

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: P676317

Luminaire Tested: **CCW-SA-2E-827-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676317
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-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: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

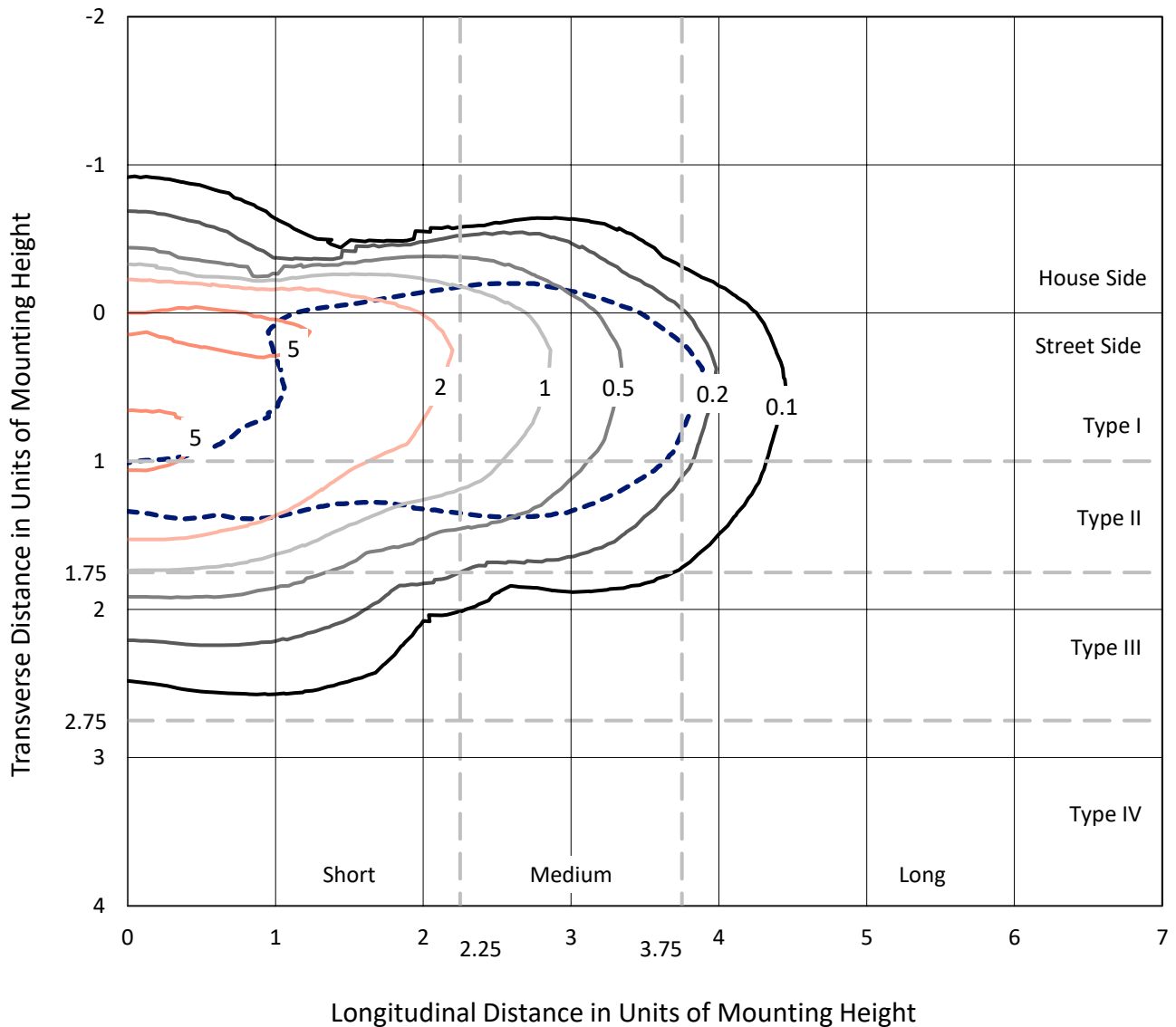
Lumens per Lamp: N/A
Luminaire Lumens: 7759.8 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

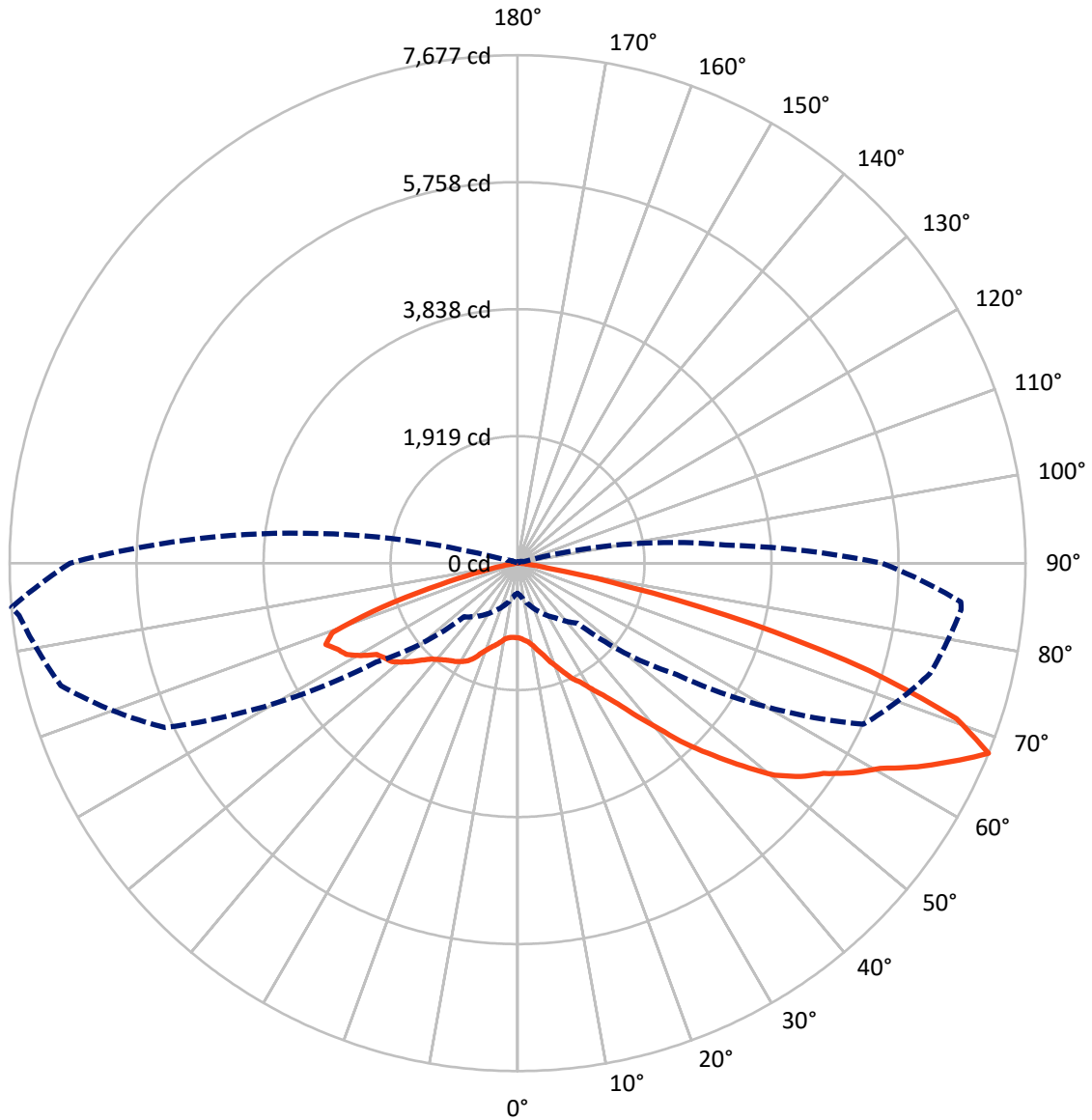
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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	1102.4	0.0	1102.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6657.4	0.0	6657.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	7759.8	0.0	7759.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.3
10°-20°	276.7	3.6
20°-30°	459.5	5.9
30°-40°	790.5	10.2
40°-50°	1420.6	18.3
50°-60°	2022.4	26.1
60°-70°	1843.7	23.8
70°-80°	785.1	10.1
80°-90°	58.5	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°	7759.8	100.0
0°-180°	7759.8	100.0

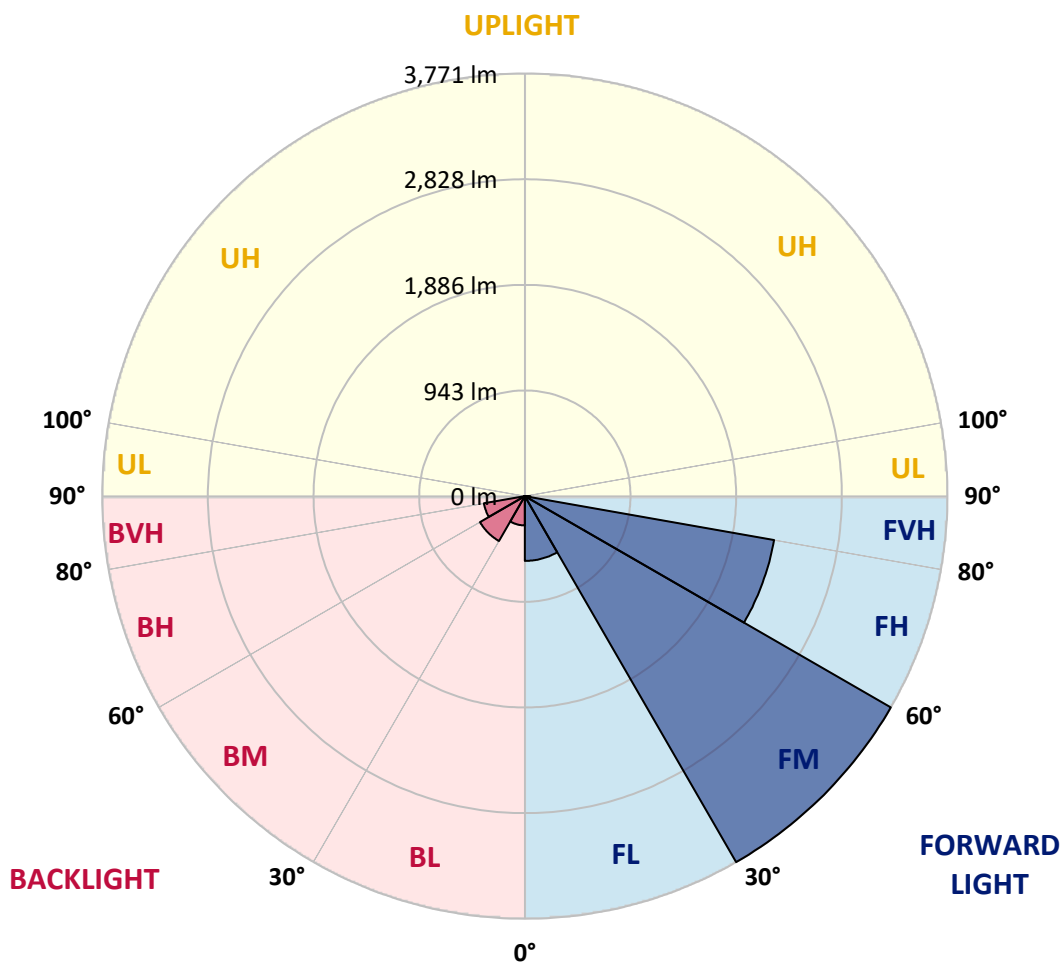


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.1	7.4			
FM (30°-60°)	3771.3	48.6			
FH (60°-80°)	2258.4	29.1			G2/5000
FVH (80°-90°)	49.6	0.6			G1/100
BL (0°-30°)	261.0	3.4	B1/500		
BM (30°-60°)	462.2	6.0	B1/1000		
BH (60°-80°)	370.4	4.8	B1/500		G1/500
BVH (80°-90°)	8.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1169.1	1180.2	1180.2	1176.5	1165.4	1158.0	1154.3	1146.9	1139.5	1139.5	1143.2
5°	1180.2	1169.1	1183.9	1165.4	1165.4	1165.4	1180.2	1172.8	1169.1	1150.6	1150.6
7.5°	1180.2	1169.1	1169.1	1180.2	1169.1	1176.5	1195.0	1187.6	1202.4	1169.1	1176.5
10°	1146.9	1143.2	1150.6	1165.4	1169.1	1183.9	1202.4	1239.4	1243.1	1220.9	1217.2
12.5°	1080.3	1076.6	1102.5	1109.9	1154.3	1191.3	1246.8	1276.4	1309.7	1298.6	1276.4
15°	1032.2	1039.6	1058.1	1087.7	1128.4	1195.0	1257.9	1324.5	1383.7	1368.9	1361.5
17.5°	1050.7	1047.0	1050.7	1069.2	1121.0	1187.6	1294.9	1372.6	1457.7	1457.7	1465.1
20°	1106.2	1117.3	1113.6	1102.5	1128.4	1183.9	1294.9	1431.8	1572.3	1561.2	1561.2
22.5°	1202.4	1206.1	1183.9	1176.5	1172.8	1206.1	1317.1	1505.8	1668.5	1690.7	1683.3
25°	1302.3	1306.0	1298.6	1276.4	1246.8	1254.2	1357.8	1564.9	1801.7	1838.7	1831.3
27.5°	1468.8	1465.1	1446.6	1420.7	1376.3	1343.0	1420.7	1609.3	1905.3	1968.2	1949.7
30°	1635.2	1624.1	1598.2	1564.9	1524.3	1461.4	1498.4	1694.4	2034.8	2094.0	2053.3
32.5°	1838.7	1816.5	1823.9	1772.1	1687.0	1587.1	1579.7	1772.1	2138.4	2223.5	2190.2
35°	2097.7	2071.8	2034.8	1986.7	1905.3	1772.1	1731.4	1897.9	2312.3	2375.2	2375.2
37.5°	2438.1	2464.0	2419.6	2219.8	2131.0	2005.2	1920.1	2027.4	2464.0	2615.6	2578.6
40°	2785.8	2808.0	2726.6	2578.6	2386.3	2230.9	2179.1	2238.3	2693.3	2874.6	2804.3
42.5°	3067.0	3096.6	3067.0	2874.6	2722.9	2523.2	2430.7	2486.2	2989.3	3207.6	3115.1
45°	3363.0	3392.6	3359.3	3233.5	3085.5	2970.8	2737.7	2808.0	3300.1	3625.6	3522.1
47.5°	3584.9	3621.9	3562.8	3536.9	3418.5	3400.0	3004.1	3081.8	3625.6	4047.4	3917.9
50°	3636.7	3677.4	3729.2	3758.8	3718.1	3762.5	3363.0	3429.6	3966.0	4435.9	4310.1
52.5°	3514.7	3555.4	3670.0	3806.9	3995.6	4128.8	3725.5	3781.0	4321.2	4757.7	4691.1
55°	3155.8	3192.8	3425.9	3610.8	4062.2	4280.5	4073.3	4306.4	4576.5	5094.4	4931.6
57.5°	2552.8	2597.1	2904.2	3189.1	3840.2	4195.4	4280.5	4742.9	4998.2	5342.3	5153.6
60°	1812.8	1838.7	2105.1	2608.2	3226.1	3769.9	4239.8	5068.5	5331.2	5675.2	5575.4
62.5°	1043.3	1065.5	1343.0	1816.5	2434.4	3148.4	4058.5	5375.6	5690.0	6041.5	5986.0
65°	691.8	699.2	887.9	1146.9	1583.4	2319.7	3599.7	5649.3	6045.2	6333.8	6270.9
67.5°	455.1	495.8	643.7	821.3	1013.7	1283.8	2933.8	5764.0	6452.2	6740.7	6725.9
70°	325.6	340.4	462.5	632.6	762.1	721.4	1716.6	4953.8	6433.7	6851.7	6729.6
72.5°	192.4	207.2	307.1	473.6	599.3	458.8	802.8	3503.6	5331.2	5468.1	5434.8
75°	140.6	140.6	188.7	340.4	436.6	329.3	377.4	2216.1	3540.6	3843.9	3840.2
77.5°	99.9	103.6	129.5	203.5	336.7	240.5	207.2	1232.0	1934.9	2116.2	2016.3
80°	59.2	62.9	88.8	122.1	244.2	173.9	136.9	562.3	743.6	751.0	714.0
82.5°	44.4	44.4	59.2	85.1	170.2	118.4	85.1	214.6	240.5	218.3	185.0
85°	25.9	22.2	44.4	62.9	99.9	66.6	59.2	99.9	111.0	81.4	74.0
87.5°	7.4	7.4	18.5	22.2	44.4	37.0	25.9	37.0	51.8	29.6	22.2
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°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1135.8	1124.7	1106.2	1098.8	1072.9	1061.8	1054.4	1035.9	1039.6	1028.5	1028.5
5°	1124.7	1124.7	1087.7	1047.0	1006.3	980.4	950.8	913.8	913.8	899.0	902.7
7.5°	1165.4	1135.8	1087.7	1013.7	947.1	887.9	862.0	825.0	802.8	791.7	791.7
10°	1191.3	1161.7	1080.3	991.5	906.4	832.4	776.9	725.1	695.5	695.5	691.8
12.5°	1261.6	1217.2	1109.9	987.8	862.0	751.0	665.9	606.7	566.0	536.4	543.8
15°	1320.8	1272.7	1124.7	958.2	784.3	628.9	525.3	414.4	358.9	329.3	318.2
17.5°	1413.3	1324.5	1158.0	906.4	665.9	492.1	340.4	247.9	225.7	222.0	222.0
20°	1491.0	1387.4	1161.7	806.5	547.5	314.5	218.3	203.5	192.4	188.7	185.0
22.5°	1598.2	1468.8	1146.9	691.8	392.2	210.9	185.0	170.2	162.8	151.7	151.7
25°	1709.2	1576.0	1117.3	584.5	240.5	181.3	162.8	148.0	133.2	125.8	129.5
27.5°	1827.6	1657.4	1032.2	455.1	185.0	159.1	133.2	122.1	114.7	111.0	111.0
30°	1923.8	1709.2	906.4	303.4	166.5	140.6	118.4	107.3	99.9	96.2	96.2
32.5°	1994.1	1753.6	765.8	203.5	151.7	125.8	107.3	96.2	88.8	85.1	85.1
35°	2112.5	1786.9	636.3	173.9	136.9	111.0	92.5	85.1	77.7	77.7	77.7
37.5°	2293.8	1831.3	506.9	159.1	125.8	99.9	88.8	77.7	74.0	70.3	70.3
40°	2452.9	1886.8	362.6	144.3	114.7	92.5	77.7	70.3	66.6	62.9	62.9
42.5°	2682.2	1949.7	236.8	129.5	103.6	85.1	70.3	62.9	59.2	55.5	55.5
45°	2974.5	2053.3	185.0	114.7	92.5	77.7	66.6	59.2	51.8	51.8	48.1
47.5°	3285.3	2179.1	166.5	107.3	85.1	70.3	59.2	51.8	48.1	44.4	44.4
50°	3573.9	2301.2	155.4	99.9	77.7	66.6	55.5	48.1	40.7	37.0	37.0
52.5°	3832.8	2415.9	148.0	92.5	74.0	59.2	48.1	40.7	37.0	33.3	33.3
55°	3969.7	2467.7	144.3	88.8	66.6	55.5	44.4	37.0	33.3	29.6	29.6
57.5°	4184.3	2534.3	140.6	85.1	62.9	48.1	40.7	33.3	29.6	25.9	25.9
60°	4532.1	2752.5	136.9	81.4	59.2	48.1	37.0	29.6	22.2	18.5	18.5
62.5°	4820.6	2933.8	122.1	70.3	51.8	40.7	29.6	22.2	14.8	11.1	11.1
65°	5149.9	3018.9	107.3	62.9	44.4	33.3	22.2	14.8	11.1	3.7	3.7
67.5°	5508.8	3148.4	88.8	55.5	40.7	25.9	18.5	11.1	3.7	0.0	0.0
70°	5320.1	2985.6	74.0	48.1	37.0	22.2	14.8	7.4	0.0	0.0	0.0
72.5°	4169.5	2138.4	59.2	44.4	33.3	22.2	14.8	3.7	0.0	0.0	0.0
75°	2785.8	1209.8	51.8	37.0	25.9	18.5	11.1	3.7	0.0	0.0	0.0
77.5°	1513.2	543.8	44.4	33.3	22.2	14.8	11.1	3.7	0.0	0.0	0.0
80°	492.1	214.6	37.0	29.6	22.2	14.8	11.1	3.7	0.0	0.0	0.0
82.5°	133.2	66.6	37.0	29.6	22.2	14.8	11.1	3.7	0.0	0.0	0.0
85°	55.5	44.4	37.0	29.6	22.2	14.8	11.1	3.7	0.0	0.0	0.0
87.5°	22.2	14.8	14.8	18.5	14.8	11.1	7.4	3.7	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°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1032.2	1039.6	1043.3	1043.3	1061.8	1080.3	1102.5	1121.0	1121.0	1132.1	1143.2
5°	906.4	913.8	924.9	958.2	995.2	1035.9	1076.6	1106.2	1146.9	1165.4	1176.5
7.5°	802.8	810.2	839.8	873.1	924.9	995.2	1065.5	1132.1	1172.8	1191.3	1206.1
10°	695.5	706.6	739.9	799.1	865.7	950.8	1032.2	1146.9	1213.5	1250.5	1265.3
12.5°	540.1	569.7	614.1	677.0	762.1	891.6	1043.3	1161.7	1276.4	1320.8	1350.4
15°	340.4	366.3	436.6	536.4	651.1	802.8	1013.7	1183.9	1343.0	1387.4	1435.5
17.5°	218.3	222.0	244.2	351.5	499.5	691.8	969.3	1217.2	1417.0	1479.9	1553.8
20°	185.0	192.4	196.1	210.9	333.0	569.7	876.8	1257.9	1505.8	1590.8	1661.1
22.5°	155.4	159.1	166.5	177.6	199.8	414.4	751.0	1257.9	1583.4	1709.2	1790.6
25°	125.8	133.2	140.6	151.7	173.9	259.0	621.5	1235.7	1675.9	1831.3	1934.9
27.5°	111.0	111.0	118.4	129.5	148.0	181.3	492.1	1169.1	1746.2	1905.3	2042.2
30°	96.2	99.9	103.6	114.7	133.2	159.1	340.4	1061.8	1820.2	2049.6	2205.0
32.5°	85.1	85.1	92.5	99.9	118.4	144.3	218.3	899.0	1916.4	2160.6	2378.9
35°	77.7	77.7	81.4	88.8	107.3	129.5	170.2	762.1	2031.1	2371.5	2611.9
37.5°	70.3	70.3	74.0	81.4	96.2	114.7	155.4	654.8	2149.5	2582.3	2933.8
40°	62.9	62.9	66.6	74.0	85.1	103.6	140.6	529.0	2297.5	2893.1	3285.3
42.5°	55.5	55.5	59.2	66.6	77.7	92.5	122.1	395.9	2493.6	3229.8	3740.3
45°	48.1	48.1	51.8	59.2	66.6	85.1	111.0	303.4	2708.1	3603.4	4139.9
47.5°	40.7	44.4	48.1	55.5	62.9	77.7	99.9	266.4	2919.0	3999.3	4583.9
50°	37.0	37.0	40.7	48.1	59.2	70.3	92.5	262.7	3133.6	4302.7	5038.9
52.5°	33.3	33.3	37.0	44.4	55.5	66.6	88.8	270.1	3311.2	4583.9	5357.1
55°	29.6	29.6	33.3	37.0	48.1	62.9	81.4	277.5	3437.0	4868.7	5612.4
57.5°	25.9	25.9	29.6	37.0	44.4	55.5	74.0	284.9	3640.4	5149.9	5982.3
60°	18.5	18.5	25.9	33.3	40.7	48.1	70.3	292.3	3966.0	5538.4	6296.8
62.5°	11.1	11.1	14.8	25.9	33.3	44.4	62.9	277.5	4269.4	6037.8	6777.7
65°	3.7	7.4	11.1	14.8	25.9	37.0	51.8	251.6	4524.7	6537.3	7221.7
67.5°	0.0	0.0	3.7	11.1	22.2	29.6	44.4	185.0	4565.4	6762.9	7676.7
70°	0.0	0.0	3.7	11.1	18.5	29.6	40.7	103.6	3888.3	6041.5	7036.7
72.5°	0.0	0.0	0.0	7.4	18.5	25.9	37.0	77.7	2867.2	4554.3	5560.6
75°	0.0	0.0	0.0	3.7	14.8	22.2	33.3	59.2	1742.5	3037.4	3629.3
77.5°	0.0	0.0	0.0	3.7	11.1	22.2	33.3	51.8	614.1	1446.6	1705.5
80°	0.0	0.0	0.0	7.4	14.8	22.2	29.6	44.4	148.0	362.6	488.4
82.5°	0.0	0.0	0.0	3.7	11.1	18.5	25.9	37.0	59.2	107.3	170.2
85°	0.0	0.0	0.0	3.7	7.4	18.5	25.9	33.3	40.7	51.8	74.0
87.5°	0.0	0.0	0.0	0.0	3.7	7.4	11.1	14.8	14.8	14.8	25.9
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°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1139.5	1154.3	1161.7	1176.5	1183.9	1180.2	1176.5	1187.6	1180.2	1169.1
5°	1180.2	1180.2	1191.3	1195.0	1195.0	1183.9	1191.3	1187.6	1180.2	1180.2
7.5°	1224.6	1243.1	1243.1	1220.9	1217.2	1209.8	1209.8	1180.2	1169.1	1180.2
10°	1269.0	1283.8	1287.5	1261.6	1228.3	1213.5	1195.0	1158.0	1139.5	1146.9
12.5°	1361.5	1361.5	1320.8	1291.2	1246.8	1195.0	1150.6	1098.8	1072.9	1080.3
15°	1428.1	1442.9	1387.4	1320.8	1243.1	1146.9	1098.8	1058.1	1043.3	1032.2
17.5°	1557.5	1528.0	1439.2	1343.0	1232.0	1132.1	1098.8	1061.8	1050.7	1050.7
20°	1668.5	1653.7	1520.6	1346.7	1228.3	1161.7	1139.5	1121.0	1117.3	1106.2
22.5°	1820.2	1753.6	1583.4	1387.4	1269.0	1209.8	1202.4	1220.9	1209.8	1202.4
25°	1934.9	1879.4	1631.5	1446.6	1331.9	1313.4	1324.5	1343.0	1313.4	1302.3
27.5°	2090.3	1986.7	1724.0	1524.3	1417.0	1435.5	1472.5	1476.2	1457.7	1468.8
30°	2234.6	2123.6	1794.3	1613.0	1561.2	1579.7	1635.2	1675.9	1650.0	1635.2
32.5°	2441.8	2271.6	1934.9	1761.0	1742.5	1790.6	1853.5	1879.4	1846.1	1838.7
35°	2660.0	2441.8	2079.2	1927.5	1960.8	2027.4	2082.9	2127.3	2075.5	2097.7
37.5°	3000.4	2715.5	2323.4	2190.2	2205.0	2230.9	2334.5	2456.6	2482.5	2438.1
40°	3355.6	3011.5	2549.1	2445.5	2478.8	2549.1	2671.1	2785.8	2845.0	2785.8
42.5°	3766.2	3296.4	2896.8	2774.7	2808.0	2907.9	3070.7	3163.2	3155.8	3067.0
45°	4273.1	3692.2	3222.4	3070.7	3192.8	3281.6	3444.4	3455.5	3385.2	3363.0
47.5°	4661.5	4025.2	3573.9	3477.7	3644.1	3647.8	3684.8	3688.5	3610.8	3584.9
50°	5090.7	4410.0	3966.0	3825.4	4106.6	3977.1	3877.2	3810.6	3692.2	3636.7
52.5°	5512.5	4683.7	4328.6	4184.3	4476.6	4132.5	3951.2	3747.7	3573.9	3514.7
55°	5738.1	5135.1	4857.6	4521.0	4558.0	4176.9	3721.8	3466.6	3170.6	3155.8
57.5°	6004.5	5438.5	5305.3	4750.3	4421.1	3866.1	3244.6	2907.9	2589.7	2552.8
60°	6319.0	5919.4	5778.8	4713.3	3936.4	3248.3	2571.2	2138.4	1838.7	1812.8
62.5°	6670.4	6489.2	6071.1	4350.8	3126.2	2286.4	1698.1	1335.6	1058.1	1043.3
65°	7225.4	6966.4	6226.5	3662.6	2068.1	1465.1	1128.4	865.7	699.2	691.8
67.5°	7573.2	7147.7	5878.7	2611.9	1146.9	969.3	791.7	628.9	484.7	455.1
70°	7081.1	6559.5	4650.4	1494.7	665.9	736.2	610.4	421.8	333.0	325.6
72.5°	5656.7	4868.7	3129.9	702.9	414.4	577.1	444.0	284.9	199.8	192.4
75°	3858.7	3063.3	1964.5	325.6	292.3	421.8	325.6	166.5	140.6	140.6
77.5°	1724.0	1561.2	1006.3	199.8	218.3	321.9	188.7	114.7	103.6	99.9
80°	525.3	551.2	410.7	136.9	162.8	244.2	114.7	77.7	62.9	59.2
82.5°	177.6	207.2	185.0	81.4	111.0	173.9	77.7	51.8	44.4	44.4
85°	85.1	103.6	92.5	51.8	59.2	85.1	62.9	40.7	25.9	25.9
87.5°	33.3	48.1	33.3	22.2	33.3	44.4	25.9	18.5	7.4	7.4
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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