

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: P677401

Luminaire Tested: **CCW-SA-2C-727-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677401
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-727-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

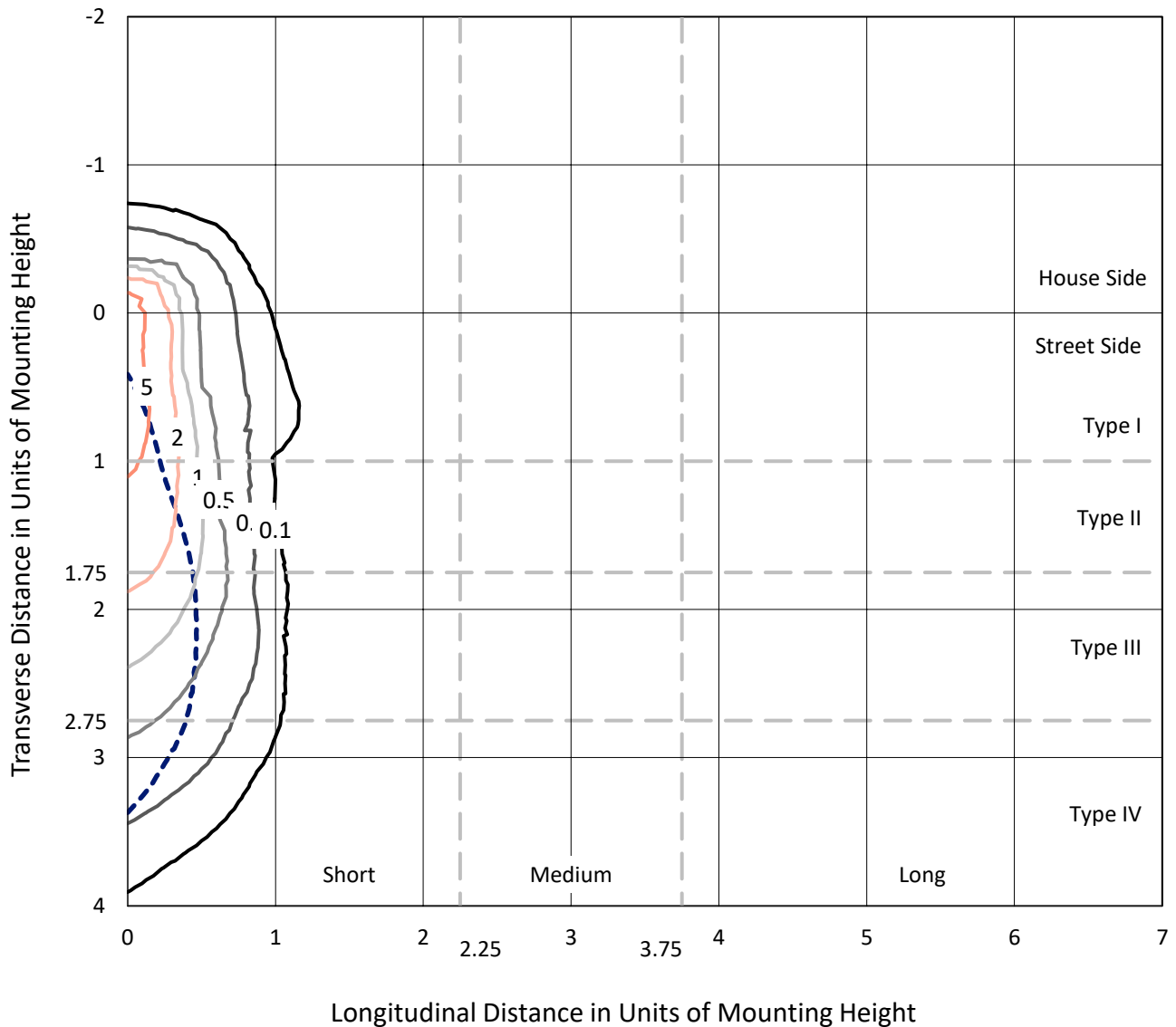
Lumens per Lamp: N/A
Luminaire Lumens: 5433.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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

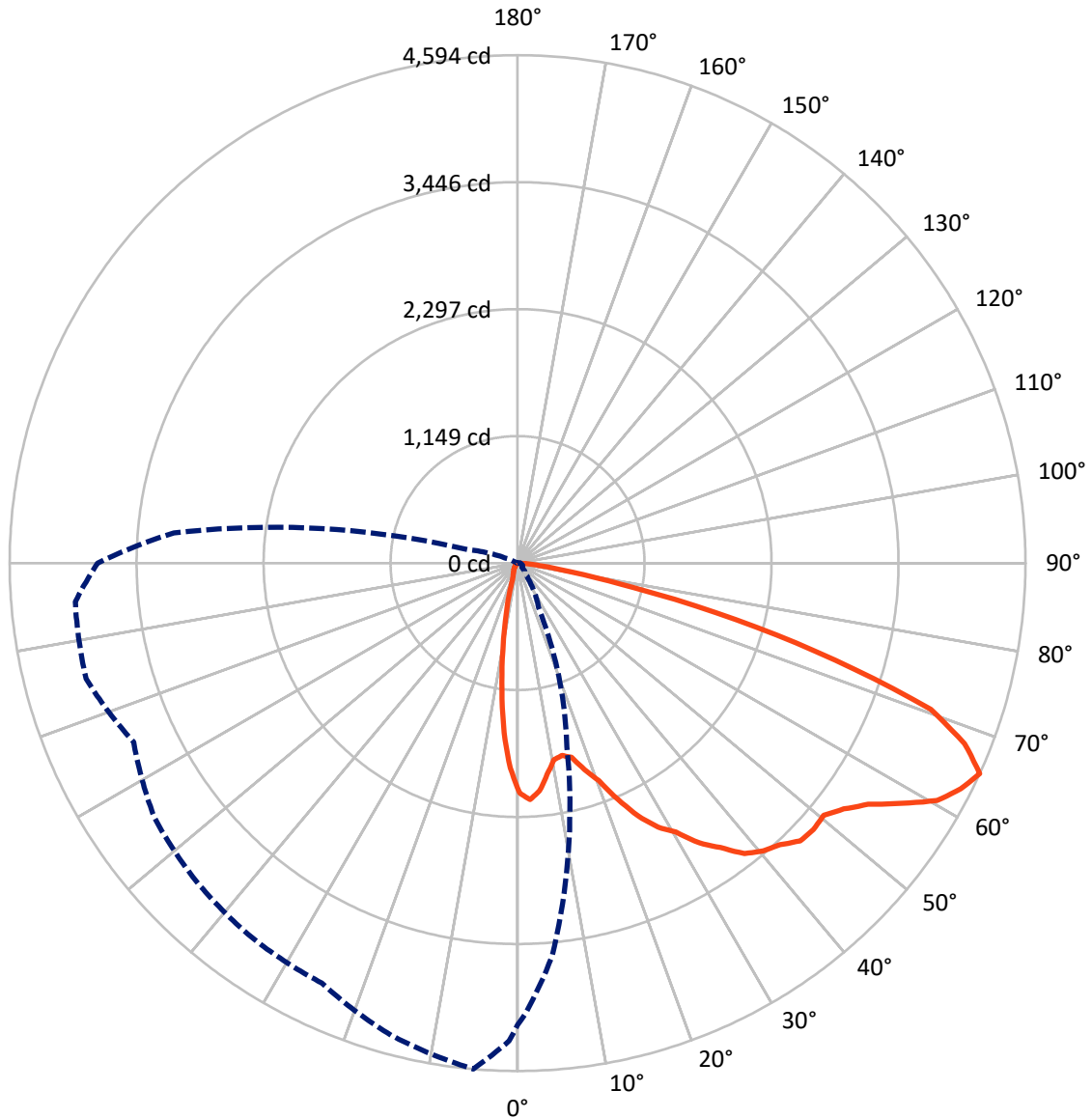
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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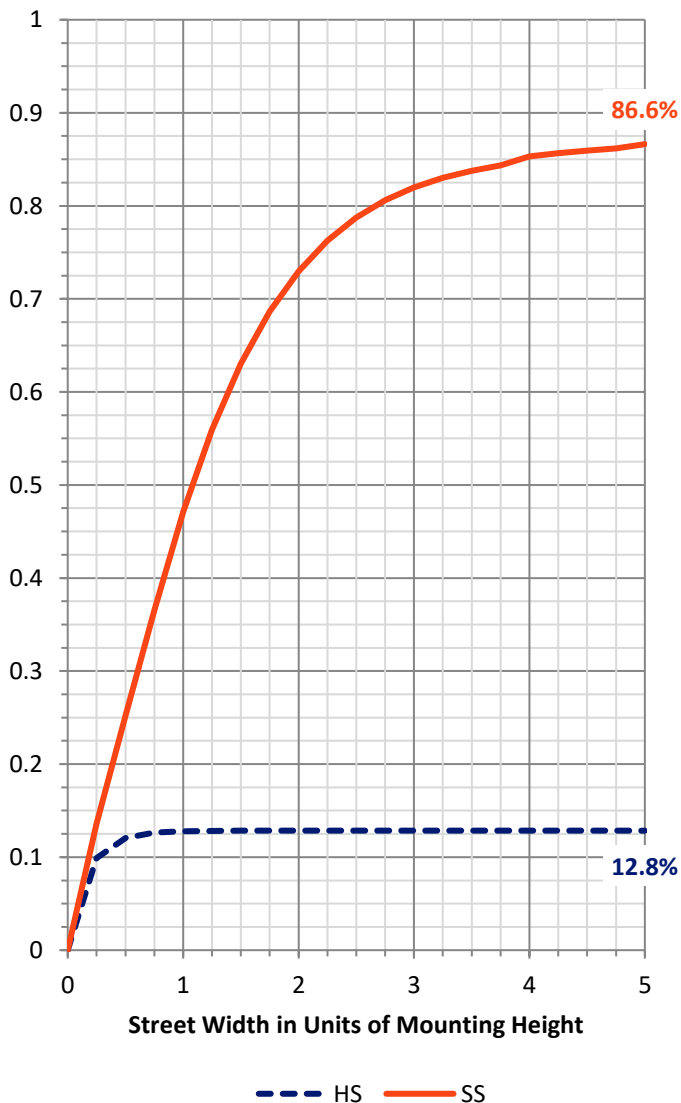
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.5	0.0	705.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4728.4	0.0	4728.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	5433.9	0.0	5433.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	2.9
10°-20°	304.7	5.6
20°-30°	424.4	7.8
30°-40°	603.0	11.1
40°-50°	836.2	15.4
50°-60°	1139.4	21.0
60°-70°	1252.7	23.1
70°-80°	615.7	11.3
80°-90°	100.5	1.9
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°	5433.9	100.0
0°-180°	5433.9	100.0



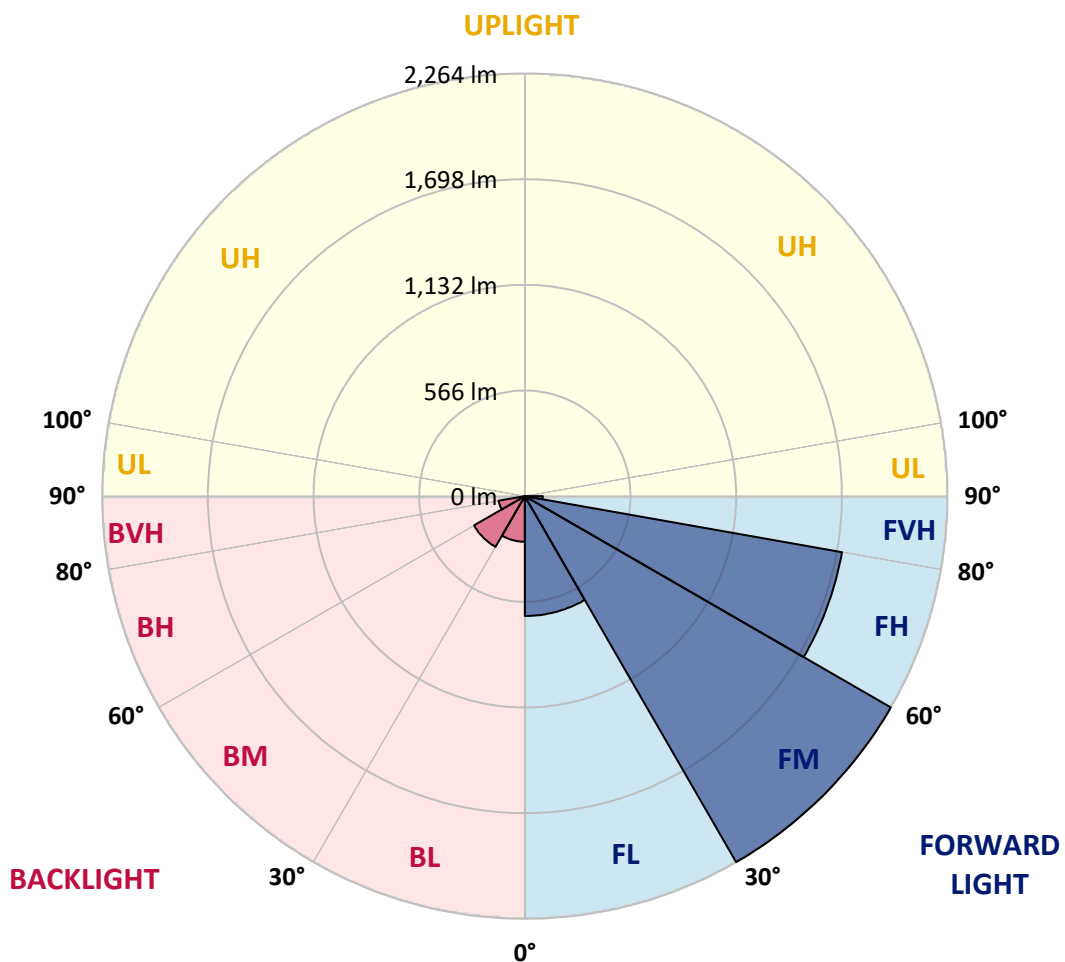
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.2	11.8			
FM (30°-60°)	2264.5	41.7			
FH (60°-80°)	1725.7	31.8			G1/1800
FVH (80°-90°)	96.0	1.8			G1/100
BL (0°-30°)	244.3	4.5	B1/500		
BM (30°-60°)	314.1	5.8	B1/1000		
BH (60°-80°)	142.6	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4
2.5°	2119.9	2144.8	2121.3	2039.3	2024.6	1985.1	1925.0	1920.6	1857.6	1864.9	1831.2
5°	1992.4	2017.3	1967.5	1859.1	1758.0	1677.4	1629.1	1542.6	1523.6	1481.1	1481.1
7.5°	1862.0	1860.5	1775.6	1684.7	1533.9	1385.9	1318.5	1194.0	1120.7	1081.2	1043.1
10°	1753.6	1730.2	1677.4	1489.9	1325.8	1172.0	1088.5	1006.5	930.3	864.3	798.4
12.5°	1677.4	1692.1	1608.6	1404.9	1192.5	1085.6	996.2	909.8	818.9	744.2	671.0
15°	1717.0	1693.5	1595.4	1385.9	1170.5	1024.0	905.4	799.9	698.8	600.6	545.0
17.5°	1840.0	1780.0	1664.2	1385.9	1125.1	930.3	786.7	662.2	553.8	465.9	397.0
20°	2005.6	1936.7	1812.2	1437.2	1091.4	861.4	665.1	508.4	395.5	313.5	260.8
22.5°	2175.5	2121.3	1933.8	1457.7	1051.9	769.1	524.5	367.7	263.7	211.0	184.6
25°	2379.2	2303.0	2097.9	1539.7	993.3	679.8	413.1	256.4	196.3	168.5	152.4
27.5°	2541.8	2528.6	2251.7	1589.5	949.3	606.5	326.7	203.6	162.6	142.1	131.8
30°	2746.9	2675.1	2439.2	1689.1	899.5	523.0	272.5	183.1	149.4	127.5	120.1
32.5°	2869.9	2836.2	2537.4	1744.8	843.8	454.1	234.4	161.1	136.2	120.1	112.8
35°	3048.7	2981.3	2678.0	1780.0	814.5	414.6	211.0	146.5	114.3	98.2	89.4
37.5°	3247.9	3223.0	2846.5	1778.5	772.1	391.2	194.8	136.2	108.4	90.8	80.6
40°	3451.5	3350.5	2949.0	1819.5	750.1	373.6	183.1	130.4	102.5	86.4	73.2
42.5°	3603.9	3488.2	3067.7	1804.9	723.7	342.8	178.7	121.6	98.2	79.1	67.4
45°	3644.9	3603.9	3174.7	1800.5	704.7	317.9	171.4	120.1	95.2	74.7	63.0
47.5°	3724.0	3696.2	3306.5	1807.8	690.0	298.9	153.8	123.1	90.8	70.3	60.1
50°	3759.2	3709.4	3413.4	1825.4	656.3	275.4	137.7	128.9	89.4	68.9	57.1
52.5°	3904.2	3860.3	3559.9	1875.2	628.5	244.7	121.6	123.1	92.3	64.5	54.2
55°	4046.3	3996.5	3785.6	1989.5	588.9	219.7	104.0	108.4	87.9	58.6	48.3
57.5°	4241.2	4159.1	3936.5	2036.3	553.8	186.1	92.3	89.4	82.0	52.7	42.5
60°	4270.5	4304.2	3914.5	2007.0	517.1	164.1	80.6	68.9	87.9	46.9	36.6
62.5°	4368.6	4228.0	3811.9	1939.7	490.8	150.9	71.8	57.1	76.2	41.0	30.8
65°	4179.6	4075.6	3571.7	1722.8	457.1	152.4	63.0	46.9	48.3	33.7	24.9
67.5°	3902.8	3820.7	3173.2	1487.0	423.4	149.4	55.7	41.0	36.6	29.3	22.0
70°	3425.2	3247.9	2695.6	1207.2	373.6	139.2	46.9	36.6	30.8	23.4	16.1
72.5°	2492.0	2420.2	1933.8	933.2	335.5	126.0	43.9	30.8	26.4	17.6	13.2
75°	1677.4	1558.8	1220.3	612.4	269.6	109.9	36.6	27.8	20.5	13.2	10.3
77.5°	886.3	838.0	691.5	291.5	149.4	51.3	20.5	16.1	11.7	10.3	5.9
80°	383.8	341.3	298.9	118.7	52.7	23.4	13.2	8.8	7.3	5.9	2.9
82.5°	196.3	187.5	155.3	51.3	30.8	17.6	7.3	5.9	4.4	2.9	1.5
85°	96.7	99.6	82.0	16.1	17.6	10.3	1.5	1.5	0.0	0.0	0.0
87.5°	7.3	7.3	5.9	2.9	4.4	1.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4
2.5°	1818.1	1838.6	1803.4	1825.4	1815.1	1819.5	1823.9	1812.2	1815.1	1856.2	1857.6
5°	1456.2	1495.8	1481.1	1501.6	1536.8	1519.2	1535.3	1532.4	1535.3	1541.2	1567.5
7.5°	1038.7	1027.0	1054.8	1109.0	1172.0	1210.1	1191.0	1180.8	1174.9	1160.3	1177.9
10°	783.8	777.9	770.6	786.7	827.7	870.2	893.6	854.1	832.1	804.3	794.0
12.5°	650.5	613.8	593.3	568.4	580.1	618.2	619.7	581.6	546.4	531.8	547.9
15°	512.7	487.8	451.2	416.1	398.5	427.8	402.9	366.2	320.8	315.0	313.5
17.5°	366.2	351.6	325.2	310.6	290.1	282.7	256.4	200.7	168.5	159.7	162.6
20°	249.0	237.3	235.9	222.7	213.9	208.0	165.5	128.9	118.7	120.1	121.6
22.5°	184.6	178.7	171.4	169.9	162.6	155.3	121.6	108.4	101.1	101.1	105.5
25°	150.9	148.0	140.6	137.7	134.8	124.5	102.5	92.3	89.4	86.4	90.8
27.5°	128.9	127.5	123.1	118.7	115.7	105.5	89.4	80.6	77.6	77.6	77.6
30°	115.7	115.7	109.9	101.1	101.1	89.4	76.2	70.3	67.4	67.4	65.9
32.5°	108.4	105.5	98.2	92.3	87.9	76.2	67.4	61.5	57.1	57.1	58.6
35°	87.9	87.9	86.4	82.0	76.2	64.5	57.1	51.3	48.3	46.9	48.3
37.5°	77.6	73.2	67.4	68.9	65.9	55.7	48.3	43.9	39.6	39.6	39.6
40°	70.3	65.9	60.1	55.7	54.2	49.8	42.5	35.2	30.8	29.3	29.3
42.5°	63.0	60.1	51.3	43.9	42.5	42.5	32.2	26.4	22.0	22.0	22.0
45°	58.6	54.2	46.9	38.1	30.8	32.2	26.4	19.0	16.1	14.6	14.6
47.5°	55.7	51.3	41.0	32.2	23.4	23.4	19.0	13.2	10.3	8.8	8.8
50°	51.3	46.9	36.6	26.4	17.6	14.6	11.7	7.3	4.4	2.9	2.9
52.5°	48.3	43.9	32.2	22.0	14.6	10.3	7.3	1.5	0.0	0.0	0.0
55°	43.9	38.1	27.8	17.6	11.7	5.9	1.5	0.0	0.0	0.0	0.0
57.5°	38.1	33.7	22.0	13.2	7.3	1.5	0.0	0.0	0.0	0.0	0.0
60°	32.2	27.8	17.6	10.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	26.4	23.4	13.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	22.0	17.6	10.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19.0	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.6	10.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.3	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4
2.5°	1863.5	1907.4	1948.4	1960.2	1992.4	2081.8	2081.8	2124.2	2200.4	2228.3	2234.1
5°	1571.9	1618.8	1627.6	1718.4	1760.9	1851.8	1911.8	2055.4	2141.8	2196.0	2229.7
7.5°	1195.4	1211.6	1245.2	1330.2	1413.7	1523.6	1637.9	1821.0	1973.4	2034.9	2149.2
10°	821.9	870.2	943.5	1019.6	1150.0	1271.6	1419.6	1592.5	1780.0	1856.2	1954.3
12.5°	553.8	621.2	738.4	846.8	966.9	1090.0	1230.6	1462.1	1674.5	1780.0	1878.1
15°	323.8	405.8	506.9	682.7	842.4	980.1	1120.7	1355.1	1613.0	1749.2	1869.3
17.5°	164.1	189.0	272.5	424.8	635.8	861.4	1070.9	1369.8	1659.8	1826.9	1926.5
20°	123.1	130.4	153.8	225.6	435.1	712.0	1024.0	1391.7	1790.2	1993.9	2048.1
22.5°	106.9	112.8	123.1	146.5	244.7	545.0	958.1	1446.0	1967.5	2159.4	2273.7
25°	90.8	96.7	105.5	120.1	156.8	370.6	877.5	1503.1	2125.7	2367.4	2474.4
27.5°	79.1	83.5	92.3	104.0	127.5	235.9	738.4	1579.3	2367.4	2619.4	2647.3
30°	67.4	71.8	79.1	92.3	108.4	167.0	542.0	1589.5	2500.8	2729.3	2806.9
32.5°	58.6	60.1	68.9	80.6	90.8	131.8	380.9	1599.8	2598.9	2871.4	2887.5
35°	48.3	51.3	60.1	67.4	79.1	104.0	288.6	1548.5	2726.4	3017.9	3013.5
37.5°	39.6	43.9	49.8	55.7	64.5	87.9	230.0	1453.3	2886.0	3245.0	3107.3
40°	30.8	35.2	41.0	48.3	54.2	79.1	172.9	1309.7	3053.1	3356.3	3209.8
42.5°	22.0	24.9	30.8	38.1	48.3	65.9	124.5	1139.8	3119.0	3486.7	3332.9
45°	16.1	19.0	23.4	32.2	49.8	52.7	86.4	984.5	3189.3	3543.8	3305.0
47.5°	8.8	11.7	17.6	27.8	43.9	39.6	61.5	845.3	3269.9	3595.1	3327.0
50°	2.9	4.4	10.3	29.3	35.2	30.8	48.3	770.6	3349.0	3605.4	3371.0
52.5°	0.0	0.0	5.9	30.8	26.4	23.4	42.5	741.3	3328.5	3637.6	3343.1
55°	0.0	0.0	1.5	13.2	14.6	17.6	35.2	739.8	3473.5	3647.8	3495.5
57.5°	0.0	0.0	0.0	4.4	8.8	14.6	30.8	692.9	3565.8	3902.8	3700.6
60°	0.0	0.0	0.0	1.5	5.9	10.3	23.4	651.9	3659.6	4017.0	3920.3
62.5°	0.0	0.0	0.0	0.0	1.5	4.4	16.1	588.9	3470.6	4008.2	4132.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.3	465.9	3121.9	3798.7	4015.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	322.3	2733.7	3535.0	3800.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	194.8	2206.3	3099.9	3223.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.5	1574.9	2461.2	2644.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7	974.2	1799.0	2024.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	631.4	1362.4	1536.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	336.9	854.1	993.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	146.5	518.6	597.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9	315.0	358.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3	64.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4	2077.4
2.5°	2237.1	2279.5	2295.7	2270.7	2273.7	2222.4	2215.1	2143.3	2114.0	2119.9
5°	2339.6	2401.1	2434.8	2407.0	2344.0	2245.8	2156.5	2071.5	2018.8	1992.4
7.5°	2316.2	2385.0	2427.5	2453.9	2382.1	2223.9	2087.6	1927.9	1860.5	1862.0
10°	2187.2	2330.8	2417.2	2383.6	2349.9	2191.6	1980.7	1807.8	1747.7	1753.6
12.5°	2083.2	2242.9	2294.2	2320.6	2251.7	2125.7	1983.6	1785.8	1718.4	1677.4
15°	2018.8	2137.4	2140.4	2181.4	2153.5	2153.5	2014.4	1821.0	1762.4	1717.0
17.5°	2018.8	2045.1	2042.2	2056.9	2103.7	2159.4	2092.0	1963.1	1847.4	1840.0
20°	2064.2	1982.1	1963.1	1969.0	2008.5	2174.1	2263.4	2102.3	2029.0	2005.6
22.5°	2169.7	1989.5	1873.7	1853.2	1974.8	2172.6	2373.3	2322.0	2194.6	2175.5
25°	2314.7	1976.3	1850.3	1823.9	1916.2	2225.3	2524.2	2534.4	2418.7	2379.2
27.5°	2452.4	2034.9	1847.4	1841.5	1963.1	2213.6	2628.2	2704.4	2574.0	2541.8
30°	2499.3	2093.5	1901.6	1823.9	1980.7	2256.1	2625.3	2824.5	2739.5	2746.9
32.5°	2555.0	2152.1	1907.4	1876.7	2055.4	2325.0	2708.8	3017.9	2956.4	2869.9
35°	2637.0	2231.2	1963.1	1935.3	2108.1	2386.5	2726.4	3160.0	3149.7	3048.7
37.5°	2707.3	2308.8	2078.8	2083.2	2269.3	2486.1	2804.0	3334.3	3316.8	3247.9
40°	2757.1	2417.2	2259.0	2270.7	2409.9	2597.4	2941.7	3422.2	3552.6	3451.5
42.5°	2764.5	2513.9	2465.6	2559.4	2689.7	2770.3	2997.4	3482.3	3669.8	3603.9
45°	2792.3	2667.8	2802.5	2871.4	2978.3	2922.7	2994.5	3584.9	3678.6	3644.9
47.5°	2900.7	2947.6	3117.5	3327.0	3365.1	3182.0	3064.8	3601.0	3728.4	3724.0
50°	3013.5	3247.9	3486.7	3625.9	3674.2	3360.7	3130.7	3587.8	3794.3	3759.2
52.5°	3139.5	3508.7	3852.9	4024.4	3998.0	3558.5	3205.4	3694.7	3915.9	3904.2
55°	3218.6	3625.9	4088.8	4327.6	4307.1	3779.7	3442.7	3848.6	4075.6	4046.3
57.5°	3428.1	3816.3	4323.2	4434.6	4488.8	4069.8	3608.3	4100.5	4208.9	4241.2
60°	3601.0	3940.8	4384.7	4545.9	4564.9	4242.6	3898.4	4359.8	4378.9	4270.5
62.5°	3854.4	3989.2	4254.4	4399.4	4497.5	4340.8	4159.1	4499.0	4376.0	4368.6
65°	4040.5	3831.0	4011.2	4091.7	4154.7	4191.4	4421.4	4594.2	4321.7	4179.6
67.5°	3936.5	3532.1	3498.4	3502.8	3521.9	3743.1	4333.5	4361.3	4020.0	3902.8
70°	3464.7	2897.8	2852.4	2887.5	2792.3	3058.9	3977.5	3964.3	3546.8	3425.2
72.5°	2802.5	2112.5	2034.9	2083.2	2105.2	2387.9	3346.1	3006.2	2587.2	2492.0
75°	2226.8	1548.5	1306.8	1424.0	1498.7	1739.0	2613.6	2042.2	1806.3	1677.4
77.5°	1749.2	1172.0	1016.7	969.8	1038.7	1264.3	1901.6	1072.4	946.4	886.3
80°	1109.0	861.4	934.7	867.3	896.6	902.4	990.3	487.8	388.2	383.8
82.5°	668.0	588.9	700.3	385.3	701.7	627.0	411.7	221.2	196.3	196.3
85°	473.2	364.8	241.7	156.8	312.0	344.3	159.7	114.3	99.6	96.7
87.5°	237.3	112.8	54.2	35.2	39.6	64.5	19.0	8.8	8.8	7.3
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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