

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: P676316

Luminaire Tested: **CCW-SA-2D-827-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676316
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

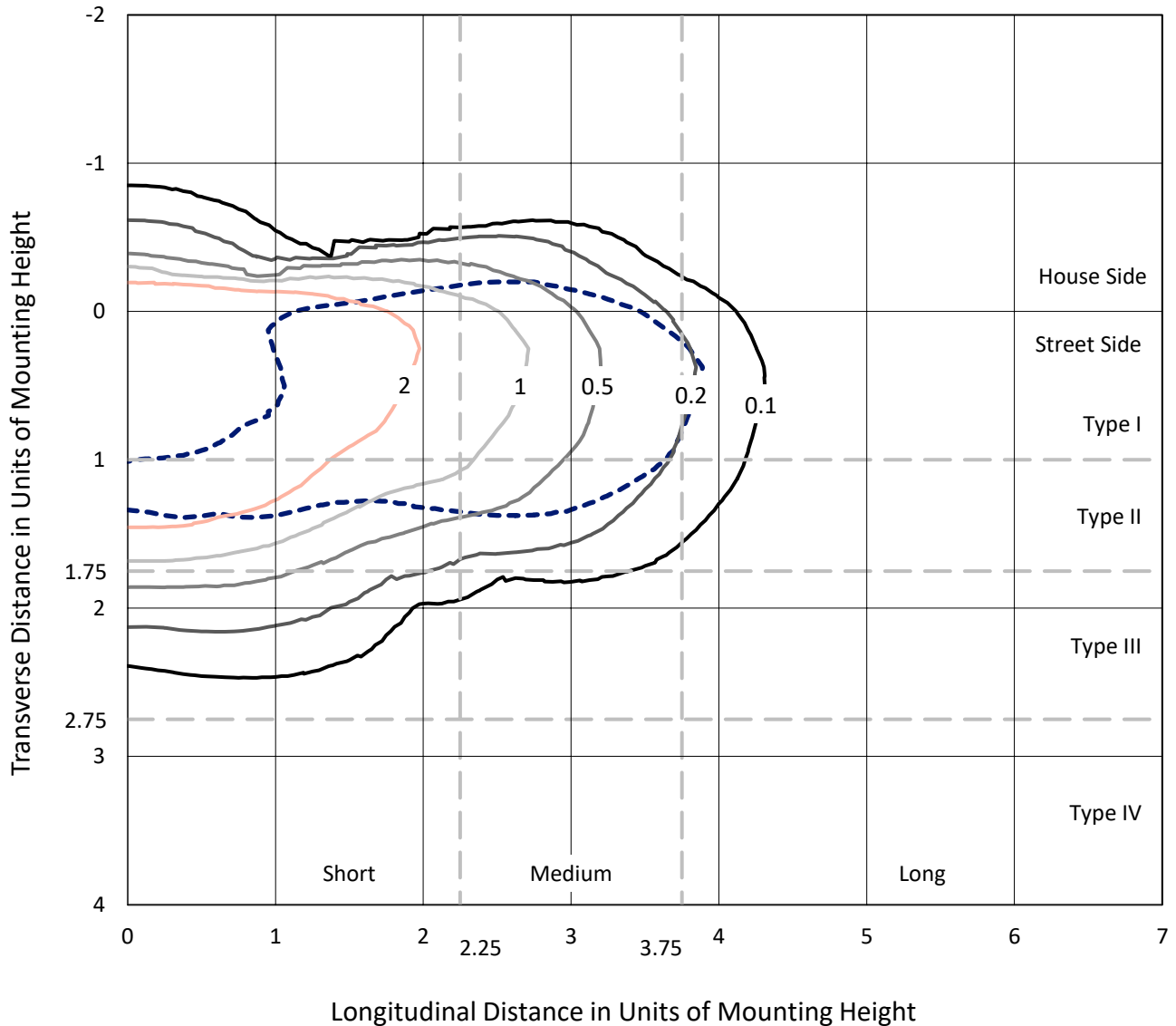
Lumens per Lamp: N/A
Luminaire Lumens: 6329.5 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

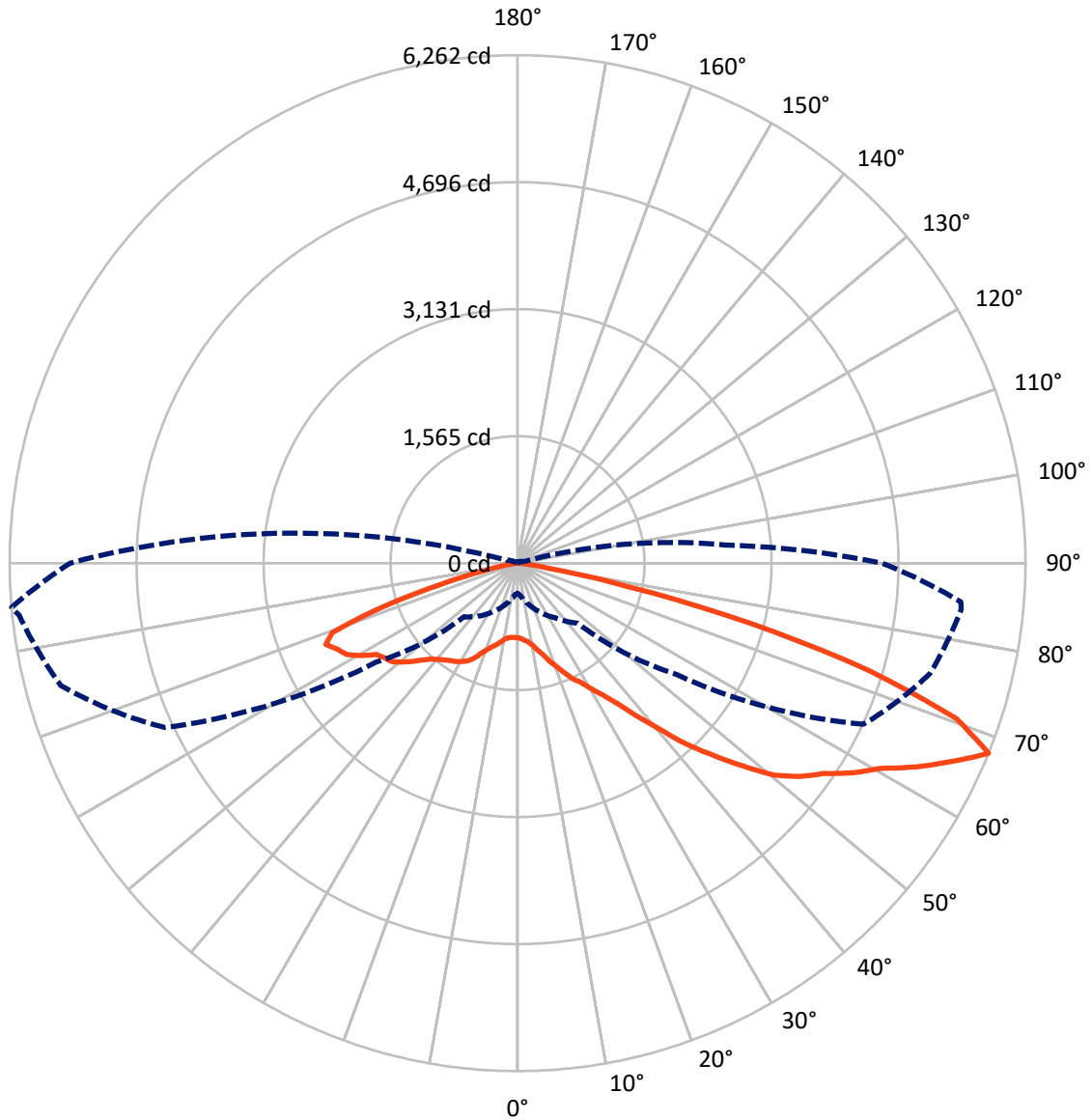
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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	899.2	0.0	899.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5430.3	0.0	5430.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	6329.5	0.0	6329.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.3
10°-20°	225.7	3.6
20°-30°	374.8	5.9
30°-40°	644.8	10.2
40°-50°	1158.7	18.3
50°-60°	1649.6	26.1
60°-70°	1503.9	23.8
70°-80°	640.4	10.1
80°-90°	47.7	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°	6329.5	100.0
0°-180°	6329.5	100.0



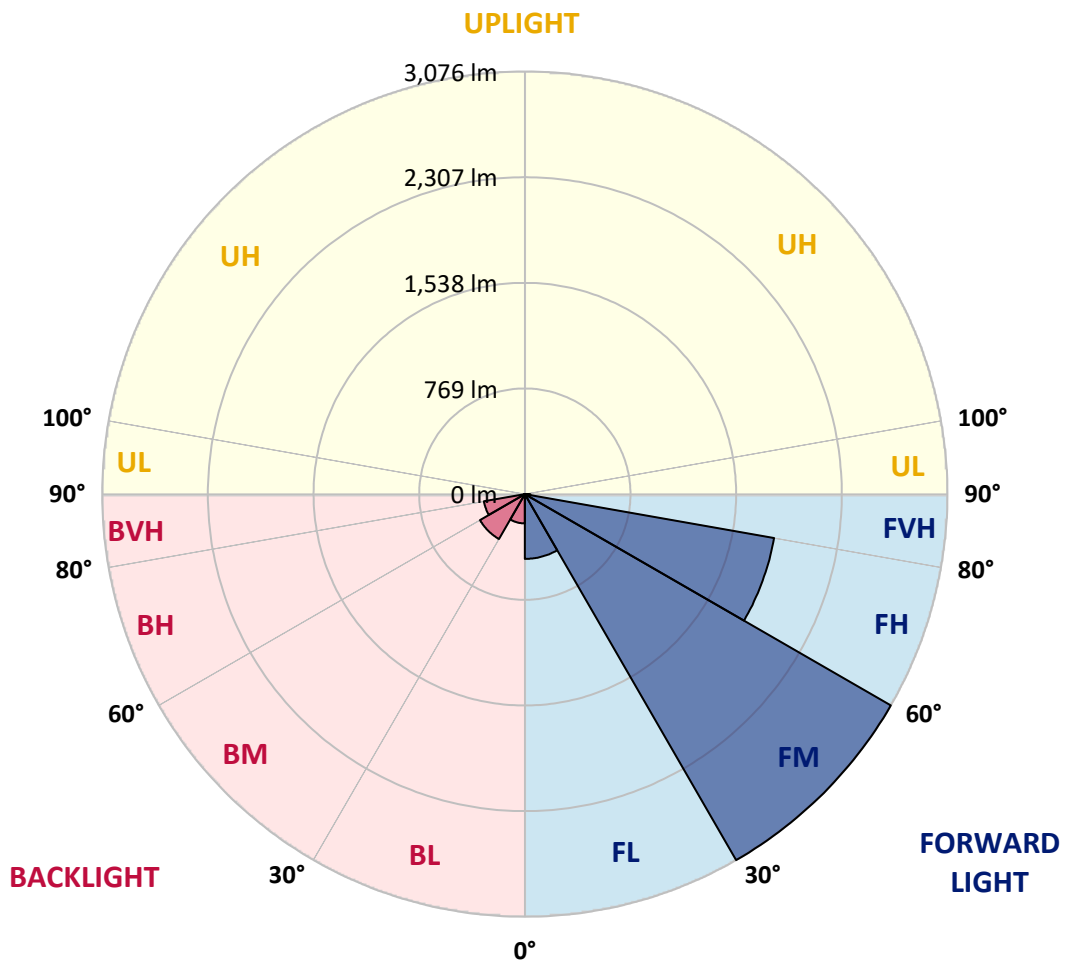
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.5	7.4			
FM (30°-60°)	3076.1	48.6			
FH (60°-80°)	1842.1	29.1			G2/5000
FVH (80°-90°)	40.5	0.6			G1/100
BL (0°-30°)	212.9	3.4	B1/500		
BM (30°-60°)	377.0	6.0	B1/1000		
BH (60°-80°)	302.2	4.8	B1/500		G1/500
BVH (80°-90°)	7.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4
2.5°	953.6	962.6	962.6	959.6	950.6	944.5	941.5	935.5	929.5	929.5	932.5
5°	962.6	953.6	965.7	950.6	950.6	950.6	962.6	956.6	953.6	938.5	938.5
7.5°	962.6	953.6	953.6	962.6	953.6	959.6	974.7	968.7	980.8	953.6	959.6
10°	935.5	932.5	938.5	950.6	953.6	965.7	980.8	1010.9	1013.9	995.8	992.8
12.5°	881.2	878.2	899.3	905.3	941.5	971.7	1017.0	1041.1	1068.3	1059.2	1041.1
15°	841.9	848.0	863.1	887.2	920.4	974.7	1026.0	1080.3	1128.6	1116.6	1110.5
17.5°	857.0	854.0	857.0	872.1	914.4	968.7	1056.2	1119.6	1189.0	1189.0	1195.0
20°	902.3	911.3	908.3	899.3	920.4	965.7	1056.2	1167.9	1282.5	1273.5	1273.5
22.5°	980.8	983.8	965.7	959.6	956.6	983.8	1074.3	1228.2	1361.0	1379.1	1373.1
25°	1062.2	1065.2	1059.2	1041.1	1017.0	1023.0	1107.5	1276.5	1469.6	1499.8	1493.8
27.5°	1198.0	1195.0	1179.9	1158.8	1122.6	1095.4	1158.8	1312.7	1554.1	1605.4	1590.3
30°	1333.8	1324.8	1303.6	1276.5	1243.3	1192.0	1222.2	1382.1	1659.7	1708.0	1674.8
32.5°	1499.8	1481.7	1487.7	1445.5	1376.1	1294.6	1288.6	1445.5	1744.2	1813.6	1786.5
35°	1711.0	1689.9	1659.7	1620.5	1554.1	1445.5	1412.3	1548.1	1886.1	1937.4	1937.4
37.5°	1988.7	2009.8	1973.6	1810.6	1738.2	1635.6	1566.2	1653.7	2009.8	2133.5	2103.3
40°	2272.3	2290.4	2224.0	2103.3	1946.4	1819.7	1777.4	1825.7	2196.9	2344.8	2287.4
42.5°	2501.7	2525.8	2501.7	2344.8	2221.0	2058.1	1982.6	2027.9	2438.3	2616.3	2540.9
45°	2743.1	2767.2	2740.1	2637.5	2516.8	2423.2	2233.1	2290.4	2691.8	2957.4	2872.9
47.5°	2924.2	2954.3	2906.0	2884.9	2788.4	2773.3	2450.4	2513.7	2957.4	3301.4	3195.7
50°	2966.4	2999.6	3041.8	3066.0	3032.8	3069.0	2743.1	2797.4	3235.0	3618.2	3515.6
52.5°	2866.8	2900.0	2993.6	3105.2	3259.1	3367.8	3038.8	3084.1	3524.7	3880.8	3826.4
55°	2574.1	2604.3	2794.4	2945.3	3313.4	3491.5	3322.5	3512.6	3732.9	4155.4	4022.6
57.5°	2082.2	2118.4	2368.9	2601.3	3132.4	3422.1	3491.5	3868.7	4076.9	4357.6	4203.7
60°	1478.7	1499.8	1717.1	2127.5	2631.4	3075.0	3458.3	4134.3	4348.5	4629.2	4547.7
62.5°	851.0	869.1	1095.4	1481.7	1985.6	2568.1	3310.4	4384.7	4641.2	4927.9	4882.6
65°	564.3	570.3	724.2	935.5	1291.6	1892.1	2936.2	4608.0	4930.9	5166.3	5115.0
67.5°	371.2	404.4	525.1	669.9	826.9	1047.1	2393.0	4701.6	5262.9	5498.3	5486.2
70°	265.6	277.6	377.2	516.0	621.6	588.5	1400.2	4040.7	5247.8	5588.8	5489.2
72.5°	156.9	169.0	250.5	386.3	488.9	374.2	654.8	2857.8	4348.5	4460.2	4433.0
75°	114.7	114.7	153.9	277.6	356.1	268.6	307.8	1807.6	2887.9	3135.4	3132.4
77.5°	81.5	84.5	105.6	166.0	274.6	196.2	169.0	1004.9	1578.3	1726.1	1644.6
80°	48.3	51.3	72.4	99.6	199.2	141.8	111.7	458.7	606.6	612.6	582.4
82.5°	36.2	36.2	48.3	69.4	138.8	96.6	69.4	175.0	196.2	178.0	150.9
85°	21.1	18.1	36.2	51.3	81.5	54.3	48.3	81.5	90.5	66.4	60.4
87.5°	6.0	6.0	15.1	18.1	36.2	30.2	21.1	30.2	42.2	24.1	18.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4
2.5°	926.4	917.4	902.3	896.3	875.1	866.1	860.0	845.0	848.0	838.9	838.9
5°	917.4	917.4	887.2	854.0	820.8	799.7	775.6	745.4	745.4	733.3	736.3
7.5°	950.6	926.4	887.2	826.9	772.5	724.2	703.1	672.9	654.8	645.8	645.8
10°	971.7	947.6	881.2	808.7	739.3	679.0	633.7	591.5	567.3	567.3	564.3
12.5°	1029.0	992.8	905.3	805.7	703.1	612.6	543.2	494.9	461.7	437.6	443.6
15°	1077.3	1038.1	917.4	781.6	639.8	513.0	428.5	338.0	292.7	268.6	259.5
17.5°	1152.8	1080.3	944.5	739.3	543.2	401.4	277.6	202.2	184.1	181.1	181.1
20°	1216.1	1131.6	947.6	657.9	446.6	256.5	178.0	166.0	156.9	153.9	150.9
22.5°	1303.6	1198.0	935.5	564.3	319.9	172.0	150.9	138.8	132.8	123.7	123.7
25°	1394.2	1285.5	911.3	476.8	196.2	147.9	132.8	120.7	108.6	102.6	105.6
27.5°	1490.7	1351.9	841.9	371.2	150.9	129.8	108.6	99.6	93.5	90.5	90.5
30°	1569.2	1394.2	739.3	247.5	135.8	114.7	96.6	87.5	81.5	78.5	78.5
32.5°	1626.5	1430.4	624.7	166.0	123.7	102.6	87.5	78.5	72.4	69.4	69.4
35°	1723.1	1457.6	519.0	141.8	111.7	90.5	75.4	69.4	63.4	63.4	63.4
37.5°	1871.0	1493.8	413.4	129.8	102.6	81.5	72.4	63.4	60.4	57.3	57.3
40°	2000.7	1539.0	295.7	117.7	93.5	75.4	63.4	57.3	54.3	51.3	51.3
42.5°	2187.8	1590.3	193.1	105.6	84.5	69.4	57.3	51.3	48.3	45.3	45.3
45°	2426.2	1674.8	150.9	93.5	75.4	63.4	54.3	48.3	42.2	42.2	39.2
47.5°	2679.7	1777.4	135.8	87.5	69.4	57.3	48.3	42.2	39.2	36.2	36.2
50°	2915.1	1877.0	126.7	81.5	63.4	54.3	45.3	39.2	33.2	30.2	30.2
52.5°	3126.3	1970.6	120.7	75.4	60.4	48.3	39.2	33.2	30.2	27.2	27.2
55°	3238.0	2012.8	117.7	72.4	54.3	45.3	36.2	30.2	27.2	24.1	24.1
57.5°	3413.0	2067.1	114.7	69.4	51.3	39.2	33.2	27.2	24.1	21.1	21.1
60°	3696.7	2245.2	111.7	66.4	48.3	39.2	30.2	24.1	18.1	15.1	15.1
62.5°	3932.1	2393.0	99.6	57.3	42.2	33.2	24.1	18.1	12.1	9.1	9.1
65°	4200.6	2462.4	87.5	51.3	36.2	27.2	18.1	12.1	9.1	3.0	3.0
67.5°	4493.4	2568.1	72.4	45.3	33.2	21.1	15.1	9.1	3.0	0.0	0.0
70°	4339.5	2435.3	60.4	39.2	30.2	18.1	12.1	6.0	0.0	0.0	0.0
72.5°	3401.0	1744.2	48.3	36.2	27.2	18.1	12.1	3.0	0.0	0.0	0.0
75°	2272.3	986.8	42.2	30.2	21.1	15.1	9.1	3.0	0.0	0.0	0.0
77.5°	1234.2	443.6	36.2	27.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0
80°	401.4	175.0	30.2	24.1	18.1	12.1	9.1	3.0	0.0	0.0	0.0
82.5°	108.6	54.3	30.2	24.1	18.1	12.1	9.1	3.0	0.0	0.0	0.0
85°	45.3	36.2	30.2	24.1	18.1	12.1	9.1	3.0	0.0	0.0	0.0
87.5°	18.1	12.1	12.1	15.1	12.1	9.1	6.0	3.0	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°	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4
2.5°	841.9	848.0	851.0	851.0	866.1	881.2	899.3	914.4	914.4	923.4	932.5
5°	739.3	745.4	754.4	781.6	811.8	845.0	878.2	902.3	935.5	950.6	959.6
7.5°	654.8	660.9	685.0	712.2	754.4	811.8	869.1	923.4	956.6	971.7	983.8
10°	567.3	576.4	603.5	651.8	706.1	775.6	841.9	935.5	989.8	1020.0	1032.1
12.5°	440.6	464.7	500.9	552.2	621.6	727.3	851.0	947.6	1041.1	1077.3	1101.5
15°	277.6	298.8	356.1	437.6	531.1	654.8	826.9	965.7	1095.4	1131.6	1170.9
17.5°	178.0	181.1	199.2	286.7	407.4	564.3	790.6	992.8	1155.8	1207.1	1267.4
20°	150.9	156.9	159.9	172.0	271.6	464.7	715.2	1026.0	1228.2	1297.6	1354.9
22.5°	126.7	129.8	135.8	144.8	163.0	338.0	612.6	1026.0	1291.6	1394.2	1460.6
25°	102.6	108.6	114.7	123.7	141.8	211.2	507.0	1007.9	1367.0	1493.8	1578.3
27.5°	90.5	90.5	96.6	105.6	120.7	147.9	401.4	953.6	1424.4	1554.1	1665.8
30°	78.5	81.5	84.5	93.5	108.6	129.8	277.6	866.1	1484.7	1671.8	1798.6
32.5°	69.4	69.4	75.4	81.5	96.6	117.7	178.0	733.3	1563.2	1762.3	1940.4
35°	63.4	63.4	66.4	72.4	87.5	105.6	138.8	621.6	1656.7	1934.3	2130.5
37.5°	57.3	57.3	60.4	66.4	78.5	93.5	126.7	534.1	1753.3	2106.4	2393.0
40°	51.3	51.3	54.3	60.4	69.4	84.5	114.7	431.5	1874.0	2359.8	2679.7
42.5°	45.3	45.3	48.3	54.3	63.4	75.4	99.6	322.9	2033.9	2634.5	3050.9
45°	39.2	39.2	42.2	48.3	54.3	69.4	90.5	247.5	2209.0	2939.2	3376.8
47.5°	33.2	36.2	39.2	45.3	51.3	63.4	81.5	217.3	2381.0	3262.1	3738.9
50°	30.2	30.2	33.2	39.2	48.3	57.3	75.4	214.3	2556.0	3509.6	4110.1
52.5°	27.2	27.2	30.2	36.2	45.3	54.3	72.4	220.3	2700.8	3738.9	4369.6
55°	24.1	24.1	27.2	30.2	39.2	51.3	66.4	226.3	2803.4	3971.3	4577.9
57.5°	21.1	21.1	24.1	30.2	36.2	45.3	60.4	232.4	2969.4	4200.6	4879.6
60°	15.1	15.1	21.1	27.2	33.2	39.2	57.3	238.4	3235.0	4517.5	5136.1
62.5°	9.1	9.1	12.1	21.1	27.2	36.2	51.3	226.3	3482.4	4924.9	5528.4
65°	3.0	6.0	9.1	12.1	21.1	30.2	42.2	205.2	3690.7	5332.3	5890.6
67.5°	0.0	0.0	3.0	9.1	18.1	24.1	36.2	150.9	3723.8	5516.4	6261.7
70°	0.0	0.0	3.0	9.1	15.1	24.1	33.2	84.5	3171.6	4927.9	5739.7
72.5°	0.0	0.0	0.0	6.0	15.1	21.1	30.2	63.4	2338.7	3714.8	4535.6
75°	0.0	0.0	0.0	3.0	12.1	18.1	27.2	48.3	1421.3	2477.5	2960.4
77.5°	0.0	0.0	0.0	3.0	9.1	18.1	27.2	42.2	500.9	1179.9	1391.2
80°	0.0	0.0	0.0	6.0	12.1	18.1	24.1	36.2	120.7	295.7	398.3
82.5°	0.0	0.0	0.0	3.0	9.1	15.1	21.1	30.2	48.3	87.5	138.8
85°	0.0	0.0	0.0	3.0	6.0	15.1	21.1	27.2	33.2	42.2	60.4
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	9.1	12.1	12.1	12.1	21.1
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°	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4	920.4
2.5°	929.5	941.5	947.6	959.6	965.7	962.6	959.6	968.7	962.6	953.6
5°	962.6	962.6	971.7	974.7	974.7	965.7	971.7	968.7	962.6	962.6
7.5°	998.9	1013.9	1013.9	995.8	992.8	986.8	986.8	962.6	953.6	962.6
10°	1035.1	1047.1	1050.2	1029.0	1001.9	989.8	974.7	944.5	929.5	935.5
12.5°	1110.5	1110.5	1077.3	1053.2	1017.0	974.7	938.5	896.3	875.1	881.2
15°	1164.8	1176.9	1131.6	1077.3	1013.9	935.5	896.3	863.1	851.0	841.9
17.5°	1270.5	1246.3	1173.9	1095.4	1004.9	923.4	896.3	866.1	857.0	857.0
20°	1361.0	1348.9	1240.3	1098.4	1001.9	947.6	929.5	914.4	911.3	902.3
22.5°	1484.7	1430.4	1291.6	1131.6	1035.1	986.8	980.8	995.8	986.8	980.8
25°	1578.3	1533.0	1330.8	1179.9	1086.4	1071.3	1080.3	1095.4	1071.3	1062.2
27.5°	1705.0	1620.5	1406.3	1243.3	1155.8	1170.9	1201.0	1204.1	1189.0	1198.0
30°	1822.7	1732.2	1463.6	1315.7	1273.5	1288.6	1333.8	1367.0	1345.9	1333.8
32.5°	1991.7	1852.9	1578.3	1436.4	1421.3	1460.6	1511.9	1533.0	1505.8	1499.8
35°	2169.7	1991.7	1696.0	1572.2	1599.4	1653.7	1699.0	1735.2	1692.9	1711.0
37.5°	2447.4	2215.0	1895.1	1786.5	1798.6	1819.7	1904.2	2003.8	2024.9	1988.7
40°	2737.1	2456.4	2079.2	1994.7	2021.9	2079.2	2178.8	2272.3	2320.6	2272.3
42.5°	3072.0	2688.8	2362.9	2263.3	2290.4	2371.9	2504.7	2580.1	2574.1	2501.7
45°	3485.4	3011.7	2628.4	2504.7	2604.3	2676.7	2809.5	2818.5	2761.2	2743.1
47.5°	3802.3	3283.3	2915.1	2836.6	2972.4	2975.5	3005.6	3008.7	2945.3	2924.2
50°	4152.4	3597.1	3235.0	3120.3	3349.7	3244.0	3162.6	3108.2	3011.7	2966.4
52.5°	4496.4	3820.4	3530.7	3413.0	3651.4	3370.8	3222.9	3056.9	2915.1	2866.8
55°	4680.5	4188.6	3962.2	3687.6	3717.8	3407.0	3035.8	2827.6	2586.2	2574.1
57.5°	4897.7	4436.0	4327.4	3874.7	3606.2	3153.5	2646.5	2371.9	2112.4	2082.2
60°	5154.2	4828.3	4713.7	3844.6	3210.8	2649.5	2097.3	1744.2	1499.8	1478.7
62.5°	5440.9	5293.1	4952.1	3548.8	2550.0	1864.9	1385.1	1089.4	863.1	851.0
65°	5893.6	5682.3	5078.8	2987.5	1686.9	1195.0	920.4	706.1	570.3	564.3
67.5°	6177.2	5830.2	4795.1	2130.5	935.5	790.6	645.8	513.0	395.3	371.2
70°	5775.9	5350.4	3793.3	1219.2	543.2	600.5	497.9	344.0	271.6	265.6
72.5°	4614.1	3971.3	2553.0	573.4	338.0	470.8	362.1	232.4	163.0	156.9
75°	3147.5	2498.7	1602.4	265.6	238.4	344.0	265.6	135.8	114.7	114.7
77.5°	1406.3	1273.5	820.8	163.0	178.0	262.5	153.9	93.5	84.5	81.5
80°	428.5	449.6	335.0	111.7	132.8	199.2	93.5	63.4	51.3	48.3
82.5°	144.8	169.0	150.9	66.4	90.5	141.8	63.4	42.2	36.2	36.2
85°	69.4	84.5	75.4	42.2	48.3	69.4	51.3	33.2	21.1	21.1
87.5°	27.2	39.2	27.2	18.1	27.2	36.2	21.1	15.1	6.0	6.0
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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