

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: P675807

Luminaire Tested: **CCW-SA-2D-722-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675807
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-722-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

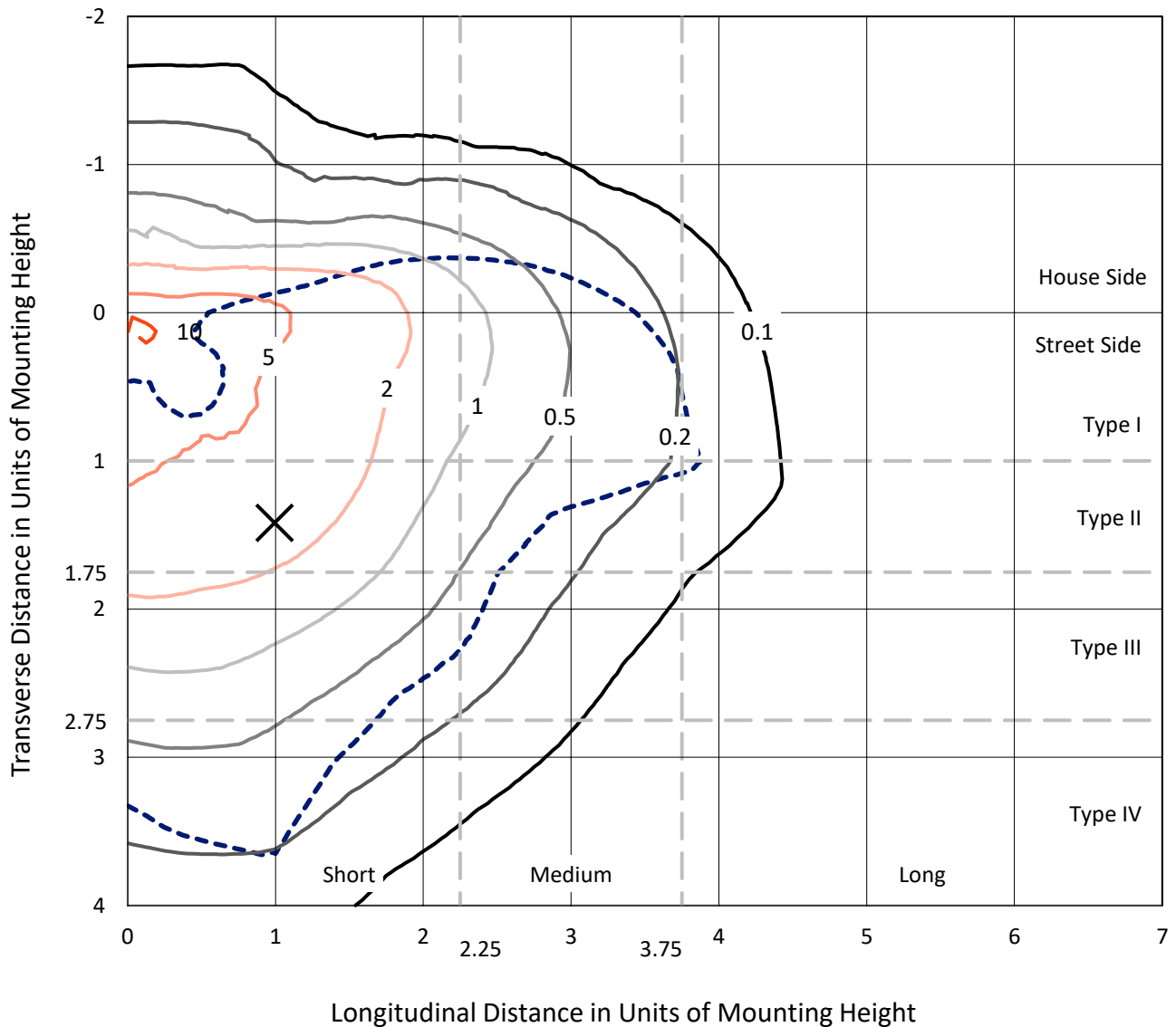
Lumens per Lamp: N/A
Luminaire Lumens: 6816.3 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

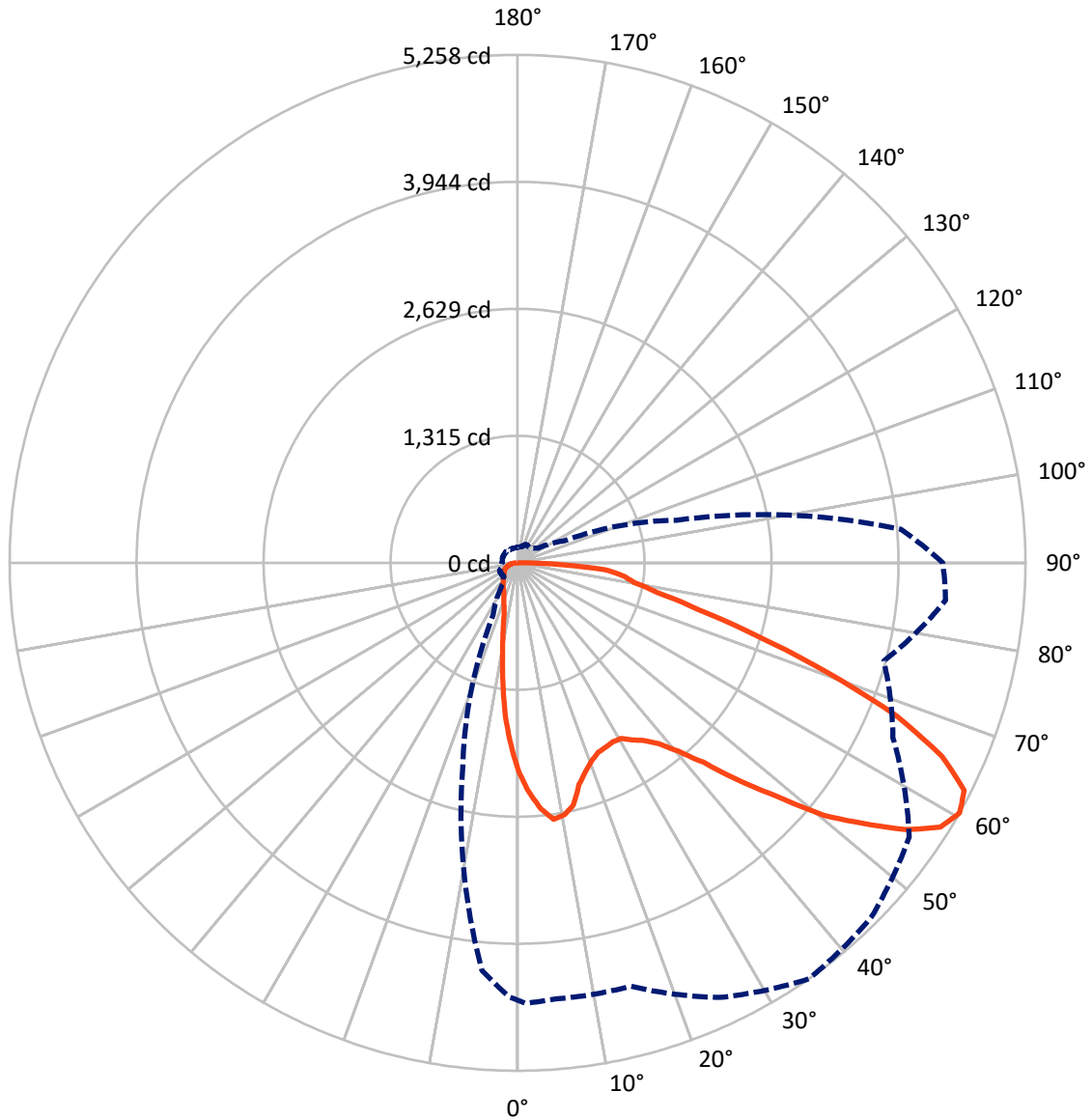
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1297.2	0.0	1297.2
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	5519.1	0.0	5519.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	6816.3	0.0	6816.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	2.5
10°-20°	357.1	5.2
20°-30°	522.5	7.7
30°-40°	736.1	10.8
40°-50°	1011.7	14.8
50°-60°	1378.8	20.2
60°-70°	1509.0	22.1
70°-80°	871.2	12.8
80°-90°	260.9	3.8
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°	6816.3	100.0
0°-180°	6816.3	100.0

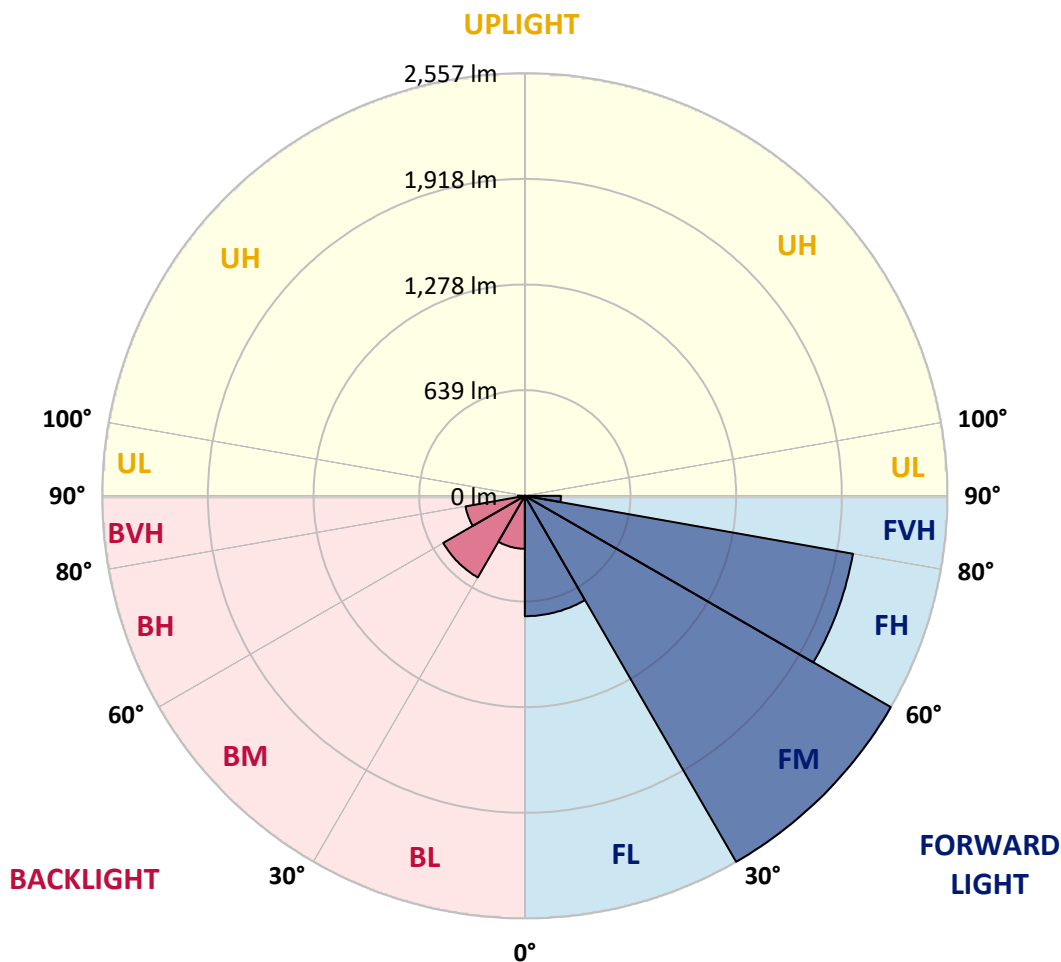


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.2	10.7			
FM (30°-60°)	2556.7	37.5			
FH (60°-80°)	2015.8	29.6			G2/5000
FVH (80°-90°)	218.4	3.2			G2/225
BL (0°-30°)	320.5	4.7	B1/500		
BM (30°-60°)	569.9	8.4	B1/1000		
BH (60°-80°)	364.4	5.3	B1/500		G1/500
BVH (80°-90°)	42.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1
2.5°	2331.3	2322.2	2331.3	2364.6	2373.6	2388.8	2388.8	2367.6	2328.3	2310.1	2279.9
5°	2382.7	2367.6	2443.2	2512.7	2567.2	2561.1	2509.7	2467.4	2388.8	2270.8	2159.0
7.5°	2279.9	2295.0	2349.4	2530.9	2657.9	2682.1	2600.4	2515.8	2346.4	2183.1	2032.0
10°	2086.4	2107.5	2225.5	2412.9	2612.5	2651.8	2600.4	2497.6	2295.0	2092.4	1917.1
12.5°	1992.6	2041.0	2110.6	2337.4	2479.5	2573.2	2549.0	2482.5	2255.7	2016.8	1847.5
15°	1992.6	2004.7	2107.5	2298.0	2379.7	2382.7	2391.8	2403.9	2267.8	2050.1	1823.3
17.5°	2056.1	2089.4	2177.1	2295.0	2310.1	2273.9	2273.9	2325.3	2292.0	2143.8	1911.0
20°	2210.4	2198.3	2313.2	2361.5	2279.9	2189.2	2180.1	2267.8	2319.2	2243.6	2071.3
22.5°	2364.6	2419.0	2512.7	2403.9	2252.7	2131.7	2119.6	2228.5	2400.8	2416.0	2255.7
25°	2597.4	2651.8	2700.2	2567.2	2249.7	2116.6	2125.7	2210.4	2500.6	2660.9	2564.1
27.5°	2848.4	2881.6	2951.2	2745.6	2322.2	2098.5	2107.5	2234.5	2594.4	2821.1	2806.0
30°	2990.5	3026.8	3011.6	2778.8	2370.6	2110.6	2086.4	2267.8	2543.0	2821.1	2963.3
32.5°	3129.6	3108.4	3099.3	2833.2	2431.1	2186.2	2125.7	2337.4	2573.2	2866.5	3165.9
35°	3298.9	3268.7	3244.5	2939.1	2530.9	2258.7	2231.5	2428.1	2639.7	2960.2	3329.1
37.5°	3486.4	3486.4	3368.4	3017.7	2648.8	2376.7	2346.4	2558.1	2745.6	3017.7	3552.9
40°	3707.1	3716.2	3507.5	3123.5	2781.8	2564.1	2555.1	2727.4	2848.4	3102.4	3767.6
42.5°	3870.4	3876.4	3628.5	3162.8	2936.1	2824.2	2863.5	2999.6	2966.3	3178.0	3782.7
45°	3982.3	3952.0	3713.2	3274.7	3105.4	3214.2	3226.3	3265.6	3120.5	3223.3	3843.2
47.5°	4036.7	4030.6	3749.4	3404.7	3462.2	3610.3	3679.9	3625.5	3262.6	3174.9	3843.2
50°	4091.1	4039.7	3782.7	3583.1	3809.9	4109.3	4094.1	3994.4	3459.2	3235.4	3785.7
52.5°	4127.4	4082.0	3849.2	3743.4	4142.5	4481.2	4541.7	4357.2	3689.0	3347.3	3812.9
55°	4257.4	4221.1	4048.8	3961.1	4526.5	4874.3	4883.3	4626.3	3930.9	3531.7	3991.3
57.5°	4414.7	4435.8	4323.9	4269.5	4819.8	5161.5	5128.3	4825.9	4136.5	3755.5	4197.0
60°	4526.5	4559.8	4532.6	4538.6	4965.0	5258.3	5182.7	4949.9	4287.7	3924.8	4447.9
62.5°	4466.1	4532.6	4644.5	4620.3	4971.0	5188.7	5082.9	4786.6	4305.8	4145.5	4638.4
65°	4299.8	4305.8	4523.5	4656.6	4698.9	4828.9	4689.8	4444.9	4118.3	4281.6	4611.2
67.5°	3873.4	3921.8	4118.3	4378.4	4200.0	4230.2	4218.1	3864.3	3834.1	4187.9	4402.6
70°	3419.9	3453.1	3667.8	3973.2	3546.8	3404.7	3431.9	3168.9	3292.9	3897.6	3982.3
72.5°	2827.2	2848.4	3093.3	3362.4	2845.3	2591.3	2654.8	2440.2	2615.5	3410.8	3359.4
75°	2134.8	2174.1	2364.6	2682.1	2095.5	1932.2	1995.7	1908.0	2071.3	2809.1	2606.5
77.5°	1517.9	1487.7	1723.5	2098.5	1575.4	1478.6	1484.7	1499.8	1675.2	2367.6	1871.7
80°	1034.1	1043.2	1254.9	1539.1	1236.7	1221.6	1206.5	1327.4	1406.0	1874.7	1360.7
82.5°	613.8	613.8	846.6	1094.6	976.7	1100.6	1031.1	1140.0	1100.6	1378.8	892.0
85°	287.3	287.3	435.4	789.2	755.9	907.1	771.1	861.8	813.4	961.5	402.2
87.5°	48.4	42.3	87.7	387.0	311.4	353.8	139.1	459.6	511.0	671.3	99.8
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°	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1
2.5°	2246.6	2225.5	2183.1	2128.7	2083.4	2025.9	2007.8	1968.5	1914.0	1908.0	1883.8
5°	2116.6	2044.0	1953.3	1841.5	1765.9	1687.2	1620.7	1581.4	1536.1	1530.0	1517.9
7.5°	1974.5	1883.8	1732.6	1599.6	1469.5	1345.6	1285.1	1209.5	1158.1	1118.8	1100.6
10°	1841.5	1756.8	1569.3	1387.9	1273.0	1191.4	1118.8	1040.2	976.7	928.3	910.1
12.5°	1753.8	1654.0	1451.4	1279.0	1194.4	1100.6	1019.0	934.3	852.7	789.2	755.9
15°	1714.5	1620.7	1415.1	1224.6	1100.6	970.6	876.9	792.2	692.4	647.1	632.0
17.5°	1808.2	1669.1	1403.0	1161.1	985.7	837.6	722.7	632.0	559.4	514.0	495.9
20°	1929.1	1756.8	1424.2	1085.5	876.9	710.6	583.6	486.8	438.4	405.2	402.2
22.5°	2083.4	1886.8	1457.4	1031.1	755.9	571.5	456.6	399.1	365.9	362.8	356.8
25°	2358.5	2122.7	1511.9	958.5	659.2	471.7	390.1	356.8	341.7	332.6	338.7
27.5°	2594.4	2276.9	1551.2	913.2	619.9	444.5	378.0	341.7	326.6	323.5	326.6
30°	2733.5	2419.0	1539.1	828.5	541.2	423.3	402.2	390.1	359.8	335.6	335.6
32.5°	2860.5	2509.7	1536.1	752.9	462.6	353.8	335.6	326.6	344.7	356.8	347.7
35°	3035.8	2651.8	1527.0	710.6	429.4	326.6	296.3	272.1	260.0	254.0	263.1
37.5°	3223.3	2748.6	1502.8	704.5	411.2	311.4	287.3	263.1	251.0	244.9	241.9
40°	3428.9	2851.4	1475.6	674.3	402.2	302.4	278.2	257.0	241.9	232.8	229.8
42.5°	3562.0	2933.0	1448.4	659.2	384.0	296.3	269.1	251.0	235.9	223.8	223.8
45°	3637.6	3029.8	1421.2	644.1	362.8	299.4	269.1	244.9	226.8	220.7	214.7
47.5°	3670.8	3102.4	1412.1	619.9	344.7	287.3	263.1	238.9	220.7	208.6	205.6
50°	3758.5	3256.6	1445.3	601.7	323.5	275.2	278.2	235.9	217.7	202.6	199.6
52.5°	3809.9	3380.5	1517.9	574.5	308.4	260.0	272.1	229.8	208.6	193.5	193.5
55°	3997.4	3586.2	1596.5	553.3	290.3	238.9	251.0	217.7	193.5	184.4	184.4
57.5°	4236.3	3803.9	1663.1	544.3	278.2	223.8	223.8	211.7	184.4	172.4	169.3
60°	4402.6	3982.3	1702.4	538.2	266.1	208.6	199.6	211.7	175.4	163.3	160.3
62.5°	4420.7	3879.5	1663.1	535.2	263.1	193.5	181.4	202.6	166.3	154.2	148.2
65°	4305.8	3670.8	1554.2	523.1	260.0	178.4	169.3	175.4	154.2	145.1	139.1
67.5°	4076.0	3332.2	1397.0	517.1	257.0	166.3	154.2	151.2	142.1	133.0	127.0
70°	3540.8	2890.7	1212.5	489.8	251.0	157.2	139.1	136.1	127.0	120.9	117.9
72.5°	2972.3	2364.6	1000.9	453.6	238.9	142.1	127.0	120.9	117.9	108.9	105.8
75°	2276.9	1820.3	801.3	402.2	208.6	127.0	111.9	105.8	102.8	96.8	93.7
77.5°	1599.6	1354.6	592.7	326.6	175.4	114.9	99.8	93.7	90.7	81.6	81.6
80°	1085.5	949.5	402.2	226.8	136.1	93.7	87.7	81.6	75.6	69.5	69.5
82.5°	674.3	665.2	290.3	148.2	99.8	75.6	69.5	69.5	60.5	54.4	54.4
85°	308.4	408.2	202.6	102.8	75.6	57.5	57.5	54.4	48.4	39.3	39.3
87.5°	96.8	136.1	105.8	45.4	42.3	33.3	33.3	30.2	30.2	24.2	24.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1
2.5°	1908.0	1905.0	1905.0	1892.9	1923.1	1923.1	1941.2	1926.1	1935.2	1938.2	1962.4
5°	1514.9	1539.1	1557.2	1593.5	1614.7	1623.7	1623.7	1647.9	1638.9	1657.0	1693.3
7.5°	1109.7	1140.0	1194.4	1239.7	1276.0	1288.1	1285.1	1291.1	1300.2	1279.0	1285.1
10°	898.1	876.9	895.0	937.4	970.6	1009.9	979.7	976.7	985.7	976.7	994.8
12.5°	749.9	725.7	710.6	710.6	734.8	752.9	743.8	759.0	792.2	801.3	822.5
15°	607.8	586.6	574.5	559.4	583.6	589.6	598.7	619.9	644.1	656.2	680.3
17.5°	486.8	486.8	486.8	474.7	483.8	492.9	495.9	523.1	526.1	538.2	547.3
20°	399.1	408.2	423.3	429.4	438.4	438.4	432.4	447.5	435.4	444.5	450.5
22.5°	359.8	371.9	378.0	381.0	393.1	396.1	381.0	384.0	387.0	378.0	381.0
25°	338.7	344.7	338.7	341.7	344.7	338.7	341.7	347.7	344.7	350.8	347.7
27.5°	329.6	323.5	320.5	317.5	317.5	311.4	314.5	314.5	320.5	323.5	323.5
30°	329.6	320.5	308.4	299.4	299.4	290.3	296.3	302.4	305.4	311.4	311.4
32.5°	338.7	320.5	299.4	290.3	281.2	275.2	281.2	290.3	302.4	305.4	308.4
35°	269.1	278.2	275.2	263.1	260.0	260.0	257.0	257.0	247.9	247.9	244.9
37.5°	241.9	238.9	244.9	247.9	251.0	241.9	241.9	229.8	226.8	229.8	229.8
40°	226.8	226.8	226.8	235.9	238.9	232.8	223.8	217.7	217.7	217.7	220.7
42.5°	220.7	214.7	211.7	217.7	226.8	220.7	211.7	208.6	208.6	211.7	211.7
45°	211.7	208.6	205.6	202.6	214.7	205.6	202.6	199.6	199.6	199.6	202.6
47.5°	202.6	199.6	193.5	193.5	196.5	193.5	190.5	190.5	190.5	196.5	196.5
50°	196.5	193.5	187.5	187.5	187.5	187.5	184.4	184.4	184.4	187.5	190.5
52.5°	187.5	184.4	181.4	178.4	178.4	178.4	178.4	178.4	178.4	181.4	184.4
55°	178.4	175.4	172.4	172.4	175.4	175.4	172.4	175.4	172.4	175.4	178.4
57.5°	169.3	166.3	163.3	166.3	169.3	166.3	166.3	166.3	166.3	166.3	169.3
60°	157.2	157.2	157.2	157.2	163.3	163.3	163.3	163.3	157.2	160.3	163.3
62.5°	151.2	148.2	148.2	151.2	154.2	154.2	157.2	154.2	151.2	154.2	154.2
65°	139.1	139.1	139.1	142.1	142.1	145.1	145.1	145.1	142.1	145.1	145.1
67.5°	130.0	130.0	130.0	130.0	136.1	136.1	136.1	136.1	133.0	133.0	136.1
70°	114.9	117.9	114.9	120.9	127.0	124.0	127.0	127.0	124.0	120.9	127.0
72.5°	105.8	105.8	105.8	105.8	114.9	114.9	114.9	117.9	114.9	111.9	114.9
75°	93.7	93.7	93.7	96.8	102.8	102.8	102.8	102.8	102.8	99.8	99.8
77.5°	81.6	84.7	81.6	84.7	90.7	87.7	90.7	93.7	90.7	87.7	87.7
80°	69.5	69.5	69.5	72.6	75.6	75.6	75.6	78.6	75.6	72.6	72.6
82.5°	54.4	54.4	57.5	57.5	60.5	60.5	60.5	63.5	60.5	57.5	57.5
85°	42.3	42.3	42.3	45.4	45.4	48.4	48.4	51.4	51.4	48.4	48.4
87.5°	27.2	24.2	27.2	27.2	30.2	30.2	27.2	24.2	27.2	24.2	21.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1	2177.1
2.5°	1986.6	2041.0	2080.3	2107.5	2146.9	2222.4	2252.7	2307.1	2322.2	2331.3
5°	1708.4	1765.9	1850.5	1911.0	1980.6	2122.7	2231.5	2313.2	2349.4	2382.7
7.5°	1339.5	1415.1	1502.8	1581.4	1696.3	1871.7	2013.8	2183.1	2246.6	2279.9
10°	1046.2	1115.8	1212.5	1309.3	1469.5	1617.7	1820.3	1974.5	2062.2	2086.4
12.5°	882.9	964.6	1079.5	1197.4	1297.2	1466.5	1672.1	1895.9	1977.5	1992.6
15°	749.9	861.8	979.7	1100.6	1215.5	1363.7	1584.4	1856.6	1977.5	1992.6
17.5°	619.9	719.7	858.7	988.8	1121.8	1324.4	1599.6	1889.8	2010.8	2056.1
20°	492.9	589.6	698.5	861.8	1043.2	1257.9	1632.8	2001.7	2162.0	2210.4
22.5°	408.2	450.5	556.4	713.6	928.3	1212.5	1666.1	2177.1	2346.4	2364.6
25°	356.8	387.0	453.6	601.7	837.6	1182.3	1744.7	2379.7	2597.4	2597.4
27.5°	332.6	344.7	390.1	523.1	774.1	1155.1	1823.3	2603.4	2806.0	2848.4
30°	326.6	356.8	381.0	465.7	704.5	1079.5	1895.9	2778.8	2987.5	2990.5
32.5°	320.5	314.5	332.6	405.2	619.9	1000.9	1956.4	2957.2	3120.5	3129.6
35°	251.0	263.1	293.3	356.8	556.4	943.4	1986.6	3054.0	3289.8	3298.9
37.5°	235.9	251.0	275.2	329.6	514.0	895.0	1995.7	3241.4	3468.2	3486.4
40°	229.8	241.9	260.0	305.4	480.8	834.6	2013.8	3435.0	3731.3	3707.1
42.5°	217.7	232.8	251.0	293.3	453.6	789.2	2016.8	3540.8	3870.4	3870.4
45°	214.7	223.8	244.9	293.3	423.3	749.9	1968.5	3646.6	4030.6	3982.3
47.5°	202.6	220.7	238.9	284.2	387.0	710.6	1911.0	3701.1	4051.8	4036.7
50°	199.6	217.7	247.9	269.1	365.9	692.4	1898.9	3837.1	4094.1	4091.1
52.5°	193.5	211.7	257.0	257.0	338.7	668.2	1956.4	3897.6	4103.2	4127.4
55°	184.4	211.7	238.9	235.9	314.5	638.0	2019.9	4054.8	4263.5	4257.4
57.5°	178.4	205.6	226.8	214.7	287.3	616.8	2113.6	4206.0	4457.0	4414.7
60°	169.3	205.6	202.6	199.6	266.1	598.7	2192.2	4236.3	4499.3	4526.5
62.5°	163.3	214.7	178.4	184.4	247.9	589.6	2159.0	4009.5	4441.9	4466.1
65°	157.2	184.4	163.3	169.3	241.9	571.5	2028.9	3737.3	4193.9	4299.8
67.5°	145.1	151.2	151.2	157.2	235.9	529.2	1762.8	3247.5	3816.0	3873.4
70°	133.0	136.1	136.1	145.1	229.8	480.8	1454.4	2809.1	3311.0	3419.9
72.5°	120.9	120.9	120.9	133.0	211.7	441.5	1197.4	2159.0	2751.6	2827.2
75°	105.8	105.8	105.8	117.9	190.5	402.2	943.4	1605.6	2025.9	2134.8
77.5°	93.7	93.7	90.7	105.8	166.3	326.6	680.3	1133.9	1427.2	1517.9
80°	78.6	75.6	75.6	84.7	130.0	235.9	438.4	801.3	994.8	1034.1
82.5°	63.5	60.5	57.5	63.5	93.7	148.2	272.1	559.4	638.0	613.8
85°	60.5	63.5	51.4	48.4	66.5	96.8	172.4	344.7	287.3	287.3
87.5°	24.2	21.2	21.2	18.1	33.3	36.3	75.6	63.5	48.4	48.4
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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