

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: P676337

Luminaire Tested: **CCW-SA-2C-835-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676337
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-835-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

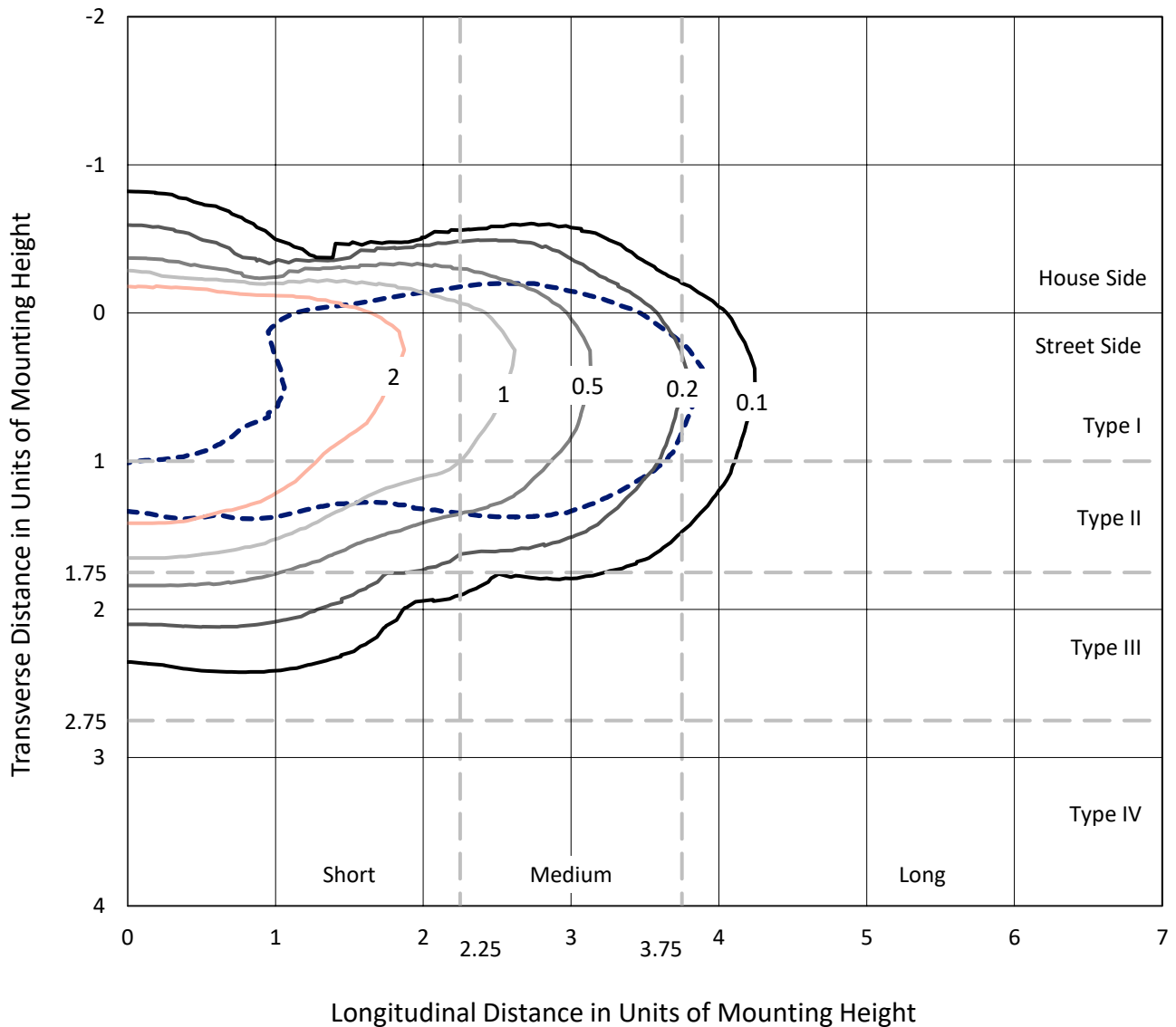
Lumens per Lamp: N/A
Luminaire Lumens: 5751.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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

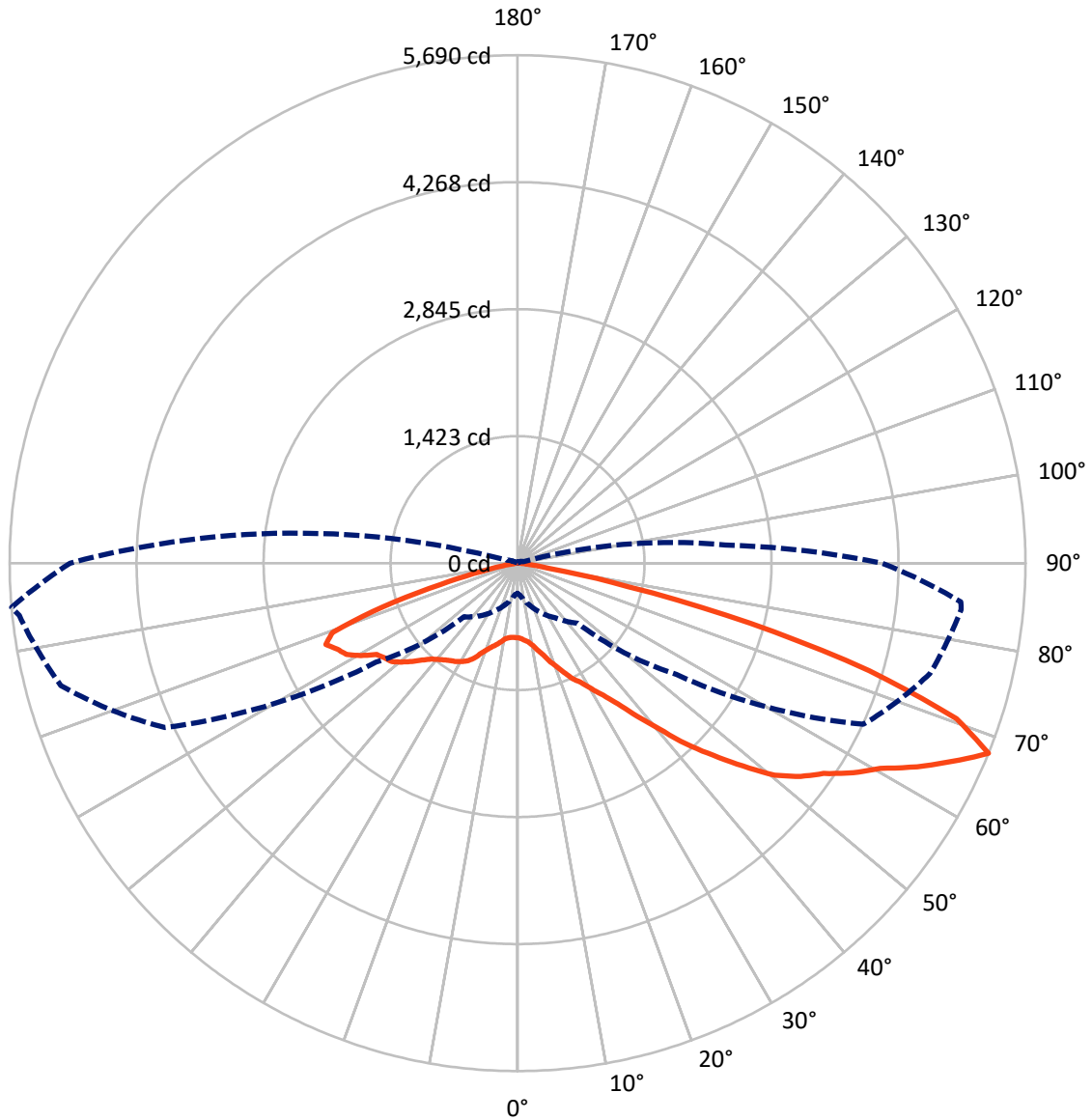
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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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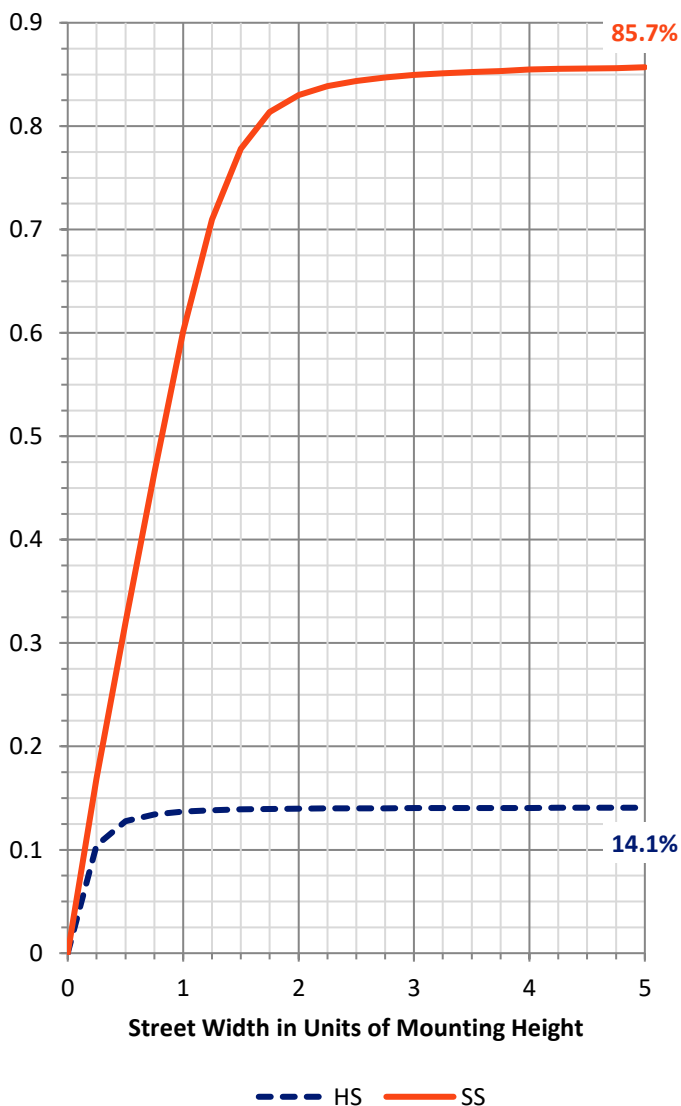
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.1	0.0	817.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4934.7	0.0	4934.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	5751.9	0.0	5751.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.3
10°-20°	205.1	3.6
20°-30°	340.6	5.9
30°-40°	586.0	10.2
40°-50°	1053.0	18.3
50°-60°	1499.0	26.1
60°-70°	1366.6	23.8
70°-80°	581.9	10.1
80°-90°	43.3	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°	5751.9	100.0
0°-180°	5751.9	100.0



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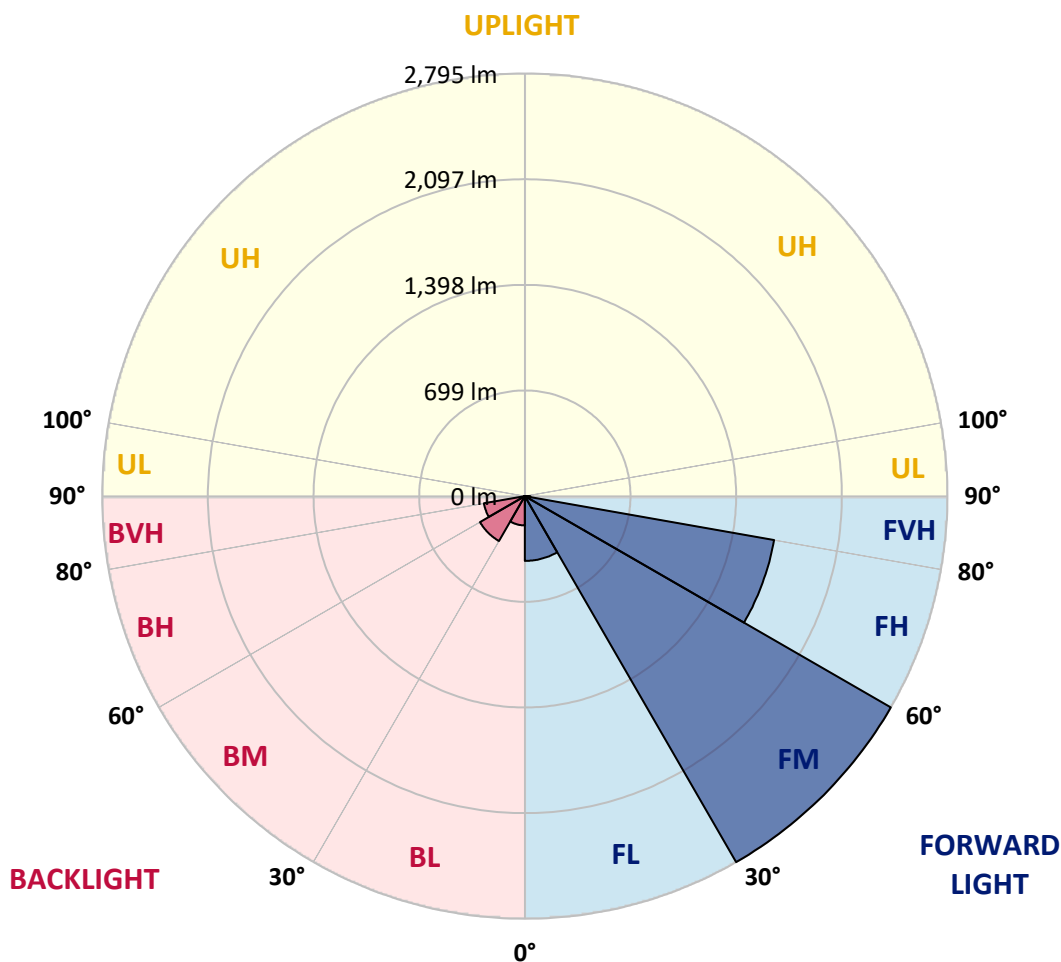
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.5	7.4			
FM (30°-60°)	2795.4	48.6			
FH (60°-80°)	1674.0	29.1			G1/1800
FVH (80°-90°)	36.8	0.6			G1/100
BL (0°-30°)	193.4	3.4	B1/500		
BM (30°-60°)	342.6	6.0	B1/1000		
BH (60°-80°)	274.6	4.8	B1/500		G1/500
BVH (80°-90°)	6.5	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°	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
2.5°	866.6	874.8	874.8	872.1	863.8	858.3	855.6	850.1	844.6	844.6	847.4
5°	874.8	866.6	877.5	863.8	863.8	863.8	874.8	869.3	866.6	852.9	852.9
7.5°	874.8	866.6	866.6	874.8	866.6	872.1	885.8	880.3	891.2	866.6	872.1
10°	850.1	847.4	852.9	863.8	866.6	877.5	891.2	918.7	921.4	905.0	902.2
12.5°	800.8	798.0	817.2	822.7	855.6	883.0	924.2	946.1	970.8	962.5	946.1
15°	765.1	770.6	784.3	806.2	836.4	885.8	932.4	981.7	1025.6	1014.7	1009.2
17.5°	778.8	776.1	778.8	792.5	830.9	880.3	959.8	1017.4	1080.5	1080.5	1086.0
20°	819.9	828.2	825.4	817.2	836.4	877.5	959.8	1061.3	1165.5	1157.3	1157.3
22.5°	891.2	894.0	877.5	872.1	869.3	894.0	976.3	1116.1	1236.8	1253.2	1247.7
25°	965.3	968.0	962.5	946.1	924.2	929.6	1006.4	1160.0	1335.5	1362.9	1357.4
27.5°	1088.7	1086.0	1072.2	1053.0	1020.1	995.5	1053.0	1192.9	1412.3	1458.9	1445.2
30°	1212.1	1203.9	1184.7	1160.0	1129.8	1083.2	1110.6	1256.0	1508.3	1552.1	1522.0
32.5°	1362.9	1346.5	1352.0	1313.6	1250.5	1176.4	1171.0	1313.6	1585.1	1648.1	1623.4
35°	1554.9	1535.7	1508.3	1472.6	1412.3	1313.6	1283.4	1406.8	1713.9	1760.6	1760.6
37.5°	1807.2	1826.4	1793.5	1645.4	1579.6	1486.3	1423.3	1502.8	1826.4	1938.8	1911.4
40°	2065.0	2081.4	2021.1	1911.4	1768.8	1653.6	1615.2	1659.1	1996.4	2130.8	2078.7
42.5°	2273.4	2295.3	2273.4	2130.8	2018.3	1870.3	1801.7	1842.8	2215.8	2377.6	2309.0
45°	2492.8	2514.7	2490.0	2396.8	2287.1	2202.1	2029.3	2081.4	2446.1	2687.5	2610.7
47.5°	2657.3	2684.7	2640.8	2621.6	2533.9	2520.2	2226.8	2284.3	2687.5	3000.1	2904.1
50°	2695.7	2725.9	2764.2	2786.2	2756.0	2788.9	2492.8	2542.1	2939.8	3288.0	3194.8
52.5°	2605.2	2635.4	2720.4	2821.8	2961.7	3060.4	2761.5	2802.6	3203.0	3526.6	3477.2
55°	2339.2	2366.6	2539.4	2676.5	3011.1	3172.8	3019.3	3192.0	3392.2	3776.2	3655.5
57.5°	1892.2	1925.1	2152.7	2363.9	2846.5	3109.8	3172.8	3515.6	3704.9	3959.9	3820.0
60°	1343.7	1362.9	1560.4	1933.3	2391.3	2794.4	3142.7	3757.0	3951.7	4206.7	4132.7
62.5°	773.3	789.8	995.5	1346.5	1804.4	2333.7	3008.3	3984.6	4217.7	4478.2	4437.1
65°	512.8	518.3	658.2	850.1	1173.7	1719.4	2668.3	4187.5	4480.9	4694.8	4648.2
67.5°	337.3	367.5	477.2	608.8	751.4	951.6	2174.6	4272.5	4782.6	4996.5	4985.5
70°	241.3	252.3	342.8	468.9	564.9	534.7	1272.4	3671.9	4768.9	5078.8	4988.3
72.5°	142.6	153.6	227.6	351.0	444.3	340.0	595.1	2597.0	3951.7	4053.1	4028.4
75°	104.2	104.2	139.9	252.3	323.6	244.1	279.7	1642.6	2624.4	2849.3	2846.5
77.5°	74.0	76.8	96.0	150.8	249.5	178.2	153.6	913.2	1434.2	1568.6	1494.6
80°	43.9	46.6	65.8	90.5	181.0	128.9	101.5	416.8	551.2	556.7	529.3
82.5°	32.9	32.9	43.9	63.1	126.1	87.8	63.1	159.1	178.2	161.8	137.1
85°	19.2	16.5	32.9	46.6	74.0	49.4	43.9	74.0	82.3	60.3	54.8
87.5°	5.5	5.5	13.7	16.5	32.9	27.4	19.2	27.4	38.4	21.9	16.5
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°	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
2.5°	841.9	833.7	819.9	814.5	795.3	787.0	781.6	767.8	770.6	762.4	762.4
5°	833.7	833.7	806.2	776.1	745.9	726.7	704.8	677.3	677.3	666.4	669.1
7.5°	863.8	841.9	806.2	751.4	702.0	658.2	639.0	611.5	595.1	586.9	586.9
10°	883.0	861.1	800.8	734.9	671.9	617.0	575.9	537.5	515.6	515.6	512.8
12.5°	935.1	902.2	822.7	732.2	639.0	556.7	493.6	449.7	419.6	397.6	403.1
15°	979.0	943.4	833.7	710.3	581.4	466.2	389.4	307.1	266.0	244.1	235.8
17.5°	1047.6	981.7	858.3	671.9	493.6	364.7	252.3	183.7	167.3	164.5	164.5
20°	1105.1	1028.4	861.1	597.8	405.9	233.1	161.8	150.8	142.6	139.9	137.1
22.5°	1184.7	1088.7	850.1	512.8	290.7	156.3	137.1	126.1	120.7	112.4	112.4
25°	1266.9	1168.2	828.2	433.3	178.2	134.4	120.7	109.7	98.7	93.2	96.0
27.5°	1354.7	1228.6	765.1	337.3	137.1	117.9	98.7	90.5	85.0	82.3	82.3
30°	1426.0	1266.9	671.9	224.9	123.4	104.2	87.8	79.5	74.0	71.3	71.3
32.5°	1478.1	1299.9	567.7	150.8	112.4	93.2	79.5	71.3	65.8	63.1	63.1
35°	1565.9	1324.5	471.7	128.9	101.5	82.3	68.6	63.1	57.6	57.6	57.6
37.5°	1700.2	1357.4	375.7	117.9	93.2	74.0	65.8	57.6	54.8	52.1	52.1
40°	1818.1	1398.6	268.7	106.9	85.0	68.6	57.6	52.1	49.4	46.6	46.6
42.5°	1988.2	1445.2	175.5	96.0	76.8	63.1	52.1	46.6	43.9	41.1	41.1
45°	2204.8	1522.0	137.1	85.0	68.6	57.6	49.4	43.9	38.4	38.4	35.6
47.5°	2435.2	1615.2	123.4	79.5	63.1	52.1	43.9	38.4	35.6	32.9	32.9
50°	2649.1	1705.7	115.2	74.0	57.6	49.4	41.1	35.6	30.2	27.4	27.4
52.5°	2841.0	1790.7	109.7	68.6	54.8	43.9	35.6	30.2	27.4	24.7	24.7
55°	2942.5	1829.1	106.9	65.8	49.4	41.1	32.9	27.4	24.7	21.9	21.9
57.5°	3101.5	1878.5	104.2	63.1	46.6	35.6	30.2	24.7	21.9	19.2	19.2
60°	3359.3	2040.3	101.5	60.3	43.9	35.6	27.4	21.9	16.5	13.7	13.7
62.5°	3573.2	2174.6	90.5	52.1	38.4	30.2	21.9	16.5	11.0	8.2	8.2
65°	3817.3	2237.7	79.5	46.6	32.9	24.7	16.5	11.0	8.2	2.7	2.7
67.5°	4083.3	2333.7	65.8	41.1	30.2	19.2	13.7	8.2	2.7	0.0	0.0
70°	3943.4	2213.0	54.8	35.6	27.4	16.5	11.0	5.5	0.0	0.0	0.0
72.5°	3090.6	1585.1	43.9	32.9	24.7	16.5	11.0	2.7	0.0	0.0	0.0
75°	2065.0	896.7	38.4	27.4	19.2	13.7	8.2	2.7	0.0	0.0	0.0
77.5°	1121.6	403.1	32.9	24.7	16.5	11.0	8.2	2.7	0.0	0.0	0.0
80°	364.7	159.1	27.4	21.9	16.5	11.0	8.2	2.7	0.0	0.0	0.0
82.5°	98.7	49.4	27.4	21.9	16.5	11.0	8.2	2.7	0.0	0.0	0.0
85°	41.1	32.9	27.4	21.9	16.5	11.0	8.2	2.7	0.0	0.0	0.0
87.5°	16.5	11.0	11.0	13.7	11.0	8.2	5.5	2.7	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°	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
2.5°	765.1	770.6	773.3	773.3	787.0	800.8	817.2	830.9	830.9	839.1	847.4
5°	671.9	677.3	685.6	710.3	737.7	767.8	798.0	819.9	850.1	863.8	872.1
7.5°	595.1	600.6	622.5	647.2	685.6	737.7	789.8	839.1	869.3	883.0	894.0
10°	515.6	523.8	548.5	592.3	641.7	704.8	765.1	850.1	899.5	926.9	937.9
12.5°	400.4	422.3	455.2	501.8	564.9	660.9	773.3	861.1	946.1	979.0	1000.9
15°	252.3	271.5	323.6	397.6	482.6	595.1	751.4	877.5	995.5	1028.4	1064.0
17.5°	161.8	164.5	181.0	260.5	370.2	512.8	718.5	902.2	1050.3	1096.9	1151.8
20°	137.1	142.6	145.3	156.3	246.8	422.3	649.9	932.4	1116.1	1179.2	1231.3
22.5°	115.2	117.9	123.4	131.6	148.1	307.1	556.7	932.4	1173.7	1266.9	1327.3
25°	93.2	98.7	104.2	112.4	128.9	192.0	460.7	915.9	1242.3	1357.4	1434.2
27.5°	82.3	82.3	87.8	96.0	109.7	134.4	364.7	866.6	1294.4	1412.3	1513.8
30°	71.3	74.0	76.8	85.0	98.7	117.9	252.3	787.0	1349.2	1519.2	1634.4
32.5°	63.1	63.1	68.6	74.0	87.8	106.9	161.8	666.4	1420.5	1601.5	1763.3
35°	57.6	57.6	60.3	65.8	79.5	96.0	126.1	564.9	1505.5	1757.8	1936.1
37.5°	52.1	52.1	54.8	60.3	71.3	85.0	115.2	485.4	1593.3	1914.1	2174.6
40°	46.6	46.6	49.4	54.8	63.1	76.8	104.2	392.1	1703.0	2144.5	2435.2
42.5°	41.1	41.1	43.9	49.4	57.6	68.6	90.5	293.4	1848.3	2394.0	2772.5
45°	35.6	35.6	38.4	43.9	49.4	63.1	82.3	224.9	2007.4	2671.0	3068.6
47.5°	30.2	32.9	35.6	41.1	46.6	57.6	74.0	197.4	2163.7	2964.4	3397.7
50°	27.4	27.4	30.2	35.6	43.9	52.1	68.6	194.7	2322.7	3189.3	3735.0
52.5°	24.7	24.7	27.4	32.9	41.1	49.4	65.8	200.2	2454.4	3397.7	3970.9
55°	21.9	21.9	24.7	27.4	35.6	46.6	60.3	205.7	2547.6	3608.9	4160.1
57.5°	19.2	19.2	21.9	27.4	32.9	41.1	54.8	211.2	2698.4	3817.3	4434.3
60°	13.7	13.7	19.2	24.7	30.2	35.6	52.1	216.6	2939.8	4105.2	4667.4
62.5°	8.2	8.2	11.0	19.2	24.7	32.9	46.6	205.7	3164.6	4475.4	5023.9
65°	2.7	5.5	8.2	11.0	19.2	27.4	38.4	186.5	3353.8	4845.7	5353.0
67.5°	0.0	0.0	2.7	8.2	16.5	21.9	32.9	137.1	3384.0	5012.9	5690.3
70°	0.0	0.0	2.7	8.2	13.7	21.9	30.2	76.8	2882.2	4478.2	5215.9
72.5°	0.0	0.0	0.0	5.5	13.7	19.2	27.4	57.6	2125.3	3375.8	4121.7
75°	0.0	0.0	0.0	2.7	11.0	16.5	24.7	43.9	1291.6	2251.4	2690.2
77.5°	0.0	0.0	0.0	2.7	8.2	16.5	24.7	38.4	455.2	1072.2	1264.2
80°	0.0	0.0	0.0	5.5	11.0	16.5	21.9	32.9	109.7	268.7	362.0
82.5°	0.0	0.0	0.0	2.7	8.2	13.7	19.2	27.4	43.9	79.5	126.1
85°	0.0	0.0	0.0	2.7	5.5	13.7	19.2	24.7	30.2	38.4	54.8
87.5°	0.0	0.0	0.0	0.0	2.7	5.5	8.2	11.0	11.0	11.0	19.2
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°	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
2.5°	844.6	855.6	861.1	872.1	877.5	874.8	872.1	880.3	874.8	866.6
5°	874.8	874.8	883.0	885.8	885.8	877.5	883.0	880.3	874.8	874.8
7.5°	907.7	921.4	921.4	905.0	902.2	896.7	896.7	874.8	866.6	874.8
10°	940.6	951.6	954.3	935.1	910.4	899.5	885.8	858.3	844.6	850.1
12.5°	1009.2	1009.2	979.0	957.1	924.2	885.8	852.9	814.5	795.3	800.8
15°	1058.5	1069.5	1028.4	979.0	921.4	850.1	814.5	784.3	773.3	765.1
17.5°	1154.5	1132.6	1066.8	995.5	913.2	839.1	814.5	787.0	778.8	778.8
20°	1236.8	1225.8	1127.1	998.2	910.4	861.1	844.6	830.9	828.2	819.9
22.5°	1349.2	1299.9	1173.7	1028.4	940.6	896.7	891.2	905.0	896.7	891.2
25°	1434.2	1393.1	1209.4	1072.2	987.2	973.5	981.7	995.5	973.5	965.3
27.5°	1549.4	1472.6	1277.9	1129.8	1050.3	1064.0	1091.4	1094.2	1080.5	1088.7
30°	1656.4	1574.1	1330.0	1195.6	1157.3	1171.0	1212.1	1242.3	1223.1	1212.1
32.5°	1809.9	1683.8	1434.2	1305.3	1291.6	1327.3	1373.9	1393.1	1368.4	1362.9
35°	1971.7	1809.9	1541.2	1428.7	1453.4	1502.8	1543.9	1576.8	1538.4	1554.9
37.5°	2224.0	2012.9	1722.2	1623.4	1634.4	1653.6	1730.4	1820.9	1840.1	1807.2
40°	2487.3	2232.2	1889.4	1812.7	1837.3	1889.4	1979.9	2065.0	2108.8	2065.0
42.5°	2791.7	2443.4	2147.2	2056.7	2081.4	2155.5	2276.1	2344.7	2339.2	2273.4
45°	3167.4	2736.8	2388.5	2276.1	2366.6	2432.4	2553.1	2561.3	2509.2	2492.8
47.5°	3455.3	2983.6	2649.1	2577.8	2701.2	2703.9	2731.3	2734.1	2676.5	2657.3
50°	3773.4	3268.8	2939.8	2835.5	3044.0	2948.0	2873.9	2824.6	2736.8	2695.7
52.5°	4086.0	3471.8	3208.5	3101.5	3318.2	3063.2	2928.8	2778.0	2649.1	2605.2
55°	4253.3	3806.3	3600.6	3351.1	3378.5	3096.1	2758.8	2569.5	2350.2	2339.2
57.5°	4450.8	4031.2	3932.5	3521.1	3277.1	2865.7	2405.0	2155.5	1919.6	1892.2
60°	4683.9	4387.7	4283.5	3493.7	2917.8	2407.7	1905.9	1585.1	1362.9	1343.7
62.5°	4944.4	4810.0	4500.1	3225.0	2317.2	1694.7	1258.7	990.0	784.3	773.3
65°	5355.7	5163.8	4615.3	2714.9	1532.9	1086.0	836.4	641.7	518.3	512.8
67.5°	5613.5	5298.1	4357.5	1936.1	850.1	718.5	586.9	466.2	359.2	337.3
70°	5248.8	4862.1	3447.1	1107.9	493.6	545.7	452.5	312.6	246.8	241.3
72.5°	4193.0	3608.9	2320.0	521.0	307.1	427.8	329.1	211.2	148.1	142.6
75°	2860.2	2270.6	1456.2	241.3	216.6	312.6	241.3	123.4	104.2	104.2
77.5°	1277.9	1157.3	745.9	148.1	161.8	238.6	139.9	85.0	76.8	74.0
80°	389.4	408.6	304.4	101.5	120.7	181.0	85.0	57.6	46.6	43.9
82.5°	131.6	153.6	137.1	60.3	82.3	128.9	57.6	38.4	32.9	32.9
85°	63.1	76.8	68.6	38.4	43.9	63.1	46.6	30.2	19.2	19.2
87.5°	24.7	35.6	24.7	16.5	24.7	32.9	19.2	13.7	5.5	5.5
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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