

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: P676259

Luminaire Tested: **CCW-SA-2B-730-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676259
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-730-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) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

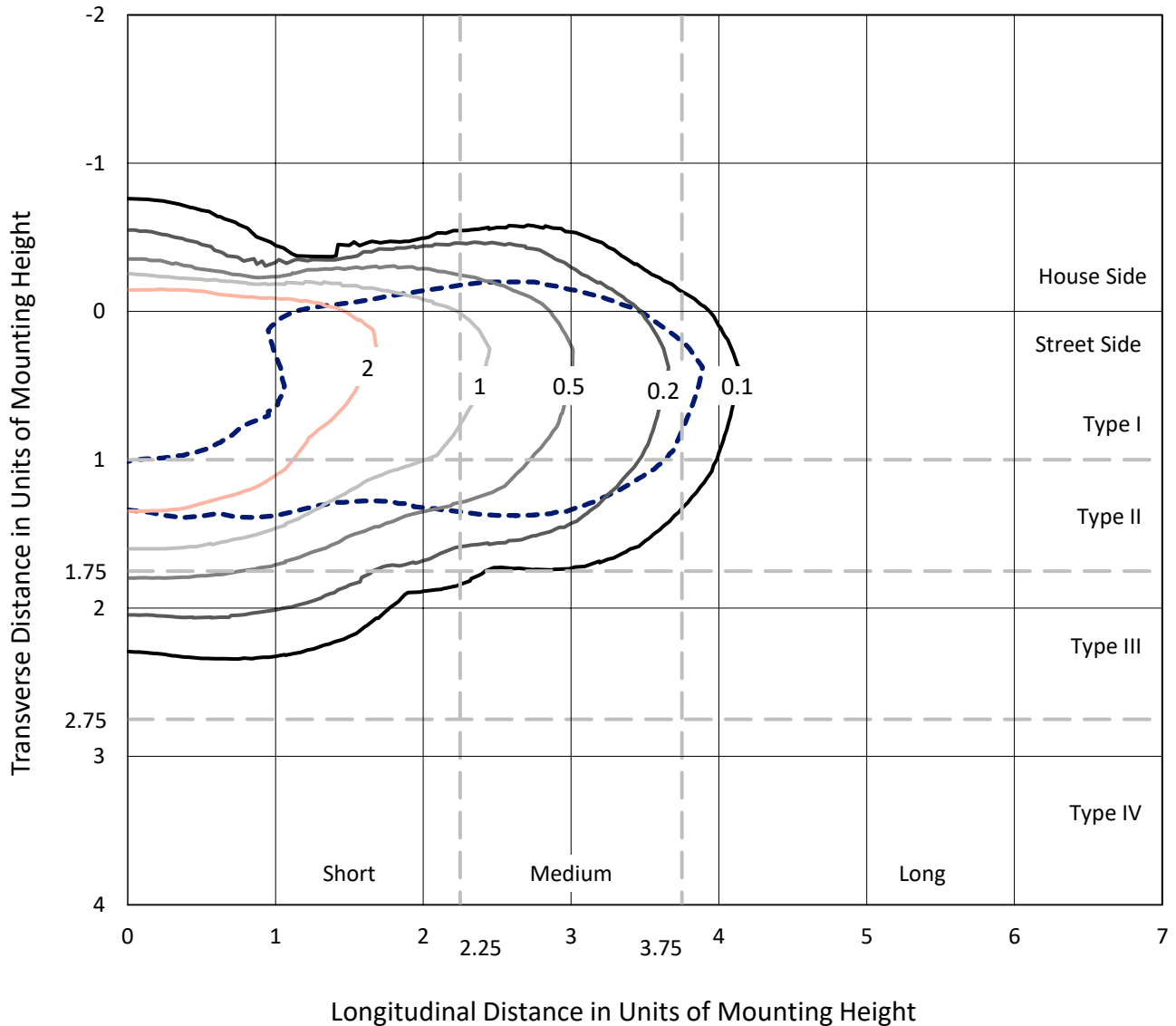
Lumens per Lamp: N/A
Luminaire Lumens: 4855.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

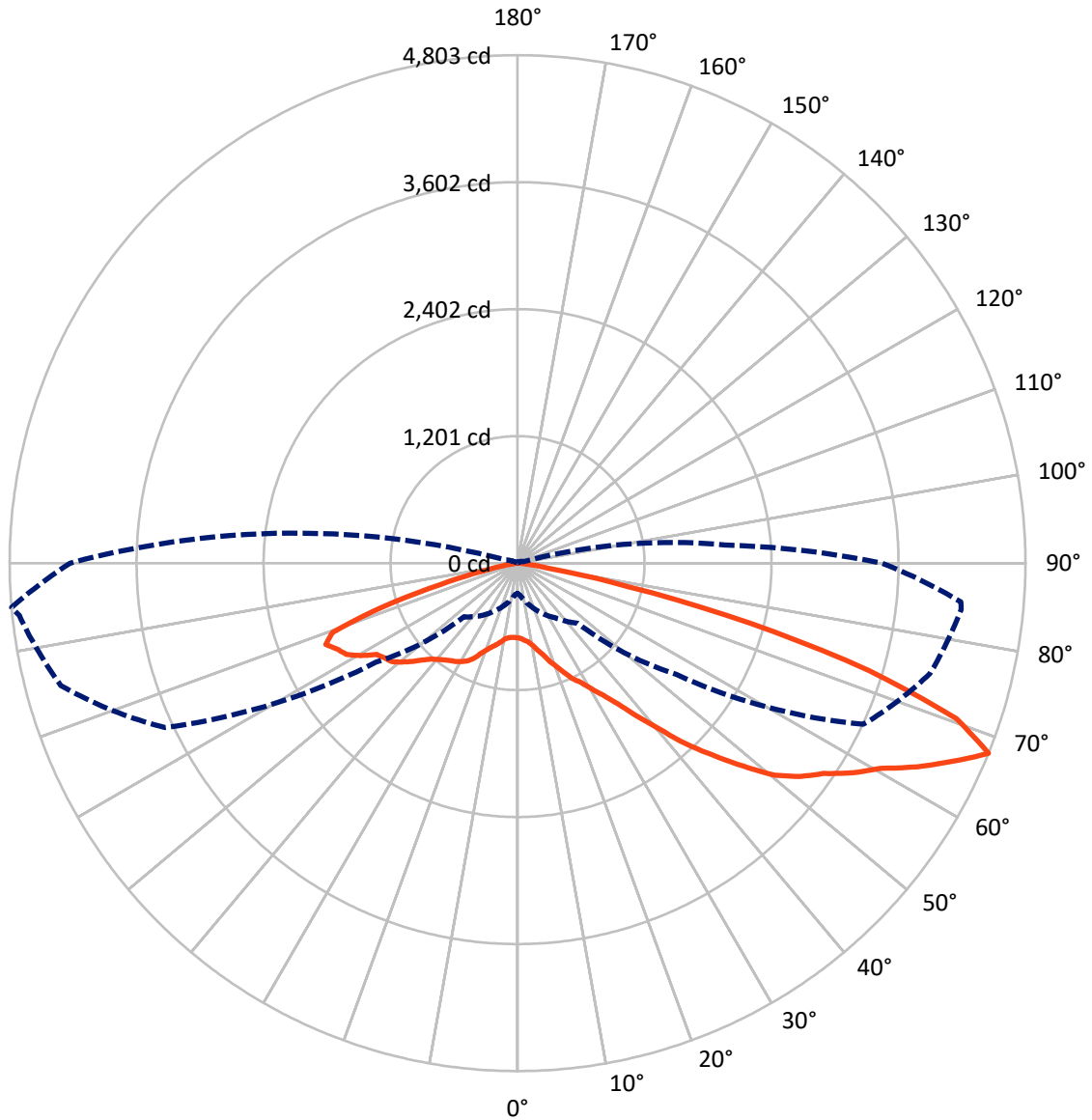
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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	689.7	0.0	689.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4165.4	0.0	4165.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	4855.2	0.0	4855.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.3
10°-20°	173.1	3.6
20°-30°	287.5	5.9
30°-40°	494.6	10.2
40°-50°	888.8	18.3
50°-60°	1265.4	26.1
60°-70°	1153.6	23.8
70°-80°	491.2	10.1
80°-90°	36.6	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°	4855.2	100.0
0°-180°	4855.2	100.0



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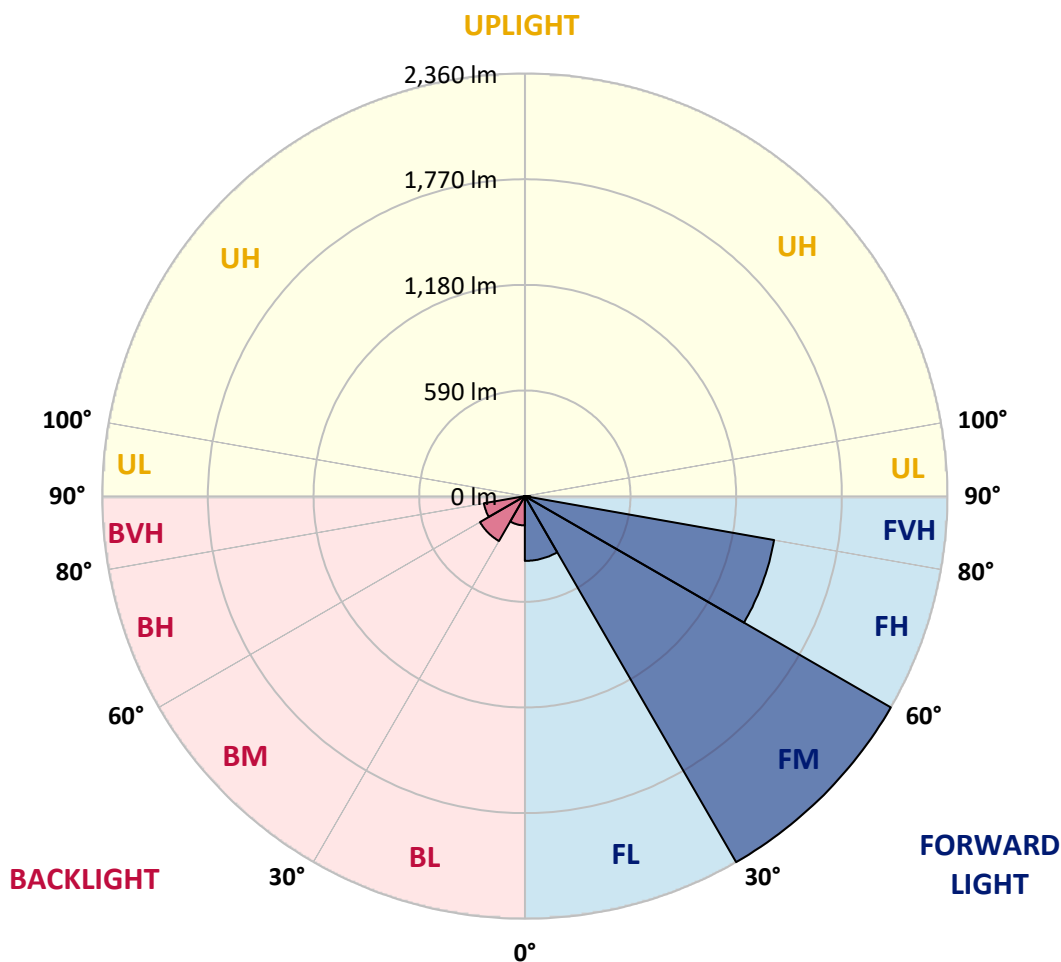
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.7	7.4			
FM (30°-60°)	2359.6	48.6			
FH (60°-80°)	1413.1	29.1			G1/1800
FVH (80°-90°)	31.1	0.6			G1/100
BL (0°-30°)	163.3	3.4	B1/500		
BM (30°-60°)	289.2	6.0	B1/1000		
BH (60°-80°)	231.8	4.8	B1/500		G1/500
BVH (80°-90°)	5.5	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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	731.5	738.4	738.4	736.1	729.2	724.5	722.2	717.6	713.0	713.0	715.3
5°	738.4	731.5	740.7	729.2	729.2	729.2	738.4	733.8	731.5	719.9	719.9
7.5°	738.4	731.5	731.5	738.4	731.5	736.1	747.7	743.1	752.3	731.5	736.1
10°	717.6	715.3	719.9	729.2	731.5	740.7	752.3	775.5	777.8	763.9	761.6
12.5°	675.9	673.6	689.8	694.4	722.2	745.4	780.1	798.6	819.4	812.5	798.6
15°	645.8	650.5	662.0	680.6	706.0	747.7	787.0	828.7	865.7	856.5	851.8
17.5°	657.4	655.1	657.4	669.0	701.4	743.1	810.2	858.8	912.0	912.0	916.7
20°	692.1	699.1	696.8	689.8	706.0	740.7	810.2	895.8	983.8	976.8	976.8
22.5°	752.3	754.6	740.7	736.1	733.8	754.6	824.1	942.1	1044.0	1057.9	1053.2
25°	814.8	817.1	812.5	798.6	780.1	784.7	849.5	979.2	1127.3	1150.5	1145.8
27.5°	919.0	916.7	905.1	888.9	861.1	840.3	888.9	1006.9	1192.1	1231.5	1219.9
30°	1023.1	1016.2	1000.0	979.2	953.7	914.3	937.5	1060.2	1273.1	1310.2	1284.7
32.5°	1150.5	1136.6	1141.2	1108.8	1055.6	993.1	988.4	1108.8	1338.0	1391.2	1370.4
35°	1312.5	1296.3	1273.1	1243.0	1192.1	1108.8	1083.3	1187.5	1446.8	1486.1	1486.1
37.5°	1525.5	1541.7	1513.9	1388.9	1333.3	1254.6	1201.4	1268.5	1541.7	1636.6	1613.4
40°	1743.0	1756.9	1706.0	1613.4	1493.0	1395.8	1363.4	1400.5	1685.2	1798.6	1754.6
42.5°	1919.0	1937.5	1919.0	1798.6	1703.7	1578.7	1520.8	1555.5	1870.4	2006.9	1949.1
45°	2104.2	2122.7	2101.8	2023.1	1930.5	1858.8	1713.0	1756.9	2064.8	2268.5	2203.7
47.5°	2243.0	2266.2	2229.2	2213.0	2138.9	2127.3	1879.6	1928.2	2268.5	2532.4	2451.4
50°	2275.5	2300.9	2333.3	2351.8	2326.4	2354.2	2104.2	2145.8	2481.5	2775.4	2696.7
52.5°	2199.1	2224.5	2296.3	2381.9	2500.0	2583.3	2331.0	2365.7	2703.7	2976.8	2935.2
55°	1974.5	1997.7	2143.5	2259.2	2541.7	2678.2	2548.6	2694.4	2863.4	3187.5	3085.6
57.5°	1597.2	1625.0	1817.1	1995.4	2402.8	2625.0	2678.2	2967.6	3127.3	3342.6	3224.5
60°	1134.3	1150.5	1317.1	1631.9	2018.5	2358.8	2652.8	3171.3	3335.6	3550.9	3488.4
62.5°	652.8	666.7	840.3	1136.6	1523.1	1969.9	2539.3	3363.4	3560.2	3780.1	3745.4
65°	432.9	437.5	555.6	717.6	990.7	1451.4	2252.3	3534.7	3782.4	3962.9	3923.6
67.5°	284.7	310.2	402.8	513.9	634.3	803.2	1835.6	3606.5	4037.0	4217.6	4208.3
70°	203.7	213.0	289.4	395.8	476.8	451.4	1074.1	3099.5	4025.4	4287.0	4210.6
72.5°	120.4	129.6	192.1	296.3	375.0	287.0	502.3	2192.1	3335.6	3421.3	3400.4
75°	88.0	88.0	118.1	213.0	273.1	206.0	236.1	1386.6	2215.3	2405.1	2402.8
77.5°	62.5	64.8	81.0	127.3	210.6	150.5	129.6	770.8	1210.6	1324.1	1261.6
80°	37.0	39.4	55.6	76.4	152.8	108.8	85.6	351.9	465.3	469.9	446.8
82.5°	27.8	27.8	37.0	53.2	106.5	74.1	53.2	134.3	150.5	136.6	115.7
85°	16.2	13.9	27.8	39.4	62.5	41.7	37.0	62.5	69.4	50.9	46.3
87.5°	4.6	4.6	11.6	13.9	27.8	23.1	16.2	23.1	32.4	18.5	13.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	710.6	703.7	692.1	687.5	671.3	664.3	659.7	648.1	650.5	643.5	643.5
5°	703.7	703.7	680.6	655.1	629.6	613.4	594.9	571.8	571.8	562.5	564.8
7.5°	729.2	710.6	680.6	634.3	592.6	555.6	539.3	516.2	502.3	495.4	495.4
10°	745.4	726.8	675.9	620.4	567.1	520.8	486.1	453.7	435.2	435.2	432.9
12.5°	789.3	761.6	694.4	618.1	539.3	469.9	416.7	379.6	354.2	335.6	340.3
15°	826.4	796.3	703.7	599.5	490.7	393.5	328.7	259.3	224.5	206.0	199.1
17.5°	884.3	828.7	724.5	567.1	416.7	307.9	213.0	155.1	141.2	138.9	138.9
20°	932.9	868.1	726.8	504.6	342.6	196.8	136.6	127.3	120.4	118.1	115.7
22.5°	1000.0	919.0	717.6	432.9	245.4	131.9	115.7	106.5	101.9	94.9	94.9
25°	1069.4	986.1	699.1	365.7	150.5	113.4	101.9	92.6	83.3	78.7	81.0
27.5°	1143.5	1037.0	645.8	284.7	115.7	99.5	83.3	76.4	71.8	69.4	69.4
30°	1203.7	1069.4	567.1	189.8	104.2	88.0	74.1	67.1	62.5	60.2	60.2
32.5°	1247.7	1097.2	479.2	127.3	94.9	78.7	67.1	60.2	55.6	53.2	53.2
35°	1321.8	1118.1	398.1	108.8	85.6	69.4	57.9	53.2	48.6	48.6	48.6
37.5°	1435.2	1145.8	317.1	99.5	78.7	62.5	55.6	48.6	46.3	44.0	44.0
40°	1534.7	1180.5	226.9	90.3	71.8	57.9	48.6	44.0	41.7	39.4	39.4
42.5°	1678.2	1219.9	148.1	81.0	64.8	53.2	44.0	39.4	37.0	34.7	34.7
45°	1861.1	1284.7	115.7	71.8	57.9	48.6	41.7	37.0	32.4	32.4	30.1
47.5°	2055.5	1363.4	104.2	67.1	53.2	44.0	37.0	32.4	30.1	27.8	27.8
50°	2236.1	1439.8	97.2	62.5	48.6	41.7	34.7	30.1	25.5	23.1	23.1
52.5°	2398.1	1511.6	92.6	57.9	46.3	37.0	30.1	25.5	23.1	20.8	20.8
55°	2483.8	1544.0	90.3	55.6	41.7	34.7	27.8	23.1	20.8	18.5	18.5
57.5°	2618.0	1585.6	88.0	53.2	39.4	30.1	25.5	20.8	18.5	16.2	16.2
60°	2835.6	1722.2	85.6	50.9	37.0	30.1	23.1	18.5	13.9	11.6	11.6
62.5°	3016.2	1835.6	76.4	44.0	32.4	25.5	18.5	13.9	9.3	6.9	6.9
65°	3222.2	1888.9	67.1	39.4	27.8	20.8	13.9	9.3	6.9	2.3	2.3
67.5°	3446.7	1969.9	55.6	34.7	25.5	16.2	11.6	6.9	2.3	0.0	0.0
70°	3328.7	1868.0	46.3	30.1	23.1	13.9	9.3	4.6	0.0	0.0	0.0
72.5°	2608.8	1338.0	37.0	27.8	20.8	13.9	9.3	2.3	0.0	0.0	0.0
75°	1743.0	756.9	32.4	23.1	16.2	11.6	6.9	2.3	0.0	0.0	0.0
77.5°	946.8	340.3	27.8	20.8	13.9	9.3	6.9	2.3	0.0	0.0	0.0
80°	307.9	134.3	23.1	18.5	13.9	9.3	6.9	2.3	0.0	0.0	0.0
82.5°	83.3	41.7	23.1	18.5	13.9	9.3	6.9	2.3	0.0	0.0	0.0
85°	34.7	27.8	23.1	18.5	13.9	9.3	6.9	2.3	0.0	0.0	0.0
87.5°	13.9	9.3	9.3	11.6	9.3	6.9	4.6	2.3	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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	645.8	650.5	652.8	652.8	664.3	675.9	689.8	701.4	701.4	708.3	715.3
5°	567.1	571.8	578.7	599.5	622.7	648.1	673.6	692.1	717.6	729.2	736.1
7.5°	502.3	506.9	525.5	546.3	578.7	622.7	666.7	708.3	733.8	745.4	754.6
10°	435.2	442.1	463.0	500.0	541.7	594.9	645.8	717.6	759.3	782.4	791.7
12.5°	338.0	356.5	384.3	423.6	476.8	557.9	652.8	726.8	798.6	826.4	844.9
15°	213.0	229.2	273.1	335.6	407.4	502.3	634.3	740.7	840.3	868.1	898.1
17.5°	136.6	138.9	152.8	219.9	312.5	432.9	606.5	761.6	886.6	925.9	972.2
20°	115.7	120.4	122.7	131.9	208.3	356.5	548.6	787.0	942.1	995.4	1039.3
22.5°	97.2	99.5	104.2	111.1	125.0	259.3	469.9	787.0	990.7	1069.4	1120.4
25°	78.7	83.3	88.0	94.9	108.8	162.0	388.9	773.1	1048.6	1145.8	1210.6
27.5°	69.4	69.4	74.1	81.0	92.6	113.4	307.9	731.5	1092.6	1192.1	1277.8
30°	60.2	62.5	64.8	71.8	83.3	99.5	213.0	664.3	1138.9	1282.4	1379.6
32.5°	53.2	53.2	57.9	62.5	74.1	90.3	136.6	562.5	1199.1	1351.8	1488.4
35°	48.6	48.6	50.9	55.6	67.1	81.0	106.5	476.8	1270.8	1483.8	1634.3
37.5°	44.0	44.0	46.3	50.9	60.2	71.8	97.2	409.7	1344.9	1615.7	1835.6
40°	39.4	39.4	41.7	46.3	53.2	64.8	88.0	331.0	1437.5	1810.2	2055.5
42.5°	34.7	34.7	37.0	41.7	48.6	57.9	76.4	247.7	1560.2	2020.8	2340.3
45°	30.1	30.1	32.4	37.0	41.7	53.2	69.4	189.8	1694.4	2254.6	2590.3
47.5°	25.5	27.8	30.1	34.7	39.4	48.6	62.5	166.7	1826.4	2502.3	2868.0
50°	23.1	23.1	25.5	30.1	37.0	44.0	57.9	164.4	1960.6	2692.1	3152.8
52.5°	20.8	20.8	23.1	27.8	34.7	41.7	55.6	169.0	2071.7	2868.0	3351.8
55°	18.5	18.5	20.8	23.1	30.1	39.4	50.9	173.6	2150.5	3046.3	3511.6
57.5°	16.2	16.2	18.5	23.1	27.8	34.7	46.3	178.2	2277.8	3222.2	3743.0
60°	11.6	11.6	16.2	20.8	25.5	30.1	44.0	182.9	2481.5	3465.3	3939.8
62.5°	6.9	6.9	9.3	16.2	20.8	27.8	39.4	173.6	2671.3	3777.8	4240.7
65°	2.3	4.6	6.9	9.3	16.2	23.1	32.4	157.4	2831.0	4090.3	4518.5
67.5°	0.0	0.0	2.3	6.9	13.9	18.5	27.8	115.7	2856.5	4231.5	4803.2
70°	0.0	0.0	2.3	6.9	11.6	18.5	25.5	64.8	2432.9	3780.1	4402.8
72.5°	0.0	0.0	0.0	4.6	11.6	16.2	23.1	48.6	1794.0	2849.5	3479.1
75°	0.0	0.0	0.0	2.3	9.3	13.9	20.8	37.0	1090.3	1900.5	2270.8
77.5°	0.0	0.0	0.0	2.3	6.9	13.9	20.8	32.4	384.3	905.1	1067.1
80°	0.0	0.0	0.0	4.6	9.3	13.9	18.5	27.8	92.6	226.9	305.6
82.5°	0.0	0.0	0.0	2.3	6.9	11.6	16.2	23.1	37.0	67.1	106.5
85°	0.0	0.0	0.0	2.3	4.6	11.6	16.2	20.8	25.5	32.4	46.3
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	6.9	9.3	9.3	9.3	16.2
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	713.0	722.2	726.8	736.1	740.7	738.4	736.1	743.1	738.4	731.5
5°	738.4	738.4	745.4	747.7	747.7	740.7	745.4	743.1	738.4	738.4
7.5°	766.2	777.8	777.8	763.9	761.6	756.9	756.9	738.4	731.5	738.4
10°	794.0	803.2	805.6	789.3	768.5	759.3	747.7	724.5	713.0	717.6
12.5°	851.8	851.8	826.4	807.9	780.1	747.7	719.9	687.5	671.3	675.9
15°	893.5	902.8	868.1	826.4	777.8	717.6	687.5	662.0	652.8	645.8
17.5°	974.5	956.0	900.5	840.3	770.8	708.3	687.5	664.3	657.4	657.4
20°	1044.0	1034.7	951.4	842.6	768.5	726.8	713.0	701.4	699.1	692.1
22.5°	1138.9	1097.2	990.7	868.1	794.0	756.9	752.3	763.9	756.9	752.3
25°	1210.6	1175.9	1020.8	905.1	833.3	821.8	828.7	840.3	821.8	814.8
27.5°	1307.9	1243.0	1078.7	953.7	886.6	898.1	921.3	923.6	912.0	919.0
30°	1398.1	1328.7	1122.7	1009.3	976.8	988.4	1023.1	1048.6	1032.4	1023.1
32.5°	1527.8	1421.3	1210.6	1101.8	1090.3	1120.4	1159.7	1175.9	1155.1	1150.5
35°	1664.3	1527.8	1300.9	1206.0	1226.8	1268.5	1303.2	1331.0	1298.6	1312.5
37.5°	1877.3	1699.1	1453.7	1370.4	1379.6	1395.8	1460.6	1537.0	1553.2	1525.5
40°	2099.5	1884.3	1594.9	1530.1	1550.9	1594.9	1671.3	1743.0	1780.1	1743.0
42.5°	2356.5	2062.5	1812.5	1736.1	1756.9	1819.4	1921.3	1979.2	1974.5	1919.0
45°	2673.6	2310.2	2016.2	1921.3	1997.7	2053.2	2155.1	2162.0	2118.0	2104.2
47.5°	2916.7	2518.5	2236.1	2175.9	2280.1	2282.4	2305.5	2307.9	2259.2	2243.0
50°	3185.2	2759.2	2481.5	2393.5	2569.4	2488.4	2425.9	2384.2	2310.2	2275.5
52.5°	3449.1	2930.5	2708.3	2618.0	2800.9	2585.6	2472.2	2344.9	2236.1	2199.1
55°	3590.3	3212.9	3039.3	2828.7	2851.8	2613.4	2328.7	2169.0	1983.8	1974.5
57.5°	3756.9	3402.8	3319.4	2972.2	2766.2	2419.0	2030.1	1819.4	1620.4	1597.2
60°	3953.7	3703.7	3615.7	2949.1	2463.0	2032.4	1608.8	1338.0	1150.5	1134.3
62.5°	4173.6	4060.2	3798.6	2722.2	1956.0	1430.5	1062.5	835.6	662.0	652.8
65°	4520.8	4358.8	3895.8	2291.7	1294.0	916.7	706.0	541.7	437.5	432.9
67.5°	4738.4	4472.2	3678.2	1634.3	717.6	606.5	495.4	393.5	303.2	284.7
70°	4430.5	4104.1	2909.7	935.2	416.7	460.6	381.9	263.9	208.3	203.7
72.5°	3539.3	3046.3	1958.3	439.8	259.3	361.1	277.8	178.2	125.0	120.4
75°	2414.3	1916.7	1229.2	203.7	182.9	263.9	203.7	104.2	88.0	88.0
77.5°	1078.7	976.8	629.6	125.0	136.6	201.4	118.1	71.8	64.8	62.5
80°	328.7	344.9	256.9	85.6	101.9	152.8	71.8	48.6	39.4	37.0
82.5°	111.1	129.6	115.7	50.9	69.4	108.8	48.6	32.4	27.8	27.8
85°	53.2	64.8	57.9	32.4	37.0	53.2	39.4	25.5	16.2	16.2
87.5°	20.8	30.1	20.8	13.9	20.8	27.8	16.2	11.6	4.6	4.6
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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