

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: P676234

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676234
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

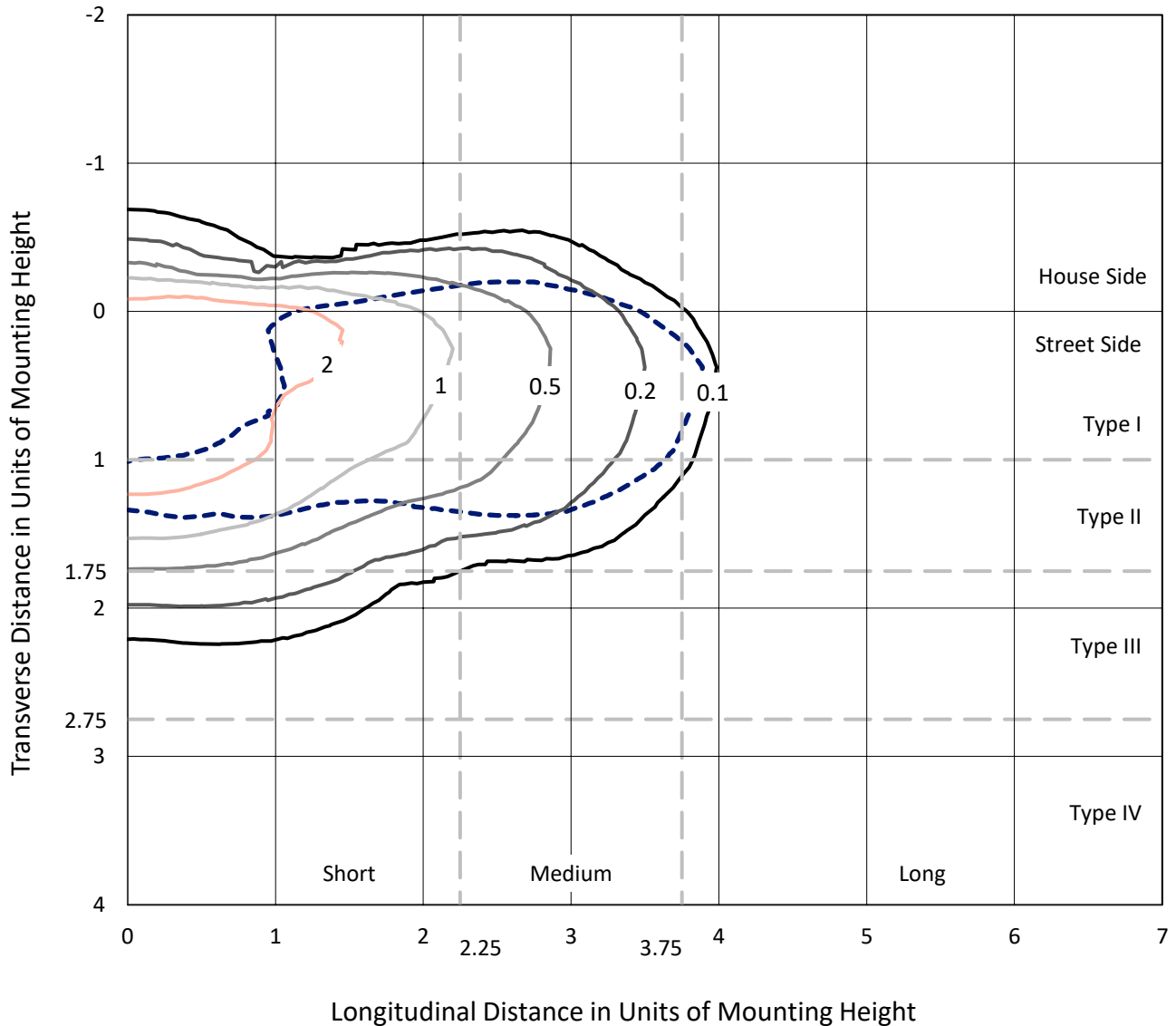
Lumens per Lamp: N/A
Luminaire Lumens: 3888.1 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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

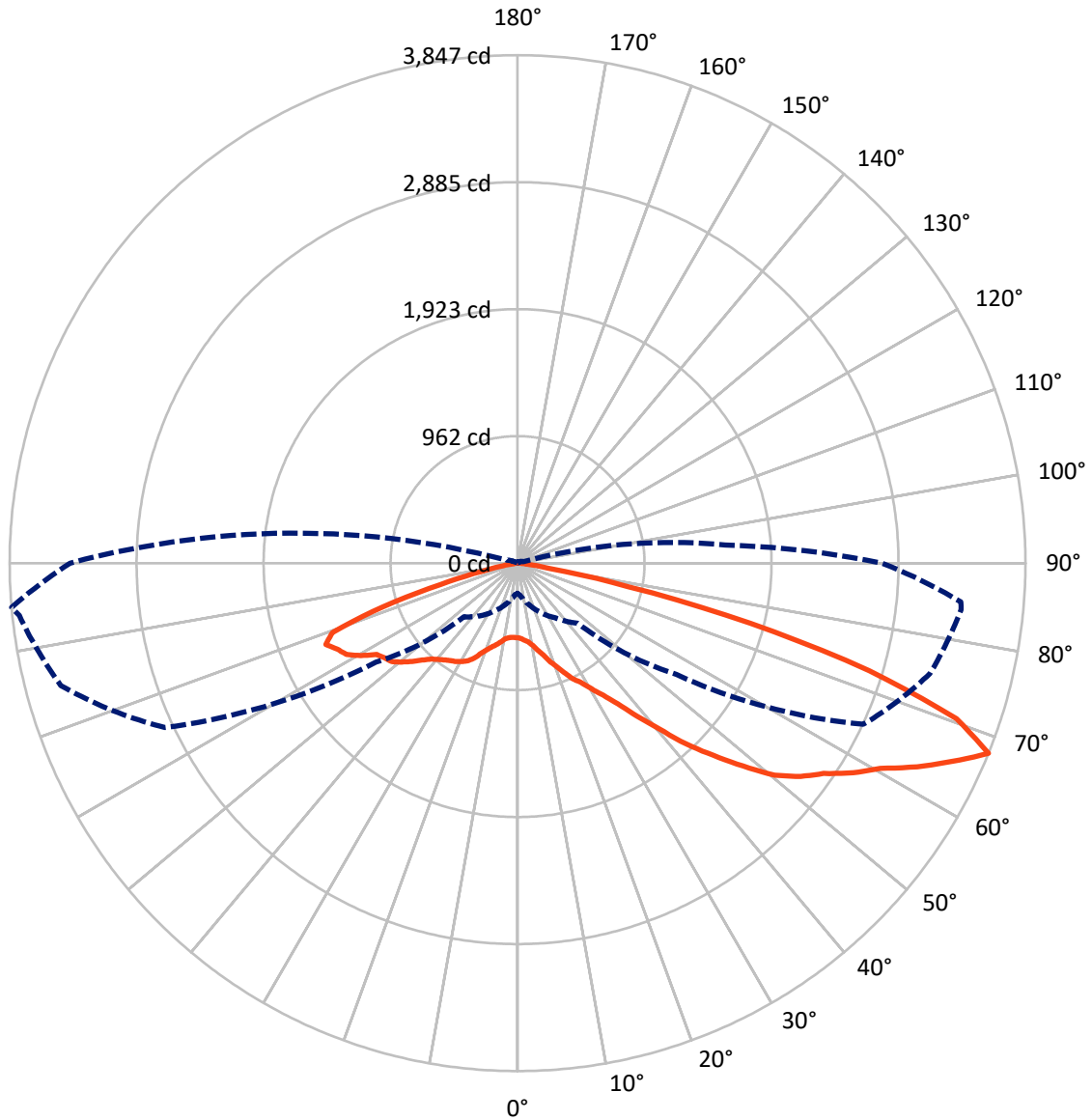
× Max cd
 - - - 1/2 Max cd



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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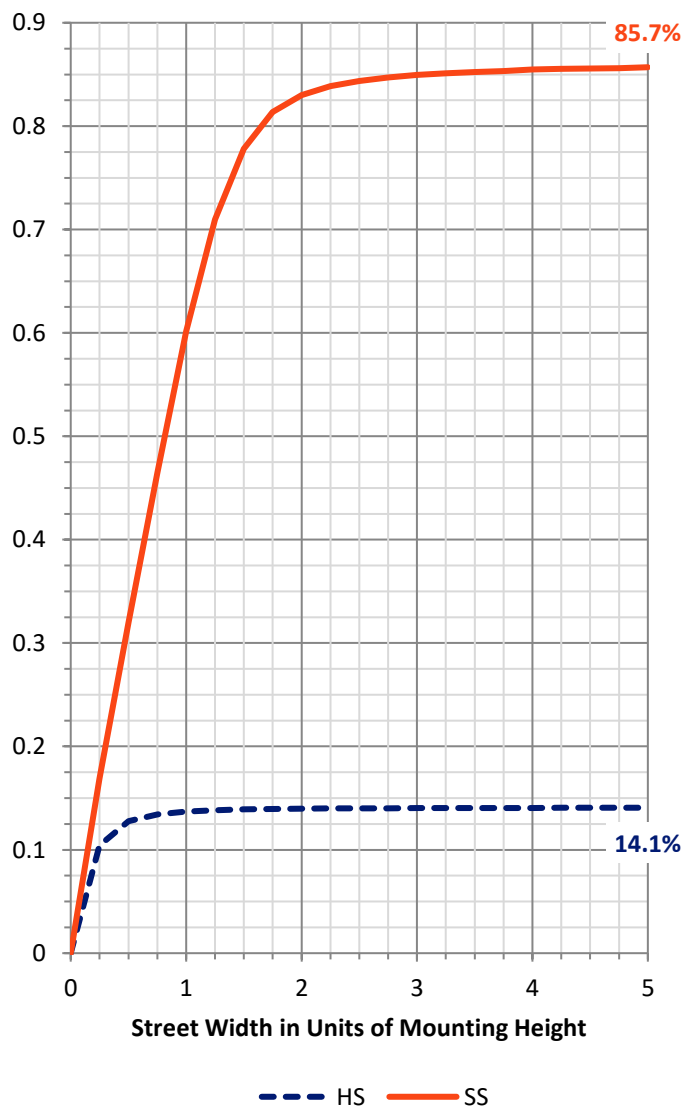
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.4	0.0	552.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3335.7	0.0	3335.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	3888.1	0.0	3888.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	1.3
10°-20°	138.6	3.6
20°-30°	230.2	5.9
30°-40°	396.1	10.2
40°-50°	711.8	18.3
50°-60°	1013.3	26.1
60°-70°	923.8	23.8
70°-80°	393.4	10.1
80°-90°	29.3	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°	3888.1	100.0
0°-180°	3888.1	100.0



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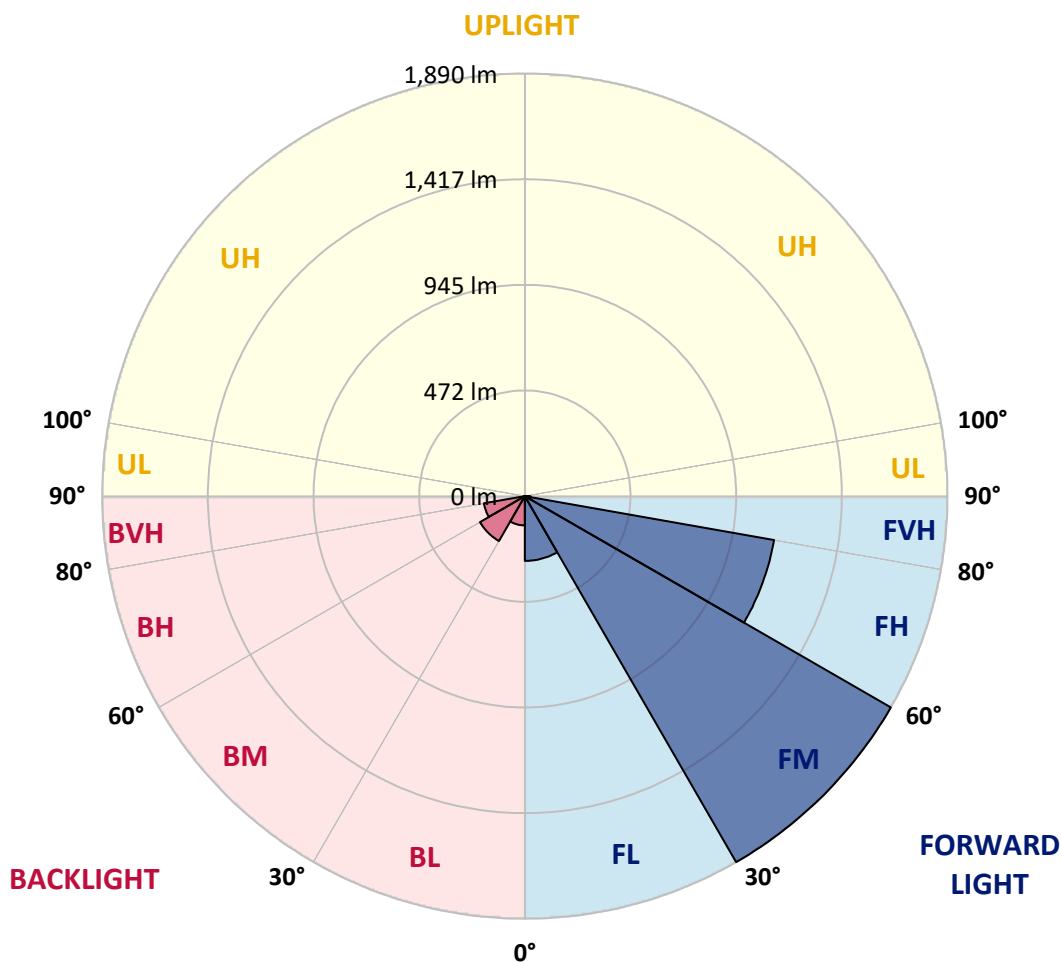
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.7	7.4			
FM (30°-60°)	1889.6	48.6			
FH (60°-80°)	1131.6	29.1			G1/1800
FVH (80°-90°)	24.9	0.6			G1/100
BL (0°-30°)	130.8	3.4	B1/500		
BM (30°-60°)	231.6	6.0	B1/1000		
BH (60°-80°)	185.6	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°	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4
2.5°	585.8	591.3	591.3	589.5	583.9	580.2	578.4	574.7	570.9	570.9	572.8
5°	591.3	585.8	593.2	583.9	583.9	583.9	591.3	587.6	585.8	576.5	576.5
7.5°	591.3	585.8	585.8	591.3	585.8	589.5	598.8	595.0	602.5	585.8	589.5
10°	574.7	572.8	576.5	583.9	585.8	593.2	602.5	621.0	622.9	611.7	609.9
12.5°	541.3	539.4	552.4	556.1	578.4	596.9	624.7	639.5	656.2	650.7	639.5
15°	517.2	520.9	530.2	545.0	565.4	598.8	630.3	663.6	693.3	685.9	682.2
17.5°	526.5	524.6	526.5	535.7	561.7	595.0	648.8	687.7	730.4	730.4	734.1
20°	554.3	559.8	558.0	552.4	565.4	593.2	648.8	717.4	787.8	782.3	782.3
22.5°	602.5	604.3	593.2	589.5	587.6	604.3	659.9	754.5	836.0	847.2	843.4
25°	652.5	654.4	650.7	639.5	624.7	628.4	680.3	784.1	902.8	921.3	917.6
27.5°	735.9	734.1	724.8	711.8	689.6	672.9	711.8	806.4	954.7	986.2	976.9
30°	819.3	813.8	800.8	784.1	763.7	732.2	750.8	849.0	1019.6	1049.2	1028.8
32.5°	921.3	910.2	913.9	887.9	845.3	795.2	791.5	887.9	1071.5	1114.1	1097.4
35°	1051.1	1038.1	1019.6	995.5	954.7	887.9	867.5	951.0	1158.6	1190.1	1190.1
37.5°	1221.6	1234.6	1212.3	1112.2	1067.7	1004.7	962.1	1015.8	1234.6	1310.6	1292.0
40°	1395.9	1407.0	1366.2	1292.0	1195.7	1117.8	1091.8	1121.5	1349.5	1440.3	1405.1
42.5°	1536.7	1551.6	1536.7	1440.3	1364.3	1264.2	1217.9	1245.7	1497.8	1607.2	1560.8
45°	1685.0	1699.9	1683.2	1620.2	1546.0	1488.5	1371.8	1407.0	1653.5	1816.7	1764.8
47.5°	1796.3	1814.8	1785.1	1772.2	1712.8	1703.6	1505.2	1544.2	1816.7	2028.0	1963.1
50°	1822.2	1842.6	1868.6	1883.4	1863.0	1885.2	1685.0	1718.4	1987.2	2222.6	2159.6
52.5°	1761.0	1781.4	1838.9	1907.5	2002.0	2068.8	1866.7	1894.5	2165.2	2383.9	2350.5
55°	1581.2	1599.8	1716.6	1809.2	2035.4	2144.8	2041.0	2157.7	2293.1	2552.6	2471.0
57.5°	1279.1	1301.3	1455.2	1597.9	1924.2	2102.1	2144.8	2376.5	2504.4	2676.8	2582.2
60°	908.3	921.3	1054.8	1306.9	1616.5	1889.0	2124.4	2539.6	2671.2	2843.6	2793.6
62.5°	522.8	533.9	672.9	910.2	1219.8	1577.5	2033.5	2693.5	2851.0	3027.1	2999.3
65°	346.6	350.4	444.9	574.7	793.4	1162.3	1803.7	2830.6	3029.0	3173.6	3142.1
67.5°	228.0	248.4	322.5	411.5	507.9	643.2	1470.0	2888.1	3232.9	3377.5	3370.1
70°	163.1	170.5	231.7	317.0	381.9	361.5	860.1	2482.1	3223.6	3433.1	3371.9
72.5°	96.4	103.8	153.9	237.3	300.3	229.9	402.3	1755.5	2671.2	2739.8	2723.1
75°	70.4	70.4	94.5	170.5	218.7	165.0	189.1	1110.4	1774.0	1926.0	1924.2
77.5°	50.1	51.9	64.9	102.0	168.7	120.5	103.8	617.3	969.5	1060.3	1010.3
80°	29.7	31.5	44.5	61.2	122.3	87.1	68.6	281.8	372.6	376.3	357.8
82.5°	22.2	22.2	29.7	42.6	85.3	59.3	42.6	107.5	120.5	109.4	92.7
85°	13.0	11.1	22.2	31.5	50.1	33.4	29.7	50.1	55.6	40.8	37.1
87.5°	3.7	3.7	9.3	11.1	22.2	18.5	13.0	18.5	26.0	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°	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4
2.5°	569.1	563.5	554.3	550.6	537.6	532.0	528.3	519.0	520.9	515.3	515.3
5°	563.5	563.5	545.0	524.6	504.2	491.2	476.4	457.9	457.9	450.5	452.3
7.5°	583.9	569.1	545.0	507.9	474.6	444.9	431.9	413.4	402.3	396.7	396.7
10°	596.9	582.1	541.3	496.8	454.2	417.1	389.3	363.3	348.5	348.5	346.6
12.5°	632.1	609.9	556.1	494.9	431.9	376.3	333.7	304.0	283.6	268.8	272.5
15°	661.8	637.7	563.5	480.1	393.0	315.1	263.2	207.6	179.8	165.0	159.4
17.5°	708.1	663.6	580.2	454.2	333.7	246.5	170.5	124.2	113.1	111.2	111.2
20°	747.1	695.1	582.1	404.1	274.4	157.6	109.4	102.0	96.4	94.5	92.7
22.5°	800.8	735.9	574.7	346.6	196.5	105.7	92.7	85.3	81.6	76.0	76.0
25°	856.4	789.7	559.8	292.9	120.5	90.8	81.6	74.1	66.7	63.0	64.9
27.5°	915.7	830.5	517.2	228.0	92.7	79.7	66.7	61.2	57.5	55.6	55.6
30°	963.9	856.4	454.2	152.0	83.4	70.4	59.3	53.8	50.1	48.2	48.2
32.5°	999.2	878.7	383.7	102.0	76.0	63.0	53.8	48.2	44.5	42.6	42.6
35°	1058.5	895.4	318.8	87.1	68.6	55.6	46.3	42.6	38.9	38.9	38.9
37.5°	1149.3	917.6	254.0	79.7	63.0	50.1	44.5	38.9	37.1	35.2	35.2
40°	1229.0	945.4	181.7	72.3	57.5	46.3	38.9	35.2	33.4	31.5	31.5
42.5°	1344.0	976.9	118.6	64.9	51.9	42.6	35.2	31.5	29.7	27.8	27.8
45°	1490.4	1028.8	92.7	57.5	46.3	38.9	33.4	29.7	26.0	26.0	24.1
47.5°	1646.1	1091.8	83.4	53.8	42.6	35.2	29.7	26.0	24.1	22.2	22.2
50°	1790.7	1153.0	77.9	50.1	38.9	33.4	27.8	24.1	20.4	18.5	18.5
52.5°	1920.5	1210.5	74.1	46.3	37.1	29.7	24.1	20.4	18.5	16.7	16.7
55°	1989.1	1236.4	72.3	44.5	33.4	27.8	22.2	18.5	16.7	14.8	14.8
57.5°	2096.6	1269.8	70.4	42.6	31.5	24.1	20.4	16.7	14.8	13.0	13.0
60°	2270.8	1379.2	68.6	40.8	29.7	24.1	18.5	14.8	11.1	9.3	9.3
62.5°	2415.4	1470.0	61.2	35.2	26.0	20.4	14.8	11.1	7.4	5.6	5.6
65°	2580.4	1512.6	53.8	31.5	22.2	16.7	11.1	7.4	5.6	1.9	1.9
67.5°	2760.2	1577.5	44.5	27.8	20.4	13.0	9.3	5.6	1.9	0.0	0.0
70°	2665.7	1496.0	37.1	24.1	18.5	11.1	7.4	3.7	0.0	0.0	0.0
72.5°	2089.2	1071.5	29.7	22.2	16.7	11.1	7.4	1.9	0.0	0.0	0.0
75°	1395.9	606.2	26.0	18.5	13.0	9.3	5.6	1.9	0.0	0.0	0.0
77.5°	758.2	272.5	22.2	16.7	11.1	7.4	5.6	1.9	0.0	0.0	0.0
80°	246.5	107.5	18.5	14.8	11.1	7.4	5.6	1.9	0.0	0.0	0.0
82.5°	66.7	33.4	18.5	14.8	11.1	7.4	5.6	1.9	0.0	0.0	0.0
85°	27.8	22.2	18.5	14.8	11.1	7.4	5.6	1.9	0.0	0.0	0.0
87.5°	11.1	7.4	7.4	9.3	7.4	5.6	3.7	1.9	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°	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4
2.5°	517.2	520.9	522.8	522.8	532.0	541.3	552.4	561.7	561.7	567.2	572.8
5°	454.2	457.9	463.4	480.1	498.7	519.0	539.4	554.3	574.7	583.9	589.5
7.5°	402.3	406.0	420.8	437.5	463.4	498.7	533.9	567.2	587.6	596.9	604.3
10°	348.5	354.1	370.7	400.4	433.8	476.4	517.2	574.7	608.0	626.6	634.0
12.5°	270.6	285.5	307.7	339.2	381.9	446.7	522.8	582.1	639.5	661.8	676.6
15°	170.5	183.5	218.7	268.8	326.3	402.3	507.9	593.2	672.9	695.1	719.2
17.5°	109.4	111.2	122.3	176.1	250.3	346.6	485.7	609.9	710.0	741.5	778.6
20°	92.7	96.4	98.2	105.7	166.8	285.5	439.3	630.3	754.5	797.1	832.3
22.5°	77.9	79.7	83.4	89.0	100.1	207.6	376.3	630.3	793.4	856.4	897.2
25°	63.0	66.7	70.4	76.0	87.1	129.8	311.4	619.1	839.7	917.6	969.5
27.5°	55.6	55.6	59.3	64.9	74.1	90.8	246.5	585.8	875.0	954.7	1023.3
30°	48.2	50.1	51.9	57.5	66.7	79.7	170.5	532.0	912.0	1027.0	1104.8
32.5°	42.6	42.6	46.3	50.1	59.3	72.3	109.4	450.5	960.2	1082.6	1191.9
35°	38.9	38.9	40.8	44.5	53.8	64.9	85.3	381.9	1017.7	1188.2	1308.7
37.5°	35.2	35.2	37.1	40.8	48.2	57.5	77.9	328.1	1077.0	1293.9	1470.0
40°	31.5	31.5	33.4	37.1	42.6	51.9	70.4	265.1	1151.2	1449.6	1646.1
42.5°	27.8	27.8	29.7	33.4	38.9	46.3	61.2	198.3	1249.4	1618.3	1874.1
45°	24.1	24.1	26.0	29.7	33.4	42.6	55.6	152.0	1356.9	1805.5	2074.3
47.5°	20.4	22.2	24.1	27.8	31.5	38.9	50.1	133.5	1462.6	2003.9	2296.8
50°	18.5	18.5	20.4	24.1	29.7	35.2	46.3	131.6	1570.1	2155.9	2524.8
52.5°	16.7	16.7	18.5	22.2	27.8	33.4	44.5	135.3	1659.1	2296.8	2684.2
55°	14.8	14.8	16.7	18.5	24.1	31.5	40.8	139.0	1722.1	2439.5	2812.1
57.5°	13.0	13.0	14.8	18.5	22.2	27.8	37.1	142.7	1824.1	2580.4	2997.5
60°	9.3	9.3	13.0	16.7	20.4	24.1	35.2	146.4	1987.2	2775.0	3155.0
62.5°	5.6	5.6	7.4	13.0	16.7	22.2	31.5	139.0	2139.2	3025.3	3396.0
65°	1.9	3.7	5.6	7.4	13.0	18.5	26.0	126.1	2267.1	3275.5	3618.5
67.5°	0.0	0.0	1.9	5.6	11.1	14.8	22.2	92.7	2287.5	3388.6	3846.5
70°	0.0	0.0	1.9	5.6	9.3	14.8	20.4	51.9	1948.3	3027.1	3525.8
72.5°	0.0	0.0	0.0	3.7	9.3	13.0	18.5	38.9	1436.6	2281.9	2786.2
75°	0.0	0.0	0.0	1.9	7.4	11.1	16.7	29.7	873.1	1521.9	1818.5
77.5°	0.0	0.0	0.0	1.9	5.6	11.1	16.7	26.0	307.7	724.8	854.6
80°	0.0	0.0	0.0	3.7	7.4	11.1	14.8	22.2	74.1	181.7	244.7
82.5°	0.0	0.0	0.0	1.9	5.6	9.3	13.0	18.5	29.7	53.8	85.3
85°	0.0	0.0	0.0	1.9	3.7	9.3	13.0	16.7	20.4	26.0	37.1
87.5°	0.0	0.0	0.0	0.0	1.9	3.7	5.6	7.4	7.4	7.4	13.0
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4
2.5°	570.9	578.4	582.1	589.5	593.2	591.3	589.5	595.0	591.3	585.8
5°	591.3	591.3	596.9	598.8	598.8	593.2	596.9	595.0	591.3	591.3
7.5°	613.6	622.9	622.9	611.7	609.9	606.2	606.2	591.3	585.8	591.3
10°	635.8	643.2	645.1	632.1	615.4	608.0	598.8	580.2	570.9	574.7
12.5°	682.2	682.2	661.8	647.0	624.7	598.8	576.5	550.6	537.6	541.3
15°	715.5	723.0	695.1	661.8	622.9	574.7	550.6	530.2	522.8	517.2
17.5°	780.4	765.6	721.1	672.9	617.3	567.2	550.6	532.0	526.5	526.5
20°	836.0	828.6	761.9	674.8	615.4	582.1	570.9	561.7	559.8	554.3
22.5°	912.0	878.7	793.4	695.1	635.8	606.2	602.5	611.7	606.2	602.5
25°	969.5	941.7	817.5	724.8	667.3	658.1	663.6	672.9	658.1	652.5
27.5°	1047.4	995.5	863.8	763.7	710.0	719.2	737.8	739.6	730.4	735.9
30°	1119.7	1064.0	899.1	808.2	782.3	791.5	819.3	839.7	826.8	819.3
32.5°	1223.5	1138.2	969.5	882.4	873.1	897.2	928.7	941.7	925.0	921.3
35°	1332.8	1223.5	1041.8	965.8	982.5	1015.8	1043.6	1065.9	1039.9	1051.1
37.5°	1503.4	1360.6	1164.1	1097.4	1104.8	1117.8	1169.7	1230.9	1243.9	1221.6
40°	1681.3	1508.9	1277.2	1225.3	1242.0	1277.2	1338.4	1395.9	1425.5	1395.9
42.5°	1887.1	1651.7	1451.5	1390.3	1407.0	1457.0	1538.6	1584.9	1581.2	1536.7
45°	2141.1	1850.0	1614.6	1538.6	1599.8	1644.3	1725.8	1731.4	1696.2	1685.0
47.5°	2335.7	2016.9	1790.7	1742.5	1825.9	1827.8	1846.3	1848.2	1809.2	1796.3
50°	2550.7	2209.6	1987.2	1916.8	2057.6	1992.8	1942.7	1909.3	1850.0	1822.2
52.5°	2762.1	2346.8	2168.9	2096.6	2243.0	2070.6	1979.8	1877.8	1790.7	1761.0
55°	2875.1	2573.0	2433.9	2265.3	2283.8	2092.9	1864.9	1736.9	1588.6	1581.2
57.5°	3008.6	2725.0	2658.2	2380.2	2215.2	1937.1	1625.7	1457.0	1297.6	1279.1
60°	3166.2	2966.0	2895.5	2361.7	1972.4	1627.6	1288.3	1071.5	921.3	908.3
62.5°	3342.3	3251.4	3042.0	2180.0	1566.4	1145.6	850.9	669.2	530.2	522.8
65°	3620.3	3490.6	3119.8	1835.2	1036.2	734.1	565.4	433.8	350.4	346.6
67.5°	3794.6	3581.4	2945.6	1308.7	574.7	485.7	396.7	315.1	242.8	228.0
70°	3548.0	3286.7	2330.1	748.9	333.7	368.9	305.9	211.3	166.8	163.1
72.5°	2834.4	2439.5	1568.3	352.2	207.6	289.2	222.4	142.7	100.1	96.4
75°	1933.4	1534.9	984.3	163.1	146.4	211.3	163.1	83.4	70.4	70.4
77.5°	863.8	782.3	504.2	100.1	109.4	161.3	94.5	57.5	51.9	50.1
80°	263.2	276.2	205.8	68.6	81.6	122.3	57.5	38.9	31.5	29.7
82.5°	89.0	103.8	92.7	40.8	55.6	87.1	38.9	26.0	22.2	22.2
85°	42.6	51.9	46.3	26.0	29.7	42.6	31.5	20.4	13.0	13.0
87.5°	16.7	24.1	16.7	11.1	16.7	22.2	13.0	9.3	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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