

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: P677267

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677267
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

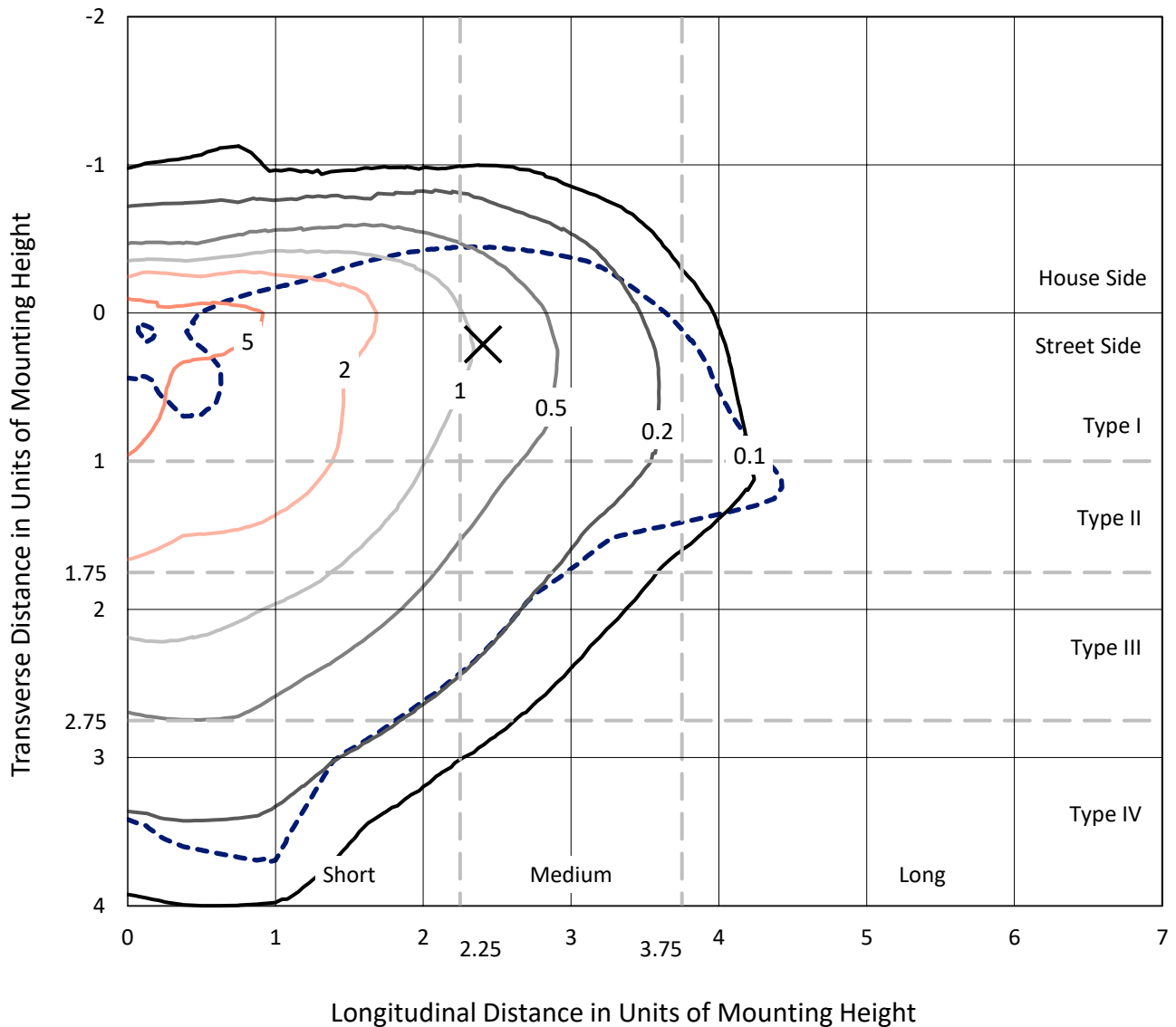
Lumens per Lamp: N/A
Luminaire Lumens: 4562.8 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

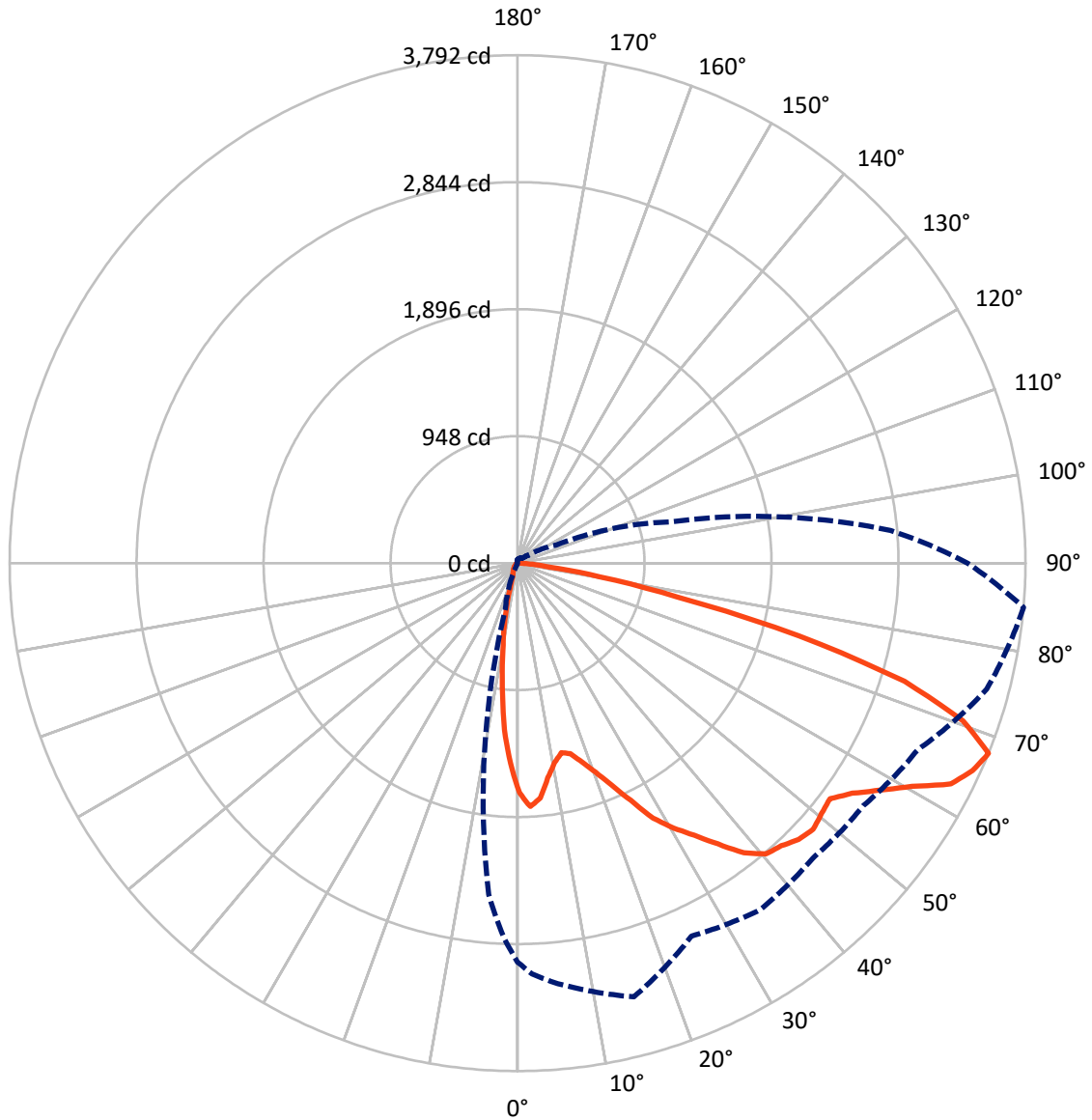
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 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
House Side	Lumens	792.2	0.0	792.2
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3770.5	0.0	3770.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	4562.8	0.0	4562.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	2.9
10°-20°	255.6	5.6
20°-30°	353.7	7.8
30°-40°	499.8	11.0
40°-50°	680.5	14.9
50°-60°	901.3	19.8
60°-70°	1046.5	22.9
70°-80°	592.6	13.0
80°-90°	102.4	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°	4562.8	100.0
0°-180°	4562.8	100.0

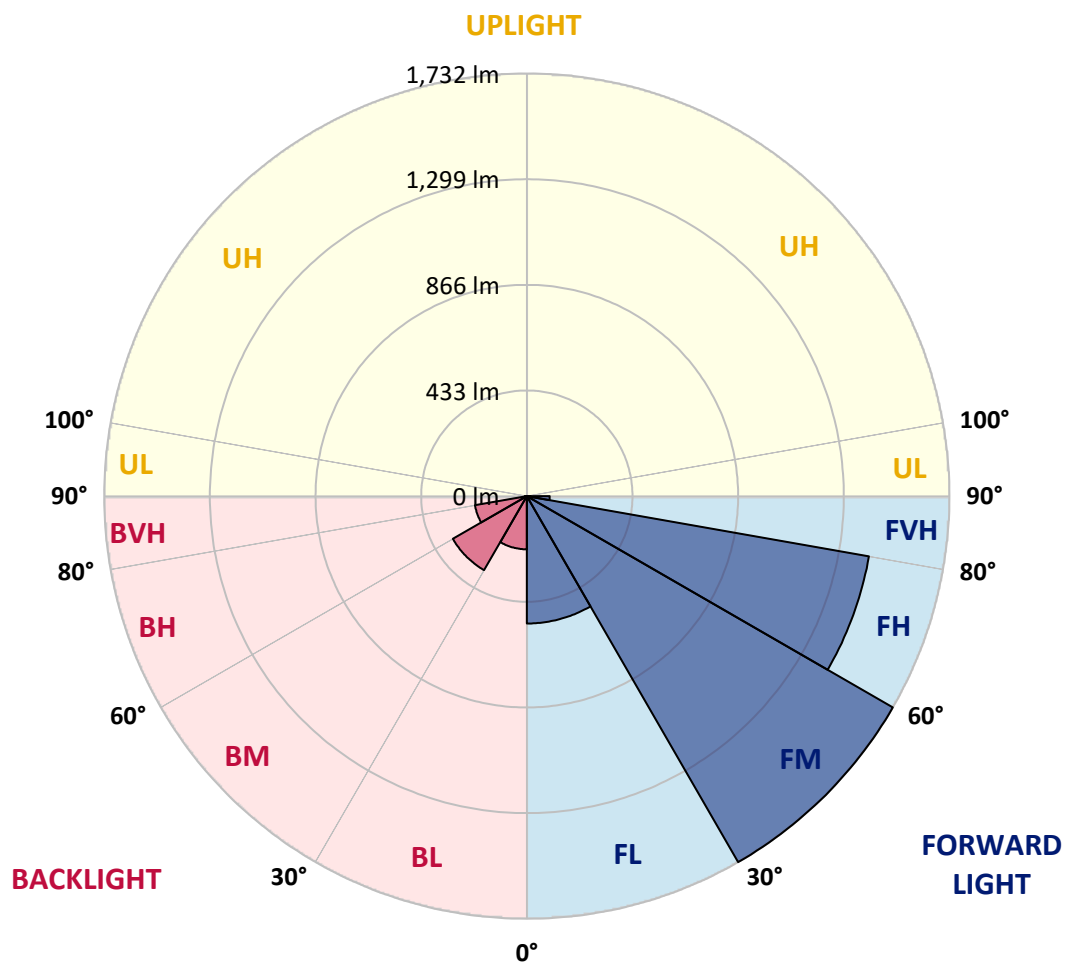


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.8	11.4			
FM (30°-60°)	1731.6	38.0			
FH (60°-80°)	1423.4	31.2			G1/1800
FVH (80°-90°)	93.8	2.1			G1/100
BL (0°-30°)	217.8	4.8	B1/500		
BM (30°-60°)	350.1	7.7	B1/1000		
BH (60°-80°)	215.8	4.7	B1/500		G1/500
BVH (80°-90°)	8.6	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1782.6	1820.4	1821.6	1838.6	1855.7	1855.7	1895.9	1886.2	1850.8	1844.7	1819.1
5°	1796.0	1809.4	1819.1	1905.6	1978.8	1971.4	1993.4	1978.8	1910.5	1822.8	1763.1
7.5°	1680.2	1694.9	1733.8	1881.3	1980.0	2012.9	2054.3	1962.9	1891.0	1732.6	1618.1
10°	1526.7	1554.7	1626.6	1794.8	1916.6	2021.4	2021.4	1948.3	1809.4	1654.6	1514.5
12.5°	1441.4	1497.5	1536.5	1707.0	1865.4	1937.3	1934.9	1895.9	1805.7	1610.8	1452.4
15°	1456.0	1471.9	1554.7	1687.5	1792.3	1788.7	1832.5	1820.4	1757.0	1649.8	1475.5
17.5°	1523.1	1547.4	1619.3	1687.5	1737.5	1722.9	1721.7	1780.1	1783.8	1715.6	1562.0
20°	1632.7	1704.6	1738.7	1759.4	1698.5	1636.4	1629.1	1710.7	1774.1	1799.6	1665.6
22.5°	1808.2	1855.7	1925.1	1819.1	1660.7	1582.8	1568.1	1658.3	1786.2	1899.6	1799.6
25°	1980.0	2016.5	2083.5	1947.1	1703.4	1571.8	1546.2	1624.2	1832.5	2038.5	1961.7
27.5°	2161.5	2193.2	2200.5	2040.9	1726.5	1549.9	1519.4	1624.2	1871.5	2111.6	2155.4
30°	2272.4	2310.2	2317.5	2123.7	1764.3	1568.1	1553.5	1631.5	1898.3	2173.7	2294.3
32.5°	2396.7	2406.4	2400.3	2138.4	1805.7	1621.7	1560.8	1680.2	1928.8	2248.0	2421.0
35°	2545.3	2562.4	2500.2	2205.4	1898.3	1655.9	1633.9	1739.9	1981.2	2282.1	2574.6
37.5°	2658.6	2712.3	2572.1	2231.0	1916.6	1727.8	1731.4	1864.2	2017.7	2323.6	2743.9
40°	2871.9	2781.7	2694.0	2318.7	1986.1	1849.6	1830.1	1992.2	2140.8	2350.4	2854.8
42.5°	2988.8	2941.3	2741.5	2327.2	2093.3	2017.7	2022.6	2137.1	2205.4	2425.9	2885.3
45°	3018.1	2968.1	2806.1	2333.3	2199.3	2216.3	2300.4	2322.4	2300.4	2475.9	2942.5
47.5°	3092.4	2984.0	2798.8	2415.0	2371.1	2436.9	2544.1	2591.6	2429.6	2457.6	2969.3
50°	3077.8	3015.6	2782.9	2449.1	2580.7	2754.9	2826.8	2807.3	2573.4	2419.8	2940.1
52.5°	3016.9	2949.9	2831.7	2541.7	2776.8	2987.6	3087.5	3038.8	2701.3	2505.1	2920.6
55°	3105.8	3054.6	2895.0	2667.2	2924.3	3192.3	3263.0	3226.4	2858.5	2584.3	3031.5
57.5°	3202.1	3191.1	3066.8	2814.6	3098.5	3403.1	3403.1	3358.0	2994.9	2698.9	3196.0
60°	3341.0	3365.3	3193.5	2912.1	3158.2	3390.9	3567.6	3515.2	3132.6	2899.9	3382.4
62.5°	3295.9	3373.9	3356.8	3121.7	3226.4	3450.6	3546.9	3585.9	3303.2	3144.8	3631.0
65°	3150.9	3233.7	3355.6	3259.3	3175.3	3305.6	3354.4	3472.6	3388.5	3375.1	3733.3
67.5°	2977.9	3068.0	3143.6	3351.9	3071.7	3158.2	3115.6	3153.3	3295.9	3627.3	3791.8
70°	2600.2	2686.7	2806.1	3146.0	2797.5	2719.6	2708.6	2690.3	2912.1	3537.1	3526.2
72.5°	2138.4	2178.6	2376.0	2557.5	2070.1	2055.5	2072.6	2051.9	2308.9	3202.1	3020.5
75°	1601.0	1641.2	1753.3	1964.1	1409.7	1325.7	1423.1	1519.4	1763.1	2485.6	2170.0
77.5°	1203.8	1255.0	1325.7	1469.4	1034.5	902.9	916.3	1007.7	1274.5	1990.9	1216.0
80°	781.0	774.9	911.4	1011.3	778.6	803.0	768.8	835.9	923.6	1064.9	621.4
82.5°	450.8	456.9	514.2	580.0	542.2	620.2	447.2	746.9	659.2	433.8	231.5
85°	253.4	264.4	316.8	402.1	339.9	227.8	186.4	370.4	414.3	177.9	112.1
87.5°	25.6	21.9	42.6	152.3	92.6	37.8	56.0	88.9	99.9	67.0	32.9
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°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1782.6	1782.6	1752.1	1700.9	1680.2	1643.7	1593.7	1609.6	1592.5	1530.4	1514.5
5°	1709.5	1651.0	1587.6	1509.7	1464.6	1372.0	1342.7	1290.3	1298.9	1246.5	1248.9
7.5°	1557.2	1510.9	1403.6	1301.3	1212.4	1131.9	1018.6	976.0	934.5	913.8	938.2
10°	1468.2	1381.7	1235.5	1101.5	983.3	911.4	835.9	777.4	723.8	683.5	675.0
12.5°	1403.6	1326.9	1150.2	986.9	894.3	835.9	766.4	686.0	633.6	564.1	543.4
15°	1384.2	1290.3	1103.9	941.9	851.7	755.4	676.2	597.0	528.8	455.7	430.1
17.5°	1451.2	1342.7	1102.7	905.3	778.6	675.0	565.4	476.4	407.0	339.9	324.1
20°	1564.5	1398.8	1138.0	883.4	709.1	570.2	446.0	357.0	279.0	235.2	224.2
22.5°	1693.6	1493.8	1141.7	824.9	639.7	465.4	325.3	235.2	191.3	170.6	164.5
25°	1852.0	1646.1	1185.5	777.4	558.0	353.3	231.5	180.3	154.7	142.6	140.1
27.5°	1982.4	1752.1	1233.1	727.4	477.6	262.0	181.5	147.4	134.0	121.8	120.6
30°	2117.7	1874.0	1246.5	696.9	408.2	215.7	156.0	130.4	115.8	109.7	108.4
32.5°	2235.8	2006.8	1289.1	647.0	342.4	190.1	141.3	117.0	107.2	97.5	96.3
35°	2388.1	2083.5	1309.8	620.2	318.0	171.8	129.2	107.2	92.6	86.5	84.1
37.5°	2551.4	2157.9	1323.2	599.5	297.3	160.8	121.8	101.1	87.7	79.2	76.8
40°	2703.7	2262.6	1303.7	573.9	281.5	147.4	117.0	93.8	81.6	73.1	69.5
42.5°	2820.7	2365.0	1297.6	549.5	264.4	142.6	110.9	90.2	76.8	67.0	65.8
45°	2886.5	2434.4	1255.0	530.0	251.0	145.0	108.4	85.3	73.1	64.6	59.7
47.5°	2870.7	2488.1	1266.0	523.9	232.7	135.2	107.2	81.6	67.0	59.7	56.0
50°	2958.4	2596.5	1247.7	504.4	219.3	121.8	117.0	81.6	65.8	57.3	53.6
52.5°	2973.0	2695.2	1286.7	469.1	198.6	112.1	115.8	80.4	63.4	54.8	50.0
55°	3094.8	2809.7	1362.2	449.6	181.5	97.5	106.0	78.0	57.3	50.0	47.5
57.5°	3260.6	3047.3	1411.0	431.3	158.4	85.3	88.9	76.8	52.4	46.3	42.6
60°	3420.2	3142.4	1414.6	398.4	136.5	76.8	69.5	76.8	48.7	41.4	37.8
62.5°	3539.6	3142.4	1390.2	370.4	119.4	68.2	60.9	73.1	43.9	36.6	34.1
65°	3475.0	3058.3	1326.9	347.3	108.4	59.7	52.4	56.0	39.0	31.7	29.2
67.5°	3359.2	2796.3	1186.8	319.2	107.2	52.4	45.1	41.4	34.1	28.0	25.6
70°	3174.0	2443.0	988.2	287.6	104.8	47.5	40.2	35.3	30.5	24.4	21.9
72.5°	2557.5	2017.7	811.5	269.3	102.3	41.4	34.1	30.5	25.6	20.7	18.3
75°	1771.6	1289.1	625.1	230.3	99.9	37.8	31.7	26.8	21.9	17.1	15.8
77.5°	1062.5	861.4	403.3	173.0	65.8	30.5	26.8	20.7	18.3	14.6	13.4
80°	497.1	407.0	163.3	67.0	31.7	21.9	18.3	15.8	14.6	12.2	11.0
82.5°	195.0	171.8	79.2	39.0	25.6	17.1	14.6	13.4	12.2	9.7	8.5
85°	104.8	92.6	37.8	26.8	18.3	12.2	12.2	11.0	9.7	8.5	7.3
87.5°	23.2	17.1	15.8	15.8	13.4	9.7	9.7	8.5	7.3	6.1	4.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1506.0	1524.3	1495.0	1513.3	1487.7	1507.2	1509.7	1491.4	1496.2	1520.6	1531.6
5°	1283.0	1270.8	1244.0	1235.5	1236.7	1220.9	1227.0	1235.5	1248.9	1256.2	1278.1
7.5°	924.8	952.8	951.6	972.3	973.5	971.1	954.0	917.5	929.7	919.9	932.1
10°	661.6	673.8	696.9	710.4	734.7	721.3	682.3	667.7	660.4	659.2	671.4
12.5°	528.8	499.6	497.1	502.0	514.2	498.3	478.8	461.8	470.3	487.4	500.8
15°	409.4	385.0	353.3	348.5	350.9	343.6	322.9	301.0	307.0	324.1	333.9
17.5°	314.4	286.3	264.4	249.8	244.9	219.3	188.9	170.6	165.7	164.5	173.0
20°	212.0	207.1	203.5	185.2	185.2	148.7	123.1	109.7	109.7	112.1	113.3
22.5°	158.4	152.3	153.5	149.9	140.1	110.9	97.5	93.8	93.8	96.3	96.3
25°	137.7	129.2	126.7	125.5	115.8	95.0	85.3	81.6	81.6	84.1	84.1
27.5°	117.0	114.5	110.9	106.0	97.5	81.6	75.5	71.9	73.1	74.3	73.1
30°	107.2	101.1	96.3	96.3	86.5	73.1	68.2	65.8	63.4	65.8	67.0
32.5°	95.0	91.4	88.9	85.3	74.3	64.6	59.7	57.3	56.0	56.0	57.3
35°	81.6	81.6	79.2	74.3	64.6	58.5	52.4	50.0	48.7	50.0	50.0
37.5°	73.1	69.5	70.7	65.8	57.3	51.2	45.1	42.6	42.6	41.4	42.6
40°	68.2	62.1	58.5	56.0	51.2	43.9	39.0	36.6	35.3	35.3	35.3
42.5°	60.9	56.0	48.7	47.5	46.3	37.8	31.7	30.5	29.2	28.0	28.0
45°	57.3	50.0	43.9	37.8	37.8	31.7	26.8	24.4	23.2	21.9	23.2
47.5°	52.4	45.1	37.8	31.7	30.5	25.6	20.7	18.3	17.1	17.1	17.1
50°	50.0	40.2	32.9	26.8	23.2	20.7	15.8	13.4	12.2	12.2	12.2
52.5°	46.3	37.8	29.2	23.2	18.3	15.8	12.2	9.7	8.5	8.5	8.5
55°	41.4	34.1	25.6	19.5	15.8	12.2	8.5	6.1	4.9	4.9	4.9
57.5°	39.0	30.5	21.9	17.1	12.2	8.5	4.9	3.7	3.7	2.4	3.7
60°	35.3	26.8	18.3	13.4	9.7	6.1	3.7	1.2	1.2	1.2	1.2
62.5°	30.5	23.2	15.8	11.0	7.3	3.7	1.2	0.0	0.0	0.0	0.0
65°	25.6	18.3	12.2	8.5	4.9	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	21.9	15.8	9.7	6.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.5	13.4	7.3	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.8	11.0	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.4	8.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.0	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.5	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.2	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°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1547.4	1540.1	1576.7	1636.4	1666.8	1726.5	1741.2	1778.9	1769.2	1782.6
5°	1280.6	1295.2	1348.8	1436.5	1468.2	1554.7	1636.4	1718.0	1770.4	1796.0
7.5°	950.4	999.1	1064.9	1145.3	1227.0	1340.3	1479.2	1574.2	1625.4	1680.2
10°	707.9	760.3	835.9	915.1	1047.9	1174.6	1313.5	1431.7	1475.5	1526.7
12.5°	556.8	638.5	726.2	811.5	890.7	1011.3	1183.1	1354.9	1402.4	1441.4
15°	387.5	487.4	612.9	723.8	834.6	939.4	1117.3	1325.7	1390.2	1456.0
17.5°	214.4	293.6	437.4	593.4	756.7	917.5	1139.2	1379.3	1476.8	1523.1
20°	124.3	156.0	258.3	443.5	659.2	870.0	1150.2	1480.4	1609.6	1632.7
22.5°	102.3	113.3	146.2	277.8	539.8	839.5	1206.3	1621.7	1753.3	1808.2
25°	87.7	96.3	113.3	166.9	408.2	774.9	1241.6	1798.4	1920.3	1980.0
27.5°	78.0	86.5	99.9	123.1	277.8	686.0	1300.1	1958.0	2079.9	2161.5
30°	68.2	75.5	88.9	104.8	192.5	586.1	1350.0	2075.0	2246.8	2272.4
32.5°	60.9	67.0	76.8	90.2	142.6	444.7	1390.2	2195.6	2340.6	2396.7
35°	52.4	59.7	65.8	76.8	108.4	335.1	1365.9	2289.5	2478.3	2545.3
37.5°	46.3	51.2	57.3	64.6	91.4	262.0	1315.9	2401.6	2596.5	2658.6
40°	39.0	42.6	50.0	57.3	82.9	202.3	1258.7	2536.8	2762.2	2871.9
42.5°	32.9	36.6	41.4	53.6	68.2	149.9	1142.9	2641.6	2896.2	2988.8
45°	25.6	30.5	37.8	53.6	54.8	110.9	1023.5	2719.6	2971.8	3018.1
47.5°	19.5	24.4	36.6	46.3	43.9	76.8	882.2	2808.5	3049.8	3092.4
50°	14.6	19.5	41.4	40.2	36.6	58.5	793.2	2870.7	3054.6	3077.8
52.5°	9.7	14.6	34.1	30.5	30.5	51.2	768.8	2868.2	3066.8	3016.9
55°	7.3	11.0	19.5	21.9	26.8	45.1	746.9	2959.6	3070.5	3105.8
57.5°	4.9	8.5	13.4	17.1	23.2	39.0	701.8	3069.3	3183.8	3202.1
60°	2.4	6.1	9.7	13.4	19.5	34.1	638.5	3149.7	3321.5	3341.0
62.5°	1.2	3.7	7.3	11.0	15.8	26.8	572.7	3021.7	3261.8	3295.9
65°	0.0	2.4	4.9	7.3	9.7	19.5	465.4	2728.1	3025.4	3150.9
67.5°	0.0	0.0	2.4	4.9	6.1	14.6	350.9	2482.0	2807.3	2977.9
70°	0.0	0.0	1.2	1.2	3.7	11.0	224.2	2055.5	2506.3	2600.2
72.5°	0.0	0.0	0.0	0.0	1.2	7.3	130.4	1526.7	1964.1	2138.4
75°	0.0	0.0	0.0	0.0	0.0	6.1	65.8	982.1	1367.1	1601.0
77.5°	0.0	0.0	0.0	0.0	0.0	4.9	35.3	633.6	1007.7	1203.8
80°	0.0	0.0	0.0	0.0	0.0	1.2	20.7	368.0	644.6	781.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	180.3	385.0	450.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	96.3	192.5	253.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	13.4	25.6
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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