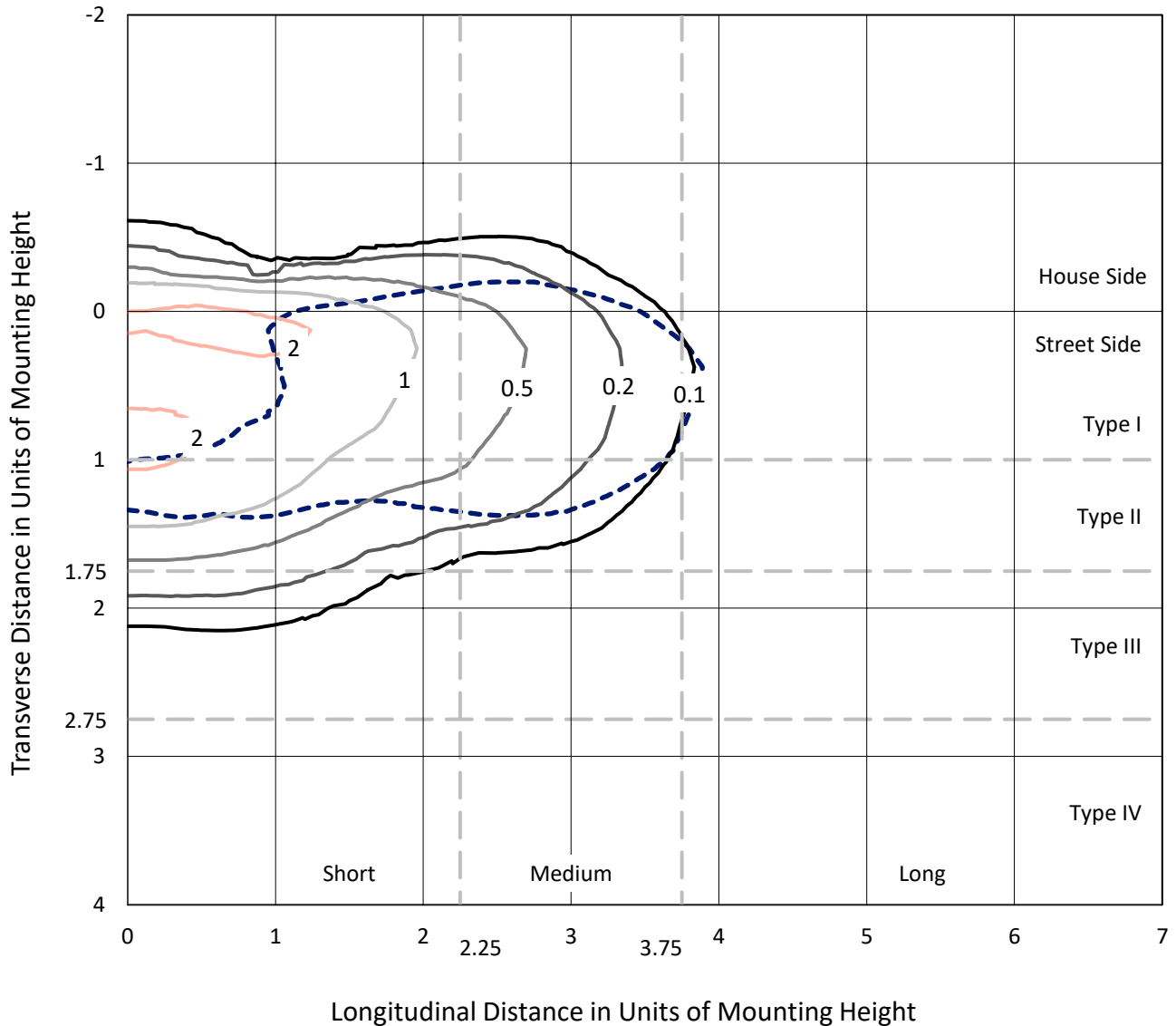
Lumens per Lamp: N/A
Luminaire Lumens: 3111.6 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

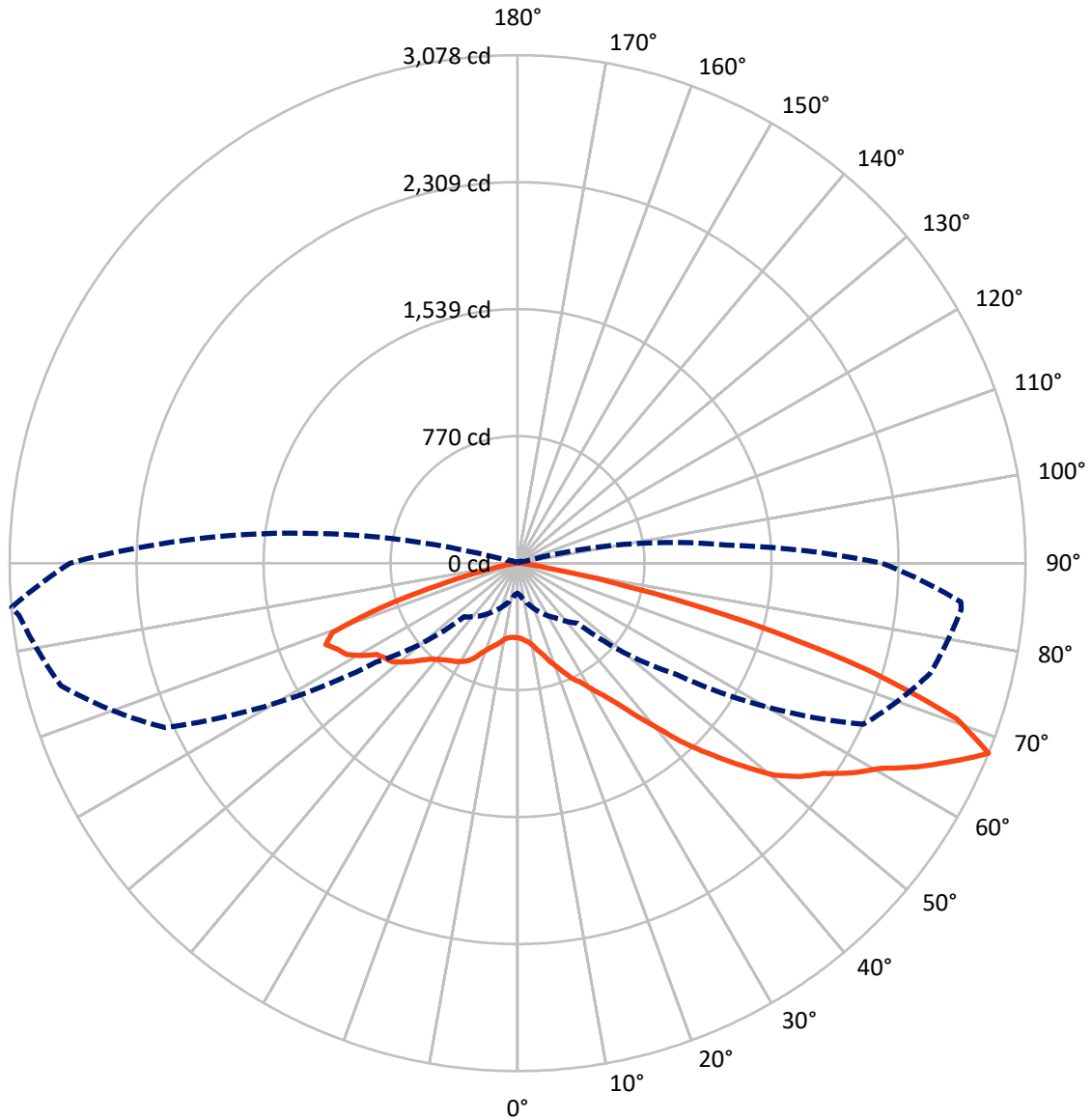
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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	442.1	0.0	442.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2669.6	0.0	2669.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	3111.6	0.0	3111.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.3
10°-20°	110.9	3.6
20°-30°	184.2	5.9
30°-40°	317.0	10.2
40°-50°	569.6	18.3
50°-60°	811.0	26.1
60°-70°	739.3	23.8
70°-80°	314.8	10.1
80°-90°	23.4	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°	3111.6	100.0
0°-180°	3111.6	100.0

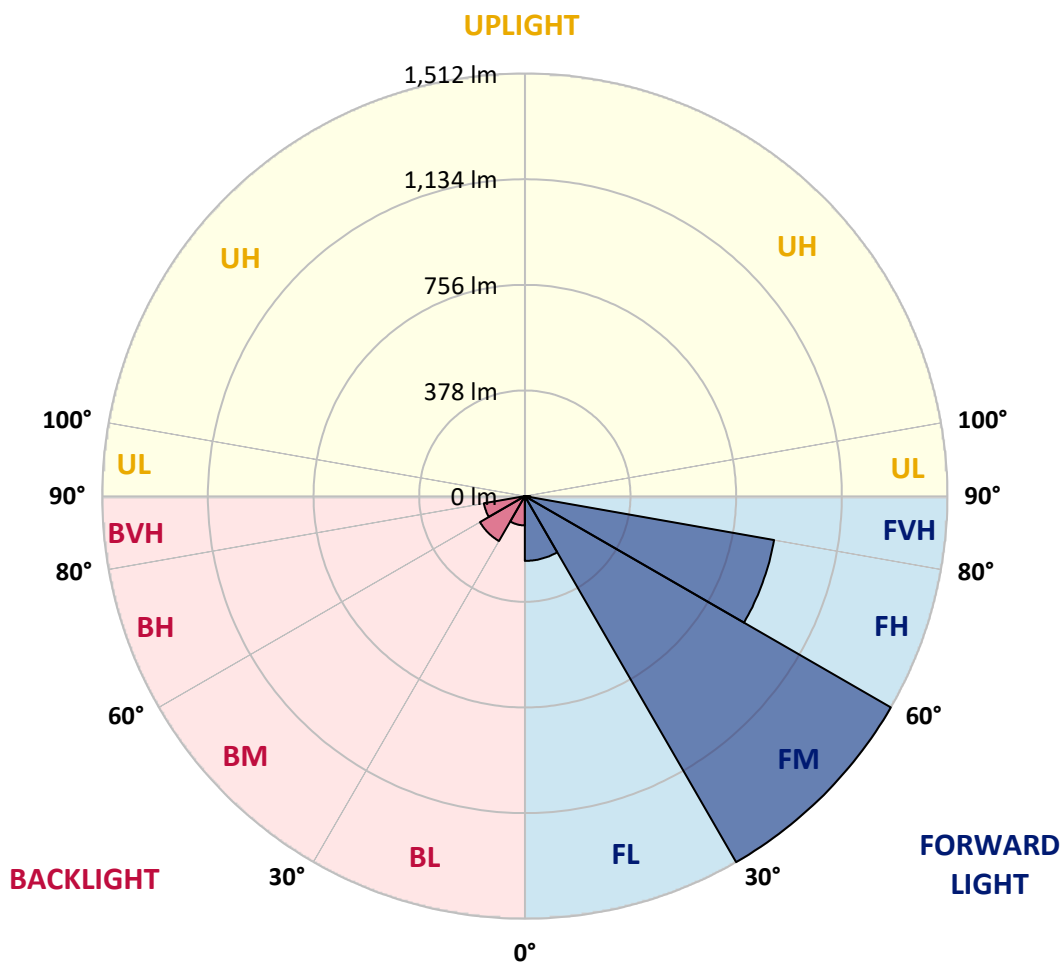


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.8	7.4			
FM (30°-60°)	1512.3	48.6			
FH (60°-80°)	905.6	29.1			G1/1800
FVH (80°-90°)	19.9	0.6			G1/100
BL (0°-30°)	104.6	3.4	B0/110		
BM (30°-60°)	185.3	6.0	B0/220		
BH (60°-80°)	148.5	4.8	B1/500		G1/500
BVH (80°-90°)	3.5	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°	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5
2.5°	468.8	473.2	473.2	471.8	467.3	464.3	462.9	459.9	456.9	456.9	458.4
5°	473.2	468.8	474.7	467.3	467.3	467.3	473.2	470.3	468.8	461.4	461.4
7.5°	473.2	468.8	468.8	473.2	468.8	471.8	479.2	476.2	482.1	468.8	471.8
10°	459.9	458.4	461.4	467.3	468.8	474.7	482.1	497.0	498.5	489.6	488.1
12.5°	433.2	431.7	442.1	445.1	462.9	477.7	499.9	511.8	525.2	520.7	511.8
15°	413.9	416.9	424.3	436.2	452.5	479.2	504.4	531.1	554.8	548.9	545.9
17.5°	421.3	419.8	421.3	428.7	449.5	476.2	519.2	550.4	584.5	584.5	587.5
20°	443.6	448.0	446.5	442.1	452.5	474.7	519.2	574.1	630.5	626.0	626.0
22.5°	482.1	483.6	474.7	471.8	470.3	483.6	528.1	603.8	669.1	678.0	675.0
25°	522.2	523.7	520.7	511.8	499.9	502.9	544.5	627.5	722.5	737.3	734.3
27.5°	589.0	587.5	580.1	569.7	551.9	538.5	569.7	645.3	764.0	789.2	781.8
30°	655.7	651.3	640.9	627.5	611.2	586.0	600.8	679.5	815.9	839.7	823.4
32.5°	737.3	728.4	731.4	710.6	676.5	636.4	633.5	710.6	857.5	891.6	878.2
35°	841.2	830.8	815.9	796.7	764.0	710.6	694.3	761.0	927.2	952.4	952.4
37.5°	977.6	988.0	970.2	890.1	854.5	804.1	770.0	813.0	988.0	1048.9	1034.0
40°	1117.1	1126.0	1093.4	1034.0	956.9	894.6	873.8	897.5	1080.0	1152.7	1124.5
42.5°	1229.8	1241.7	1229.8	1152.7	1091.9	1011.8	974.7	996.9	1198.7	1286.2	1249.1
45°	1348.5	1360.4	1347.0	1296.6	1237.3	1191.3	1097.8	1126.0	1323.3	1453.9	1412.3
47.5°	1437.5	1452.4	1428.6	1418.3	1370.8	1363.4	1204.6	1235.8	1453.9	1623.0	1571.1
50°	1458.3	1474.6	1495.4	1507.3	1490.9	1508.7	1348.5	1375.2	1590.3	1778.7	1728.3
52.5°	1409.4	1425.7	1471.7	1526.5	1602.2	1655.6	1493.9	1516.2	1732.8	1907.8	1881.1
55°	1265.4	1280.3	1373.7	1447.9	1628.9	1716.4	1633.4	1726.8	1835.1	2042.8	1977.5
57.5°	1023.6	1041.4	1164.6	1278.8	1539.9	1682.3	1716.4	1901.9	2004.2	2142.2	2066.6
60°	726.9	737.3	844.1	1045.9	1293.6	1511.7	1700.1	2032.4	2137.8	2275.7	2235.7
62.5°	418.4	427.3	538.5	728.4	976.2	1262.5	1627.4	2155.6	2281.7	2422.6	2400.3
65°	277.4	280.4	356.0	459.9	634.9	930.2	1443.5	2265.3	2424.1	2539.8	2514.6
67.5°	182.5	198.8	258.1	329.3	406.5	514.8	1176.4	2311.3	2587.3	2703.0	2697.1
70°	130.6	136.5	185.4	253.7	305.6	289.3	688.4	1986.4	2579.9	2747.5	2698.5
72.5°	77.1	83.1	123.1	189.9	240.3	184.0	321.9	1404.9	2137.8	2192.7	2179.3
75°	56.4	56.4	75.7	136.5	175.1	132.0	151.3	888.6	1419.7	1541.4	1539.9
77.5°	40.1	41.5	51.9	81.6	135.0	96.4	83.1	494.0	775.9	848.6	808.5
80°	23.7	25.2	35.6	49.0	97.9	69.7	54.9	225.5	298.2	301.2	286.3
82.5°	17.8	17.8	23.7	34.1	68.2	47.5	34.1	86.0	96.4	87.5	74.2
85°	10.4	8.9	17.8	25.2	40.1	26.7	23.7	40.1	44.5	32.6	29.7
87.5°	3.0	3.0	7.4	8.9	17.8	14.8	10.4	14.8	20.8	11.9	8.9
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°	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5
2.5°	455.4	451.0	443.6	440.6	430.2	425.8	422.8	415.4	416.9	412.4	412.4
5°	451.0	451.0	436.2	419.8	403.5	393.1	381.3	366.4	366.4	360.5	362.0
7.5°	467.3	455.4	436.2	406.5	379.8	356.0	345.7	330.8	321.9	317.5	317.5
10°	477.7	465.8	433.2	397.6	363.5	333.8	311.5	290.8	278.9	278.9	277.4
12.5°	505.9	488.1	445.1	396.1	345.7	301.2	267.0	243.3	227.0	215.1	218.1
15°	529.6	510.3	451.0	384.2	314.5	252.2	210.7	166.2	143.9	132.0	127.6
17.5°	566.7	531.1	464.3	363.5	267.0	197.3	136.5	99.4	90.5	89.0	89.0
20°	597.9	556.3	465.8	323.4	219.6	126.1	87.5	81.6	77.1	75.7	74.2
22.5°	640.9	589.0	459.9	277.4	157.3	84.6	74.2	68.2	65.3	60.8	60.8
25°	685.4	632.0	448.0	234.4	96.4	72.7	65.3	59.3	53.4	50.4	51.9
27.5°	732.9	664.6	413.9	182.5	74.2	63.8	53.4	49.0	46.0	44.5	44.5
30°	771.4	685.4	363.5	121.6	66.8	56.4	47.5	43.0	40.1	38.6	38.6
32.5°	799.6	703.2	307.1	81.6	60.8	50.4	43.0	38.6	35.6	34.1	34.1
35°	847.1	716.5	255.2	69.7	54.9	44.5	37.1	34.1	31.2	31.2	31.2
37.5°	919.8	734.3	203.2	63.8	50.4	40.1	35.6	31.2	29.7	28.2	28.2
40°	983.6	756.6	145.4	57.9	46.0	37.1	31.2	28.2	26.7	25.2	25.2
42.5°	1075.6	781.8	94.9	51.9	41.5	34.1	28.2	25.2	23.7	22.3	22.3
45°	1192.8	823.4	74.2	46.0	37.1	31.2	26.7	23.7	20.8	20.8	19.3
47.5°	1317.4	873.8	66.8	43.0	34.1	28.2	23.7	20.8	19.3	17.8	17.8
50°	1433.1	922.8	62.3	40.1	31.2	26.7	22.3	19.3	16.3	14.8	14.8
52.5°	1536.9	968.7	59.3	37.1	29.7	23.7	19.3	16.3	14.8	13.4	13.4
55°	1591.8	989.5	57.9	35.6	26.7	22.3	17.8	14.8	13.4	11.9	11.9
57.5°	1677.9	1016.2	56.4	34.1	25.2	19.3	16.3	13.4	11.9	10.4	10.4
60°	1817.3	1103.7	54.9	32.6	23.7	19.3	14.8	11.9	8.9	7.4	7.4
62.5°	1933.0	1176.4	49.0	28.2	20.8	16.3	11.9	8.9	5.9	4.5	4.5
65°	2065.1	1210.6	43.0	25.2	17.8	13.4	8.9	5.9	4.5	1.5	1.5
67.5°	2209.0	1262.5	35.6	22.3	16.3	10.4	7.4	4.5	1.5	0.0	0.0
70°	2133.3	1197.2	29.7	19.3	14.8	8.9	5.9	3.0	0.0	0.0	0.0
72.5°	1671.9	857.5	23.7	17.8	13.4	8.9	5.9	1.5	0.0	0.0	0.0
75°	1117.1	485.1	20.8	14.8	10.4	7.4	4.5	1.5	0.0	0.0	0.0
77.5°	606.8	218.1	17.8	13.4	8.9	5.9	4.5	1.5	0.0	0.0	0.0
80°	197.3	86.0	14.8	11.9	8.9	5.9	4.5	1.5	0.0	0.0	0.0
82.5°	53.4	26.7	14.8	11.9	8.9	5.9	4.5	1.5	0.0	0.0	0.0
85°	22.3	17.8	14.8	11.9	8.9	5.9	4.5	1.5	0.0	0.0	0.0
87.5°	8.9	5.9	5.9	7.4	5.9	4.5	3.0	1.5	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°	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5
2.5°	413.9	416.9	418.4	418.4	425.8	433.2	442.1	449.5	449.5	454.0	458.4
5°	363.5	366.4	370.9	384.2	399.1	415.4	431.7	443.6	459.9	467.3	471.8
7.5°	321.9	324.9	336.8	350.1	370.9	399.1	427.3	454.0	470.3	477.7	483.6
10°	278.9	283.4	296.7	320.4	347.1	381.3	413.9	459.9	486.6	501.4	507.4
12.5°	216.6	228.5	246.3	271.5	305.6	357.5	418.4	465.8	511.8	529.6	541.5
15°	136.5	146.9	175.1	215.1	261.1	321.9	406.5	474.7	538.5	556.3	575.6
17.5°	87.5	89.0	97.9	140.9	200.3	277.4	388.7	488.1	568.2	593.4	623.1
20°	74.2	77.1	78.6	84.6	133.5	228.5	351.6	504.4	603.8	637.9	666.1
22.5°	62.3	63.8	66.8	71.2	80.1	166.2	301.2	504.4	634.9	685.4	718.0
25°	50.4	53.4	56.4	60.8	69.7	103.8	249.2	495.5	672.0	734.3	775.9
27.5°	44.5	44.5	47.5	51.9	59.3	72.7	197.3	468.8	700.2	764.0	818.9
30°	38.6	40.1	41.5	46.0	53.4	63.8	136.5	425.8	729.9	821.9	884.2
32.5°	34.1	34.1	37.1	40.1	47.5	57.9	87.5	360.5	768.5	866.4	953.9
35°	31.2	31.2	32.6	35.6	43.0	51.9	68.2	305.6	814.5	950.9	1047.4
37.5°	28.2	28.2	29.7	32.6	38.6	46.0	62.3	262.6	861.9	1035.5	1176.4
40°	25.2	25.2	26.7	29.7	34.1	41.5	56.4	212.1	921.3	1160.1	1317.4
42.5°	22.3	22.3	23.7	26.7	31.2	37.1	49.0	158.7	999.9	1295.1	1499.8
45°	19.3	19.3	20.8	23.7	26.7	34.1	44.5	121.6	1085.9	1445.0	1660.1
47.5°	16.3	17.8	19.3	22.3	25.2	31.2	40.1	106.8	1170.5	1603.7	1838.1
50°	14.8	14.8	16.3	19.3	23.7	28.2	37.1	105.3	1256.5	1725.3	2020.6
52.5°	13.4	13.4	14.8	17.8	22.3	26.7	35.6	108.3	1327.8	1838.1	2148.1
55°	11.9	11.9	13.4	14.8	19.3	25.2	32.6	111.3	1378.2	1952.3	2250.5
57.5°	10.4	10.4	11.9	14.8	17.8	22.3	29.7	114.2	1459.8	2065.1	2398.9
60°	7.4	7.4	10.4	13.4	16.3	19.3	28.2	117.2	1590.3	2220.8	2525.0
62.5°	4.5	4.5	5.9	10.4	13.4	17.8	25.2	111.3	1712.0	2421.1	2717.8
65°	1.5	3.0	4.5	5.9	10.4	14.8	20.8	100.9	1814.4	2621.4	2895.8
67.5°	0.0	0.0	1.5	4.5	8.9	11.9	17.8	74.2	1830.7	2711.9	3078.3
70°	0.0	0.0	1.5	4.5	7.4	11.9	16.3	41.5	1559.2	2422.6	2821.7
72.5°	0.0	0.0	0.0	3.0	7.4	10.4	14.8	31.2	1149.7	1826.2	2229.7
75°	0.0	0.0	0.0	1.5	5.9	8.9	13.4	23.7	698.7	1218.0	1455.3
77.5°	0.0	0.0	0.0	1.5	4.5	8.9	13.4	20.8	246.3	580.1	683.9
80°	0.0	0.0	0.0	3.0	5.9	8.9	11.9	17.8	59.3	145.4	195.8
82.5°	0.0	0.0	0.0	1.5	4.5	7.4	10.4	14.8	23.7	43.0	68.2
85°	0.0	0.0	0.0	1.5	3.0	7.4	10.4	13.4	16.3	20.8	29.7
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	4.5	5.9	5.9	5.9	10.4
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5	452.5
2.5°	456.9	462.9	465.8	471.8	474.7	473.2	471.8	476.2	473.2	468.8
5°	473.2	473.2	477.7	479.2	479.2	474.7	477.7	476.2	473.2	473.2
7.5°	491.0	498.5	498.5	489.6	488.1	485.1	485.1	473.2	468.8	473.2
10°	508.8	514.8	516.3	505.9	492.5	486.6	479.2	464.3	456.9	459.9
12.5°	545.9	545.9	529.6	517.8	499.9	479.2	461.4	440.6	430.2	433.2
15°	572.6	578.6	556.3	529.6	498.5	459.9	440.6	424.3	418.4	413.9
17.5°	624.6	612.7	577.1	538.5	494.0	454.0	440.6	425.8	421.3	421.3
20°	669.1	663.1	609.7	540.0	492.5	465.8	456.9	449.5	448.0	443.6
22.5°	729.9	703.2	634.9	556.3	508.8	485.1	482.1	489.6	485.1	482.1
25°	775.9	753.6	654.2	580.1	534.1	526.7	531.1	538.5	526.7	522.2
27.5°	838.2	796.7	691.3	611.2	568.2	575.6	590.4	591.9	584.5	589.0
30°	896.1	851.5	719.5	646.8	626.0	633.5	655.7	672.0	661.7	655.7
32.5°	979.1	910.9	775.9	706.2	698.7	718.0	743.2	753.6	740.3	737.3
35°	1066.7	979.1	833.7	772.9	786.3	813.0	835.2	853.0	832.3	841.2
37.5°	1203.1	1088.9	931.7	878.2	884.2	894.6	936.1	985.1	995.4	977.6
40°	1345.6	1207.6	1022.2	980.6	994.0	1022.2	1071.1	1117.1	1140.8	1117.1
42.5°	1510.2	1321.8	1161.6	1112.6	1126.0	1166.1	1231.3	1268.4	1265.4	1229.8
45°	1713.5	1480.6	1292.2	1231.3	1280.3	1315.9	1381.2	1385.6	1357.4	1348.5
47.5°	1869.2	1614.1	1433.1	1394.5	1461.3	1462.8	1477.6	1479.1	1447.9	1437.5
50°	2041.3	1768.4	1590.3	1534.0	1646.7	1594.8	1554.7	1528.0	1480.6	1458.3
52.5°	2210.5	1878.1	1735.7	1677.9	1795.1	1657.1	1584.4	1502.8	1433.1	1409.4
55°	2301.0	2059.1	1947.9	1812.9	1827.7	1674.9	1492.4	1390.1	1271.4	1265.4
57.5°	2407.8	2180.8	2127.4	1904.8	1772.8	1550.3	1301.1	1166.1	1038.5	1023.6
60°	2533.9	2373.6	2317.3	1890.0	1578.5	1302.5	1031.1	857.5	737.3	726.9
62.5°	2674.8	2602.1	2434.5	1744.6	1253.6	916.8	680.9	535.6	424.3	418.4
65°	2897.3	2793.5	2496.8	1468.7	829.3	587.5	452.5	347.1	280.4	277.4
67.5°	3036.8	2866.2	2357.3	1047.4	459.9	388.7	317.5	252.2	194.3	182.5
70°	2839.5	2630.3	1864.8	599.3	267.0	295.2	244.8	169.1	133.5	130.6
72.5°	2268.3	1952.3	1255.1	281.9	166.2	231.4	178.0	114.2	80.1	77.1
75°	1547.3	1228.4	787.8	130.6	117.2	169.1	130.6	66.8	56.4	56.4
77.5°	691.3	626.0	403.5	80.1	87.5	129.1	75.7	46.0	41.5	40.1
80°	210.7	221.0	164.7	54.9	65.3	97.9	46.0	31.2	25.2	23.7
82.5°	71.2	83.1	74.2	32.6	44.5	69.7	31.2	20.8	17.8	17.8
85°	34.1	41.5	37.1	20.8	23.7	34.1	25.2	16.3	10.4	10.4
87.5°	13.4	19.3	13.4	8.9	13.4	17.8	10.4	7.4	3.0	3.0
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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