

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: P676237

Luminaire Tested: **CCW-SA-2B-722-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676237
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-722-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

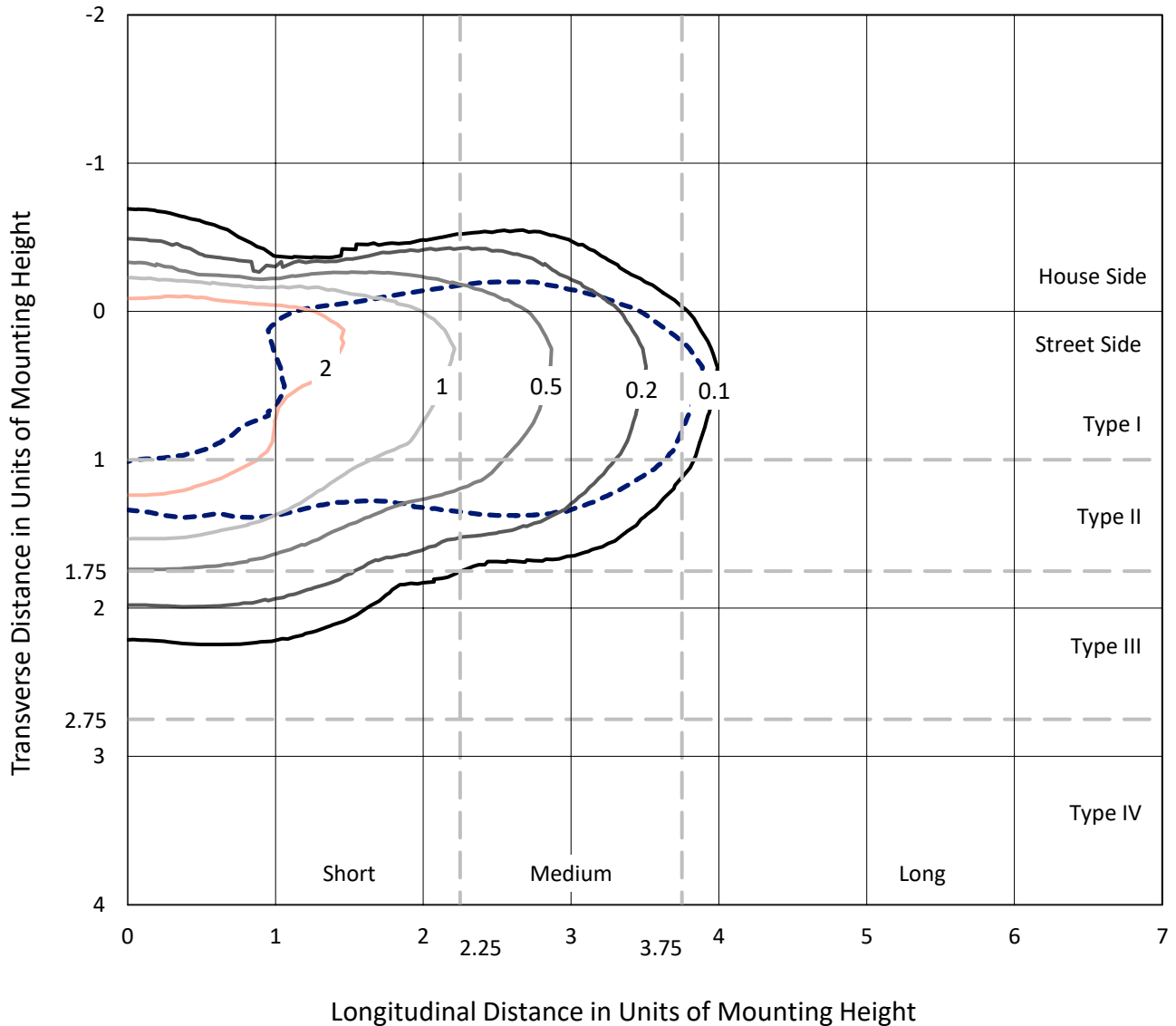
Lumens per Lamp: N/A
Luminaire Lumens: 3927.4 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

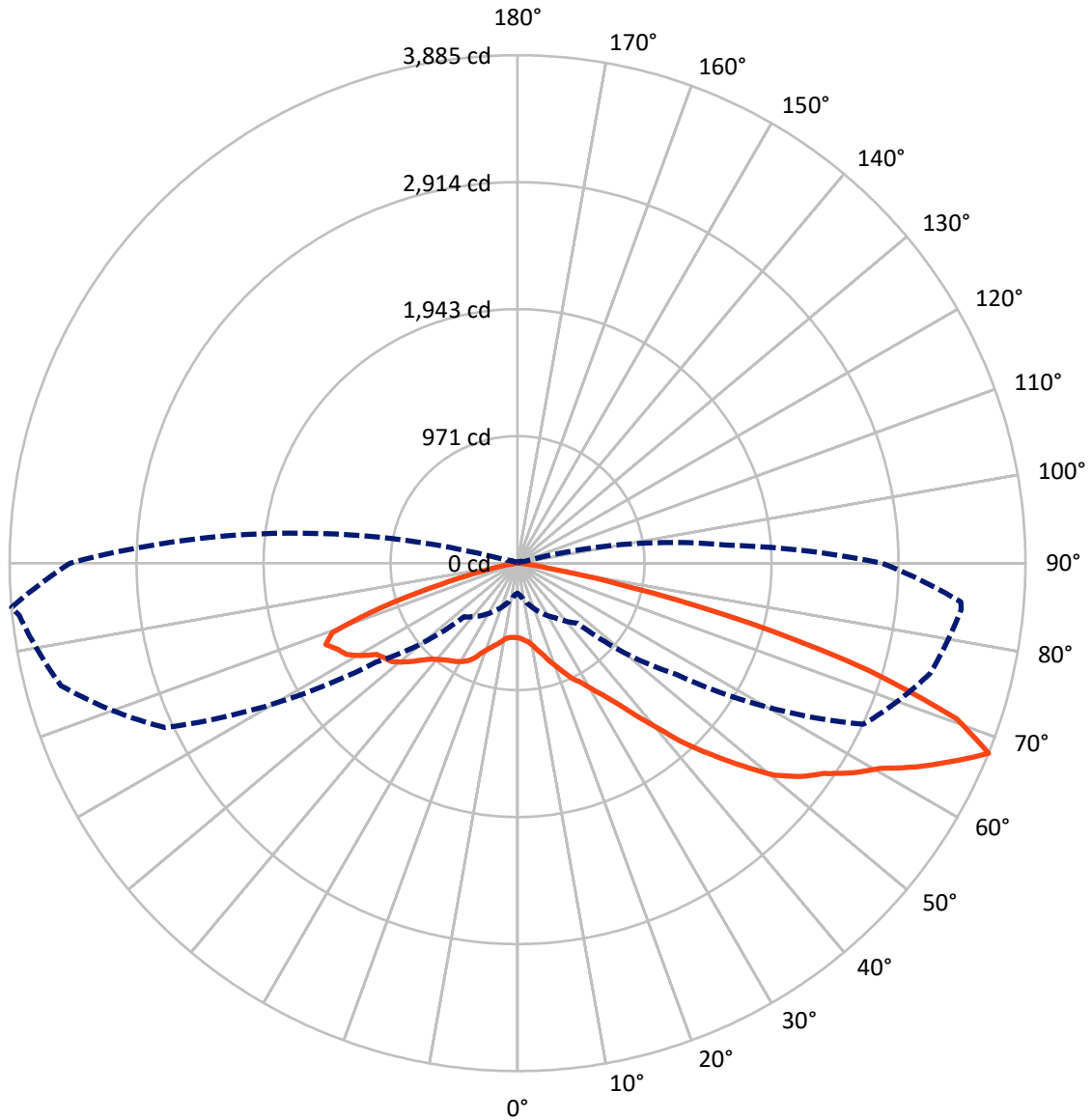
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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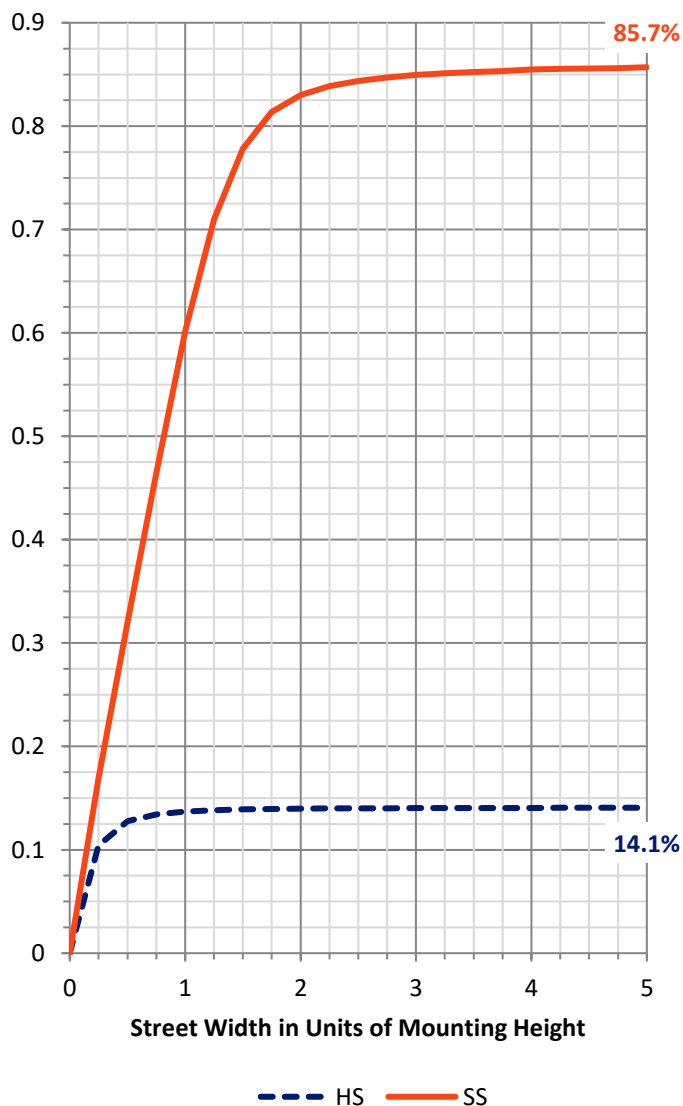
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.0	0.0	558.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3369.5	0.0	3369.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	3927.4	0.0	3927.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.3
10°-20°	140.0	3.6
20°-30°	232.6	5.9
30°-40°	400.1	10.2
40°-50°	719.0	18.3
50°-60°	1023.6	26.1
60°-70°	933.2	23.8
70°-80°	397.4	10.1
80°-90°	29.6	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°	3927.4	100.0
0°-180°	3927.4	100.0



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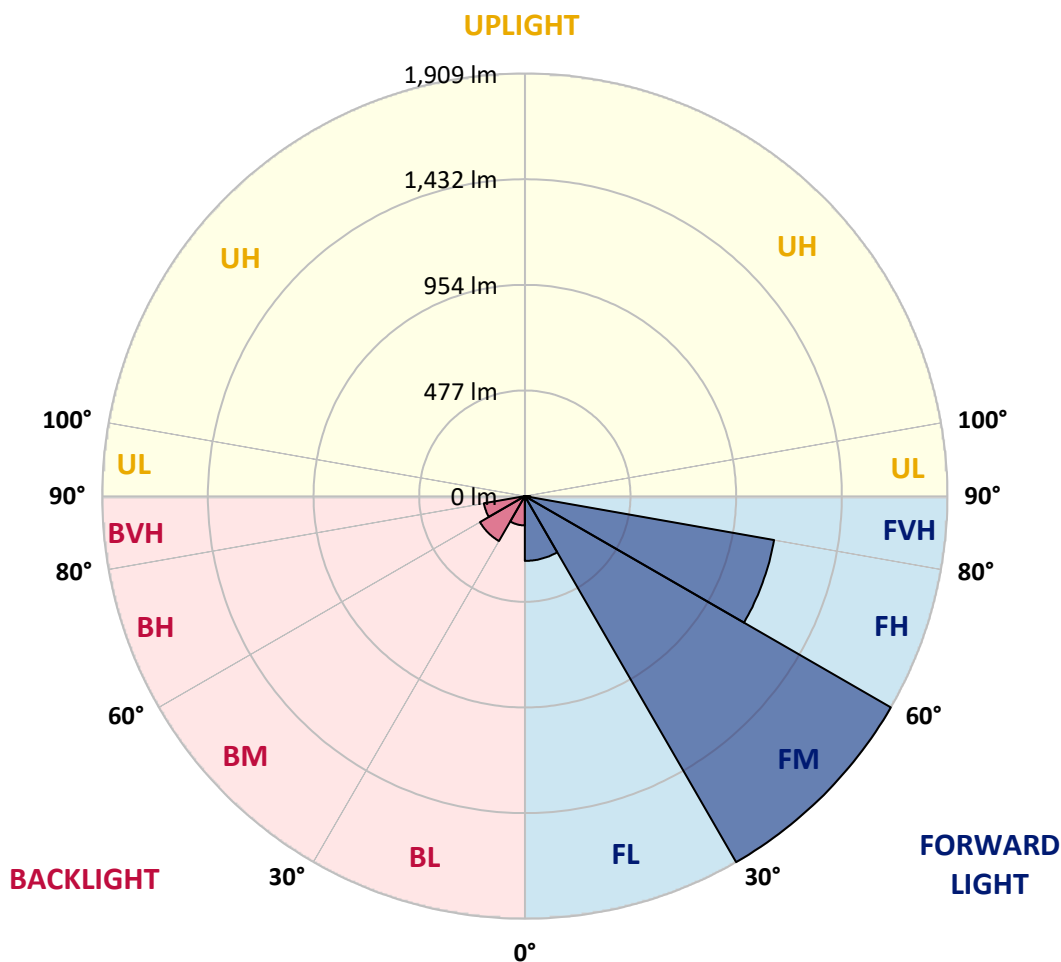
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.6	7.4			
FM (30°-60°)	1908.7	48.6			
FH (60°-80°)	1143.0	29.1			G1/1800
FVH (80°-90°)	25.1	0.6			G1/100
BL (0°-30°)	132.1	3.4	B1/500		
BM (30°-60°)	233.9	6.0	B1/1000		
BH (60°-80°)	187.5	4.8	B1/500		G1/500
BVH (80°-90°)	4.5	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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	591.7	597.3	597.3	595.5	589.8	586.1	584.2	580.5	576.7	576.7	578.6
5°	597.3	591.7	599.2	589.8	589.8	589.8	597.3	593.6	591.7	582.3	582.3
7.5°	597.3	591.7	591.7	597.3	591.7	595.5	604.8	601.1	608.6	591.7	595.5
10°	580.5	578.6	582.3	589.8	591.7	599.2	608.6	627.3	629.2	617.9	616.0
12.5°	546.8	544.9	558.0	561.7	584.2	602.9	631.0	646.0	662.9	657.2	646.0
15°	522.4	526.2	535.5	550.5	571.1	604.8	636.6	670.3	700.3	692.8	689.1
17.5°	531.8	529.9	531.8	541.1	567.4	601.1	655.4	694.7	737.8	737.8	741.5
20°	559.9	565.5	563.6	558.0	571.1	599.2	655.4	724.7	795.8	790.2	790.2
22.5°	608.6	610.4	599.2	595.5	593.6	610.4	666.6	762.1	844.5	855.7	852.0
25°	659.1	661.0	657.2	646.0	631.0	634.8	687.2	792.1	911.9	930.6	926.9
27.5°	743.4	741.5	732.1	719.0	696.6	679.7	719.0	814.5	964.3	996.2	986.8
30°	827.6	822.0	808.9	792.1	771.5	739.6	758.4	857.6	1029.9	1059.8	1039.2
32.5°	930.6	919.4	923.1	896.9	853.9	803.3	799.6	896.9	1082.3	1125.4	1108.5
35°	1061.7	1048.6	1029.9	1005.5	964.3	896.9	876.3	960.6	1170.3	1202.1	1202.1
37.5°	1234.0	1247.1	1224.6	1123.5	1078.6	1014.9	971.8	1026.1	1247.1	1323.8	1305.1
40°	1410.0	1421.2	1380.0	1305.1	1207.8	1129.1	1102.9	1132.9	1363.2	1454.9	1419.3
42.5°	1552.3	1567.3	1552.3	1454.9	1378.1	1277.0	1230.2	1258.3	1513.0	1623.4	1576.6
45°	1702.1	1717.1	1700.2	1636.6	1561.7	1503.6	1385.6	1421.2	1670.3	1835.0	1782.6
47.5°	1814.4	1833.2	1803.2	1790.1	1730.2	1720.8	1520.5	1559.8	1835.0	2048.5	1983.0
50°	1840.7	1861.2	1887.5	1902.4	1881.8	1904.3	1702.1	1735.8	2007.3	2245.1	2181.4
52.5°	1778.9	1799.5	1857.5	1926.8	2022.3	2089.7	1885.6	1913.7	2187.1	2408.0	2374.3
55°	1597.2	1616.0	1733.9	1827.5	2056.0	2166.5	2061.6	2179.6	2316.3	2578.4	2496.0
57.5°	1292.0	1314.5	1469.9	1614.1	1943.6	2123.4	2166.5	2400.5	2529.7	2703.9	2608.4
60°	917.5	930.6	1065.4	1320.1	1632.8	1908.1	2145.9	2565.3	2698.2	2872.4	2821.8
62.5°	528.0	539.3	679.7	919.4	1232.1	1593.5	2054.1	2720.7	2879.9	3057.8	3029.7
65°	350.2	353.9	449.4	580.5	801.4	1174.0	1821.9	2859.3	3059.6	3205.7	3173.9
67.5°	230.3	250.9	325.8	415.7	513.1	649.8	1484.9	2917.3	3265.6	3411.7	3404.2
70°	164.8	172.3	234.1	320.2	385.7	365.1	868.8	2507.3	3256.3	3467.8	3406.0
72.5°	97.4	104.9	155.4	239.7	303.3	232.2	406.3	1773.2	2698.2	2767.5	2750.7
75°	71.2	71.2	95.5	172.3	221.0	166.7	191.0	1121.6	1792.0	1945.5	1943.6
77.5°	50.6	52.4	65.5	103.0	170.4	121.7	104.9	623.5	979.3	1071.1	1020.5
80°	30.0	31.8	44.9	61.8	123.6	88.0	69.3	284.6	376.4	380.1	361.4
82.5°	22.5	22.5	30.0	43.1	86.1	59.9	43.1	108.6	121.7	110.5	93.6
85°	13.1	11.2	22.5	31.8	50.6	33.7	30.0	50.6	56.2	41.2	37.4
87.5°	3.7	3.7	9.4	11.2	22.5	18.7	13.1	18.7	26.2	15.0	11.2
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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	574.9	569.2	559.9	556.1	543.0	537.4	533.7	524.3	526.2	520.6	520.6
5°	569.2	569.2	550.5	529.9	509.3	496.2	481.2	462.5	462.5	455.0	456.9
7.5°	589.8	574.9	550.5	513.1	479.4	449.4	436.3	417.6	406.3	400.7	400.7
10°	602.9	588.0	546.8	501.8	458.8	421.3	393.2	367.0	352.0	352.0	350.2
12.5°	638.5	616.0	561.7	500.0	436.3	380.1	337.0	307.1	286.5	271.5	275.3
15°	668.5	644.1	569.2	485.0	397.0	318.3	265.9	209.7	181.6	166.7	161.0
17.5°	715.3	670.3	586.1	458.8	337.0	249.0	172.3	125.5	114.2	112.3	112.3
20°	754.6	702.2	588.0	408.2	277.1	159.2	110.5	103.0	97.4	95.5	93.6
22.5°	808.9	743.4	580.5	350.2	198.5	106.7	93.6	86.1	82.4	76.8	76.8
25°	865.1	797.7	565.5	295.9	121.7	91.8	82.4	74.9	67.4	63.7	65.5
27.5°	925.0	838.9	522.4	230.3	93.6	80.5	67.4	61.8	58.0	56.2	56.2
30°	973.7	865.1	458.8	153.5	84.3	71.2	59.9	54.3	50.6	48.7	48.7
32.5°	1009.3	887.6	387.6	103.0	76.8	63.7	54.3	48.7	44.9	43.1	43.1
35°	1069.2	904.4	322.1	88.0	69.3	56.2	46.8	43.1	39.3	39.3	39.3
37.5°	1160.9	926.9	256.5	80.5	63.7	50.6	44.9	39.3	37.4	35.6	35.6
40°	1241.5	955.0	183.5	73.0	58.0	46.8	39.3	35.6	33.7	31.8	31.8
42.5°	1357.6	986.8	119.8	65.5	52.4	43.1	35.6	31.8	30.0	28.1	28.1
45°	1505.5	1039.2	93.6	58.0	46.8	39.3	33.7	30.0	26.2	26.2	24.3
47.5°	1662.8	1102.9	84.3	54.3	43.1	35.6	30.0	26.2	24.3	22.5	22.5
50°	1808.8	1164.7	78.6	50.6	39.3	33.7	28.1	24.3	20.6	18.7	18.7
52.5°	1939.9	1222.7	74.9	46.8	37.4	30.0	24.3	20.6	18.7	16.9	16.9
55°	2009.2	1248.9	73.0	44.9	33.7	28.1	22.5	18.7	16.9	15.0	15.0
57.5°	2117.8	1282.7	71.2	43.1	31.8	24.3	20.6	16.9	15.0	13.1	13.1
60°	2293.8	1393.1	69.3	41.2	30.0	24.3	18.7	15.0	11.2	9.4	9.4
62.5°	2439.8	1484.9	61.8	35.6	26.2	20.6	15.0	11.2	7.5	5.6	5.6
65°	2606.5	1527.9	54.3	31.8	22.5	16.9	11.2	7.5	5.6	1.9	1.9
67.5°	2788.1	1593.5	44.9	28.1	20.6	13.1	9.4	5.6	1.9	0.0	0.0
70°	2692.6	1511.1	37.4	24.3	18.7	11.2	7.5	3.7	0.0	0.0	0.0
72.5°	2110.3	1082.3	30.0	22.5	16.9	11.2	7.5	1.9	0.0	0.0	0.0
75°	1410.0	612.3	26.2	18.7	13.1	9.4	5.6	1.9	0.0	0.0	0.0
77.5°	765.8	275.3	22.5	16.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0
80°	249.0	108.6	18.7	15.0	11.2	7.5	5.6	1.9	0.0	0.0	0.0
82.5°	67.4	33.7	18.7	15.0	11.2	7.5	5.6	1.9	0.0	0.0	0.0
85°	28.1	22.5	18.7	15.0	11.2	7.5	5.6	1.9	0.0	0.0	0.0
87.5°	11.2	7.5	7.5	9.4	7.5	5.6	3.7	1.9	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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	522.4	526.2	528.0	528.0	537.4	546.8	558.0	567.4	567.4	573.0	578.6
5°	458.8	462.5	468.1	485.0	503.7	524.3	544.9	559.9	580.5	589.8	595.5
7.5°	406.3	410.1	425.1	441.9	468.1	503.7	539.3	573.0	593.6	602.9	610.4
10°	352.0	357.6	374.5	404.5	438.2	481.2	522.4	580.5	614.2	632.9	640.4
12.5°	273.4	288.4	310.8	342.7	385.7	451.3	528.0	588.0	646.0	668.5	683.5
15°	172.3	185.4	221.0	271.5	329.6	406.3	513.1	599.2	679.7	702.2	726.5
17.5°	110.5	112.3	123.6	177.9	252.8	350.2	490.6	616.0	717.2	749.0	786.4
20°	93.6	97.4	99.2	106.7	168.5	288.4	443.8	636.6	762.1	805.2	840.7
22.5°	78.6	80.5	84.3	89.9	101.1	209.7	380.1	636.6	801.4	865.1	906.3
25°	63.7	67.4	71.2	76.8	88.0	131.1	314.6	625.4	848.2	926.9	979.3
27.5°	56.2	56.2	59.9	65.5	74.9	91.8	249.0	591.7	883.8	964.3	1033.6
30°	48.7	50.6	52.4	58.0	67.4	80.5	172.3	537.4	921.3	1037.4	1116.0
32.5°	43.1	43.1	46.8	50.6	59.9	73.0	110.5	455.0	969.9	1093.5	1204.0
35°	39.3	39.3	41.2	44.9	54.3	65.5	86.1	385.7	1028.0	1200.3	1322.0
37.5°	35.6	35.6	37.4	41.2	48.7	58.0	78.6	331.4	1087.9	1307.0	1484.9
40°	31.8	31.8	33.7	37.4	43.1	52.4	71.2	267.8	1162.8	1464.3	1662.8
42.5°	28.1	28.1	30.0	33.7	39.3	46.8	61.8	200.4	1262.1	1634.7	1893.1
45°	24.3	24.3	26.2	30.0	33.7	43.1	56.2	153.5	1370.7	1823.8	2095.3
47.5°	20.6	22.5	24.3	28.1	31.8	39.3	50.6	134.8	1477.4	2024.2	2320.0
50°	18.7	18.7	20.6	24.3	30.0	35.6	46.8	132.9	1586.0	2177.7	2550.3
52.5°	16.9	16.9	18.7	22.5	28.1	33.7	44.9	136.7	1675.9	2320.0	2711.4
55°	15.0	15.0	16.9	18.7	24.3	31.8	41.2	140.4	1739.5	2464.2	2840.6
57.5°	13.1	13.1	15.0	18.7	22.5	28.1	37.4	144.2	1842.5	2606.5	3027.8
60°	9.4	9.4	13.1	16.9	20.6	24.3	35.6	147.9	2007.3	2803.1	3187.0
62.5°	5.6	5.6	7.5	13.1	16.9	22.5	31.8	140.4	2160.8	3055.9	3430.4
65°	1.9	3.7	5.6	7.5	13.1	18.7	26.2	127.3	2290.0	3308.7	3655.1
67.5°	0.0	0.0	1.9	5.6	11.2	15.0	22.5	93.6	2310.6	3422.9	3885.4
70°	0.0	0.0	1.9	5.6	9.4	15.0	20.6	52.4	1968.0	3057.8	3561.5
72.5°	0.0	0.0	0.0	3.7	9.4	13.1	18.7	39.3	1451.2	2305.0	2814.3
75°	0.0	0.0	0.0	1.9	7.5	11.2	16.9	30.0	881.9	1537.3	1836.9
77.5°	0.0	0.0	0.0	1.9	5.6	11.2	16.9	26.2	310.8	732.1	863.2
80°	0.0	0.0	0.0	3.7	7.5	11.2	15.0	22.5	74.9	183.5	247.2
82.5°	0.0	0.0	0.0	1.9	5.6	9.4	13.1	18.7	30.0	54.3	86.1
85°	0.0	0.0	0.0	1.9	3.7	9.4	13.1	16.9	20.6	26.2	37.4
87.5°	0.0	0.0	0.0	0.0	1.9	3.7	5.6	7.5	7.5	7.5	13.1
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°	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1
2.5°	576.7	584.2	588.0	595.5	599.2	597.3	595.5	601.1	597.3	591.7
5°	597.3	597.3	602.9	604.8	604.8	599.2	602.9	601.1	597.3	597.3
7.5°	619.8	629.2	629.2	617.9	616.0	612.3	612.3	597.3	591.7	597.3
10°	642.3	649.8	651.6	638.5	621.7	614.2	604.8	586.1	576.7	580.5
12.5°	689.1	689.1	668.5	653.5	631.0	604.8	582.3	556.1	543.0	546.8
15°	722.8	730.3	702.2	668.5	629.2	580.5	556.1	535.5	528.0	522.4
17.5°	788.3	773.3	728.4	679.7	623.5	573.0	556.1	537.4	531.8	531.8
20°	844.5	837.0	769.6	681.6	621.7	588.0	576.7	567.4	565.5	559.9
22.5°	921.3	887.6	801.4	702.2	642.3	612.3	608.6	617.9	612.3	608.6
25°	979.3	951.2	825.8	732.1	674.1	664.7	670.3	679.7	664.7	659.1
27.5°	1058.0	1005.5	872.6	771.5	717.2	726.5	745.2	747.1	737.8	743.4
30°	1131.0	1074.8	908.2	816.4	790.2	799.6	827.6	848.2	835.1	827.6
32.5°	1235.8	1149.7	979.3	891.3	881.9	906.3	938.1	951.2	934.4	930.6
35°	1346.3	1235.8	1052.3	975.6	992.4	1026.1	1054.2	1076.7	1050.5	1061.7
37.5°	1518.6	1374.4	1175.9	1108.5	1116.0	1129.1	1181.5	1243.3	1256.4	1234.0
40°	1698.3	1524.2	1290.1	1237.7	1254.6	1290.1	1351.9	1410.0	1439.9	1410.0
42.5°	1906.2	1668.4	1466.2	1404.4	1421.2	1471.8	1554.2	1601.0	1597.2	1552.3
45°	2162.7	1868.7	1630.9	1554.2	1616.0	1660.9	1743.3	1748.9	1713.3	1702.1
47.5°	2359.3	2037.3	1808.8	1760.1	1844.4	1846.3	1865.0	1866.9	1827.5	1814.4
50°	2576.5	2232.0	2007.3	1936.1	2078.5	2012.9	1962.4	1928.7	1868.7	1840.7
52.5°	2790.0	2370.6	2190.8	2117.8	2265.7	2091.6	1999.8	1896.8	1808.8	1778.9
55°	2904.2	2599.0	2458.6	2288.2	2306.9	2114.0	1883.7	1754.5	1604.7	1597.2
57.5°	3039.0	2752.6	2685.1	2404.3	2237.6	1956.7	1642.2	1471.8	1310.7	1292.0
60°	3198.2	2996.0	2924.8	2385.5	1992.3	1644.0	1301.4	1082.3	930.6	917.5
62.5°	3376.1	3284.3	3072.7	2202.0	1582.2	1157.2	859.5	676.0	535.5	528.0
65°	3657.0	3525.9	3151.4	1853.8	1046.7	741.5	571.1	438.2	353.9	350.2
67.5°	3833.0	3617.6	2975.4	1322.0	580.5	490.6	400.7	318.3	245.3	230.3
70°	3583.9	3319.9	2353.7	756.5	337.0	372.6	309.0	213.5	168.5	164.8
72.5°	2863.0	2464.2	1584.1	355.8	209.7	292.1	224.7	144.2	101.1	97.4
75°	1953.0	1550.4	994.3	164.8	147.9	213.5	164.8	84.3	71.2	71.2
77.5°	872.6	790.2	509.3	101.1	110.5	162.9	95.5	58.0	52.4	50.6
80°	265.9	279.0	207.8	69.3	82.4	123.6	58.0	39.3	31.8	30.0
82.5°	89.9	104.9	93.6	41.2	56.2	88.0	39.3	26.2	22.5	22.5
85°	43.1	52.4	46.8	26.2	30.0	43.1	31.8	20.6	13.1	13.1
87.5°	16.9	24.3	16.9	11.2	16.9	22.5	13.1	9.4	3.7	3.7
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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