

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: P677286

Luminaire Tested: **CCW-SA-1E-740-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677286  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-740-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

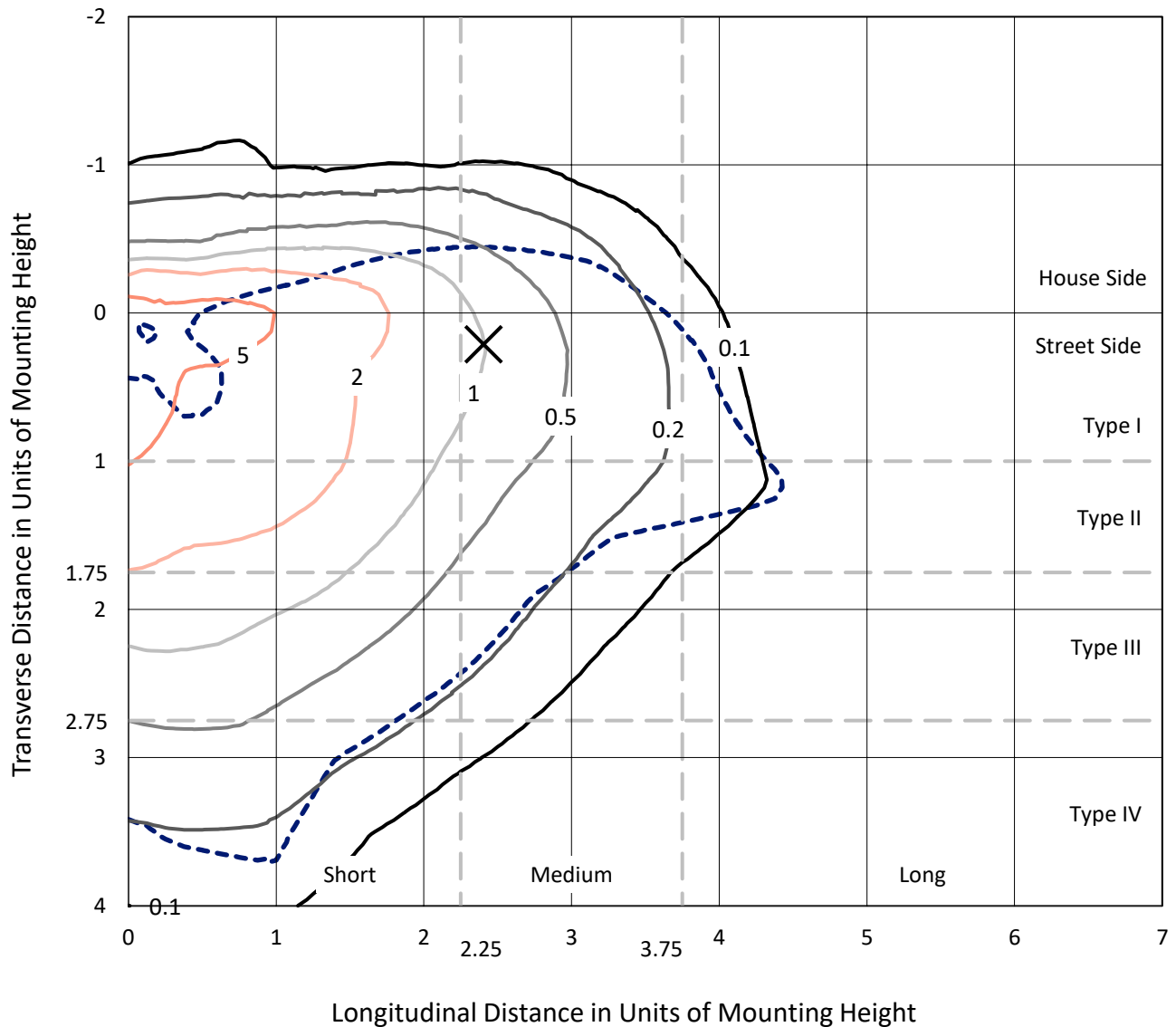
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4960.5 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 56.1  
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

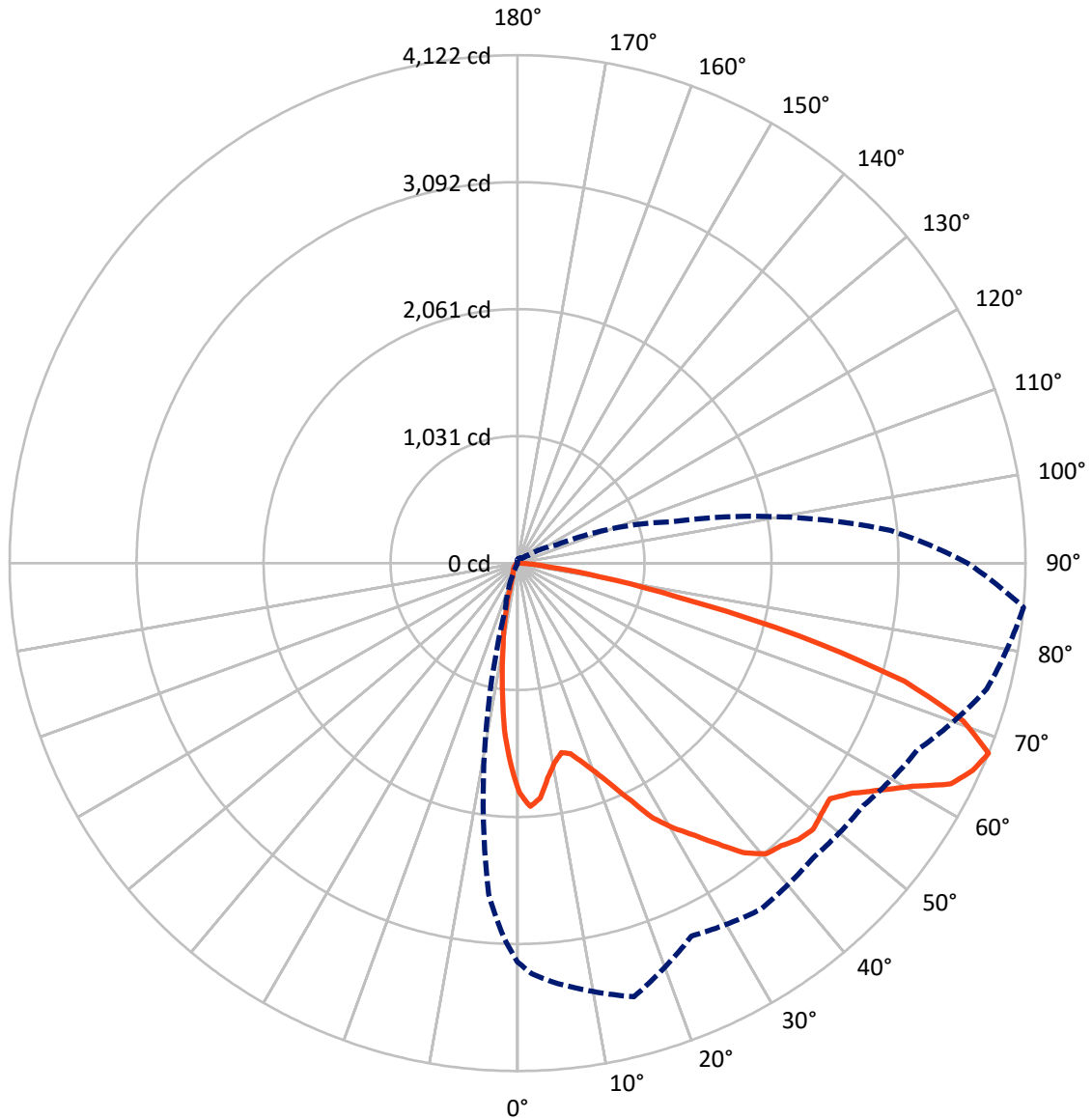
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	861.3	0.0	861.3
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4099.2	0.0	4099.2
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	4960.5	0.0	4960.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	2.9
10°-20°	277.9	5.6
20°-30°	384.5	7.8
30°-40°	543.4	11.0
40°-50°	739.9	14.9
50°-60°	979.9	19.8
60°-70°	1137.7	22.9
70°-80°	644.3	13.0
80°-90°	111.3	2.2
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°	4960.5	100.0
0°-180°	4960.5	100.0

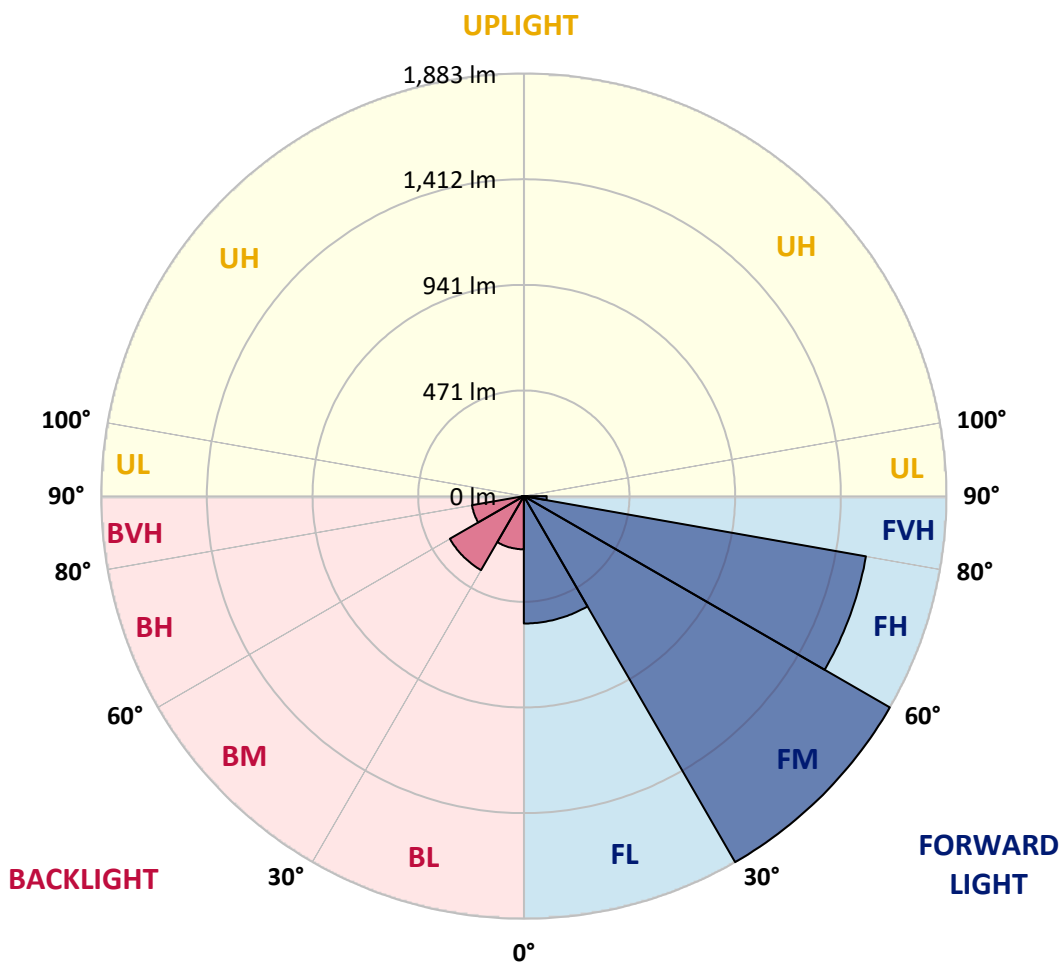


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.3	11.4			
FM (30°-60°)	1882.6	38.0			
FH (60°-80°)	1547.4	31.2			G1/1800
FVH (80°-90°)	101.9	2.1			G2/225
BL (0°-30°)	236.8	4.8	B1/500		
BM (30°-60°)	380.6	7.7	B1/1000		
BH (60°-80°)	234.6	4.7	B1/500		G1/500
BVH (80°-90°)	9.4	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1
2.5°	1938.0	1979.0	1980.4	1998.9	2017.5	2017.5	2061.2	2050.6	2012.2	2005.5	1977.7
5°	1952.6	1967.1	1977.7	2071.8	2151.3	2143.3	2167.2	2151.3	2077.1	1981.7	1916.8
7.5°	1826.7	1842.6	1885.0	2045.3	2152.6	2188.3	2233.4	2134.0	2055.9	1883.7	1759.2
10°	1659.8	1690.3	1768.4	1951.2	2083.7	2197.6	2197.6	2118.1	1967.1	1798.9	1646.6
12.5°	1567.1	1628.0	1670.4	1855.9	2028.1	2106.2	2103.6	2061.2	1963.2	1751.2	1579.0
15°	1583.0	1600.2	1690.3	1834.7	1948.6	1944.6	1992.3	1979.0	1910.2	1793.6	1604.2
17.5°	1655.8	1682.3	1760.5	1834.7	1889.0	1873.1	1871.8	1935.3	1939.3	1865.1	1698.2
20°	1775.1	1853.2	1890.3	1912.8	1846.6	1779.0	1771.1	1859.8	1928.7	1956.5	1810.8
22.5°	1965.8	2017.5	2093.0	1977.7	1805.5	1720.7	1704.8	1802.9	1942.0	2065.2	1956.5
25°	2152.6	2192.3	2265.2	2116.8	1851.9	1708.8	1681.0	1765.8	1992.3	2216.2	2132.7
27.5°	2350.0	2384.4	2392.3	2218.8	1877.0	1685.0	1651.9	1765.8	2034.7	2295.6	2343.3
30°	2470.5	2511.6	2519.5	2308.9	1918.1	1704.8	1688.9	1773.7	2063.8	2363.2	2494.3
32.5°	2605.6	2616.2	2609.6	2324.8	1963.2	1763.1	1696.9	1826.7	2096.9	2444.0	2632.1
35°	2767.2	2785.8	2718.2	2397.6	2063.8	1800.2	1776.4	1891.6	2153.9	2481.1	2799.0
37.5°	2890.4	2948.7	2796.4	2425.5	2083.7	1878.4	1882.3	2026.7	2193.6	2526.1	2983.1
40°	3122.2	3024.2	2928.8	2520.8	2159.2	2010.8	1989.6	2165.8	2327.4	2555.3	3103.7
42.5°	3249.4	3197.7	2980.5	2530.1	2275.8	2193.6	2198.9	2323.5	2397.6	2637.4	3136.8
45°	3281.2	3226.9	3050.7	2536.7	2391.0	2409.6	2501.0	2524.8	2501.0	2691.7	3199.1
47.5°	3362.0	3244.1	3042.8	2625.5	2577.8	2649.3	2765.9	2817.6	2641.4	2671.8	3228.2
50°	3346.1	3278.5	3025.5	2662.6	2805.6	2995.1	3073.2	3052.0	2797.7	2630.8	3196.4
52.5°	3279.9	3207.0	3078.5	2763.2	3018.9	3248.1	3356.7	3303.7	2936.8	2723.5	3175.2
55°	3376.6	3320.9	3147.4	2899.7	3179.2	3470.6	3547.5	3507.7	3107.7	2809.6	3295.8
57.5°	3481.2	3469.3	3334.2	3060.0	3368.6	3699.8	3699.8	3650.8	3256.0	2934.1	3474.6
60°	3632.2	3658.7	3471.9	3165.9	3433.5	3686.5	3878.6	3821.7	3405.7	3152.7	3677.3
62.5°	3583.2	3668.0	3649.5	3393.8	3507.7	3751.4	3856.1	3898.5	3591.2	3419.0	3947.5
65°	3425.6	3515.7	3648.1	3543.5	3452.1	3593.8	3646.8	3775.3	3683.9	3669.3	4058.8
67.5°	3237.5	3335.5	3417.6	3644.2	3339.5	3433.5	3387.2	3428.2	3583.2	3943.5	4122.4
70°	2826.8	2920.9	3050.7	3420.3	3041.4	2956.7	2944.7	2924.9	3165.9	3845.5	3833.6
72.5°	2324.8	2368.5	2583.1	2780.5	2250.6	2234.7	2253.3	2230.7	2510.2	3481.2	3283.8
75°	1740.6	1784.3	1906.2	2135.4	1532.6	1441.2	1547.2	1651.9	1916.8	2702.3	2359.2
77.5°	1308.8	1364.4	1441.2	1597.5	1124.6	981.6	996.1	1095.5	1385.6	2164.5	1322.0
80°	849.1	842.5	990.8	1099.5	846.5	873.0	835.9	908.7	1004.1	1157.8	675.6
82.5°	490.1	496.7	559.0	630.5	589.5	674.3	486.2	812.0	716.6	471.6	251.7
85°	275.5	287.5	344.4	437.1	369.6	247.7	202.7	402.7	450.4	193.4	121.9
87.5°	27.8	23.8	46.4	165.6	100.7	41.1	60.9	96.7	108.6	72.9	35.8
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°	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1
2.5°	1938.0	1938.0	1904.9	1849.2	1826.7	1787.0	1732.7	1749.9	1731.3	1663.8	1646.6
5°	1858.5	1794.9	1726.0	1641.3	1592.2	1491.6	1459.8	1402.8	1412.1	1355.1	1357.8
7.5°	1692.9	1642.6	1526.0	1414.7	1318.0	1230.6	1107.4	1061.1	1016.0	993.5	1020.0
10°	1596.2	1502.2	1343.2	1197.5	1069.0	990.8	908.7	845.1	786.9	743.1	733.9
12.5°	1526.0	1442.6	1250.5	1073.0	972.3	908.7	833.2	745.8	688.8	613.3	590.8
15°	1504.8	1402.8	1200.1	1024.0	925.9	821.3	735.2	649.1	574.9	495.4	467.6
17.5°	1577.7	1459.8	1198.8	984.2	846.5	733.9	614.6	517.9	442.4	369.6	352.4
20°	1700.9	1520.7	1237.2	960.4	771.0	619.9	484.8	388.1	303.3	255.7	243.7
22.5°	1841.3	1624.0	1241.2	896.8	695.4	506.0	353.7	255.7	208.0	185.5	178.8
25°	2013.5	1789.6	1288.9	845.1	606.7	384.2	251.7	196.1	168.2	155.0	152.3
27.5°	2155.2	1904.9	1340.6	790.8	519.3	284.8	197.4	160.3	145.7	132.5	131.1
30°	2302.3	2037.3	1355.1	757.7	443.8	234.5	169.6	141.7	125.8	119.2	117.9
32.5°	2430.8	2181.7	1401.5	703.4	372.2	206.6	153.7	127.2	116.6	106.0	104.6
35°	2596.3	2265.2	1424.0	674.3	345.7	186.8	140.4	116.6	100.7	94.1	91.4
37.5°	2773.8	2346.0	1438.6	651.7	323.2	174.9	132.5	109.9	95.4	86.1	83.5
40°	2939.4	2459.9	1417.4	623.9	306.0	160.3	127.2	102.0	88.8	79.5	75.5
42.5°	3066.6	2571.2	1410.8	597.4	287.5	155.0	120.5	98.0	83.5	72.9	71.5
45°	3138.1	2646.7	1364.4	576.2	272.9	157.6	117.9	92.7	79.5	70.2	64.9
47.5°	3120.9	2705.0	1376.3	569.6	253.0	147.0	116.6	88.8	72.9	64.9	60.9
50°	3216.3	2822.9	1356.5	548.4	238.4	132.5	127.2	88.8	71.5	62.3	58.3
52.5°	3232.2	2930.2	1398.8	510.0	215.9	121.9	125.8	87.4	68.9	59.6	54.3
55°	3364.6	3054.7	1481.0	488.8	197.4	106.0	115.2	84.8	62.3	54.3	51.7
57.5°	3544.8	3313.0	1534.0	468.9	172.2	92.7	96.7	83.5	57.0	50.3	46.4
60°	3718.3	3416.3	1537.9	433.2	148.4	83.5	75.5	83.5	53.0	45.0	41.1
62.5°	3848.1	3416.3	1511.4	402.7	129.8	74.2	66.2	79.5	47.7	39.7	37.1
65°	3777.9	3324.9	1442.6	377.5	117.9	64.9	57.0	60.9	42.4	34.4	31.8
67.5°	3652.1	3040.1	1290.2	347.1	116.6	57.0	49.0	45.0	37.1	30.5	27.8
70°	3450.8	2656.0	1074.3	312.6	113.9	51.7	43.7	38.4	33.1	26.5	23.8
72.5°	2780.5	2193.6	882.2	292.8	111.3	45.0	37.1	33.1	27.8	22.5	19.9
75°	1926.1	1401.5	679.6	250.4	108.6	41.1	34.4	29.1	23.8	18.5	17.2
77.5°	1155.1	936.5	438.5	188.1	71.5	33.1	29.1	22.5	19.9	15.9	14.6
80°	540.5	442.4	177.5	72.9	34.4	23.8	19.9	17.2	15.9	13.2	11.9
82.5°	211.9	186.8	86.1	42.4	27.8	18.5	15.9	14.6	13.2	10.6	9.3
85°	113.9	100.7	41.1	29.1	19.9	13.2	13.2	11.9	10.6	9.3	7.9
87.5°	25.2	18.5	17.2	17.2	14.6	10.6	10.6	9.3	7.9	6.6	5.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1
2.5°	1637.3	1657.2	1625.4	1645.2	1617.4	1638.6	1641.3	1621.4	1626.7	1653.2	1665.1
5°	1394.9	1381.6	1352.5	1343.2	1344.5	1327.3	1333.9	1343.2	1357.8	1365.7	1389.6
7.5°	1005.4	1035.9	1034.6	1057.1	1058.4	1055.8	1037.2	997.5	1010.7	1000.1	1013.4
10°	719.3	732.5	757.7	772.3	798.8	784.2	741.8	725.9	718.0	716.6	729.9
12.5°	574.9	543.1	540.5	545.8	559.0	541.8	520.6	502.0	511.3	529.9	544.4
15°	445.1	418.6	384.2	378.9	381.5	373.6	351.0	327.2	333.8	352.4	363.0
17.5°	341.8	311.3	287.5	271.6	266.3	238.4	205.3	185.5	180.2	178.8	188.1
20°	230.5	225.2	221.2	201.3	201.3	161.6	133.8	119.2	119.2	121.9	123.2
22.5°	172.2	165.6	166.9	162.9	152.3	120.5	106.0	102.0	102.0	104.6	104.6
25°	149.7	140.4	137.8	136.4	125.8	103.3	92.7	88.8	88.8	91.4	91.4
27.5°	127.2	124.5	120.5	115.2	106.0	88.8	82.1	78.2	79.5	80.8	79.5
30°	116.6	109.9	104.6	104.6	94.1	79.5	74.2	71.5	68.9	71.5	72.9
32.5°	103.3	99.3	96.7	92.7	80.8	70.2	64.9	62.3	60.9	60.9	62.3
35°	88.8	88.8	86.1	80.8	70.2	63.6	57.0	54.3	53.0	54.3	54.3
37.5°	79.5	75.5	76.8	71.5	62.3	55.6	49.0	46.4	46.4	45.0	46.4
40°	74.2	67.6	63.6	60.9	55.6	47.7	42.4	39.7	38.4	38.4	38.4
42.5°	66.2	60.9	53.0	51.7	50.3	41.1	34.4	33.1	31.8	30.5	30.5
45°	62.3	54.3	47.7	41.1	41.1	34.4	29.1	26.5	25.2	23.8	25.2
47.5°	57.0	49.0	41.1	34.4	33.1	27.8	22.5	19.9	18.5	18.5	18.5
50°	54.3	43.7	35.8	29.1	25.2	22.5	17.2	14.6	13.2	13.2	13.2
52.5°	50.3	41.1	31.8	25.2	19.9	17.2	13.2	10.6	9.3	9.3	9.3
55°	45.0	37.1	27.8	21.2	17.2	13.2	9.3	6.6	5.3	5.3	5.3
57.5°	42.4	33.1	23.8	18.5	13.2	9.3	5.3	4.0	4.0	2.6	4.0
60°	38.4	29.1	19.9	14.6	10.6	6.6	4.0	1.3	1.3	1.3	1.3
62.5°	33.1	25.2	17.2	11.9	7.9	4.0	1.3	0.0	0.0	0.0	0.0
65°	27.8	19.9	13.2	9.3	5.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.8	17.2	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.2	14.6	7.9	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.2	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.6	9.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.3	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1	1865.1
2.5°	1682.3	1674.4	1714.1	1779.0	1812.1	1877.0	1892.9	1934.0	1923.4	1938.0
5°	1392.2	1408.1	1466.4	1561.8	1596.2	1690.3	1779.0	1867.8	1924.7	1952.6
7.5°	1033.2	1086.2	1157.8	1245.2	1333.9	1457.1	1608.1	1711.5	1767.1	1826.7
10°	769.6	826.6	908.7	994.8	1139.2	1277.0	1428.0	1556.5	1604.2	1659.8
12.5°	605.4	694.1	789.5	882.2	968.3	1099.5	1286.2	1473.0	1524.7	1567.1
15°	421.2	529.9	666.3	786.9	907.4	1021.3	1214.7	1441.2	1511.4	1583.0
17.5°	233.1	319.2	475.6	645.1	822.6	997.5	1238.6	1499.5	1605.5	1655.8
20°	135.1	169.6	280.8	482.2	716.6	945.8	1250.5	1609.5	1749.9	1775.1
22.5°	111.3	123.2	159.0	302.0	586.8	912.7	1311.4	1763.1	1906.2	1965.8
25°	95.4	104.6	123.2	181.5	443.8	842.5	1349.8	1955.2	2087.7	2152.6
27.5°	84.8	94.1	108.6	133.8	302.0	745.8	1413.4	2128.7	2261.2	2350.0
30°	74.2	82.1	96.7	113.9	209.3	637.2	1467.7	2255.9	2442.7	2470.5
32.5°	66.2	72.9	83.5	98.0	155.0	483.5	1511.4	2387.0	2544.7	2605.6
35°	57.0	64.9	71.5	83.5	117.9	364.3	1484.9	2489.0	2694.4	2767.2
37.5°	50.3	55.6	62.3	70.2	99.3	284.8	1430.6	2610.9	2822.9	2890.4
40°	42.4	46.4	54.3	62.3	90.1	219.9	1368.4	2758.0	3003.0	3122.2
42.5°	35.8	39.7	45.0	58.3	74.2	162.9	1242.5	2871.9	3148.7	3249.4
45°	27.8	33.1	41.1	58.3	59.6	120.5	1112.7	2956.7	3230.9	3281.2
47.5°	21.2	26.5	39.7	50.3	47.7	83.5	959.1	3053.4	3315.6	3362.0
50°	15.9	21.2	45.0	43.7	39.7	63.6	862.4	3120.9	3320.9	3346.1
52.5°	10.6	15.9	37.1	33.1	33.1	55.6	835.9	3118.3	3334.2	3279.9
55°	7.9	11.9	21.2	23.8	29.1	49.0	812.0	3217.6	3338.2	3376.6
57.5°	5.3	9.3	14.6	18.5	25.2	42.4	763.0	3336.8	3461.3	3481.2
60°	2.6	6.6	10.6	14.6	21.2	37.1	694.1	3424.3	3611.0	3632.2
62.5°	1.3	4.0	7.9	11.9	17.2	29.1	622.6	3285.2	3546.1	3583.2
65°	0.0	2.6	5.3	7.9	10.6	21.2	506.0	2965.9	3289.1	3425.6
67.5°	0.0	0.0	2.6	5.3	6.6	15.9	381.5	2698.3	3052.0	3237.5
70°	0.0	0.0	1.3	1.3	4.0	11.9	243.7	2234.7	2724.8	2826.8
72.5°	0.0	0.0	0.0	0.0	1.3	7.9	141.7	1659.8	2135.4	2324.8
75°	0.0	0.0	0.0	0.0	0.0	6.6	71.5	1067.7	1486.3	1740.6
77.5°	0.0	0.0	0.0	0.0	0.0	5.3	38.4	688.8	1095.5	1308.8
80°	0.0	0.0	0.0	0.0	0.0	1.3	22.5	400.0	700.7	849.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.3	196.1	418.6	490.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	104.6	209.3	275.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	14.6	27.8
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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