

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: P676311

Luminaire Tested: **CCW-SA-1E-827-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676311
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

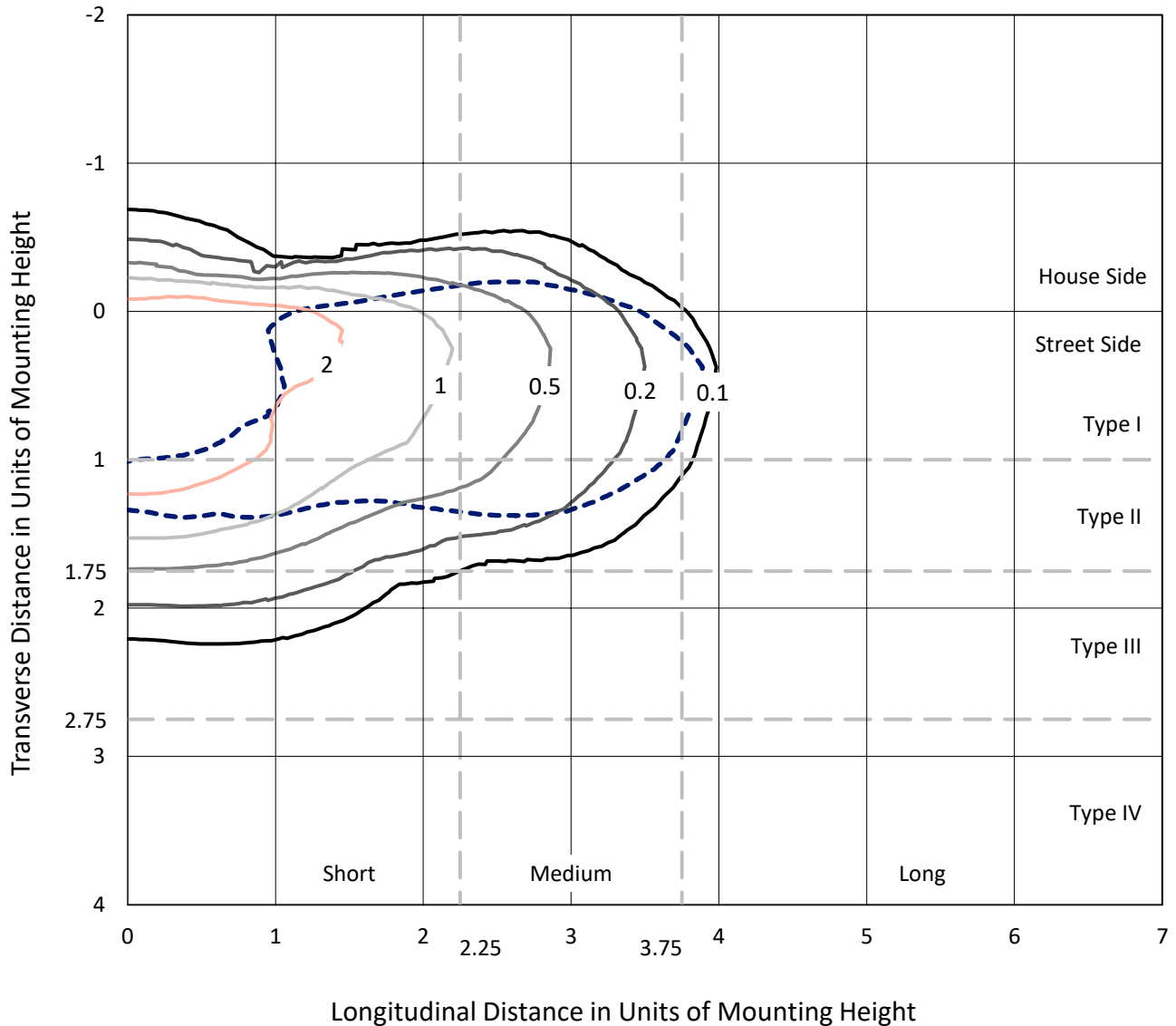
Lumens per Lamp: N/A
Luminaire Lumens: 3880.1 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

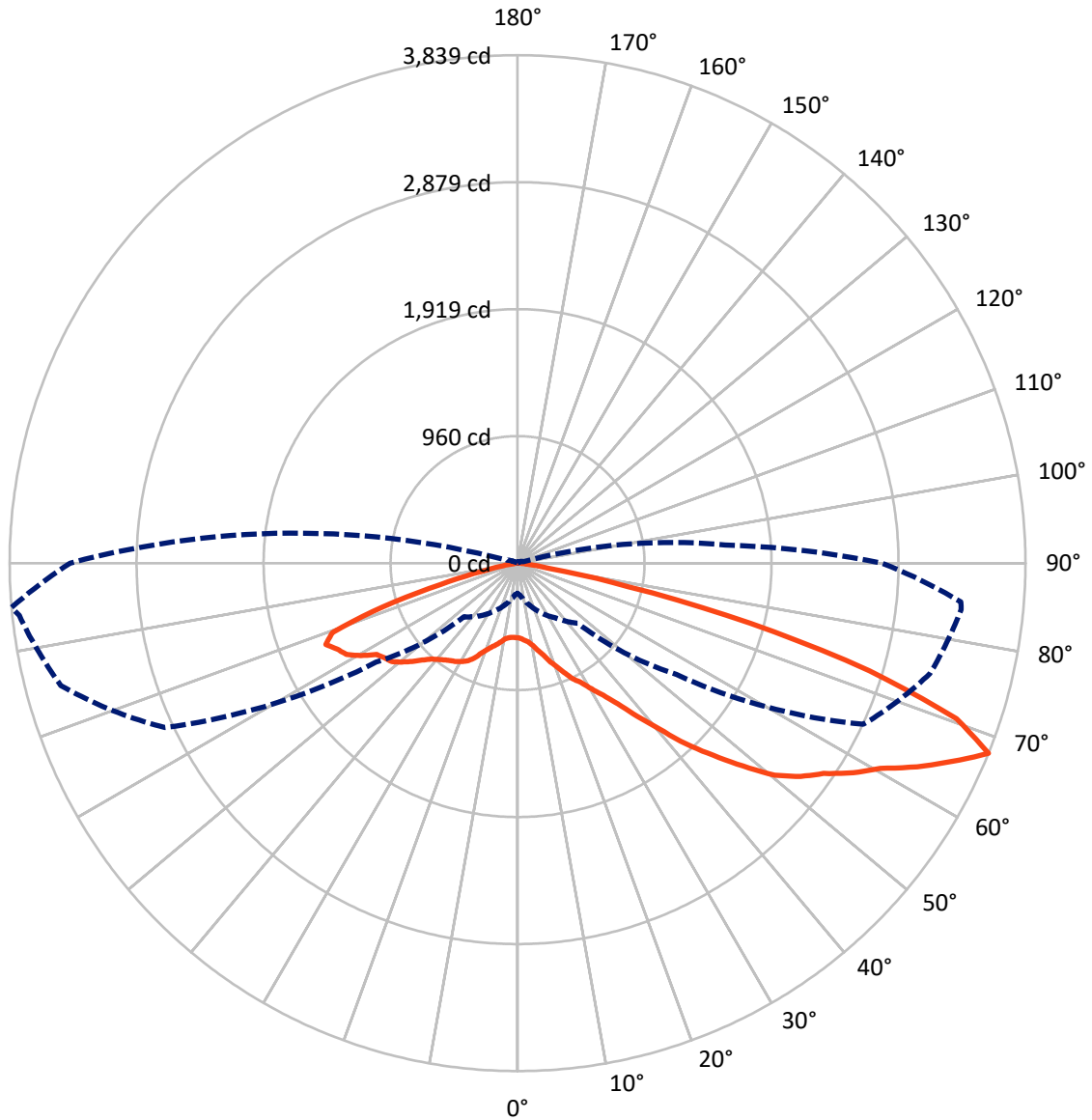
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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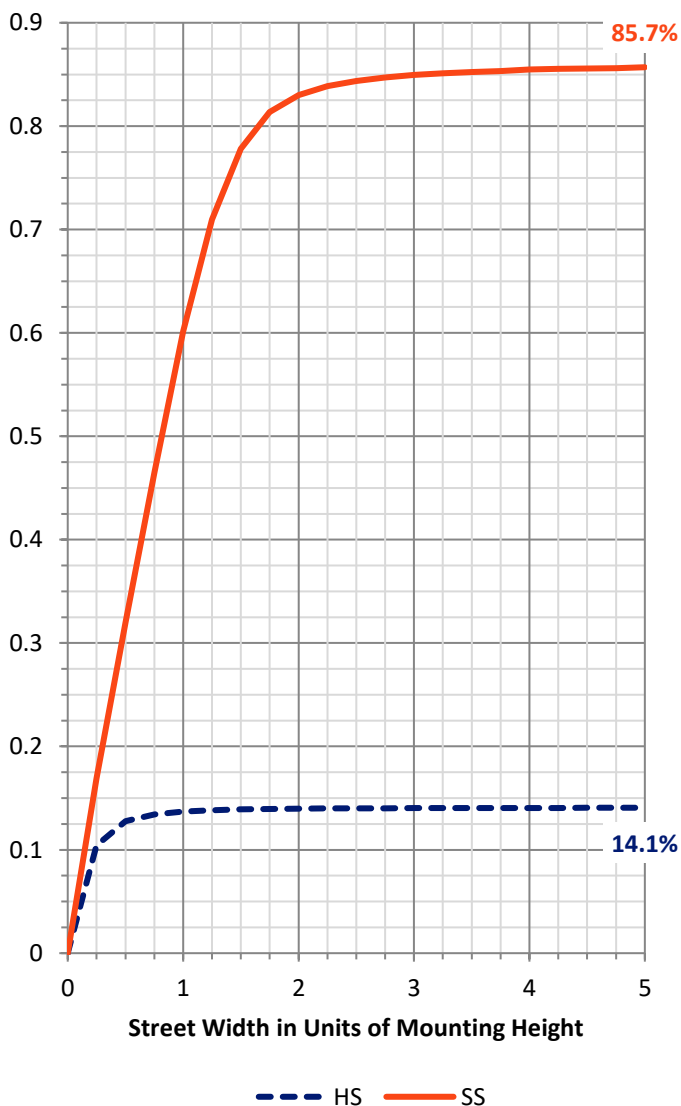
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.2	0.0	551.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3328.9	0.0	3328.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	3880.1	0.0	3880.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.3
10°-20°	138.3	3.6
20°-30°	229.8	5.9
30°-40°	395.3	10.2
40°-50°	710.3	18.3
50°-60°	1011.2	26.1
60°-70°	921.9	23.8
70°-80°	392.6	10.1
80°-90°	29.2	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°	3880.1	100.0
0°-180°	3880.1	100.0



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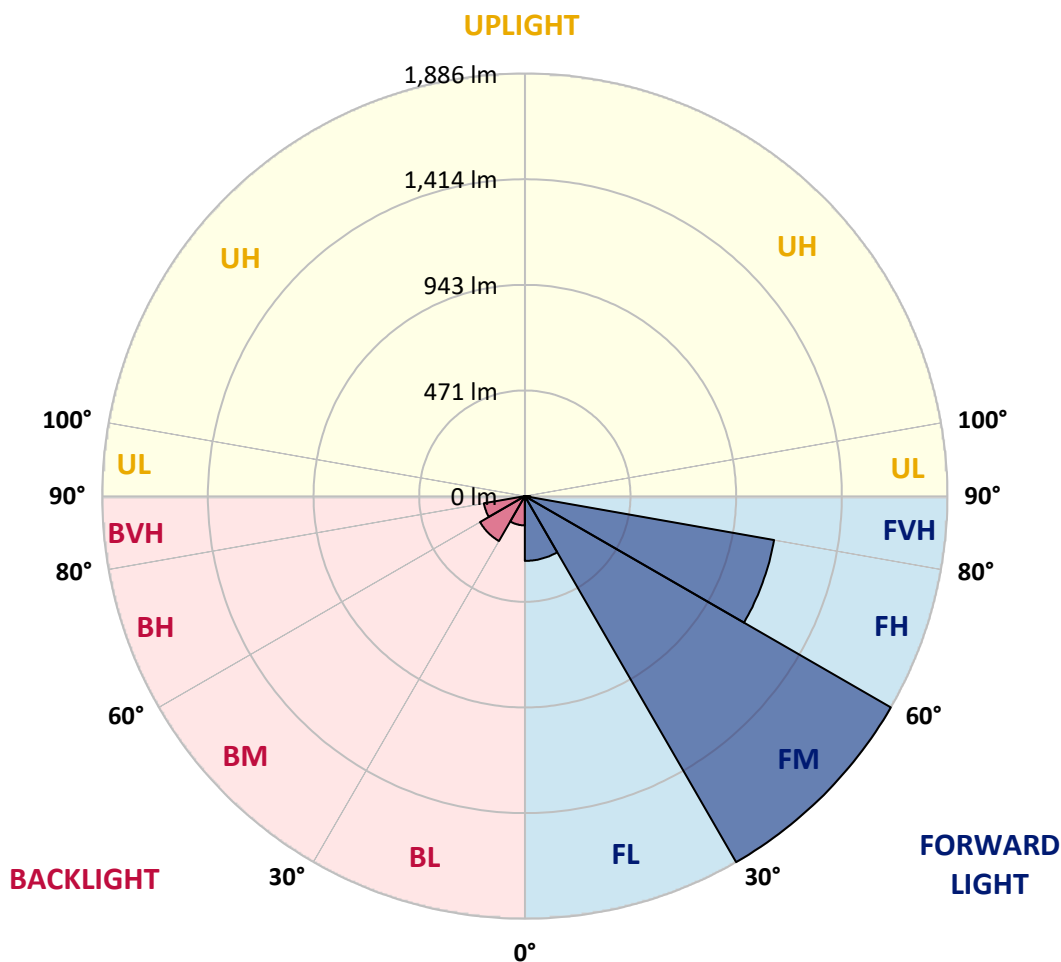
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.1	7.4			
FM (30°-60°)	1885.8	48.6			
FH (60°-80°)	1129.3	29.1			G1/1800
FVH (80°-90°)	24.8	0.6			G1/100
BL (0°-30°)	130.5	3.4	B1/500		
BM (30°-60°)	231.1	6.0	B1/1000		
BH (60°-80°)	185.2	4.8	B1/500		G1/500
BVH (80°-90°)	4.4	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°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	584.6	590.1	590.1	588.3	582.7	579.0	577.2	573.5	569.8	569.8	571.6
5°	590.1	584.6	592.0	582.7	582.7	582.7	590.1	586.4	584.6	575.3	575.3
7.5°	590.1	584.6	584.6	590.1	584.6	588.3	597.5	593.8	601.2	584.6	588.3
10°	573.5	571.6	575.3	582.7	584.6	592.0	601.2	619.7	621.6	610.5	608.6
12.5°	540.2	538.3	551.3	555.0	577.2	595.7	623.4	638.2	654.9	649.3	638.2
15°	516.1	519.8	529.1	543.9	564.2	597.5	629.0	662.3	691.9	684.5	680.8
17.5°	525.4	523.5	525.4	534.6	560.5	593.8	647.5	686.3	728.9	728.9	732.6
20°	553.1	558.7	556.8	551.3	564.2	592.0	647.5	715.9	786.2	780.7	780.7
22.5°	601.2	603.1	592.0	588.3	586.4	603.1	658.6	752.9	834.3	845.4	841.7
25°	651.2	653.0	649.3	638.2	623.4	627.1	678.9	782.5	900.9	919.4	915.7
27.5°	734.4	732.6	723.3	710.4	688.2	671.5	710.4	804.7	952.7	984.2	974.9
30°	817.7	812.1	799.2	782.5	762.2	730.7	749.2	847.3	1017.5	1047.1	1026.7
32.5°	919.4	908.3	912.0	886.1	843.6	793.6	789.9	886.1	1069.3	1111.8	1095.2
35°	1048.9	1036.0	1017.5	993.4	952.7	886.1	865.8	949.0	1156.2	1187.7	1187.7
37.5°	1219.1	1232.1	1209.9	1110.0	1065.6	1002.7	960.1	1013.8	1232.1	1307.9	1289.4
40°	1393.0	1404.1	1363.4	1289.4	1193.2	1115.5	1089.6	1119.2	1346.8	1437.4	1402.3
42.5°	1533.6	1548.4	1533.6	1437.4	1361.6	1261.7	1215.4	1243.2	1494.8	1603.9	1557.7
45°	1681.6	1696.4	1679.8	1616.9	1542.9	1485.5	1369.0	1404.1	1650.2	1813.0	1761.2
47.5°	1792.6	1811.1	1781.5	1768.6	1709.4	1700.1	1502.2	1541.0	1813.0	2023.9	1959.1
50°	1818.5	1838.9	1864.8	1879.6	1859.2	1881.4	1681.6	1714.9	1983.2	2218.1	2155.2
52.5°	1757.5	1777.8	1835.2	1903.6	1998.0	2064.5	1862.9	1890.7	2160.7	2379.0	2345.7
55°	1578.0	1596.5	1713.1	1805.6	2031.3	2140.4	2036.8	2153.3	2288.4	2547.4	2466.0
57.5°	1276.5	1298.7	1452.2	1594.7	1920.3	2097.8	2140.4	2371.6	2499.3	2671.3	2577.0
60°	906.5	919.4	1052.6	1304.2	1613.2	1885.1	2120.0	2534.4	2665.8	2837.8	2787.9
62.5°	521.7	532.8	671.5	908.3	1217.3	1574.3	2029.4	2688.0	2845.2	3021.0	2993.2
65°	345.9	349.6	444.0	573.5	791.8	1159.9	1800.0	2824.9	3022.8	3167.1	3135.7
67.5°	227.5	247.9	321.9	410.7	506.9	641.9	1467.0	2882.2	3226.3	3370.6	3363.2
70°	162.8	170.2	231.2	316.3	381.1	360.7	858.4	2477.1	3217.1	3426.1	3365.1
72.5°	96.2	103.6	153.5	236.8	299.7	229.4	401.4	1751.9	2665.8	2734.2	2717.6
75°	70.3	70.3	94.3	170.2	218.3	164.6	188.7	1108.1	1770.4	1922.1	1920.3
77.5°	49.9	51.8	64.7	101.7	168.3	120.2	103.6	616.0	967.5	1058.2	1008.2
80°	29.6	31.4	44.4	61.0	122.1	86.9	68.4	281.2	371.8	375.5	357.0
82.5°	22.2	22.2	29.6	42.5	85.1	59.2	42.5	107.3	120.2	109.1	92.5
85°	12.9	11.1	22.2	31.4	49.9	33.3	29.6	49.9	55.5	40.7	37.0
87.5°	3.7	3.7	9.2	11.1	22.2	18.5	12.9	18.5	25.9	14.8	11.1
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°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	567.9	562.4	553.1	549.4	536.5	530.9	527.2	518.0	519.8	514.3	514.3
5°	562.4	562.4	543.9	523.5	503.2	490.2	475.4	456.9	456.9	449.5	451.4
7.5°	582.7	567.9	543.9	506.9	473.6	444.0	431.0	412.5	401.4	395.9	395.9
10°	595.7	580.9	540.2	495.8	453.2	416.2	388.5	362.6	347.8	347.8	345.9
12.5°	630.8	608.6	555.0	493.9	431.0	375.5	333.0	303.4	283.0	268.2	271.9
15°	660.4	636.4	562.4	479.1	392.2	314.5	262.7	207.2	179.4	164.6	159.1
17.5°	706.7	662.3	579.0	453.2	333.0	246.0	170.2	123.9	112.8	111.0	111.0
20°	745.5	693.7	580.9	403.3	273.8	157.2	109.1	101.7	96.2	94.3	92.5
22.5°	799.2	734.4	573.5	345.9	196.1	105.4	92.5	85.1	81.4	75.8	75.8
25°	854.7	788.1	558.7	292.3	120.2	90.6	81.4	74.0	66.6	62.9	64.7
27.5°	913.9	828.8	516.1	227.5	92.5	79.5	66.6	61.0	57.3	55.5	55.5
30°	962.0	854.7	453.2	151.7	83.2	70.3	59.2	53.6	49.9	48.1	48.1
32.5°	997.1	876.9	382.9	101.7	75.8	62.9	53.6	48.1	44.4	42.5	42.5
35°	1056.3	893.5	318.2	86.9	68.4	55.5	46.2	42.5	38.8	38.8	38.8
37.5°	1147.0	915.7	253.4	79.5	62.9	49.9	44.4	38.8	37.0	35.1	35.1
40°	1226.5	943.5	181.3	72.1	57.3	46.2	38.8	35.1	33.3	31.4	31.4
42.5°	1341.2	974.9	118.4	64.7	51.8	42.5	35.1	31.4	29.6	27.7	27.7
45°	1487.4	1026.7	92.5	57.3	46.2	38.8	33.3	29.6	25.9	25.9	24.0
47.5°	1642.8	1089.6	83.2	53.6	42.5	35.1	29.6	25.9	24.0	22.2	22.2
50°	1787.1	1150.7	77.7	49.9	38.8	33.3	27.7	24.0	20.3	18.5	18.5
52.5°	1916.6	1208.0	74.0	46.2	37.0	29.6	24.0	20.3	18.5	16.6	16.6
55°	1985.0	1233.9	72.1	44.4	33.3	27.7	22.2	18.5	16.6	14.8	14.8
57.5°	2092.3	1267.2	70.3	42.5	31.4	24.0	20.3	16.6	14.8	12.9	12.9
60°	2266.2	1376.4	68.4	40.7	29.6	24.0	18.5	14.8	11.1	9.2	9.2
62.5°	2410.5	1467.0	61.0	35.1	25.9	20.3	14.8	11.1	7.4	5.5	5.5
65°	2575.1	1509.6	53.6	31.4	22.2	16.6	11.1	7.4	5.5	1.8	1.8
67.5°	2754.6	1574.3	44.4	27.7	20.3	12.9	9.2	5.5	1.8	0.0	0.0
70°	2660.2	1492.9	37.0	24.0	18.5	11.1	7.4	3.7	0.0	0.0	0.0
72.5°	2084.9	1069.3	29.6	22.2	16.6	11.1	7.4	1.8	0.0	0.0	0.0
75°	1393.0	604.9	25.9	18.5	12.9	9.2	5.5	1.8	0.0	0.0	0.0
77.5°	756.6	271.9	22.2	16.6	11.1	7.4	5.5	1.8	0.0	0.0	0.0
80°	246.0	107.3	18.5	14.8	11.1	7.4	5.5	1.8	0.0	0.0	0.0
82.5°	66.6	33.3	18.5	14.8	11.1	7.4	5.5	1.8	0.0	0.0	0.0
85°	27.7	22.2	18.5	14.8	11.1	7.4	5.5	1.8	0.0	0.0	0.0
87.5°	11.1	7.4	7.4	9.2	7.4	5.5	3.7	1.8	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°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	516.1	519.8	521.7	521.7	530.9	540.2	551.3	560.5	560.5	566.1	571.6
5°	453.2	456.9	462.5	479.1	497.6	518.0	538.3	553.1	573.5	582.7	588.3
7.5°	401.4	405.1	419.9	436.6	462.5	497.6	532.8	566.1	586.4	595.7	603.1
10°	347.8	353.3	370.0	399.6	432.9	475.4	516.1	573.5	606.8	625.3	632.7
12.5°	270.1	284.9	307.1	338.5	381.1	445.8	521.7	580.9	638.2	660.4	675.2
15°	170.2	183.1	218.3	268.2	325.6	401.4	506.9	592.0	671.5	693.7	717.8
17.5°	109.1	111.0	122.1	175.7	249.7	345.9	484.7	608.6	708.5	740.0	777.0
20°	92.5	96.2	98.0	105.4	166.5	284.9	438.4	629.0	752.9	795.5	830.6
22.5°	77.7	79.5	83.2	88.8	99.9	207.2	375.5	629.0	791.8	854.7	895.4
25°	62.9	66.6	70.3	75.8	86.9	129.5	310.8	617.9	838.0	915.7	967.5
27.5°	55.5	55.5	59.2	64.7	74.0	90.6	246.0	584.6	873.2	952.7	1021.2
30°	48.1	49.9	51.8	57.3	66.6	79.5	170.2	530.9	910.2	1024.9	1102.6
32.5°	42.5	42.5	46.2	49.9	59.2	72.1	109.1	449.5	958.3	1080.4	1189.5
35°	38.8	38.8	40.7	44.4	53.6	64.7	85.1	381.1	1015.6	1185.8	1306.1
37.5°	35.1	35.1	37.0	40.7	48.1	57.3	77.7	327.4	1074.8	1291.3	1467.0
40°	31.4	31.4	33.3	37.0	42.5	51.8	70.3	264.5	1148.8	1446.7	1642.8
42.5°	27.7	27.7	29.6	33.3	38.8	46.2	61.0	197.9	1246.9	1615.0	1870.3
45°	24.0	24.0	25.9	29.6	33.3	42.5	55.5	151.7	1354.2	1801.9	2070.1
47.5°	20.3	22.2	24.0	27.7	31.4	38.8	49.9	133.2	1459.6	1999.8	2292.1
50°	18.5	18.5	20.3	24.0	29.6	35.1	46.2	131.3	1566.9	2151.5	2519.6
52.5°	16.6	16.6	18.5	22.2	27.7	33.3	44.4	135.0	1655.7	2292.1	2678.7
55°	14.8	14.8	16.6	18.5	24.0	31.4	40.7	138.7	1718.6	2434.5	2806.4
57.5°	12.9	12.9	14.8	18.5	22.2	27.7	37.0	142.4	1820.4	2575.1	2991.4
60°	9.2	9.2	12.9	16.6	20.3	24.0	35.1	146.1	1983.2	2769.4	3148.6
62.5°	5.5	5.5	7.4	12.9	16.6	22.2	31.4	138.7	2134.8	3019.1	3389.1
65°	1.8	3.7	5.5	7.4	12.9	18.5	25.9	125.8	2262.5	3268.9	3611.1
67.5°	0.0	0.0	1.8	5.5	11.1	14.8	22.2	92.5	2282.8	3381.7	3838.7
70°	0.0	0.0	1.8	5.5	9.2	14.8	20.3	51.8	1944.3	3021.0	3518.6
72.5°	0.0	0.0	0.0	3.7	9.2	12.9	18.5	38.8	1433.7	2277.3	2780.5
75°	0.0	0.0	0.0	1.8	7.4	11.1	16.6	29.6	871.3	1518.8	1814.8
77.5°	0.0	0.0	0.0	1.8	5.5	11.1	16.6	25.9	307.1	723.3	852.8
80°	0.0	0.0	0.0	3.7	7.4	11.1	14.8	22.2	74.0	181.3	244.2
82.5°	0.0	0.0	0.0	1.8	5.5	9.2	12.9	18.5	29.6	53.6	85.1
85°	0.0	0.0	0.0	1.8	3.7	9.2	12.9	16.6	20.3	25.9	37.0
87.5°	0.0	0.0	0.0	0.0	1.8	3.7	5.5	7.4	7.4	7.4	12.9
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	569.8	577.2	580.9	588.3	592.0	590.1	588.3	593.8	590.1	584.6
5°	590.1	590.1	595.7	597.5	597.5	592.0	595.7	593.8	590.1	590.1
7.5°	612.3	621.6	621.6	610.5	608.6	604.9	604.9	590.1	584.6	590.1
10°	634.5	641.9	643.8	630.8	614.2	606.8	597.5	579.0	569.8	573.5
12.5°	680.8	680.8	660.4	645.6	623.4	597.5	575.3	549.4	536.5	540.2
15°	714.1	721.5	693.7	660.4	621.6	573.5	549.4	529.1	521.7	516.1
17.5°	778.8	764.0	719.6	671.5	616.0	566.1	549.4	530.9	525.4	525.4
20°	834.3	826.9	760.3	673.4	614.2	580.9	569.8	560.5	558.7	553.1
22.5°	910.2	876.9	791.8	693.7	634.5	604.9	601.2	610.5	604.9	601.2
25°	967.5	939.8	815.8	723.3	666.0	656.7	662.3	671.5	656.7	651.2
27.5°	1045.2	993.4	862.1	762.2	708.5	717.8	736.3	738.1	728.9	734.4
30°	1117.4	1061.9	897.2	806.6	780.7	789.9	817.7	838.0	825.1	817.7
32.5°	1221.0	1135.9	967.5	880.6	871.3	895.4	926.8	939.8	923.1	919.4
35°	1330.1	1221.0	1039.7	963.8	980.5	1013.8	1041.5	1063.7	1037.8	1048.9
37.5°	1500.3	1357.9	1161.8	1095.2	1102.6	1115.5	1167.3	1228.4	1241.3	1219.1
40°	1677.9	1505.9	1274.6	1222.8	1239.5	1274.6	1335.7	1393.0	1422.6	1393.0
42.5°	1883.3	1648.3	1448.5	1387.5	1404.1	1454.1	1535.5	1581.7	1578.0	1533.6
45°	2136.7	1846.3	1611.3	1535.5	1596.5	1640.9	1722.3	1727.9	1692.7	1681.6
47.5°	2330.9	2012.8	1787.1	1739.0	1822.2	1824.1	1842.6	1844.4	1805.6	1792.6
50°	2545.5	2205.1	1983.2	1912.9	2053.4	1988.7	1938.8	1905.5	1846.3	1818.5
52.5°	2756.4	2342.0	2164.4	2092.3	2238.4	2066.4	1975.8	1874.0	1787.1	1757.5
55°	2869.3	2567.7	2429.0	2260.6	2279.1	2088.6	1861.1	1733.4	1585.4	1578.0
57.5°	3002.5	2719.4	2652.8	2375.3	2210.7	1933.2	1622.4	1454.1	1295.0	1276.5
60°	3159.7	2959.9	2889.6	2356.8	1968.4	1624.3	1285.7	1069.3	919.4	906.5
62.5°	3335.5	3244.8	3035.8	2175.5	1563.2	1143.3	849.1	667.8	529.1	521.7
65°	3613.0	3483.5	3113.5	1831.5	1034.1	732.6	564.2	432.9	349.6	345.9
67.5°	3786.9	3574.1	2939.6	1306.1	573.5	484.7	395.9	314.5	242.3	227.5
70°	3540.8	3280.0	2325.4	747.4	333.0	368.1	305.2	210.9	166.5	162.8
72.5°	2828.6	2434.5	1565.1	351.5	207.2	288.6	222.0	142.4	99.9	96.2
75°	1929.5	1531.8	982.3	162.8	146.1	210.9	162.8	83.2	70.3	70.3
77.5°	862.1	780.7	503.2	99.9	109.1	160.9	94.3	57.3	51.8	49.9
80°	262.7	275.6	205.3	68.4	81.4	122.1	57.3	38.8	31.4	29.6
82.5°	88.8	103.6	92.5	40.7	55.5	86.9	38.8	25.9	22.2	22.2
85°	42.5	51.8	46.2	25.9	29.6	42.5	31.4	20.3	12.9	12.9
87.5°	16.6	24.0	16.6	11.1	16.6	22.2	12.9	9.2	3.7	3.7
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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