

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: P676272

Luminaire Tested: **CCW-SA-2D-735-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676272  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-735-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) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

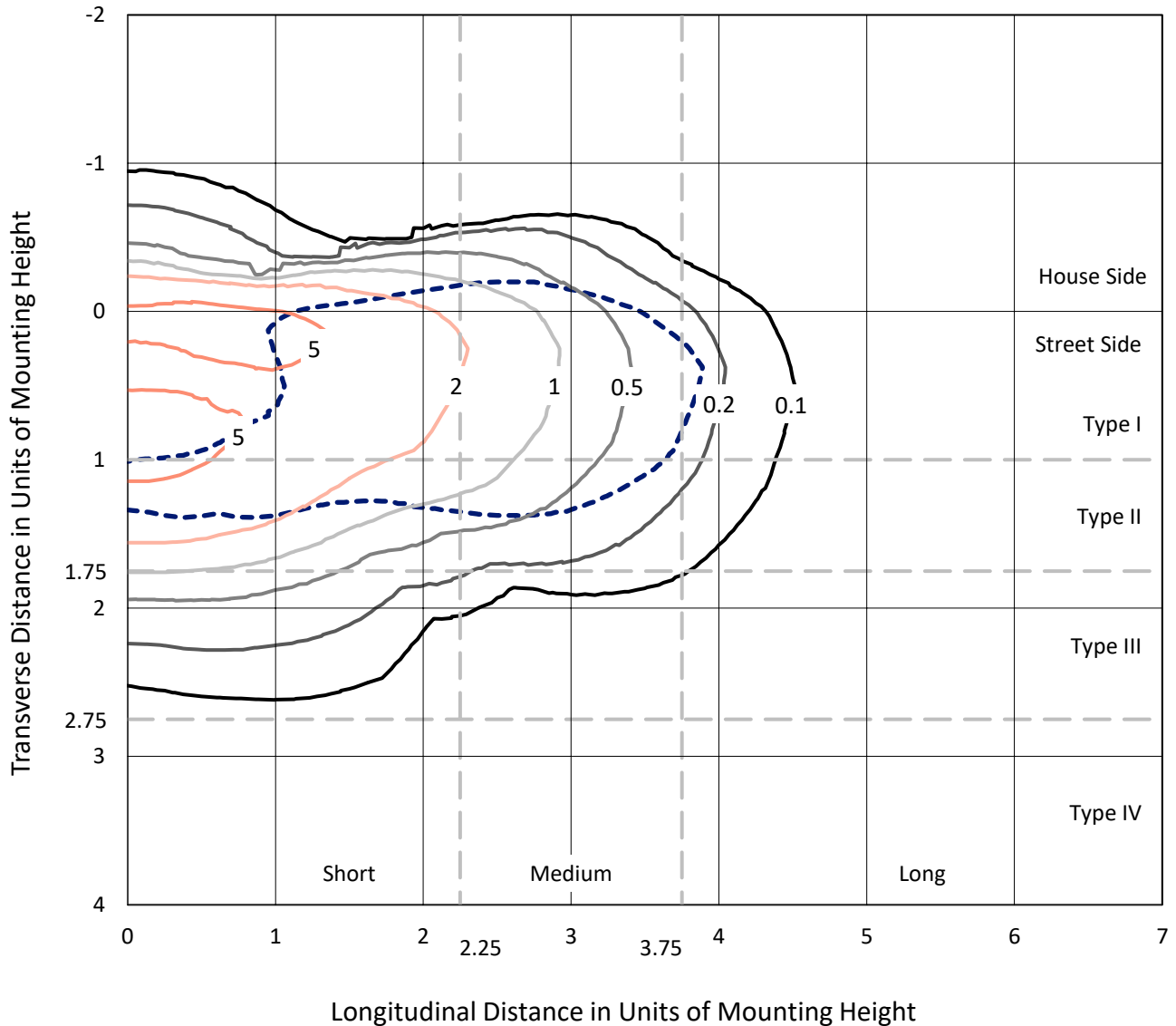
Lumens per Lamp: N/A  
Luminaire Lumens: 8492.4 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

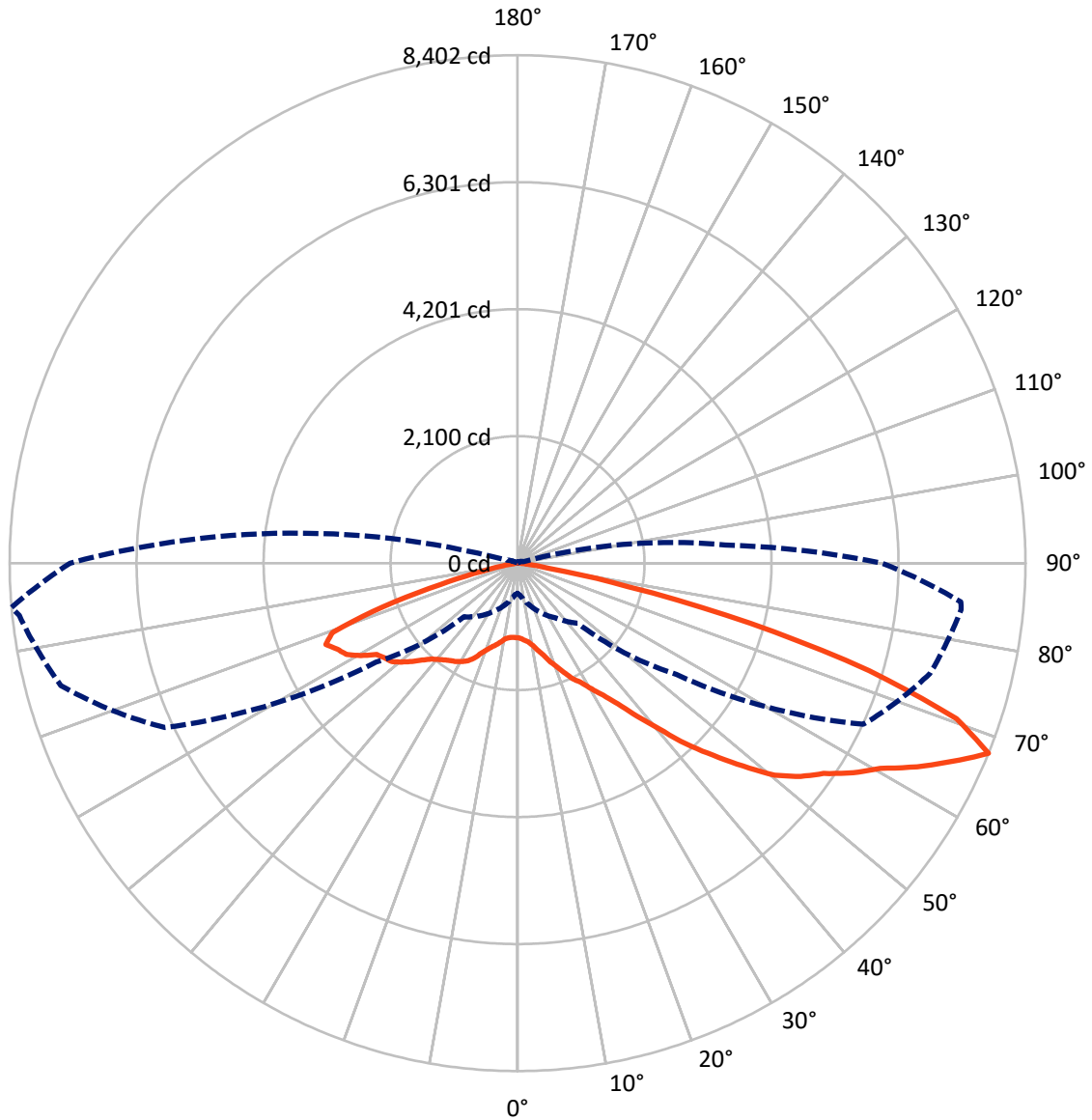
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	1206.5	0.0	1206.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	7285.9	0.0	7285.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	8492.4	0.0	8492.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	1.3
10°-20°	302.8	3.6
20°-30°	502.9	5.9
30°-40°	865.2	10.2
40°-50°	1554.7	18.3
50°-60°	2213.3	26.1
60°-70°	2017.8	23.8
70°-80°	859.2	10.1
80°-90°	64.0	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°	8492.4	100.0
0°-180°	8492.4	100.0



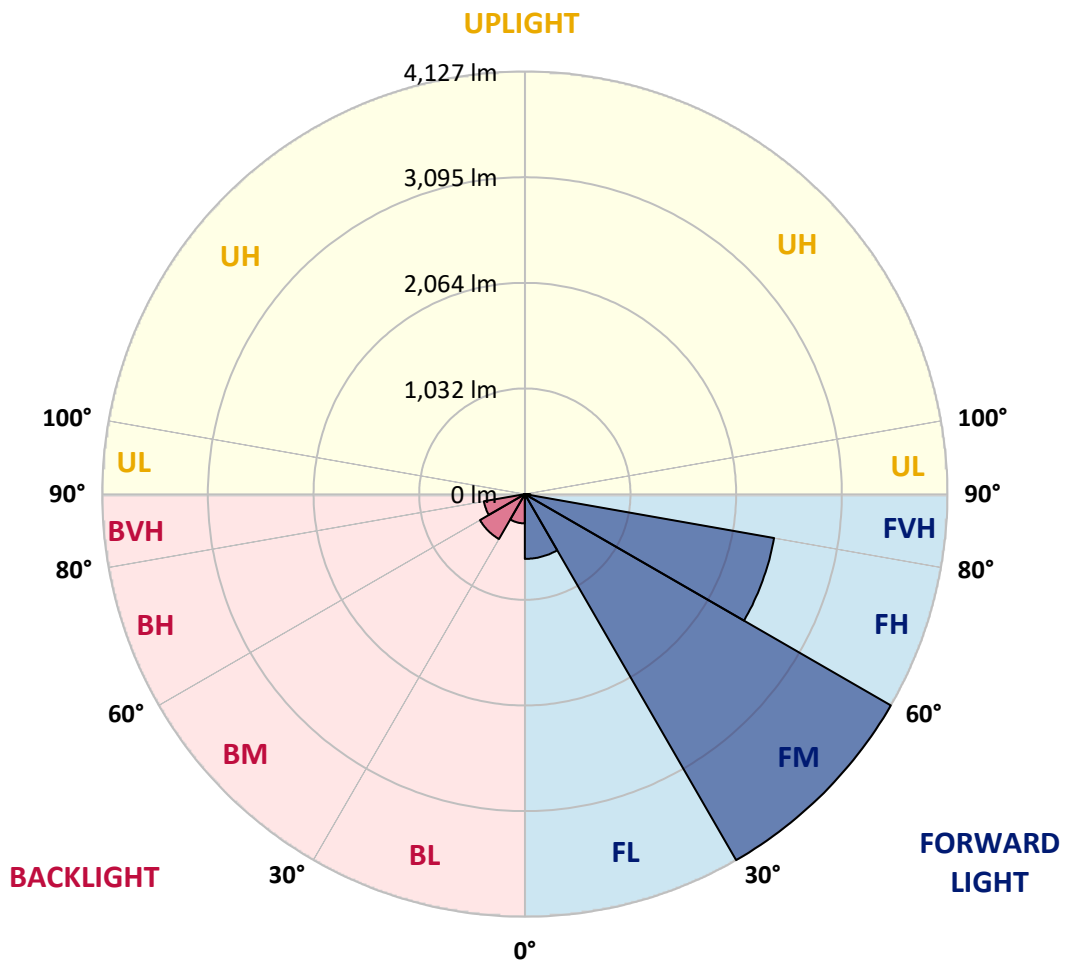
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.7	7.4			
FM (30°-60°)	4127.3	48.6			
FH (60°-80°)	2471.6	29.1			G2/5000
FVH (80°-90°)	54.3	0.6			G1/100
BL (0°-30°)	285.6	3.4	B1/500		
BM (30°-60°)	505.8	6.0	B1/1000		
BH (60°-80°)	405.4	4.8	B1/500		G1/500
BVH (80°-90°)	9.6	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°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1279.5	1291.6	1291.6	1287.6	1275.4	1267.3	1263.3	1255.2	1247.1	1247.1	1251.1
5°	1291.6	1279.5	1295.7	1275.4	1275.4	1275.4	1291.6	1283.5	1279.5	1259.2	1259.2
7.5°	1291.6	1279.5	1279.5	1291.6	1279.5	1287.6	1307.8	1299.7	1315.9	1279.5	1287.6
10°	1255.2	1251.1	1259.2	1275.4	1279.5	1295.7	1315.9	1356.4	1360.4	1336.1	1332.1
12.5°	1182.3	1178.2	1206.6	1214.7	1263.3	1303.8	1364.5	1396.9	1433.3	1421.2	1396.9
15°	1129.6	1137.7	1158.0	1190.4	1234.9	1307.8	1376.6	1449.5	1514.3	1498.1	1490.0
17.5°	1149.9	1145.8	1149.9	1170.1	1226.8	1299.7	1417.1	1502.1	1595.3	1595.3	1603.4
20°	1210.6	1222.8	1218.7	1206.6	1234.9	1295.7	1417.1	1566.9	1720.8	1708.6	1708.6
22.5°	1315.9	1319.9	1295.7	1287.6	1283.5	1319.9	1441.4	1647.9	1826.1	1850.4	1842.3
25°	1425.2	1429.3	1421.2	1396.9	1364.5	1372.6	1486.0	1712.7	1971.8	2012.3	2004.2
27.5°	1607.4	1603.4	1583.1	1554.8	1506.2	1469.8	1554.8	1761.3	2085.2	2154.0	2133.8
30°	1789.6	1777.5	1749.1	1712.7	1668.2	1599.3	1639.8	1854.4	2226.9	2291.7	2247.2
32.5°	2012.3	1988.0	1996.1	1939.4	1846.3	1737.0	1728.9	1939.4	2340.3	2433.4	2397.0
35°	2295.7	2267.4	2226.9	2174.3	2085.2	1939.4	1894.9	2077.1	2530.6	2599.4	2599.4
37.5°	2668.2	2696.6	2648.0	2429.4	2332.2	2194.5	2101.4	2218.8	2696.6	2862.6	2822.1
40°	3048.8	3073.1	2984.1	2822.1	2611.6	2441.5	2384.8	2449.6	2947.6	3146.0	3069.1
42.5°	3356.6	3388.9	3356.6	3146.0	2980.0	2761.4	2660.1	2720.9	3271.5	3510.4	3409.2
45°	3680.5	3712.9	3676.4	3538.8	3376.8	3251.3	2996.2	3073.1	3611.6	3967.9	3854.6
47.5°	3923.4	3963.9	3899.1	3870.8	3741.2	3721.0	3287.7	3372.8	3967.9	4429.5	4287.8
50°	3980.1	4024.6	4081.3	4113.7	4069.2	4117.8	3680.5	3753.4	4340.4	4854.7	4717.0
52.5°	3846.5	3891.0	4016.5	4166.3	4372.8	4518.6	4077.3	4138.0	4729.1	5206.9	5134.0
55°	3453.7	3494.2	3749.3	3951.7	4445.7	4684.6	4457.9	4712.9	5008.5	5575.4	5397.2
57.5°	2793.8	2842.3	3178.4	3490.2	4202.8	4591.5	4684.6	5190.7	5470.1	5846.6	5640.1
60°	1984.0	2012.3	2303.8	2854.5	3530.7	4125.9	4640.1	5547.0	5834.5	6211.0	6101.7
62.5°	1141.8	1166.1	1469.8	1988.0	2664.2	3445.6	4441.7	5883.1	6227.2	6611.9	6551.2
65°	757.1	765.2	971.7	1255.2	1732.9	2538.7	3939.6	6182.7	6615.9	6931.8	6862.9
67.5°	498.0	542.6	704.5	898.9	1109.4	1405.0	3210.8	6308.2	7061.3	7377.1	7360.9
70°	356.3	372.5	506.1	692.4	834.1	789.5	1878.7	5421.5	7041.1	7498.6	7365.0
72.5°	210.5	226.7	336.1	518.3	655.9	502.1	878.6	3834.3	5834.5	5984.3	5947.9
75°	153.9	153.9	206.5	372.5	477.8	360.4	413.0	2425.3	3874.8	4206.8	4202.8
77.5°	109.3	113.4	141.7	222.7	368.5	263.2	226.7	1348.3	2117.6	2316.0	2206.7
80°	64.8	68.8	97.2	133.6	267.2	190.3	149.8	615.4	813.8	821.9	781.4
82.5°	48.6	48.6	64.8	93.1	186.3	129.6	93.1	234.8	263.2	238.9	202.4
85°	28.3	24.3	48.6	68.8	109.3	72.9	64.8	109.3	121.5	89.1	81.0
87.5°	8.1	8.1	20.2	24.3	48.6	40.5	28.3	40.5	56.7	32.4	24.3
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°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1243.0	1230.9	1210.6	1202.5	1174.2	1162.0	1153.9	1133.7	1137.7	1125.6	1125.6
5°	1230.9	1230.9	1190.4	1145.8	1101.3	1073.0	1040.6	1000.1	1000.1	983.9	987.9
7.5°	1275.4	1243.0	1190.4	1109.4	1036.5	971.7	943.4	902.9	878.6	866.5	866.5
10°	1303.8	1271.4	1182.3	1085.1	992.0	911.0	850.3	793.6	761.2	761.2	757.1
12.5°	1380.7	1332.1	1214.7	1081.1	943.4	821.9	728.8	664.0	619.5	587.1	595.2
15°	1445.5	1392.8	1230.9	1048.7	858.4	688.3	574.9	453.5	392.7	360.4	348.2
17.5°	1546.7	1449.5	1267.3	992.0	728.8	538.5	372.5	271.3	247.0	242.9	242.9
20°	1631.7	1518.3	1271.4	882.7	599.2	344.2	238.9	222.7	210.5	206.5	202.4
22.5°	1749.1	1607.4	1255.2	757.1	429.2	230.8	202.4	186.3	178.2	166.0	166.0
25°	1870.6	1724.8	1222.8	639.7	263.2	198.4	178.2	162.0	145.8	137.7	141.7
27.5°	2000.2	1813.9	1129.6	498.0	202.4	174.1	145.8	133.6	125.5	121.5	121.5
30°	2105.4	1870.6	992.0	332.0	182.2	153.9	129.6	117.4	109.3	105.3	105.3
32.5°	2182.4	1919.2	838.1	222.7	166.0	137.7	117.4	105.3	97.2	93.1	93.1
35°	2311.9	1955.6	696.4	190.3	149.8	121.5	101.2	93.1	85.0	85.0	85.0
37.5°	2510.3	2004.2	554.7	174.1	137.7	109.3	97.2	85.0	81.0	76.9	76.9
40°	2684.4	2064.9	396.8	157.9	125.5	101.2	85.0	76.9	72.9	68.8	68.8
42.5°	2935.5	2133.8	259.1	141.7	113.4	93.1	76.9	68.8	64.8	60.7	60.7
45°	3255.3	2247.2	202.4	125.5	101.2	85.0	72.9	64.8	56.7	56.7	52.6
47.5°	3595.4	2384.8	182.2	117.4	93.1	76.9	64.8	56.7	52.6	48.6	48.6
50°	3911.3	2518.4	170.1	109.3	85.0	72.9	60.7	52.6	44.5	40.5	40.5
52.5°	4194.7	2643.9	162.0	101.2	81.0	64.8	52.6	44.5	40.5	36.4	36.4
55°	4344.5	2700.6	157.9	97.2	72.9	60.7	48.6	40.5	36.4	32.4	32.4
57.5°	4579.3	2773.5	153.9	93.1	68.8	52.6	44.5	36.4	32.4	28.3	28.3
60°	4959.9	3012.4	149.8	89.1	64.8	52.6	40.5	32.4	24.3	20.2	20.2
62.5°	5275.7	3210.8	133.6	76.9	56.7	44.5	32.4	24.3	16.2	12.1	12.1
65°	5636.1	3303.9	117.4	68.8	48.6	36.4	24.3	16.2	12.1	4.0	4.0
67.5°	6028.8	3445.6	97.2	60.7	44.5	28.3	20.2	12.1	4.0	0.0	0.0
70°	5822.3	3267.5	81.0	52.6	40.5	24.3	16.2	8.1	0.0	0.0	0.0
72.5°	4563.1	2340.3	64.8	48.6	36.4	24.3	16.2	4.0	0.0	0.0	0.0
75°	3048.8	1324.0	56.7	40.5	28.3	20.2	12.1	4.0	0.0	0.0	0.0
77.5°	1656.0	595.2	48.6	36.4	24.3	16.2	12.1	4.0	0.0	0.0	0.0
80°	538.5	234.8	40.5	32.4	24.3	16.2	12.1	4.0	0.0	0.0	0.0
82.5°	145.8	72.9	40.5	32.4	24.3	16.2	12.1	4.0	0.0	0.0	0.0
85°	60.7	48.6	40.5	32.4	24.3	16.2	12.1	4.0	0.0	0.0	0.0
87.5°	24.3	16.2	16.2	20.2	16.2	12.1	8.1	4.0	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°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1129.6	1137.7	1141.8	1141.8	1162.0	1182.3	1206.6	1226.8	1226.8	1239.0	1251.1
5°	992.0	1000.1	1012.2	1048.7	1089.2	1133.7	1178.2	1210.6	1255.2	1275.4	1287.6
7.5°	878.6	886.7	919.1	955.5	1012.2	1089.2	1166.1	1239.0	1283.5	1303.8	1319.9
10°	761.2	773.3	809.8	874.6	947.4	1040.6	1129.6	1255.2	1328.0	1368.5	1384.7
12.5°	591.1	623.5	672.1	741.0	834.1	975.8	1141.8	1271.4	1396.9	1445.5	1477.9
15°	372.5	400.8	477.8	587.1	712.6	878.6	1109.4	1295.7	1469.8	1518.3	1571.0
17.5°	238.9	242.9	267.2	384.6	546.6	757.1	1060.8	1332.1	1550.7	1619.6	1700.5
20°	202.4	210.5	214.6	230.8	364.4	623.5	959.6	1376.6	1647.9	1741.0	1818.0
22.5°	170.1	174.1	182.2	194.3	218.6	453.5	821.9	1376.6	1732.9	1870.6	1959.7
25°	137.7	145.8	153.9	166.0	190.3	283.4	680.2	1352.3	1834.2	2004.2	2117.6
27.5°	121.5	121.5	129.6	141.7	162.0	198.4	538.5	1279.5	1911.1	2085.2	2235.0
30°	105.3	109.3	113.4	125.5	145.8	174.1	372.5	1162.0	1992.1	2243.1	2413.2
32.5°	93.1	93.1	101.2	109.3	129.6	157.9	238.9	983.9	2097.3	2364.6	2603.5
35°	85.0	85.0	89.1	97.2	117.4	141.7	186.3	834.1	2222.9	2595.4	2858.5
37.5°	76.9	76.9	81.0	89.1	105.3	125.5	170.1	716.7	2352.4	2826.1	3210.8
40°	68.8	68.8	72.9	81.0	93.1	113.4	153.9	579.0	2514.4	3166.3	3595.4
42.5°	60.7	60.7	64.8	72.9	85.0	101.2	133.6	433.2	2729.0	3534.7	4093.5
45°	52.6	52.6	56.7	64.8	72.9	93.1	121.5	332.0	2963.8	3943.6	4530.7
47.5°	44.5	48.6	52.6	60.7	68.8	85.0	109.3	291.5	3194.6	4376.9	5016.6
50°	40.5	40.5	44.5	52.6	64.8	76.9	101.2	287.5	3429.4	4708.9	5514.6
52.5°	36.4	36.4	40.5	48.6	60.7	72.9	97.2	295.6	3623.8	5016.6	5862.8
55°	32.4	32.4	36.4	40.5	52.6	68.8	89.1	303.7	3761.4	5328.4	6142.2
57.5°	28.3	28.3	32.4	40.5	48.6	60.7	81.0	311.8	3984.1	5636.1	6547.1
60°	20.2	20.2	28.3	36.4	44.5	52.6	76.9	319.9	4340.4	6061.2	6891.3
62.5°	12.1	12.1	16.2	28.3	36.4	48.6	68.8	303.7	4672.5	6607.8	7417.6
65°	4.0	8.1	12.1	16.2	28.3	40.5	56.7	275.3	4951.8	7154.4	7903.5
67.5°	0.0	0.0	4.0	12.1	24.3	32.4	48.6	202.4	4996.4	7401.4	8401.5
70°	0.0	0.0	4.0	12.1	20.2	32.4	44.5	113.4	4255.4	6611.9	7701.0
72.5°	0.0	0.0	0.0	8.1	20.2	28.3	40.5	85.0	3137.9	4984.2	6085.5
75°	0.0	0.0	0.0	4.0	16.2	24.3	36.4	64.8	1907.0	3324.2	3972.0
77.5°	0.0	0.0	0.0	4.0	12.1	24.3	36.4	56.7	672.1	1583.1	1866.6
80°	0.0	0.0	0.0	8.1	16.2	24.3	32.4	48.6	162.0	396.8	534.5
82.5°	0.0	0.0	0.0	4.0	12.1	20.2	28.3	40.5	64.8	117.4	186.3
85°	0.0	0.0	0.0	4.0	8.1	20.2	28.3	36.4	44.5	56.7	81.0
87.5°	0.0	0.0	0.0	0.0	4.0	8.1	12.1	16.2	16.2	16.2	28.3
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°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1247.1	1263.3	1271.4	1287.6	1295.7	1291.6	1287.6	1299.7	1291.6	1279.5
5°	1291.6	1291.6	1303.8	1307.8	1307.8	1295.7	1303.8	1299.7	1291.6	1291.6
7.5°	1340.2	1360.4	1360.4	1336.1	1332.1	1324.0	1324.0	1291.6	1279.5	1291.6
10°	1388.8	1405.0	1409.0	1380.7	1344.2	1328.0	1307.8	1267.3	1247.1	1255.2
12.5°	1490.0	1490.0	1445.5	1413.1	1364.5	1307.8	1259.2	1202.5	1174.2	1182.3
15°	1562.9	1579.1	1518.3	1445.5	1360.4	1255.2	1202.5	1158.0	1141.8	1129.6
17.5°	1704.6	1672.2	1575.0	1469.8	1348.3	1239.0	1202.5	1162.0	1149.9	1149.9
20°	1826.1	1809.9	1664.1	1473.8	1344.2	1271.4	1247.1	1226.8	1222.8	1210.6
22.5°	1992.1	1919.2	1732.9	1518.3	1388.8	1324.0	1315.9	1336.1	1324.0	1315.9
25°	2117.6	2056.9	1785.6	1583.1	1457.6	1437.4	1449.5	1469.8	1437.4	1425.2
27.5°	2287.6	2174.3	1886.8	1668.2	1550.7	1571.0	1611.5	1615.5	1595.3	1607.4
30°	2445.5	2324.1	1963.7	1765.3	1708.6	1728.9	1789.6	1834.2	1805.8	1789.6
32.5°	2672.3	2486.0	2117.6	1927.3	1907.0	1959.7	2028.5	2056.9	2020.4	2012.3
35°	2911.2	2672.3	2275.5	2109.5	2145.9	2218.8	2279.5	2328.1	2271.4	2295.7
37.5°	3283.7	2971.9	2542.7	2397.0	2413.2	2441.5	2554.9	2688.5	2716.8	2668.2
40°	3672.4	3295.8	2789.7	2676.3	2712.8	2789.7	2923.3	3048.8	3113.6	3048.8
42.5°	4121.8	3607.6	3170.3	3036.7	3073.1	3182.5	3360.6	3461.8	3453.7	3356.6
45°	4676.5	4040.8	3526.6	3360.6	3494.2	3591.4	3769.5	3781.7	3704.8	3680.5
47.5°	5101.6	4405.2	3911.3	3806.0	3988.2	3992.2	4032.7	4036.8	3951.7	3923.4
50°	5571.3	4826.3	4340.4	4186.6	4494.3	4352.6	4243.3	4170.4	4040.8	3980.1
52.5°	6032.9	5125.9	4737.2	4579.3	4899.2	4522.6	4324.2	4101.6	3911.3	3846.5
55°	6279.9	5619.9	5316.2	4947.8	4988.3	4571.2	4073.2	3793.8	3469.9	3453.7
57.5°	6571.4	5951.9	5806.2	5198.8	4838.5	4231.1	3550.9	3182.5	2834.2	2793.8
60°	6915.6	6478.3	6324.4	5158.3	4308.1	3555.0	2814.0	2340.3	2012.3	1984.0
62.5°	7300.2	7101.8	6644.3	4761.5	3421.3	2502.2	1858.5	1461.7	1158.0	1141.8
65°	7907.5	7624.1	6814.3	4008.4	2263.3	1603.4	1234.9	947.4	765.2	757.1
67.5°	8288.1	7822.5	6433.7	2858.5	1255.2	1060.8	866.5	688.3	530.4	498.0
70°	7749.6	7178.7	5089.5	1635.8	728.8	805.7	668.1	461.6	364.4	356.3
72.5°	6190.8	5328.4	3425.4	769.3	453.5	631.6	485.9	311.8	218.6	210.5
75°	4223.0	3352.5	2150.0	356.3	319.9	461.6	356.3	182.2	153.9	153.9
77.5°	1886.8	1708.6	1101.3	218.6	238.9	352.3	206.5	125.5	113.4	109.3
80°	574.9	603.3	449.4	149.8	178.2	267.2	125.5	85.0	68.8	64.8
82.5°	194.3	226.7	202.4	89.1	121.5	190.3	85.0	56.7	48.6	48.6
85°	93.1	113.4	101.2	56.7	64.8	93.1	68.8	44.5	28.3	28.3
87.5°	36.4	52.6	36.4	24.3	36.4	48.6	28.3	20.2	8.1	8.1
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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