

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: P676299

Luminaire Tested: **CCW-SA-1D-760-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676299
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-760-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

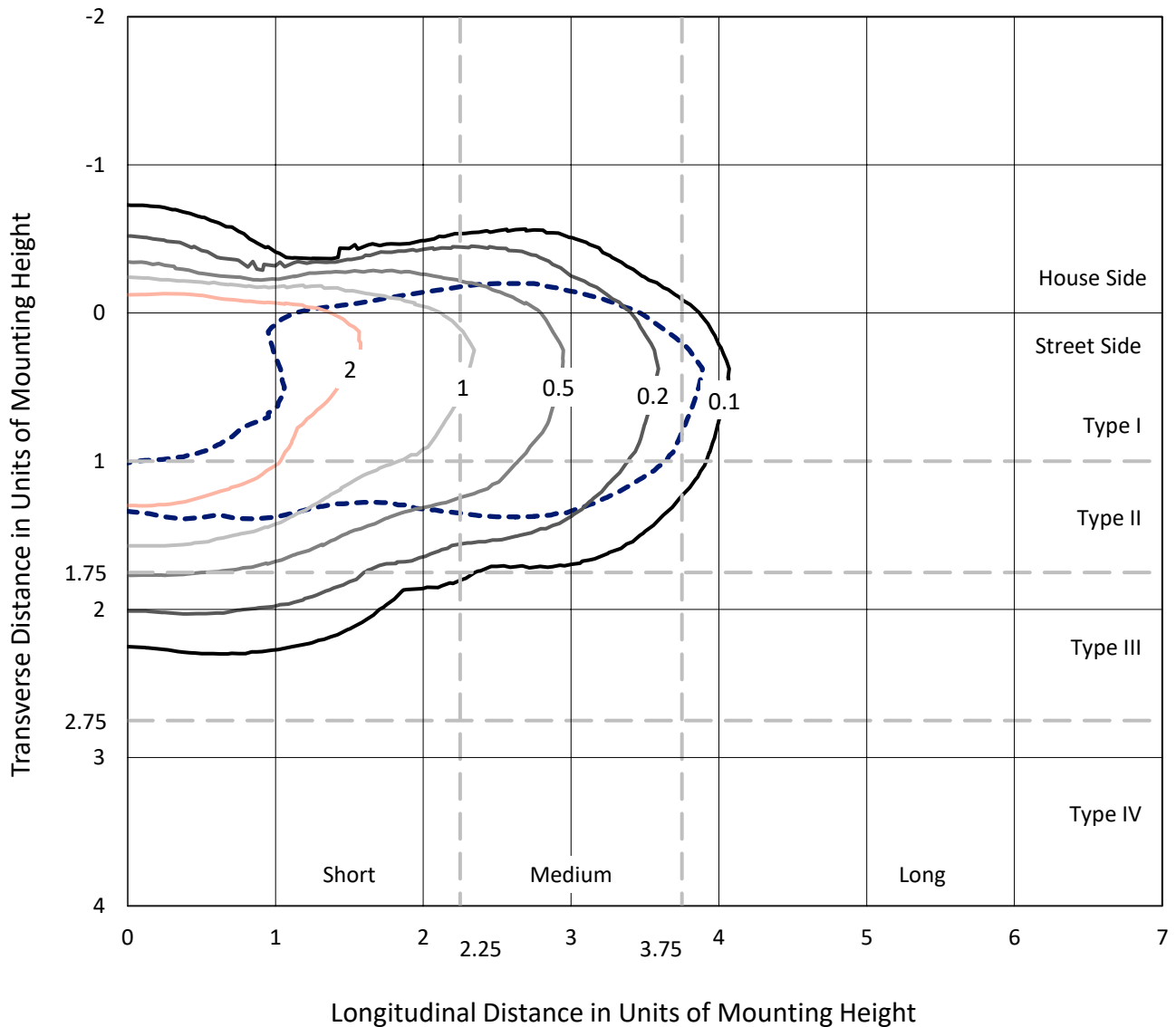
Lumens per Lamp: N/A
Luminaire Lumens: 4404.2 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

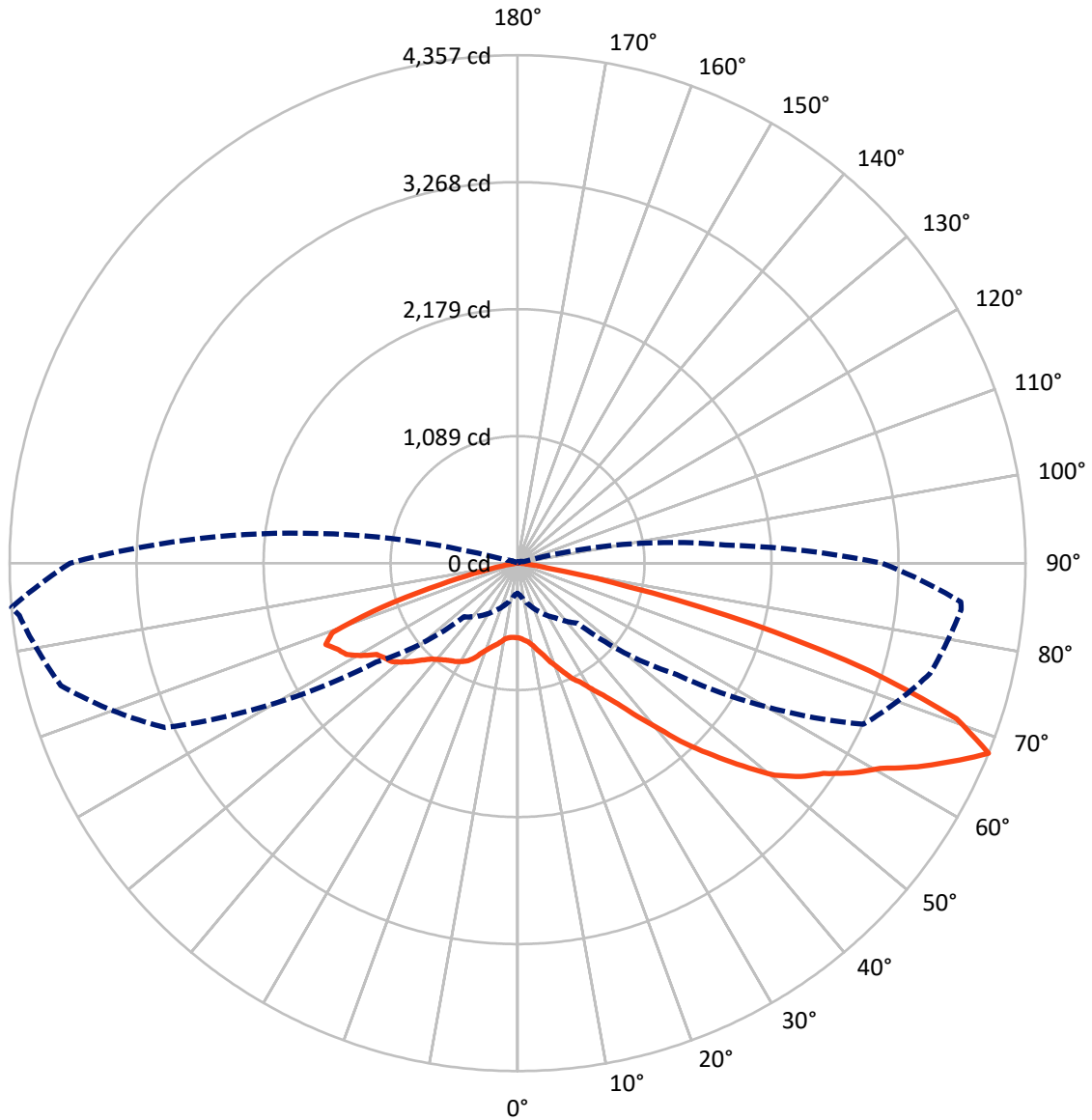
× Max cd
 - - - 1/2 Max cd



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	625.7	0.0	625.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3778.5	0.0	3778.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	4404.2	0.0	4404.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.3
10°-20°	157.0	3.6
20°-30°	260.8	5.9
30°-40°	448.7	10.2
40°-50°	806.3	18.3
50°-60°	1147.8	26.1
60°-70°	1046.4	23.8
70°-80°	445.6	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°	4404.2	100.0
0°-180°	4404.2	100.0

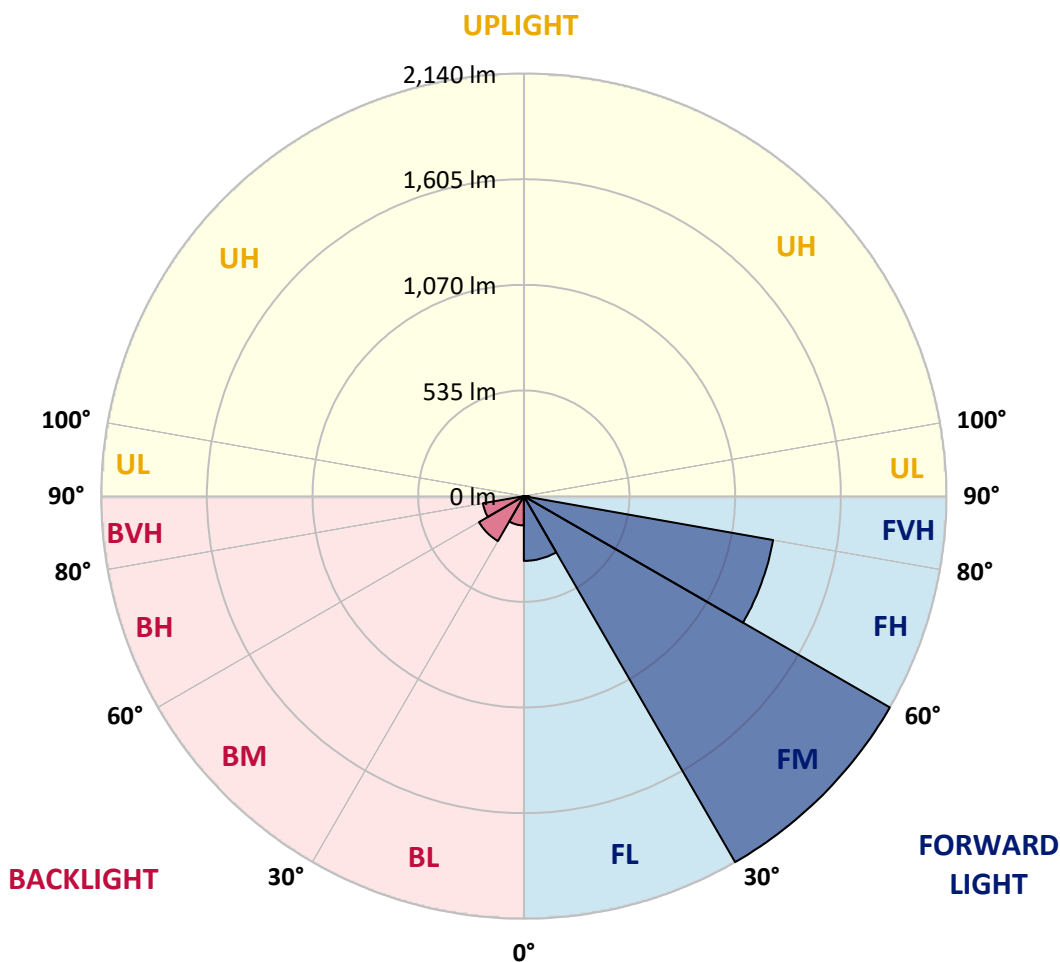


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.1	7.4			
FM (30°-60°)	2140.4	48.6			
FH (60°-80°)	1281.8	29.1			G1/1800
FVH (80°-90°)	28.2	0.6			G1/100
BL (0°-30°)	148.1	3.4	B1/500		
BM (30°-60°)	262.3	6.0	B1/1000		
BH (60°-80°)	210.2	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°	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4
2.5°	663.5	669.8	669.8	667.7	661.4	657.2	655.1	650.9	646.7	646.7	648.8
5°	669.8	663.5	671.9	661.4	661.4	661.4	669.8	665.6	663.5	653.0	653.0
7.5°	669.8	663.5	663.5	669.8	663.5	667.7	678.2	674.0	682.4	663.5	667.7
10°	650.9	648.8	653.0	661.4	663.5	671.9	682.4	703.4	705.5	692.9	690.8
12.5°	613.1	611.0	625.7	629.9	655.1	676.1	707.6	724.4	743.3	737.0	724.4
15°	585.8	590.0	600.5	617.3	640.4	678.2	713.9	751.7	785.3	776.9	772.7
17.5°	596.3	594.2	596.3	606.8	636.2	674.0	734.9	779.0	827.3	827.3	831.5
20°	627.8	634.1	632.0	625.7	640.4	671.9	734.9	812.6	892.4	886.1	886.1
22.5°	682.4	684.5	671.9	667.7	665.6	684.5	747.5	854.6	947.0	959.6	955.4
25°	739.1	741.2	737.0	724.4	707.6	711.8	770.6	888.2	1022.6	1043.6	1039.4
27.5°	833.6	831.5	821.0	806.3	781.1	762.2	806.3	913.4	1081.4	1117.1	1106.6
30°	928.1	921.8	907.1	888.2	865.1	829.4	850.4	961.7	1154.9	1188.5	1165.4
32.5°	1043.6	1031.0	1035.2	1005.8	957.5	900.8	896.6	1005.8	1213.7	1262.0	1243.1
35°	1190.6	1175.9	1154.9	1127.6	1081.4	1005.8	982.7	1077.2	1312.4	1348.1	1348.1
37.5°	1383.8	1398.4	1373.3	1259.9	1209.5	1138.1	1089.8	1150.7	1398.4	1484.5	1463.5
40°	1581.1	1593.7	1547.5	1463.5	1354.4	1266.2	1236.8	1270.4	1528.6	1631.5	1591.6
42.5°	1740.7	1757.5	1740.7	1631.5	1545.4	1432.0	1379.6	1411.0	1696.6	1820.5	1768.0
45°	1908.7	1925.5	1906.6	1835.2	1751.2	1686.1	1553.8	1593.7	1873.0	2057.8	1999.0
47.5°	2034.7	2055.7	2022.1	2007.4	1940.2	1929.7	1705.0	1749.1	2057.8	2297.2	2223.7
50°	2064.1	2087.2	2116.6	2133.4	2110.3	2135.5	1908.7	1946.5	2251.0	2517.6	2446.2
52.5°	1994.8	2017.9	2083.0	2160.7	2267.8	2343.3	2114.5	2146.0	2452.5	2700.3	2662.5
55°	1791.1	1812.1	1944.4	2049.4	2305.6	2429.4	2311.9	2444.1	2597.4	2891.4	2799.0
57.5°	1448.8	1474.0	1648.3	1810.0	2179.6	2381.1	2429.4	2691.9	2836.8	3032.1	2925.0
60°	1028.9	1043.6	1194.8	1480.3	1831.0	2139.7	2406.3	2876.7	3025.8	3221.1	3164.4
62.5°	592.1	604.7	762.2	1031.0	1381.7	1786.9	2303.5	3051.0	3229.5	3428.9	3397.4
65°	392.7	396.9	503.9	650.9	898.7	1316.6	2043.1	3206.4	3431.0	3594.8	3559.1
67.5°	258.3	281.4	365.4	466.1	575.3	728.6	1665.1	3271.4	3662.0	3825.8	3817.4
70°	184.8	193.2	262.5	359.1	432.6	409.5	974.3	2811.6	3651.5	3888.8	3819.5
72.5°	109.2	117.6	174.3	268.8	340.2	260.4	455.7	1988.5	3025.8	3103.5	3084.6
75°	79.8	79.8	107.1	193.2	247.8	186.9	214.2	1257.8	2009.5	2181.7	2179.6
77.5°	56.7	58.8	73.5	115.5	191.1	136.5	117.6	699.2	1098.2	1201.1	1144.4
80°	33.6	35.7	50.4	69.3	138.6	98.7	77.7	319.2	422.1	426.3	405.3
82.5°	25.2	25.2	33.6	48.3	96.6	67.2	48.3	121.8	136.5	123.9	105.0
85°	14.7	12.6	25.2	35.7	56.7	37.8	33.6	56.7	63.0	46.2	42.0
87.5°	4.2	4.2	10.5	12.6	25.2	21.0	14.7	21.0	29.4	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°	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4
2.5°	644.6	638.3	627.8	623.6	608.9	602.6	598.4	587.9	590.0	583.7	583.7
5°	638.3	638.3	617.3	594.2	571.1	556.4	539.6	518.6	518.6	510.2	512.3
7.5°	661.4	644.6	617.3	575.3	537.5	503.9	489.2	468.2	455.7	449.4	449.4
10°	676.1	659.3	613.1	562.7	514.4	472.4	441.0	411.6	394.8	394.8	392.7
12.5°	716.0	690.8	629.9	560.6	489.2	426.3	378.0	344.4	321.3	304.5	308.7
15°	749.6	722.3	638.3	543.8	445.2	357.0	298.2	235.2	203.7	186.9	180.6
17.5°	802.1	751.7	657.2	514.4	378.0	279.3	193.2	140.7	128.1	126.0	126.0
20°	846.2	787.4	659.3	457.8	310.8	178.5	123.9	115.5	109.2	107.1	105.0
22.5°	907.1	833.6	650.9	392.7	222.6	119.7	105.0	96.6	92.4	86.1	86.1
25°	970.1	894.5	634.1	331.8	136.5	102.9	92.4	84.0	75.6	71.4	73.5
27.5°	1037.3	940.7	585.8	258.3	105.0	90.3	75.6	69.3	65.1	63.0	63.0
30°	1091.9	970.1	514.4	172.2	94.5	79.8	67.2	60.9	56.7	54.6	54.6
32.5°	1131.8	995.3	434.7	115.5	86.1	71.4	60.9	54.6	50.4	48.3	48.3
35°	1199.0	1014.2	361.2	98.7	77.7	63.0	52.5	48.3	44.1	44.1	44.1
37.5°	1301.9	1039.4	287.7	90.3	71.4	56.7	50.4	44.1	42.0	39.9	39.9
40°	1392.2	1070.9	205.8	81.9	65.1	52.5	44.1	39.9	37.8	35.7	35.7
42.5°	1522.3	1106.6	134.4	73.5	58.8	48.3	39.9	35.7	33.6	31.5	31.5
45°	1688.2	1165.4	105.0	65.1	52.5	44.1	37.8	33.6	29.4	29.4	27.3
47.5°	1864.6	1236.8	94.5	60.9	48.3	39.9	33.6	29.4	27.3	25.2	25.2
50°	2028.4	1306.1	88.2	56.7	44.1	37.8	31.5	27.3	23.1	21.0	21.0
52.5°	2175.4	1371.2	84.0	52.5	42.0	33.6	27.3	23.1	21.0	18.9	18.9
55°	2253.1	1400.5	81.9	50.4	37.8	31.5	25.2	21.0	18.9	16.8	16.8
57.5°	2374.8	1438.3	79.8	48.3	35.7	27.3	23.1	18.9	16.8	14.7	14.7
60°	2572.2	1562.2	77.7	46.2	33.6	27.3	21.0	16.8	12.6	10.5	10.5
62.5°	2736.0	1665.1	69.3	39.9	29.4	23.1	16.8	12.6	8.4	6.3	6.3
65°	2922.9	1713.4	60.9	35.7	25.2	18.9	12.6	8.4	6.3	2.1	2.1
67.5°	3126.6	1786.9	50.4	31.5	23.1	14.7	10.5	6.3	2.1	0.0	0.0
70°	3019.5	1694.5	42.0	27.3	21.0	12.6	8.4	4.2	0.0	0.0	0.0
72.5°	2366.4	1213.7	33.6	25.2	18.9	12.6	8.4	2.1	0.0	0.0	0.0
75°	1581.1	686.6	29.4	21.0	14.7	10.5	6.3	2.1	0.0	0.0	0.0
77.5°	858.8	308.7	25.2	18.9	12.6	8.4	6.3	2.1	0.0	0.0	0.0
80°	279.3	121.8	21.0	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
82.5°	75.6	37.8	21.0	16.8	12.6	8.4	6.3	2.1	0.0	0.0	0.0
85°	31.5	25.2	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°	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4
2.5°	585.8	590.0	592.1	592.1	602.6	613.1	625.7	636.2	636.2	642.5	648.8
5°	514.4	518.6	524.9	543.8	564.8	587.9	611.0	627.8	650.9	661.4	667.7
7.5°	455.7	459.9	476.6	495.5	524.9	564.8	604.7	642.5	665.6	676.1	684.5
10°	394.8	401.1	420.0	453.6	491.3	539.6	585.8	650.9	688.7	709.7	718.1
12.5°	306.6	323.4	348.6	384.3	432.6	506.0	592.1	659.3	724.4	749.6	766.4
15°	193.2	207.9	247.8	304.5	369.6	455.7	575.3	671.9	762.2	787.4	814.7
17.5°	123.9	126.0	138.6	199.5	283.5	392.7	550.1	690.8	804.2	839.9	881.9
20°	105.0	109.2	111.3	119.7	189.0	323.4	497.6	713.9	854.6	902.9	942.8
22.5°	88.2	90.3	94.5	100.8	113.4	235.2	426.3	713.9	898.7	970.1	1016.3
25°	71.4	75.6	79.8	86.1	98.7	147.0	352.8	701.3	951.2	1039.4	1098.2
27.5°	63.0	63.0	67.2	73.5	84.0	102.9	279.3	663.5	991.1	1081.4	1159.1
30°	54.6	56.7	58.8	65.1	75.6	90.3	193.2	602.6	1033.1	1163.3	1251.5
32.5°	48.3	48.3	52.5	56.7	67.2	81.9	123.9	510.2	1087.7	1226.3	1350.2
35°	44.1	44.1	46.2	50.4	60.9	73.5	96.6	432.6	1152.8	1346.0	1482.4
37.5°	39.9	39.9	42.0	46.2	54.6	65.1	88.2	371.7	1220.0	1465.6	1665.1
40°	35.7	35.7	37.8	42.0	48.3	58.8	79.8	300.3	1304.0	1642.0	1864.6
42.5°	31.5	31.5	33.6	37.8	44.1	52.5	69.3	224.7	1415.2	1833.1	2122.9
45°	27.3	27.3	29.4	33.6	37.8	48.3	63.0	172.2	1537.0	2045.2	2349.6
47.5°	23.1	25.2	27.3	31.5	35.7	44.1	56.7	151.2	1656.7	2269.9	2601.6
50°	21.0	21.0	23.1	27.3	33.6	39.9	52.5	149.1	1778.5	2442.0	2859.9
52.5°	18.9	18.9	21.0	25.2	31.5	37.8	50.4	153.3	1879.3	2601.6	3040.5
55°	16.8	16.8	18.9	21.0	27.3	35.7	46.2	157.5	1950.7	2763.3	3185.4
57.5°	14.7	14.7	16.8	21.0	25.2	31.5	42.0	161.7	2066.2	2922.9	3395.3
60°	10.5	10.5	14.7	18.9	23.1	27.3	39.9	165.9	2251.0	3143.4	3573.8
62.5°	6.3	6.3	8.4	14.7	18.9	25.2	35.7	157.5	2423.1	3426.8	3846.8
65°	2.1	4.2	6.3	8.4	14.7	21.0	29.4	142.8	2568.0	3710.3	4098.8
67.5°	0.0	0.0	2.1	6.3	12.6	16.8	25.2	105.0	2591.1	3838.4	4357.0
70°	0.0	0.0	2.1	6.3	10.5	16.8	23.1	58.8	2206.9	3428.9	3993.8
72.5°	0.0	0.0	0.0	4.2	10.5	14.7	21.0	44.1	1627.3	2584.8	3156.0
75°	0.0	0.0	0.0	2.1	8.4	12.6	18.9	33.6	989.0	1723.9	2059.9
77.5°	0.0	0.0	0.0	2.1	6.3	12.6	18.9	29.4	348.6	821.0	968.0
80°	0.0	0.0	0.0	4.2	8.4	12.6	16.8	25.2	84.0	205.8	277.2
82.5°	0.0	0.0	0.0	2.1	6.3	10.5	14.7	21.0	33.6	60.9	96.6
85°	0.0	0.0	0.0	2.1	4.2	10.5	14.7	18.9	23.1	29.4	42.0
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°	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4	640.4
2.5°	646.7	655.1	659.3	667.7	671.9	669.8	667.7	674.0	669.8	663.5
5°	669.8	669.8	676.1	678.2	678.2	671.9	676.1	674.0	669.8	669.8
7.5°	695.0	705.5	705.5	692.9	690.8	686.6	686.6	669.8	663.5	669.8
10°	720.2	728.6	730.7	716.0	697.1	688.7	678.2	657.2	646.7	650.9
12.5°	772.7	772.7	749.6	732.8	707.6	678.2	653.0	623.6	608.9	613.1
15°	810.5	818.9	787.4	749.6	705.5	650.9	623.6	600.5	592.1	585.8
17.5°	884.0	867.2	816.8	762.2	699.2	642.5	623.6	602.6	596.3	596.3
20°	947.0	938.6	863.0	764.3	697.1	659.3	646.7	636.2	634.1	627.8
22.5°	1033.1	995.3	898.7	787.4	720.2	686.6	682.4	692.9	686.6	682.4
25°	1098.2	1066.7	926.0	821.0	755.9	745.4	751.7	762.2	745.4	739.1
27.5°	1186.4	1127.6	978.5	865.1	804.2	814.7	835.7	837.8	827.3	833.6
30°	1268.3	1205.3	1018.4	915.5	886.1	896.6	928.1	951.2	936.5	928.1
32.5°	1385.9	1289.3	1098.2	999.5	989.0	1016.3	1052.0	1066.7	1047.8	1043.6
35°	1509.7	1385.9	1180.1	1094.0	1112.9	1150.7	1182.2	1207.4	1178.0	1190.6
37.5°	1702.9	1541.2	1318.7	1243.1	1251.5	1266.2	1325.0	1394.2	1408.9	1383.8
40°	1904.5	1709.2	1446.7	1388.0	1406.8	1446.7	1516.0	1581.1	1614.7	1581.1
42.5°	2137.6	1870.9	1644.1	1574.8	1593.7	1650.4	1742.8	1795.3	1791.1	1740.7
45°	2425.2	2095.6	1828.9	1742.8	1812.1	1862.5	1954.9	1961.2	1921.3	1908.7
47.5°	2645.7	2284.6	2028.4	1973.8	2068.3	2070.4	2091.4	2093.5	2049.4	2034.7
50°	2889.3	2502.9	2251.0	2171.2	2330.7	2257.3	2200.6	2162.8	2095.6	2064.1
52.5°	3128.7	2658.3	2456.7	2374.8	2540.7	2345.4	2242.6	2127.1	2028.4	1994.8
55°	3256.7	2914.5	2757.0	2565.9	2586.9	2370.6	2112.4	1967.5	1799.5	1791.1
57.5°	3407.9	3086.7	3011.1	2696.1	2509.2	2194.3	1841.5	1650.4	1469.8	1448.8
60°	3586.4	3359.6	3279.8	2675.1	2234.2	1843.6	1459.3	1213.7	1043.6	1028.9
62.5°	3785.9	3683.0	3445.7	2469.3	1774.3	1297.7	963.8	758.0	600.5	592.1
65°	4100.9	3953.9	3533.9	2078.8	1173.8	831.5	640.4	491.3	396.9	392.7
67.5°	4298.2	4056.8	3336.5	1482.4	650.9	550.1	449.4	357.0	275.1	258.3
70°	4019.0	3722.9	2639.4	848.3	378.0	417.9	346.5	239.4	189.0	184.8
72.5°	3210.6	2763.3	1776.4	399.0	235.2	327.6	252.0	161.7	113.4	109.2
75°	2190.1	1738.6	1115.0	184.8	165.9	239.4	184.8	94.5	79.8	79.8
77.5°	978.5	886.1	571.1	113.4	123.9	182.7	107.1	65.1	58.8	56.7
80°	298.2	312.9	233.1	77.7	92.4	138.6	65.1	44.1	35.7	33.6
82.5°	100.8	117.6	105.0	46.2	63.0	98.7	44.1	29.4	25.2	25.2
85°	48.3	58.8	52.5	29.4	33.6	48.3	35.7	23.1	14.7	14.7
87.5°	18.9	27.3	18.9	12.6	18.9	25.2	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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