

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: P676245

Luminaire Tested: **CCW-SA-1E-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676245
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-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, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

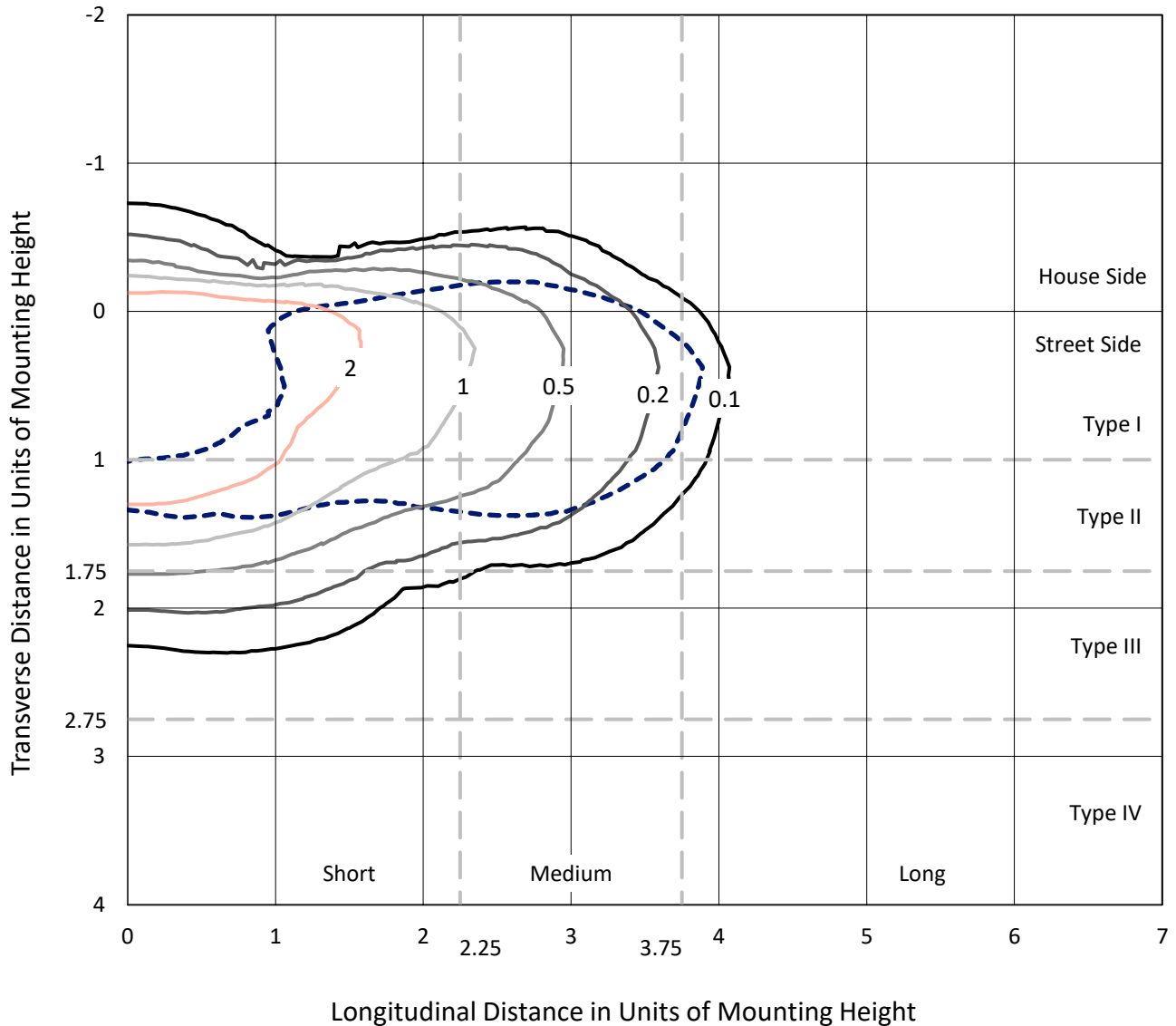
Lumens per Lamp: N/A
Luminaire Lumens: 4414.4 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

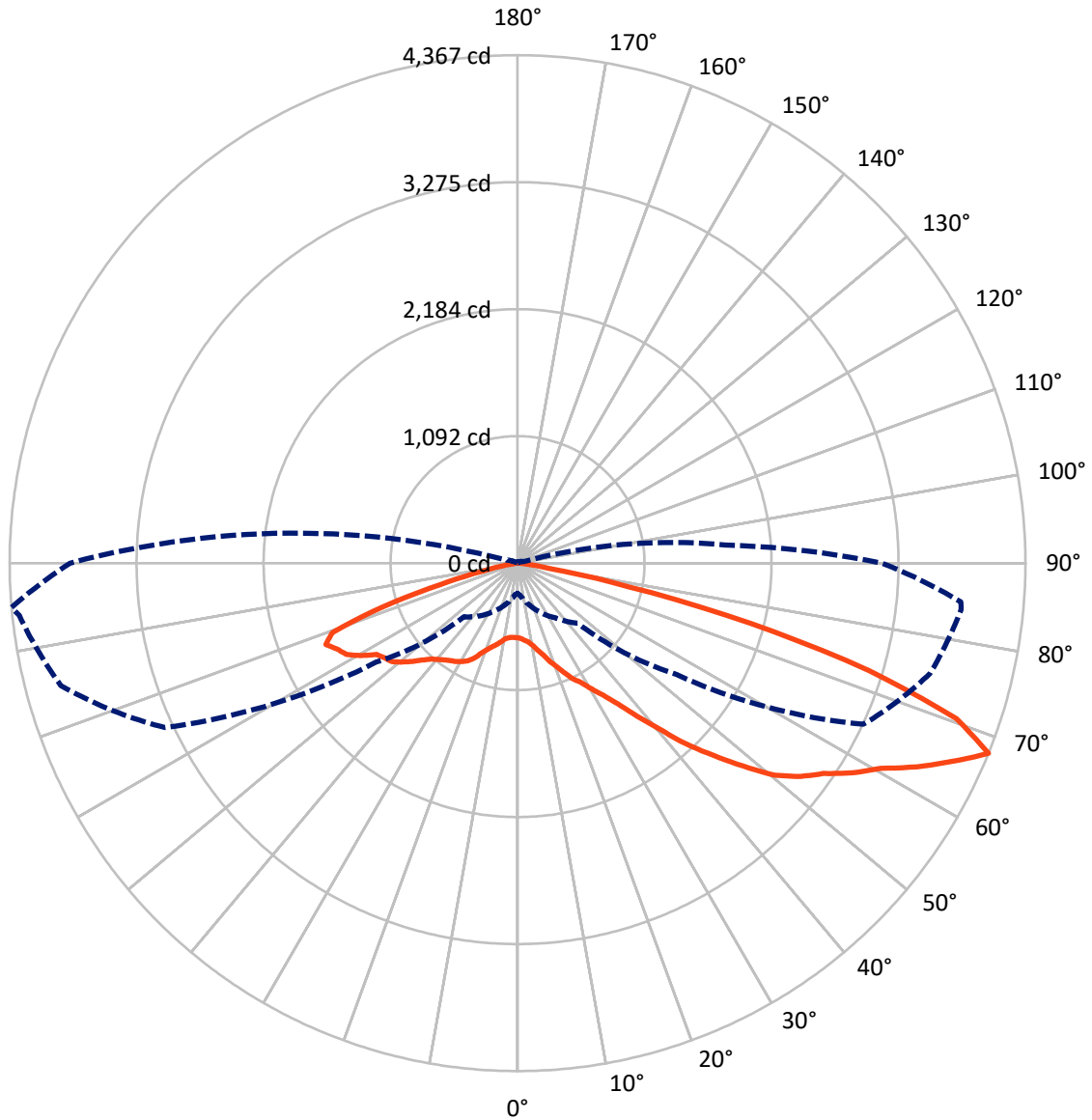
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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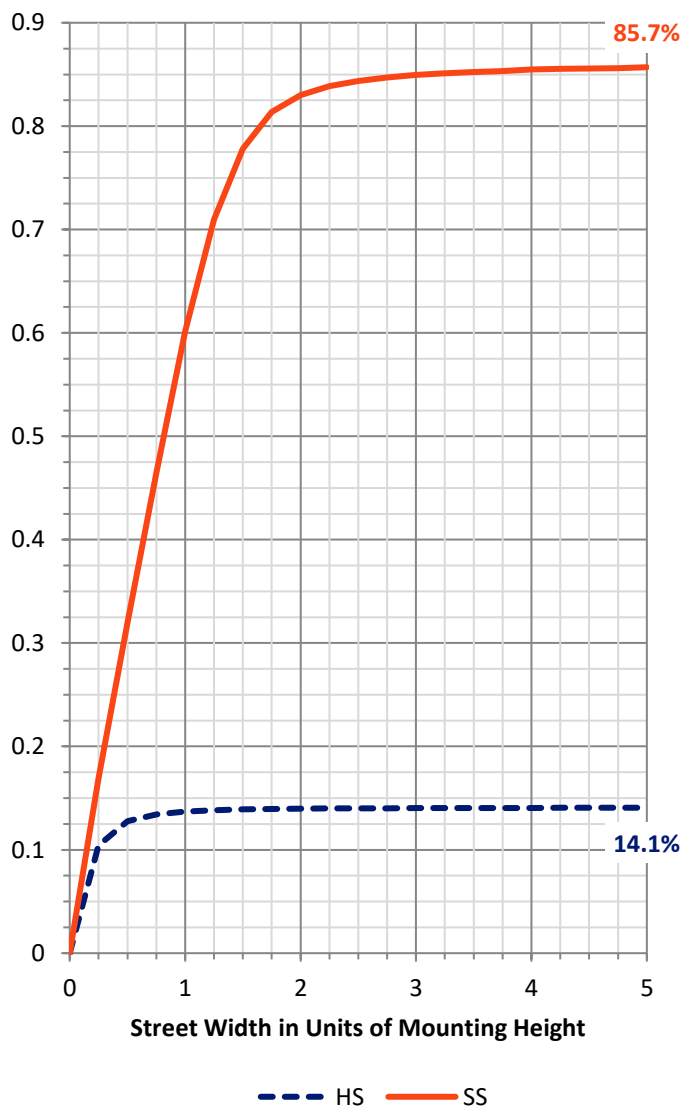
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	627.1	0.0	627.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3787.2	0.0	3787.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	4414.4	0.0	4414.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.3
10°-20°	157.4	3.6
20°-30°	261.4	5.9
30°-40°	449.7	10.2
40°-50°	808.1	18.3
50°-60°	1150.5	26.1
60°-70°	1048.9	23.8
70°-80°	446.6	10.1
80°-90°	33.2	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°	4414.4	100.0
0°-180°	4414.4	100.0



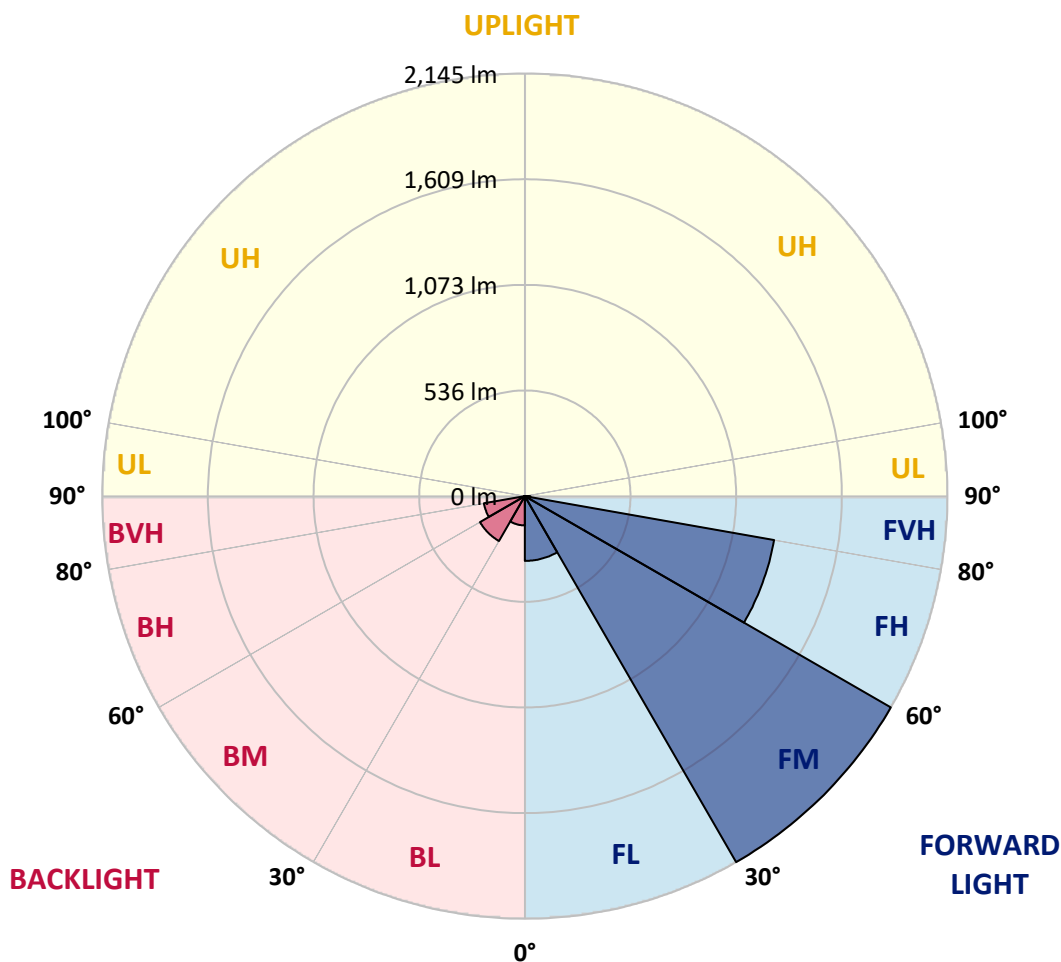
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.9	7.4			
FM (30°-60°)	2145.4	48.6			
FH (60°-80°)	1284.8	29.1			G1/1800
FVH (80°-90°)	28.2	0.6			G1/100
BL (0°-30°)	148.5	3.4	B1/500		
BM (30°-60°)	262.9	6.0	B1/1000		
BH (60°-80°)	210.7	4.8	B1/500		G1/500
BVH (80°-90°)	5.0	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°	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9
2.5°	665.1	671.4	671.4	669.3	663.0	658.8	656.6	652.4	648.2	648.2	650.3
5°	671.4	665.1	673.5	663.0	663.0	663.0	671.4	667.2	665.1	654.5	654.5
7.5°	671.4	665.1	665.1	671.4	665.1	669.3	679.8	675.6	684.0	665.1	669.3
10°	652.4	650.3	654.5	663.0	665.1	673.5	684.0	705.1	707.2	694.5	692.4
12.5°	614.6	612.4	627.2	631.4	656.6	677.7	709.3	726.1	745.0	738.7	726.1
15°	587.2	591.4	601.9	618.8	641.9	679.8	715.6	753.5	787.1	778.7	774.5
17.5°	597.7	595.6	597.7	608.2	637.7	675.6	736.6	780.8	829.2	829.2	833.4
20°	629.3	635.6	633.5	627.2	641.9	673.5	736.6	814.5	894.5	888.2	888.2
22.5°	684.0	686.1	673.5	669.3	667.2	686.1	749.3	856.6	949.2	961.8	957.6
25°	740.8	742.9	738.7	726.1	709.3	713.5	772.4	890.3	1025.0	1046.0	1041.8
27.5°	835.5	833.4	822.9	808.2	782.9	764.0	808.2	915.5	1083.9	1119.7	1109.1
30°	930.2	923.9	909.2	890.3	867.1	831.3	852.4	963.9	1157.5	1191.2	1168.1
32.5°	1046.0	1033.4	1037.6	1008.1	959.7	902.9	898.7	1008.1	1216.5	1264.9	1245.9
35°	1193.3	1178.6	1157.5	1130.2	1083.9	1008.1	985.0	1079.7	1315.4	1351.2	1351.2
37.5°	1387.0	1401.7	1376.4	1262.8	1212.3	1140.7	1092.3	1153.3	1401.7	1488.0	1466.9
40°	1584.8	1597.4	1551.1	1466.9	1357.5	1269.1	1239.6	1273.3	1532.2	1635.3	1595.3
42.5°	1744.7	1761.6	1744.7	1635.3	1549.0	1435.4	1382.7	1414.3	1700.5	1824.7	1772.1
45°	1913.1	1930.0	1911.0	1839.5	1755.3	1690.0	1557.4	1597.4	1877.3	2062.5	2003.6
47.5°	2039.4	2060.4	2026.8	2012.0	1944.7	1934.2	1709.0	1753.2	2062.5	2302.5	2228.8
50°	2068.9	2092.0	2121.5	2138.3	2115.2	2140.4	1913.1	1951.0	2256.2	2523.5	2451.9
52.5°	1999.4	2022.6	2087.8	2165.7	2273.0	2348.8	2119.4	2150.9	2458.2	2706.6	2668.7
55°	1795.3	1816.3	1948.9	2054.1	2310.9	2435.1	2317.2	2449.8	2603.4	2898.1	2805.5
57.5°	1452.2	1477.5	1652.1	1814.2	2184.6	2386.7	2435.1	2698.1	2843.4	3039.1	2931.8
60°	1031.3	1046.0	1197.5	1483.8	1835.2	2144.6	2411.9	2883.3	3032.8	3228.5	3171.7
62.5°	593.5	606.1	764.0	1033.4	1384.8	1791.0	2308.8	3058.0	3236.9	3436.9	3405.3
65°	393.6	397.8	505.1	652.4	900.8	1319.6	2047.8	3213.8	3439.0	3603.1	3567.4
67.5°	258.9	282.0	366.2	467.2	576.7	730.3	1669.0	3279.0	3670.5	3834.6	3826.2
70°	185.2	193.6	263.1	359.9	433.6	410.4	976.6	2818.1	3660.0	3897.8	3828.3
72.5°	109.4	117.9	174.7	269.4	341.0	261.0	456.7	1993.1	3032.8	3110.7	3091.7
75°	80.0	80.0	107.3	193.6	248.3	187.3	214.7	1260.7	2014.1	2186.7	2184.6
77.5°	56.8	58.9	73.7	115.8	191.5	136.8	117.9	700.8	1100.7	1203.9	1147.0
80°	33.7	35.8	50.5	69.5	138.9	98.9	77.9	319.9	423.0	427.2	406.2
82.5°	25.3	25.3	33.7	48.4	96.8	67.3	48.4	122.1	136.8	124.2	105.2
85°	14.7	12.6	25.3	35.8	56.8	37.9	33.7	56.8	63.1	46.3	42.1
87.5°	4.2	4.2	10.5	12.6	25.3	21.0	14.7	21.0	29.5	16.8	12.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9
2.5°	646.1	639.8	629.3	625.1	610.3	604.0	599.8	589.3	591.4	585.1	585.1
5°	639.8	639.8	618.8	595.6	572.5	557.7	540.9	519.8	519.8	511.4	513.5
7.5°	663.0	646.1	618.8	576.7	538.8	505.1	490.4	469.3	456.7	450.4	450.4
10°	677.7	660.9	614.6	564.0	515.6	473.5	442.0	412.5	395.7	395.7	393.6
12.5°	717.7	692.4	631.4	561.9	490.4	427.2	378.8	345.2	322.0	305.2	309.4
15°	751.4	724.0	639.8	545.1	446.2	357.8	298.9	235.7	204.1	187.3	181.0
17.5°	804.0	753.5	658.8	515.6	378.8	279.9	193.6	141.0	128.4	126.3	126.3
20°	848.2	789.2	660.9	458.8	311.5	178.9	124.2	115.8	109.4	107.3	105.2
22.5°	909.2	835.5	652.4	393.6	223.1	120.0	105.2	96.8	92.6	86.3	86.3
25°	972.3	896.6	635.6	332.5	136.8	103.1	92.6	84.2	75.8	71.6	73.7
27.5°	1039.7	942.9	587.2	258.9	105.2	90.5	75.8	69.5	65.2	63.1	63.1
30°	1094.4	972.3	515.6	172.6	94.7	80.0	67.3	61.0	56.8	54.7	54.7
32.5°	1134.4	997.6	435.7	115.8	86.3	71.6	61.0	54.7	50.5	48.4	48.4
35°	1201.7	1016.5	362.0	98.9	77.9	63.1	52.6	48.4	44.2	44.2	44.2
37.5°	1304.9	1041.8	288.3	90.5	71.6	56.8	50.5	44.2	42.1	40.0	40.0
40°	1395.4	1073.4	206.3	82.1	65.2	52.6	44.2	40.0	37.9	35.8	35.8
42.5°	1525.9	1109.1	134.7	73.7	58.9	48.4	40.0	35.8	33.7	31.6	31.6
45°	1692.1	1168.1	105.2	65.2	52.6	44.2	37.9	33.7	29.5	29.5	27.4
47.5°	1868.9	1239.6	94.7	61.0	48.4	40.0	33.7	29.5	27.4	25.3	25.3
50°	2033.1	1309.1	88.4	56.8	44.2	37.9	31.6	27.4	23.2	21.0	21.0
52.5°	2180.4	1374.3	84.2	52.6	42.1	33.7	27.4	23.2	21.0	18.9	18.9
55°	2258.3	1403.8	82.1	50.5	37.9	31.6	25.3	21.0	18.9	16.8	16.8
57.5°	2380.3	1441.7	80.0	48.4	35.8	27.4	23.2	18.9	16.8	14.7	14.7
60°	2578.2	1565.8	77.9	46.3	33.7	27.4	21.0	16.8	12.6	10.5	10.5
62.5°	2742.3	1669.0	69.5	40.0	29.5	23.2	16.8	12.6	8.4	6.3	6.3
65°	2929.7	1717.4	61.0	35.8	25.3	18.9	12.6	8.4	6.3	2.1	2.1
67.5°	3133.8	1791.0	50.5	31.6	23.2	14.7	10.5	6.3	2.1	0.0	0.0
70°	3026.5	1698.4	42.1	27.4	21.0	12.6	8.4	4.2	0.0	0.0	0.0
72.5°	2371.9	1216.5	33.7	25.3	18.9	12.6	8.4	2.1	0.0	0.0	0.0
75°	1584.8	688.2	29.5	21.0	14.7	10.5	6.3	2.1	0.0	0.0	0.0
77.5°	860.8	309.4	25.3	18.9	12.6	8.4	6.3	2.1	0.0	0.0	0.0
80°	279.9	122.1	21.0	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
82.5°	75.8	37.9	21.0	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
85°	31.6	25.3	21.0	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
87.5°	12.6	8.4	8.4	10.5	8.4	6.3	4.2	2.1	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°	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9
2.5°	587.2	591.4	593.5	593.5	604.0	614.6	627.2	637.7	637.7	644.0	650.3
5°	515.6	519.8	526.2	545.1	566.1	589.3	612.4	629.3	652.4	663.0	669.3
7.5°	456.7	460.9	477.8	496.7	526.2	566.1	606.1	644.0	667.2	677.7	686.1
10°	395.7	402.0	420.9	454.6	492.5	540.9	587.2	652.4	690.3	711.4	719.8
12.5°	307.3	324.1	349.4	385.1	433.6	507.2	593.5	660.9	726.1	751.4	768.2
15°	193.6	208.4	248.3	305.2	370.4	456.7	576.7	673.5	764.0	789.2	816.6
17.5°	124.2	126.3	138.9	199.9	284.1	393.6	551.4	692.4	806.1	841.9	883.9
20°	105.2	109.4	111.5	120.0	189.4	324.1	498.8	715.6	856.6	905.0	945.0
22.5°	88.4	90.5	94.7	101.0	113.7	235.7	427.2	715.6	900.8	972.3	1018.6
25°	71.6	75.8	80.0	86.3	98.9	147.3	353.6	702.9	953.4	1041.8	1100.7
27.5°	63.1	63.1	67.3	73.7	84.2	103.1	279.9	665.1	993.4	1083.9	1161.8
30°	54.7	56.8	58.9	65.2	75.8	90.5	193.6	604.0	1035.5	1166.0	1254.4
32.5°	48.4	48.4	52.6	56.8	67.3	82.1	124.2	511.4	1090.2	1229.1	1353.3
35°	44.2	44.2	46.3	50.5	61.0	73.7	96.8	433.6	1155.4	1349.1	1485.9
37.5°	40.0	40.0	42.1	46.3	54.7	65.2	88.4	372.5	1222.8	1469.0	1669.0
40°	35.8	35.8	37.9	42.1	48.4	58.9	80.0	301.0	1307.0	1645.8	1868.9
42.5°	31.6	31.6	33.7	37.9	44.2	52.6	69.5	225.2	1418.5	1837.3	2127.8
45°	27.4	27.4	29.5	33.7	37.9	48.4	63.1	172.6	1540.6	2049.9	2355.1
47.5°	23.2	25.3	27.4	31.6	35.8	44.2	56.8	151.5	1660.6	2275.1	2607.6
50°	21.0	21.0	23.2	27.4	33.7	40.0	52.6	149.4	1782.6	2447.7	2866.5
52.5°	18.9	18.9	21.0	25.3	31.6	37.9	50.5	153.6	1883.6	2607.6	3047.5
55°	16.8	16.8	18.9	21.0	27.4	35.8	46.3	157.8	1955.2	2769.7	3192.7
57.5°	14.7	14.7	16.8	21.0	25.3	31.6	42.1	162.1	2071.0	2929.7	3403.2
60°	10.5	10.5	14.7	18.9	23.2	27.4	40.0	166.3	2256.2	3150.6	3582.1
62.5°	6.3	6.3	8.4	14.7	18.9	25.3	35.8	157.8	2428.7	3434.8	3855.7
65°	2.1	4.2	6.3	8.4	14.7	21.0	29.5	143.1	2574.0	3718.9	4108.2
67.5°	0.0	0.0	2.1	6.3	12.6	16.8	25.3	105.2	2597.1	3847.3	4367.1
70°	0.0	0.0	2.1	6.3	10.5	16.8	23.2	58.9	2212.0	3436.9	4003.0
72.5°	0.0	0.0	0.0	4.2	10.5	14.7	21.0	44.2	1631.1	2590.8	3163.3
75°	0.0	0.0	0.0	2.1	8.4	12.6	18.9	33.7	991.3	1727.9	2064.6
77.5°	0.0	0.0	0.0	2.1	6.3	12.6	18.9	29.5	349.4	822.9	970.2
80°	0.0	0.0	0.0	4.2	8.4	12.6	16.8	25.3	84.2	206.3	277.8
82.5°	0.0	0.0	0.0	2.1	6.3	10.5	14.7	21.0	33.7	61.0	96.8
85°	0.0	0.0	0.0	2.1	4.2	10.5	14.7	18.9	23.2	29.5	42.1
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	6.3	8.4	8.4	8.4	14.7
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°	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9	641.9
2.5°	648.2	656.6	660.9	669.3	673.5	671.4	669.3	675.6	671.4	665.1
5°	671.4	671.4	677.7	679.8	679.8	673.5	677.7	675.6	671.4	671.4
7.5°	696.6	707.2	707.2	694.5	692.4	688.2	688.2	671.4	665.1	671.4
10°	721.9	730.3	732.4	717.7	698.7	690.3	679.8	658.8	648.2	652.4
12.5°	774.5	774.5	751.4	734.5	709.3	679.8	654.5	625.1	610.3	614.6
15°	812.4	820.8	789.2	751.4	707.2	652.4	625.1	601.9	593.5	587.2
17.5°	886.1	869.2	818.7	764.0	700.8	644.0	625.1	604.0	597.7	597.7
20°	949.2	940.8	865.0	766.1	698.7	660.9	648.2	637.7	635.6	629.3
22.5°	1035.5	997.6	900.8	789.2	721.9	688.2	684.0	694.5	688.2	684.0
25°	1100.7	1069.2	928.1	822.9	757.7	747.1	753.5	764.0	747.1	740.8
27.5°	1189.1	1130.2	980.8	867.1	806.1	816.6	837.6	839.7	829.2	835.5
30°	1271.2	1208.1	1020.7	917.6	888.2	898.7	930.2	953.4	938.7	930.2
32.5°	1389.1	1292.2	1100.7	1001.8	991.3	1018.6	1054.4	1069.2	1050.2	1046.0
35°	1513.2	1389.1	1182.8	1096.5	1115.5	1153.3	1184.9	1210.2	1180.7	1193.3
37.5°	1706.9	1544.8	1321.7	1245.9	1254.4	1269.1	1328.0	1397.5	1412.2	1387.0
40°	1908.9	1713.2	1450.1	1391.2	1410.1	1450.1	1519.5	1584.8	1618.5	1584.8
42.5°	2142.5	1875.2	1647.9	1578.5	1597.4	1654.2	1746.8	1799.5	1795.3	1744.7
45°	2430.9	2100.4	1833.1	1746.8	1816.3	1866.8	1959.4	1965.7	1925.7	1913.1
47.5°	2651.8	2289.8	2033.1	1978.4	2073.1	2075.2	2096.2	2098.3	2054.1	2039.4
50°	2896.0	2508.7	2256.2	2176.2	2336.1	2262.5	2205.7	2167.8	2100.4	2068.9
52.5°	3135.9	2664.5	2462.4	2380.3	2546.6	2350.9	2247.8	2132.0	2033.1	1999.4
55°	3264.3	2921.2	2763.4	2571.9	2592.9	2376.1	2117.3	1972.0	1803.7	1795.3
57.5°	3415.8	3093.8	3018.0	2702.4	2515.0	2199.3	1845.8	1654.2	1473.2	1452.2
60°	3594.7	3367.4	3287.4	2681.3	2239.3	1847.9	1462.7	1216.5	1046.0	1031.3
62.5°	3794.7	3691.5	3453.7	2475.1	1778.4	1300.7	966.0	759.8	601.9	593.5
65°	4110.4	3963.0	3542.1	2083.6	1176.5	833.4	641.9	492.5	397.8	393.6
67.5°	4308.2	4066.2	3344.3	1485.9	652.4	551.4	450.4	357.8	275.7	258.9
70°	4028.3	3731.5	2645.5	850.3	378.8	418.8	347.3	239.9	189.4	185.2
72.5°	3218.0	2769.7	1780.5	399.9	235.7	328.3	252.6	162.1	113.7	109.4
75°	2195.1	1742.6	1117.6	185.2	166.3	239.9	185.2	94.7	80.0	80.0
77.5°	980.8	888.2	572.5	113.7	124.2	183.1	107.3	65.2	58.9	56.8
80°	298.9	313.6	233.6	77.9	92.6	138.9	65.2	44.2	35.8	33.7
82.5°	101.0	117.9	105.2	46.3	63.1	98.9	44.2	29.5	25.3	25.3
85°	48.4	58.9	52.6	29.5	33.7	48.4	35.8	23.2	14.7	14.7
87.5°	18.9	27.4	18.9	12.6	18.9	25.3	14.7	10.5	4.2	4.2
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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