

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: P676359

Luminaire Tested: **CCW-SA-2C-850-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676359
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

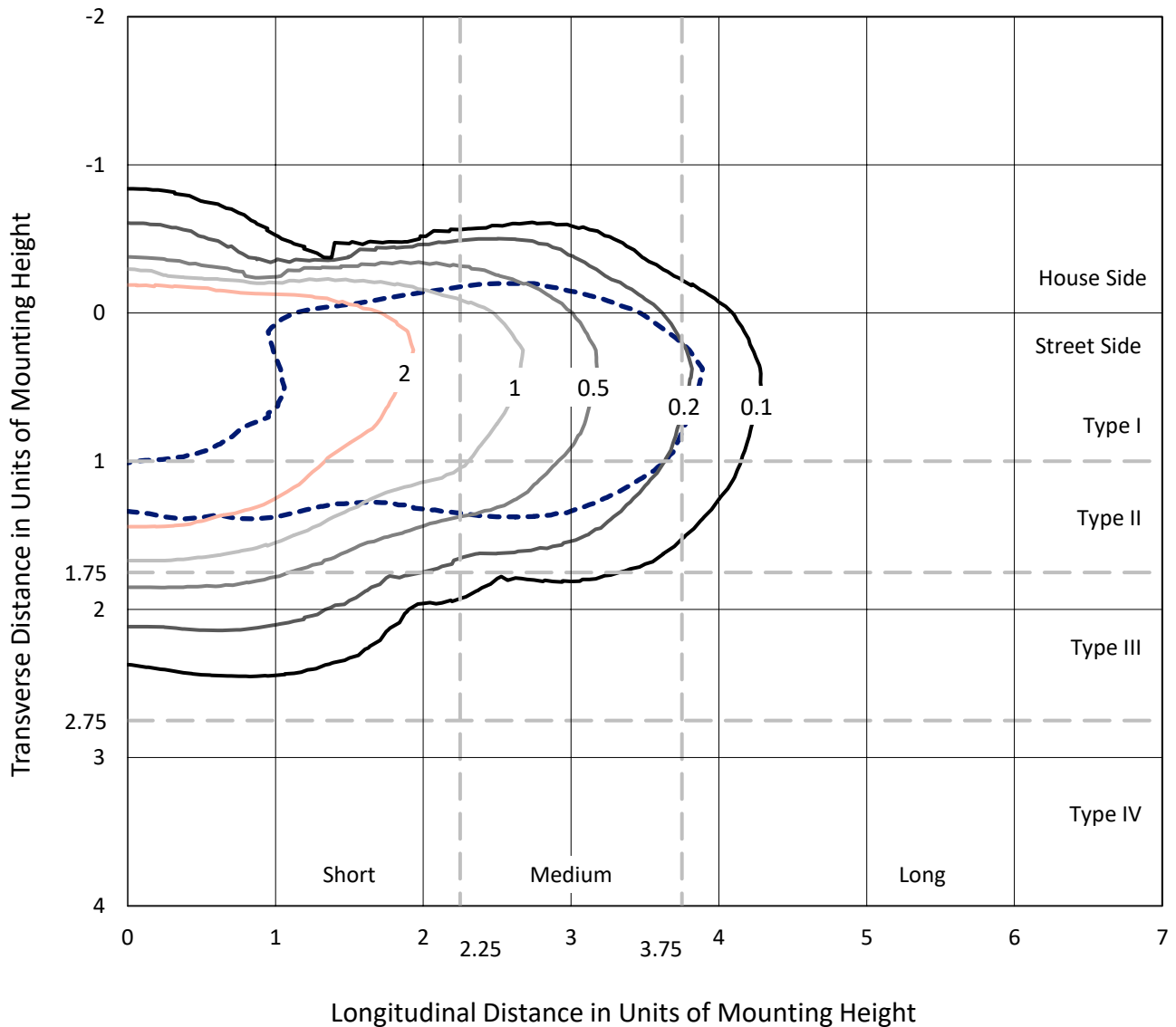
Lumens per Lamp: N/A
Luminaire Lumens: 6091.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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

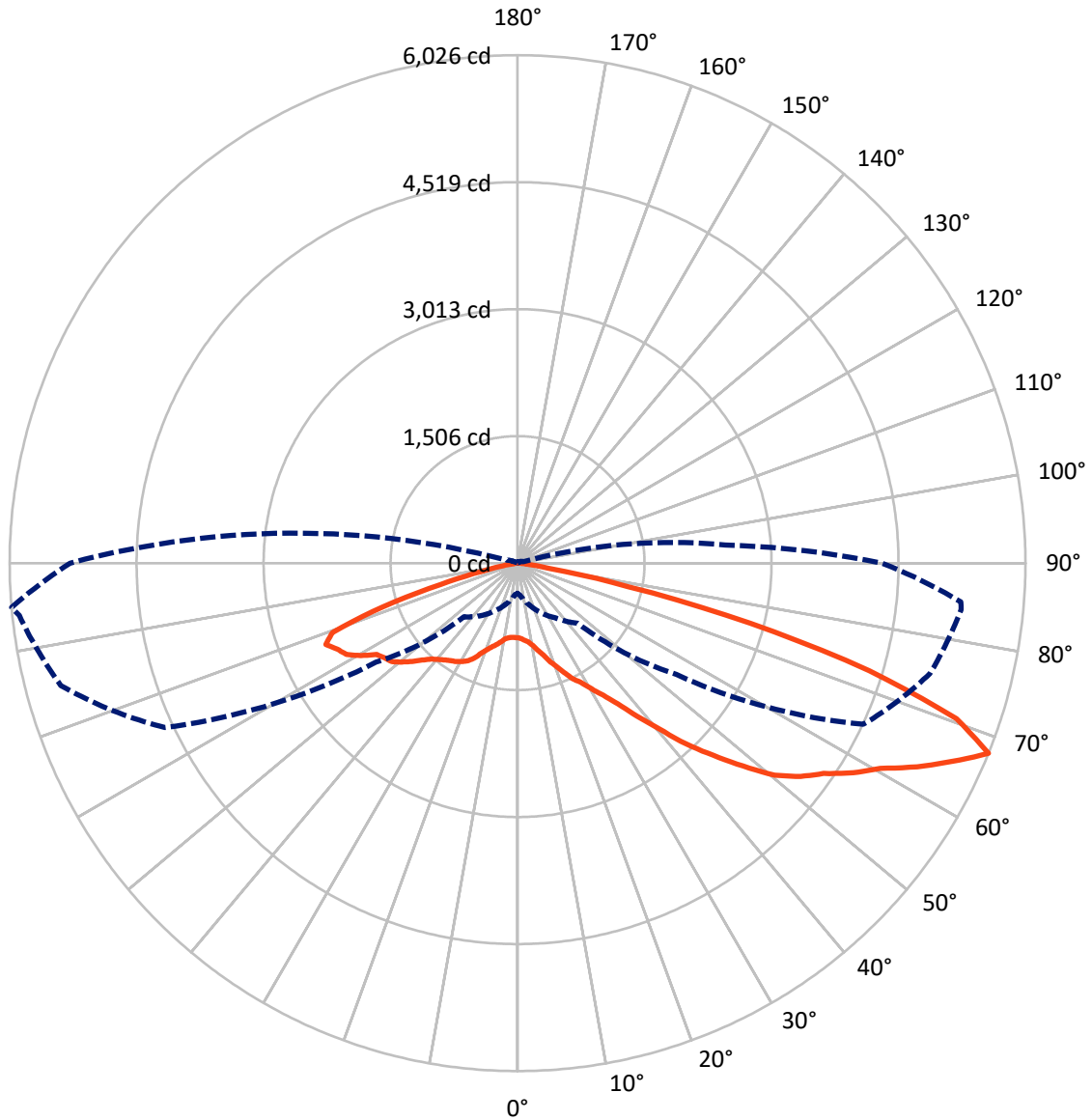
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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	865.3	0.0	865.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5225.8	0.0	5225.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	6091.1	0.0	6091.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.3
10°-20°	217.2	3.6
20°-30°	360.7	5.9
30°-40°	620.5	10.2
40°-50°	1115.1	18.3
50°-60°	1587.5	26.1
60°-70°	1447.3	23.8
70°-80°	616.3	10.1
80°-90°	45.9	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°	6091.1	100.0
0°-180°	6091.1	100.0



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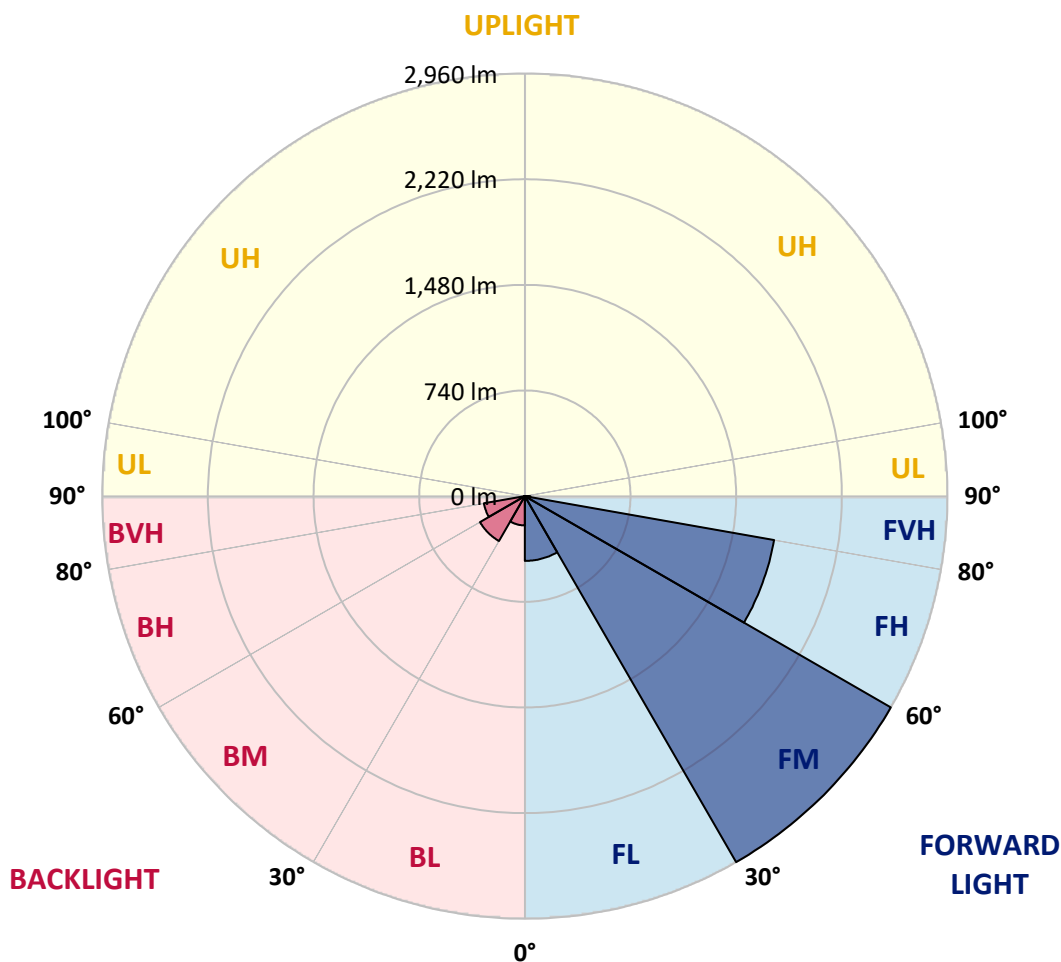
CATALOG NUMBER: CCW-SA-2C-850-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.8	7.4			
FM (30°-60°)	2960.3	48.6			
FH (60°-80°)	1772.8	29.1			G1/1800
FVH (80°-90°)	39.0	0.6			G1/100
BL (0°-30°)	204.8	3.4	B1/500		
BM (30°-60°)	362.8	6.0	B1/1000		
BH (60°-80°)	290.8	4.8	B1/500		G1/500
BVH (80°-90°)	6.9	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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	917.7	926.4	926.4	923.5	914.8	909.0	906.1	900.3	894.4	894.4	897.4
5°	926.4	917.7	929.3	914.8	914.8	914.8	926.4	920.6	917.7	903.2	903.2
7.5°	926.4	917.7	917.7	926.4	917.7	923.5	938.0	932.2	943.8	917.7	923.5
10°	900.3	897.4	903.2	914.8	917.7	929.3	943.8	972.9	975.8	958.3	955.4
12.5°	848.0	845.1	865.4	871.2	906.1	935.1	978.7	1001.9	1028.0	1019.3	1001.9
15°	810.2	816.0	830.6	853.8	885.7	938.0	987.4	1039.6	1086.1	1074.5	1068.7
17.5°	824.7	821.8	824.7	839.3	879.9	932.2	1016.4	1077.4	1144.2	1144.2	1150.0
20°	868.3	877.0	874.1	865.4	885.7	929.3	1016.4	1123.9	1234.2	1225.5	1225.5
22.5°	943.8	946.7	929.3	923.5	920.6	946.7	1033.8	1181.9	1309.7	1327.2	1321.3
25°	1022.2	1025.1	1019.3	1001.9	978.7	984.5	1065.8	1228.4	1414.3	1443.3	1437.5
27.5°	1152.9	1150.0	1135.5	1115.2	1080.3	1054.2	1115.2	1263.3	1495.6	1545.0	1530.4
30°	1283.6	1274.9	1254.5	1228.4	1196.5	1147.1	1176.1	1330.1	1597.2	1643.7	1611.7
32.5°	1443.3	1425.9	1431.7	1391.0	1324.2	1245.8	1240.0	1391.0	1678.5	1745.3	1719.2
35°	1646.6	1626.3	1597.2	1559.5	1495.6	1391.0	1359.1	1489.8	1815.0	1864.4	1864.4
37.5°	1913.8	1934.1	1899.2	1742.4	1672.7	1574.0	1507.2	1591.4	1934.1	2053.2	2024.1
40°	2186.7	2204.2	2140.3	2024.1	1873.1	1751.1	1710.5	1756.9	2114.1	2256.4	2201.3
42.5°	2407.5	2430.7	2407.5	2256.4	2137.4	1980.6	1908.0	1951.5	2346.5	2517.8	2445.2
45°	2639.8	2663.0	2636.9	2538.1	2422.0	2332.0	2149.0	2204.2	2590.4	2846.0	2764.7
47.5°	2814.0	2843.1	2796.6	2776.3	2683.3	2668.8	2358.1	2419.1	2846.0	3177.0	3075.4
50°	2854.7	2886.6	2927.3	2950.5	2918.6	2953.4	2639.8	2692.1	3113.1	3482.0	3383.2
52.5°	2758.8	2790.8	2880.8	2988.3	3136.4	3240.9	2924.4	2967.9	3391.9	3734.6	3682.3
55°	2477.2	2506.2	2689.1	2834.4	3188.6	3360.0	3197.4	3380.3	3592.3	3998.9	3871.1
57.5°	2003.8	2038.6	2279.7	2503.3	3014.4	3293.2	3360.0	3723.0	3923.4	4193.4	4045.3
60°	1423.0	1443.3	1652.4	2047.4	2532.3	2959.2	3328.0	3978.5	4184.7	4454.8	4376.4
62.5°	818.9	836.4	1054.2	1425.9	1910.9	2471.3	3185.7	4219.6	4466.4	4742.3	4698.8
65°	543.1	548.9	697.0	900.3	1242.9	1820.8	2825.6	4434.5	4745.2	4971.7	4922.4
67.5°	357.2	389.1	505.3	644.7	795.7	1007.7	2302.9	4524.5	5064.7	5291.2	5279.6
70°	255.6	267.2	363.0	496.6	598.2	566.3	1347.5	3888.5	5050.1	5378.3	5282.5
72.5°	151.0	162.6	241.0	371.7	470.5	360.1	630.2	2750.1	4184.7	4292.2	4266.0
75°	110.4	110.4	148.1	267.2	342.7	258.5	296.2	1739.5	2779.2	3017.3	3014.4
77.5°	78.4	81.3	101.6	159.7	264.3	188.8	162.6	967.0	1518.8	1661.1	1582.7
80°	46.5	49.4	69.7	95.8	191.7	136.5	107.4	441.4	583.7	589.5	560.5
82.5°	34.8	34.8	46.5	66.8	133.6	92.9	66.8	168.4	188.8	171.3	145.2
85°	20.3	17.4	34.8	49.4	78.4	52.3	46.5	78.4	87.1	63.9	58.1
87.5°	5.8	5.8	14.5	17.4	34.8	29.0	20.3	29.0	40.7	23.2	17.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	891.5	882.8	868.3	862.5	842.2	833.5	827.7	813.1	816.0	807.3	807.3
5°	882.8	882.8	853.8	821.8	789.9	769.6	746.3	717.3	717.3	705.7	708.6
7.5°	914.8	891.5	853.8	795.7	743.4	697.0	676.6	647.6	630.2	621.5	621.5
10°	935.1	911.9	848.0	778.3	711.5	653.4	609.9	569.2	546.0	546.0	543.1
12.5°	990.3	955.4	871.2	775.4	676.6	589.5	522.7	476.3	444.3	421.1	426.9
15°	1036.7	999.0	882.8	752.1	615.7	493.7	412.4	325.3	281.7	258.5	249.7
17.5°	1109.3	1039.6	909.0	711.5	522.7	386.2	267.2	194.6	177.1	174.2	174.2
20°	1170.3	1089.0	911.9	633.1	429.8	246.8	171.3	159.7	151.0	148.1	145.2
22.5°	1254.5	1152.9	900.3	543.1	307.8	165.5	145.2	133.6	127.8	119.1	119.1
25°	1341.7	1237.1	877.0	458.8	188.8	142.3	127.8	116.2	104.5	98.7	101.6
27.5°	1434.6	1301.0	810.2	357.2	145.2	124.9	104.5	95.8	90.0	87.1	87.1
30°	1510.1	1341.7	711.5	238.1	130.7	110.4	92.9	84.2	78.4	75.5	75.5
32.5°	1565.3	1376.5	601.1	159.7	119.1	98.7	84.2	75.5	69.7	66.8	66.8
35°	1658.2	1402.7	499.5	136.5	107.4	87.1	72.6	66.8	61.0	61.0	61.0
37.5°	1800.5	1437.5	397.9	124.9	98.7	78.4	69.7	61.0	58.1	55.2	55.2
40°	1925.4	1481.1	284.6	113.3	90.0	72.6	61.0	55.2	52.3	49.4	49.4
42.5°	2105.4	1530.4	185.9	101.6	81.3	66.8	55.2	49.4	46.5	43.6	43.6
45°	2334.9	1611.7	145.2	90.0	72.6	61.0	52.3	46.5	40.7	40.7	37.8
47.5°	2578.8	1710.5	130.7	84.2	66.8	55.2	46.5	40.7	37.8	34.8	34.8
50°	2805.3	1806.3	122.0	78.4	61.0	52.3	43.6	37.8	31.9	29.0	29.0
52.5°	3008.6	1896.3	116.2	72.6	58.1	46.5	37.8	31.9	29.0	26.1	26.1
55°	3116.0	1937.0	113.3	69.7	52.3	43.6	34.8	29.0	26.1	23.2	23.2
57.5°	3284.5	1989.3	110.4	66.8	49.4	37.8	31.9	26.1	23.2	20.3	20.3
60°	3557.5	2160.6	107.4	63.9	46.5	37.8	29.0	23.2	17.4	14.5	14.5
62.5°	3784.0	2302.9	95.8	55.2	40.7	31.9	23.2	17.4	11.6	8.7	8.7
65°	4042.4	2369.7	84.2	49.4	34.8	26.1	17.4	11.6	8.7	2.9	2.9
67.5°	4324.1	2471.3	69.7	43.6	31.9	20.3	14.5	8.7	2.9	0.0	0.0
70°	4176.0	2343.6	58.1	37.8	29.0	17.4	11.6	5.8	0.0	0.0	0.0
72.5°	3272.9	1678.5	46.5	34.8	26.1	17.4	11.6	2.9	0.0	0.0	0.0
75°	2186.7	949.6	40.7	29.0	20.3	14.5	8.7	2.9	0.0	0.0	0.0
77.5°	1187.8	426.9	34.8	26.1	17.4	11.6	8.7	2.9	0.0	0.0	0.0
80°	386.2	168.4	29.0	23.2	17.4	11.6	8.7	2.9	0.0	0.0	0.0
82.5°	104.5	52.3	29.0	23.2	17.4	11.6	8.7	2.9	0.0	0.0	0.0
85°	43.6	34.8	29.0	23.2	17.4	11.6	8.7	2.9	0.0	0.0	0.0
87.5°	17.4	11.6	11.6	14.5	11.6	8.7	5.8	2.9	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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	810.2	816.0	818.9	818.9	833.5	848.0	865.4	879.9	879.9	888.6	897.4
5°	711.5	717.3	726.0	752.1	781.2	813.1	845.1	868.3	900.3	914.8	923.5
7.5°	630.2	636.0	659.2	685.4	726.0	781.2	836.4	888.6	920.6	935.1	946.7
10°	546.0	554.7	580.8	627.3	679.5	746.3	810.2	900.3	952.5	981.6	993.2
12.5°	424.0	447.2	482.1	531.4	598.2	699.9	818.9	911.9	1001.9	1036.7	1060.0
15°	267.2	287.5	342.7	421.1	511.1	630.2	795.7	929.3	1054.2	1089.0	1126.8
17.5°	171.3	174.2	191.7	275.9	392.0	543.1	760.9	955.4	1112.3	1161.6	1219.7
20°	145.2	151.0	153.9	165.5	261.4	447.2	688.3	987.4	1181.9	1248.7	1303.9
22.5°	122.0	124.9	130.7	139.4	156.8	325.3	589.5	987.4	1242.9	1341.7	1405.6
25°	98.7	104.5	110.4	119.1	136.5	203.3	487.9	970.0	1315.5	1437.5	1518.8
27.5°	87.1	87.1	92.9	101.6	116.2	142.3	386.2	917.7	1370.7	1495.6	1603.0
30°	75.5	78.4	81.3	90.0	104.5	124.9	267.2	833.5	1428.8	1608.8	1730.8
32.5°	66.8	66.8	72.6	78.4	92.9	113.3	171.3	705.7	1504.3	1696.0	1867.3
35°	61.0	61.0	63.9	69.7	84.2	101.6	133.6	598.2	1594.3	1861.5	2050.3
37.5°	55.2	55.2	58.1	63.9	75.5	90.0	122.0	514.0	1687.3	2027.0	2302.9
40°	49.4	49.4	52.3	58.1	66.8	81.3	110.4	415.3	1803.4	2271.0	2578.8
42.5°	43.6	43.6	46.5	52.3	61.0	72.6	95.8	310.7	1957.3	2535.2	2936.0
45°	37.8	37.8	40.7	46.5	52.3	66.8	87.1	238.1	2125.8	2828.5	3249.6
47.5°	31.9	34.8	37.8	43.6	49.4	61.0	78.4	209.1	2291.3	3139.3	3598.1
50°	29.0	29.0	31.9	37.8	46.5	55.2	72.6	206.2	2459.7	3377.4	3955.3
52.5°	26.1	26.1	29.0	34.8	43.6	52.3	69.7	212.0	2599.1	3598.1	4205.1
55°	23.2	23.2	26.1	29.0	37.8	49.4	63.9	217.8	2697.9	3821.7	4405.4
57.5°	20.3	20.3	23.2	29.0	34.8	43.6	58.1	223.6	2857.6	4042.4	4695.8
60°	14.5	14.5	20.3	26.1	31.9	37.8	55.2	229.4	3113.1	4347.4	4942.7
62.5°	8.7	8.7	11.6	20.3	26.1	34.8	49.4	217.8	3351.3	4739.4	5320.2
65°	2.9	5.8	8.7	11.6	20.3	29.0	40.7	197.5	3551.7	5131.5	5668.7
67.5°	0.0	0.0	2.9	8.7	17.4	23.2	34.8	145.2	3583.6	5308.6	6025.9
70°	0.0	0.0	2.9	8.7	14.5	23.2	31.9	81.3	3052.2	4742.3	5523.5
72.5°	0.0	0.0	0.0	5.8	14.5	20.3	29.0	61.0	2250.6	3574.9	4364.8
75°	0.0	0.0	0.0	2.9	11.6	17.4	26.1	46.5	1367.8	2384.2	2848.9
77.5°	0.0	0.0	0.0	2.9	8.7	17.4	26.1	40.7	482.1	1135.5	1338.8
80°	0.0	0.0	0.0	5.8	11.6	17.4	23.2	34.8	116.2	284.6	383.3
82.5°	0.0	0.0	0.0	2.9	8.7	14.5	20.3	29.0	46.5	84.2	133.6
85°	0.0	0.0	0.0	2.9	5.8	14.5	20.3	26.1	31.9	40.7	58.1
87.5°	0.0	0.0	0.0	0.0	2.9	5.8	8.7	11.6	11.6	11.6	20.3
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°	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7	885.7
2.5°	894.4	906.1	911.9	923.5	929.3	926.4	923.5	932.2	926.4	917.7
5°	926.4	926.4	935.1	938.0	938.0	929.3	935.1	932.2	926.4	926.4
7.5°	961.2	975.8	975.8	958.3	955.4	949.6	949.6	926.4	917.7	926.4
10°	996.1	1007.7	1010.6	990.3	964.1	952.5	938.0	909.0	894.4	900.3
12.5°	1068.7	1068.7	1036.7	1013.5	978.7	938.0	903.2	862.5	842.2	848.0
15°	1121.0	1132.6	1089.0	1036.7	975.8	900.3	862.5	830.6	818.9	810.2
17.5°	1222.6	1199.4	1129.7	1054.2	967.0	888.6	862.5	833.5	824.7	824.7
20°	1309.7	1298.1	1193.6	1057.1	964.1	911.9	894.4	879.9	877.0	868.3
22.5°	1428.8	1376.5	1242.9	1089.0	996.1	949.6	943.8	958.3	949.6	943.8
25°	1518.8	1475.3	1280.7	1135.5	1045.5	1030.9	1039.6	1054.2	1030.9	1022.2
27.5°	1640.8	1559.5	1353.3	1196.5	1112.3	1126.8	1155.8	1158.7	1144.2	1152.9
30°	1754.0	1666.9	1408.5	1266.2	1225.5	1240.0	1283.6	1315.5	1295.2	1283.6
32.5°	1916.7	1783.1	1518.8	1382.3	1367.8	1405.6	1454.9	1475.3	1449.1	1443.3
35°	2088.0	1916.7	1632.1	1513.0	1539.1	1591.4	1635.0	1669.8	1629.2	1646.6
37.5°	2355.2	2131.6	1823.7	1719.2	1730.8	1751.1	1832.5	1928.3	1948.6	1913.8
40°	2634.0	2363.9	2000.9	1919.6	1945.7	2000.9	2096.7	2186.7	2233.2	2186.7
42.5°	2956.3	2587.5	2273.9	2178.0	2204.2	2282.6	2410.4	2483.0	2477.2	2407.5
45°	3354.2	2898.2	2529.4	2410.4	2506.2	2575.9	2703.7	2712.4	2657.2	2639.8
47.5°	3659.1	3159.6	2805.3	2729.8	2860.5	2863.4	2892.4	2895.3	2834.4	2814.0
50°	3996.0	3461.6	3113.1	3002.8	3223.5	3121.9	3043.4	2991.2	2898.2	2854.7
52.5°	4327.0	3676.5	3397.7	3284.5	3513.9	3243.8	3101.5	2941.8	2805.3	2758.8
55°	4504.2	4030.8	3813.0	3548.7	3577.8	3278.7	2921.5	2721.1	2488.8	2477.2
57.5°	4713.3	4269.0	4164.4	3728.8	3470.3	3034.7	2546.9	2282.6	2032.8	2003.8
60°	4960.1	4646.5	4536.1	3699.8	3089.9	2549.8	2018.3	1678.5	1443.3	1423.0
62.5°	5236.0	5093.7	4765.5	3415.2	2453.9	1794.7	1333.0	1048.4	830.6	818.9
65°	5671.6	5468.3	4887.5	2875.0	1623.4	1150.0	885.7	679.5	548.9	543.1
67.5°	5944.6	5610.6	4614.5	2050.3	900.3	760.9	621.5	493.7	380.4	357.2
70°	5558.3	5148.9	3650.4	1173.2	522.7	577.9	479.2	331.1	261.4	255.6
72.5°	4440.3	3821.7	2456.8	551.8	325.3	453.0	348.5	223.6	156.8	151.0
75°	3028.9	2404.6	1542.0	255.6	229.4	331.1	255.6	130.7	110.4	110.4
77.5°	1353.3	1225.5	789.9	156.8	171.3	252.7	148.1	90.0	81.3	78.4
80°	412.4	432.7	322.3	107.4	127.8	191.7	90.0	61.0	49.4	46.5
82.5°	139.4	162.6	145.2	63.9	87.1	136.5	61.0	40.7	34.8	34.8
85°	66.8	81.3	72.6	40.7	46.5	66.8	49.4	31.9	20.3	20.3
87.5°	26.1	37.8	26.1	17.4	26.1	34.8	20.3	14.5	5.8	5.8
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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