

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: P677289

Luminaire Tested: **CCW-SA-2B-740-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677289
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

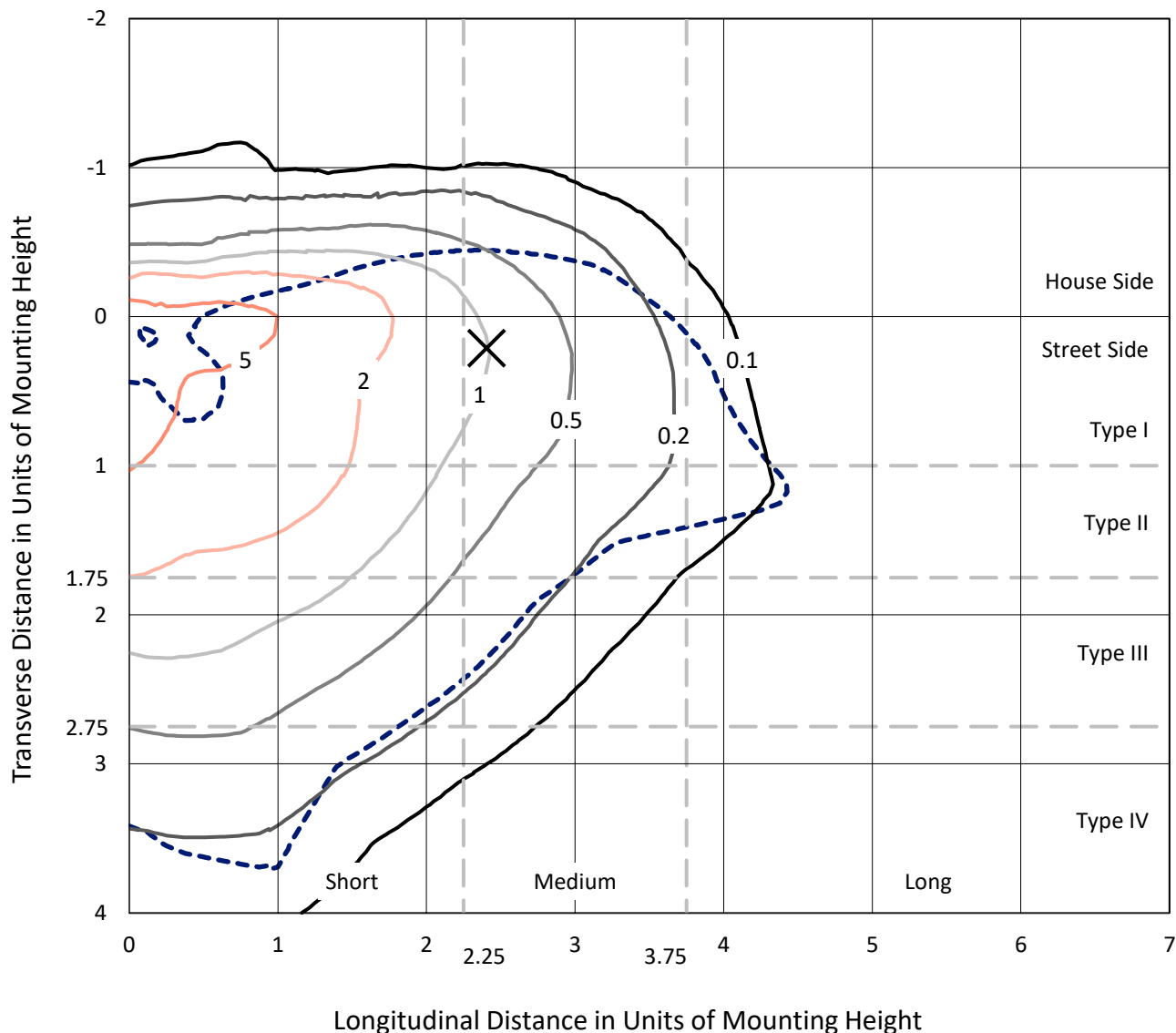
Lumens per Lamp: N/A
Luminaire Lumens: 5010.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

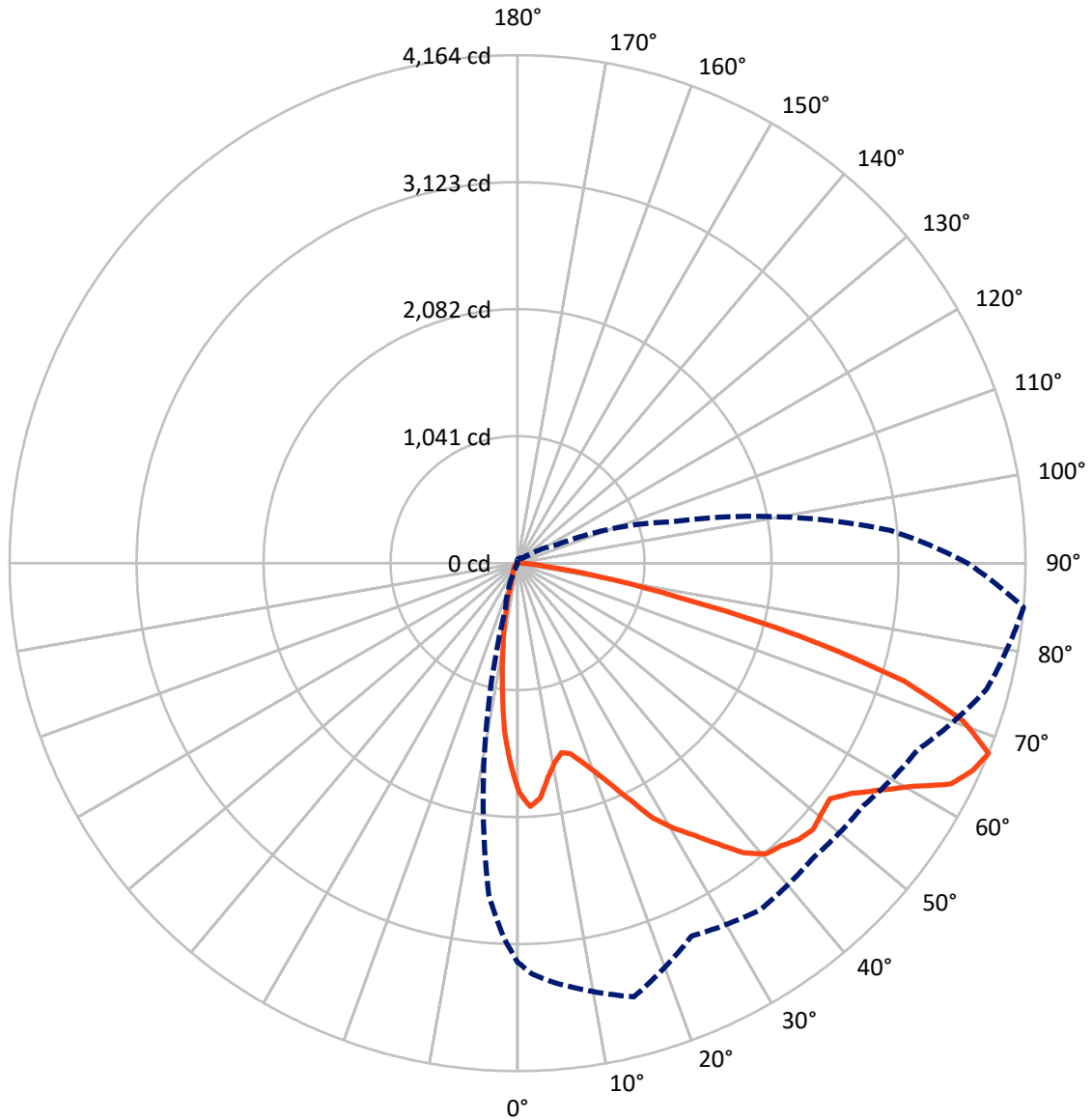
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.4 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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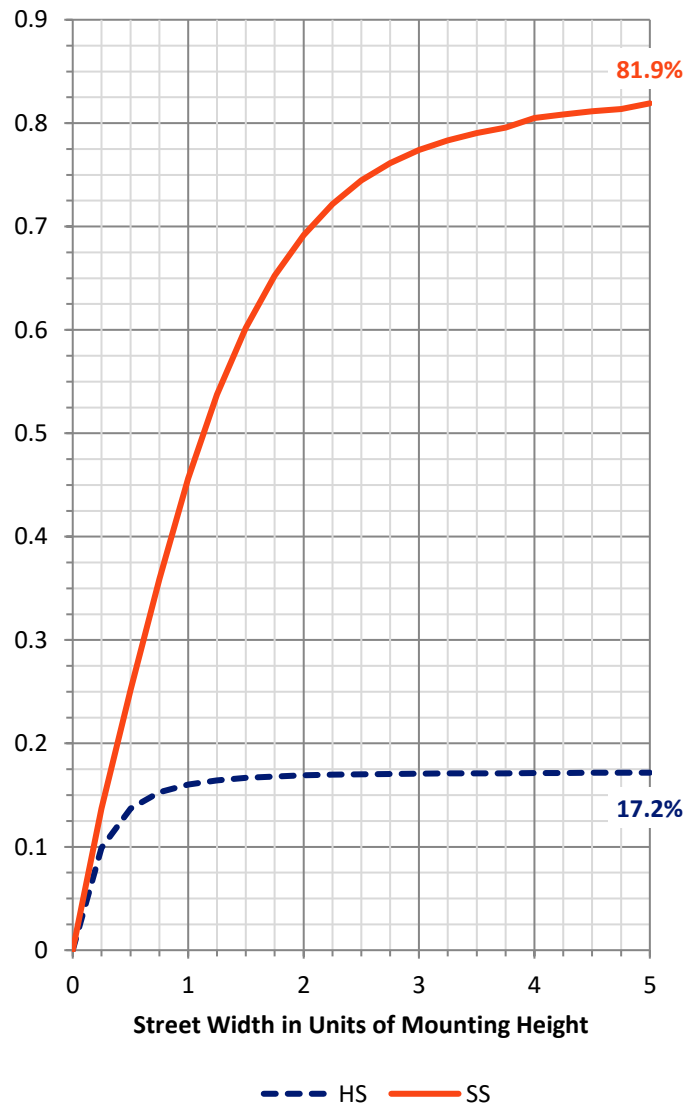
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.0	0.0	870.0
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4140.7	0.0	4140.7
	% Fixture	82.6	0.0	82.6
Total	Lumens	5010.7	0.0	5010.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.9
10°-20°	280.7	5.6
20°-30°	388.4	7.8
30°-40°	548.9	11.0
40°-50°	747.3	14.9
50°-60°	989.8	19.8
60°-70°	1149.2	22.9
70°-80°	650.8	13.0
80°-90°	112.5	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°	5010.7	100.0
0°-180°	5010.7	100.0

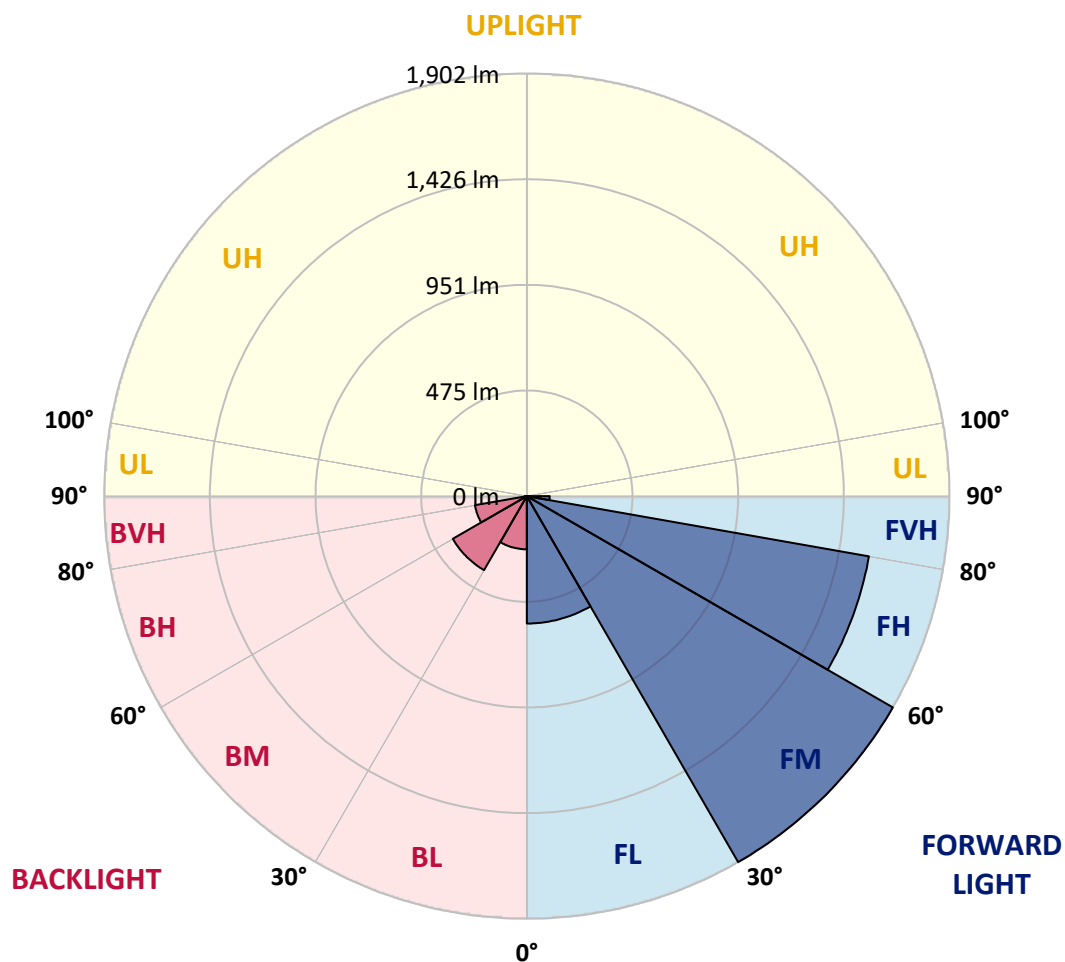


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.0	11.4			
FM (30°-60°)	1901.6	38.0			
FH (60°-80°)	1563.1	31.2			G1/1800
FVH (80°-90°)	103.0	2.1			G2/225
BL (0°-30°)	239.2	4.8	B1/500		
BM (30°-60°)	384.4	7.7	B1/1000		
BH (60°-80°)	236.9	4.7	B1/500		G1/500
BVH (80°-90°)	9.5	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°	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1957.6	1999.1	2000.4	2019.1	2037.9	2037.9	2082.0	2071.3	2032.5	2025.8	1997.7
5°	1972.3	1987.0	1997.7	2092.7	2173.0	2165.0	2189.1	2173.0	2098.1	2001.7	1936.2
7.5°	1845.2	1861.3	1904.1	2066.0	2174.4	2210.5	2256.0	2155.6	2076.7	1902.7	1777.0
10°	1676.6	1707.4	1786.3	1971.0	2104.8	2219.9	2219.9	2139.6	1987.0	1817.1	1663.2
12.5°	1582.9	1644.5	1687.3	1874.6	2048.6	2127.5	2124.8	2082.0	1983.0	1768.9	1595.0
15°	1599.0	1616.4	1707.4	1853.2	1968.3	1964.3	2012.5	1999.1	1929.5	1811.7	1620.4
17.5°	1672.6	1699.3	1778.3	1853.2	1908.1	1892.0	1890.7	1954.9	1958.9	1884.0	1715.4
20°	1793.0	1872.0	1909.4	1932.2	1865.3	1797.0	1789.0	1878.6	1948.2	1976.3	1829.1
22.5°	1985.7	2037.9	2114.1	1997.7	1823.8	1738.1	1722.1	1821.1	1961.6	2086.0	1976.3
25°	2174.4	2214.5	2288.1	2138.2	1870.6	1726.1	1698.0	1783.6	2012.5	2238.6	2154.3
27.5°	2373.7	2408.5	2416.5	2241.3	1896.0	1702.0	1668.6	1783.6	2055.3	2318.9	2367.0
30°	2495.5	2537.0	2545.0	2332.2	1937.5	1722.1	1706.0	1791.7	2084.7	2387.1	2519.6
32.5°	2632.0	2642.7	2636.0	2348.3	1983.0	1781.0	1714.1	1845.2	2118.2	2468.7	2658.7
35°	2795.2	2814.0	2745.7	2421.9	2084.7	1818.4	1794.3	1910.8	2175.7	2506.2	2827.3
37.5°	2919.7	2978.5	2824.7	2450.0	2104.8	1897.4	1901.4	2047.2	2215.8	2551.7	3013.3
40°	3153.8	3054.8	2958.5	2546.3	2181.0	2031.2	2009.8	2187.7	2351.0	2581.1	3135.1
42.5°	3282.3	3230.1	3010.6	2555.7	2298.8	2215.8	2221.2	2347.0	2421.9	2664.1	3168.5
45°	3314.4	3259.5	3081.6	2562.4	2415.2	2433.9	2526.3	2550.4	2526.3	2719.0	3231.4
47.5°	3396.0	3276.9	3073.5	2652.0	2603.9	2676.1	2793.9	2846.1	2668.1	2698.9	3260.9
50°	3380.0	3311.7	3056.1	2689.5	2834.0	3025.4	3104.3	3082.9	2826.0	2657.4	3228.8
52.5°	3313.1	3239.5	3109.7	2791.2	3049.5	3280.9	3390.7	3337.1	2966.5	2751.1	3207.3
55°	3410.7	3354.5	3179.2	2929.0	3211.4	3505.7	3583.3	3543.2	3139.1	2838.0	3329.1
57.5°	3516.4	3504.4	3367.9	3090.9	3402.7	3737.2	3737.2	3687.7	3289.0	2963.8	3509.7
60°	3669.0	3695.7	3507.1	3198.0	3468.3	3723.8	3917.9	3860.3	3440.2	3184.6	3714.5
62.5°	3619.5	3705.1	3686.4	3428.1	3543.2	3789.4	3895.1	3937.9	3627.5	3453.5	3987.4
65°	3460.2	3551.2	3685.0	3579.3	3487.0	3630.2	3683.7	3813.5	3721.2	3706.4	4099.8
67.5°	3270.2	3369.3	3452.2	3681.0	3373.3	3468.3	3421.4	3462.9	3619.5	3983.4	4164.1
70°	2855.4	2950.4	3081.6	3454.9	3072.2	2986.6	2974.5	2954.5	3198.0	3884.4	3872.4
72.5°	2348.3	2392.5	2609.2	2808.6	2273.4	2257.3	2276.1	2253.3	2535.6	3516.4	3317.1
75°	1758.2	1802.4	1925.5	2157.0	1548.1	1455.8	1562.9	1668.6	1936.2	2729.7	2383.1
77.5°	1322.0	1378.2	1455.8	1613.7	1136.0	991.5	1006.2	1106.6	1399.6	2186.4	1335.4
80°	857.7	851.0	1000.9	1110.6	855.0	881.8	844.3	917.9	1014.3	1169.5	682.4
82.5°	495.1	501.8	564.7	636.9	595.4	681.1	491.1	820.2	723.9	476.4	254.2
85°	278.3	290.4	347.9	441.6	373.3	250.2	204.7	406.8	454.9	195.4	123.1
87.5°	28.1	24.1	46.8	167.3	101.7	41.5	61.6	97.7	109.7	73.6	36.1
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°	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1957.6	1957.6	1924.1	1867.9	1845.2	1805.1	1750.2	1767.6	1748.9	1680.6	1663.2
5°	1877.3	1813.1	1743.5	1657.9	1608.4	1506.7	1474.5	1417.0	1426.4	1368.8	1371.5
7.5°	1710.0	1659.2	1541.5	1429.1	1331.4	1243.1	1118.6	1071.8	1026.3	1003.5	1030.3
10°	1612.4	1517.4	1356.8	1209.6	1079.8	1000.9	917.9	853.7	794.8	750.7	741.3
12.5°	1541.5	1457.2	1263.1	1083.8	982.1	917.9	841.6	753.3	695.8	619.5	596.8
15°	1520.0	1417.0	1212.3	1034.3	935.3	829.6	742.6	655.7	580.7	500.4	472.3
17.5°	1593.6	1474.5	1211.0	994.2	855.0	741.3	620.9	523.2	446.9	373.3	355.9
20°	1718.1	1536.1	1249.8	970.1	778.8	626.2	489.7	392.1	306.4	258.2	246.2
22.5°	1859.9	1640.5	1253.8	905.9	702.5	511.1	357.3	258.2	210.1	187.3	180.6
25°	2033.9	1807.7	1301.9	853.7	612.8	388.0	254.2	198.0	169.9	156.6	153.9
27.5°	2177.0	1924.1	1354.1	798.8	524.5	287.7	199.4	161.9	147.2	133.8	132.5
30°	2325.6	2057.9	1368.8	765.4	448.3	236.8	171.3	143.2	127.1	120.4	119.1
32.5°	2455.4	2203.8	1415.7	710.5	376.0	208.7	155.2	128.5	117.7	107.0	105.7
35°	2622.6	2288.1	1438.4	681.1	349.2	188.7	141.8	117.7	101.7	95.0	92.3
37.5°	2801.9	2369.7	1453.1	658.3	326.5	176.6	133.8	111.1	96.3	87.0	84.3
40°	2969.2	2484.8	1431.7	630.2	309.1	161.9	128.5	103.0	89.7	80.3	76.3
42.5°	3097.6	2597.2	1425.0	603.5	290.4	156.6	121.8	99.0	84.3	73.6	72.3
45°	3169.9	2673.5	1378.2	582.1	275.6	159.2	119.1	93.7	80.3	70.9	65.6
47.5°	3152.5	2732.3	1390.3	575.4	255.6	148.5	117.7	89.7	73.6	65.6	61.6
50°	3248.8	2851.4	1370.2	554.0	240.9	133.8	128.5	89.7	72.3	62.9	58.9
52.5°	3264.9	2959.8	1413.0	515.2	218.1	123.1	127.1	88.3	69.6	60.2	54.9
55°	3398.7	3085.6	1496.0	493.7	199.4	107.0	116.4	85.6	62.9	54.9	52.2
57.5°	3580.7	3346.5	1549.5	473.7	173.9	93.7	97.7	84.3	57.5	50.8	46.8
60°	3756.0	3450.9	1553.5	437.5	149.9	84.3	76.3	84.3	53.5	45.5	41.5
62.5°	3887.1	3450.9	1526.7	406.8	131.1	74.9	66.9	80.3	48.2	40.1	37.5
65°	3816.2	3358.5	1457.2	381.3	119.1	65.6	57.5	61.6	42.8	34.8	32.1
67.5°	3689.0	3070.9	1303.3	350.6	117.7	57.5	49.5	45.5	37.5	30.8	28.1
70°	3485.7	2682.8	1085.2	315.8	115.1	52.2	44.2	38.8	33.5	26.8	24.1
72.5°	2808.6	2215.8	891.2	295.7	112.4	45.5	37.5	33.5	28.1	22.7	20.1
75°	1945.5	1415.7	686.4	252.9	109.7	41.5	34.8	29.4	24.1	18.7	17.4
77.5°	1166.8	946.0	442.9	190.0	72.3	33.5	29.4	22.7	20.1	16.1	14.7
80°	545.9	446.9	179.3	73.6	34.8	24.1	20.1	17.4	16.1	13.4	12.0
82.5°	214.1	188.7	87.0	42.8	28.1	18.7	16.1	14.7	13.4	10.7	9.4
85°	115.1	101.7	41.5	29.4	20.1	13.4	13.4	12.0	10.7	9.4	8.0
87.5°	25.4	18.7	17.4	17.4	14.7	10.7	10.7	9.4	8.0	6.7	5.4
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°	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1653.9	1673.9	1641.8	1661.9	1633.8	1655.2	1657.9	1637.8	1643.1	1669.9	1681.9
5°	1409.0	1395.6	1366.2	1356.8	1358.1	1340.7	1347.4	1356.8	1371.5	1379.5	1403.6
7.5°	1015.6	1046.4	1045.0	1067.8	1069.1	1066.4	1047.7	1007.6	1020.9	1010.2	1023.6
10°	726.6	740.0	765.4	780.1	806.9	792.1	749.3	733.3	725.2	723.9	737.3
12.5°	580.7	548.6	545.9	551.3	564.7	547.3	525.9	507.1	516.5	535.2	549.9
15°	449.6	422.8	388.0	382.7	385.4	377.3	354.6	330.5	337.2	355.9	366.6
17.5°	345.2	314.4	290.4	274.3	269.0	240.9	207.4	187.3	182.0	180.6	190.0
20°	232.8	227.5	223.5	203.4	203.4	163.2	135.1	120.4	120.4	123.1	124.4
22.5°	173.9	167.3	168.6	164.6	153.9	121.8	107.0	103.0	103.0	105.7	105.7
25°	151.2	141.8	139.2	137.8	127.1	104.4	93.7	89.7	89.7	92.3	92.3
27.5°	128.5	125.8	121.8	116.4	107.0	89.7	83.0	78.9	80.3	81.6	80.3
30°	117.7	111.1	105.7	105.7	95.0	80.3	74.9	72.3	69.6	72.3	73.6
32.5°	104.4	100.4	97.7	93.7	81.6	70.9	65.6	62.9	61.6	61.6	62.9
35°	89.7	89.7	87.0	81.6	70.9	64.2	57.5	54.9	53.5	54.9	54.9
37.5°	80.3	76.3	77.6	72.3	62.9	56.2	49.5	46.8	46.8	45.5	46.8
40°	74.9	68.2	64.2	61.6	56.2	48.2	42.8	40.1	38.8	38.8	38.8
42.5°	66.9	61.6	53.5	52.2	50.8	41.5	34.8	33.5	32.1	30.8	30.8
45°	62.9	54.9	48.2	41.5	41.5	34.8	29.4	26.8	25.4	24.1	25.4
47.5°	57.5	49.5	41.5	34.8	33.5	28.1	22.7	20.1	18.7	18.7	18.7
50°	54.9	44.2	36.1	29.4	25.4	22.7	17.4	14.7	13.4	13.4	13.4
52.5°	50.8	41.5	32.1	25.4	20.1	17.4	13.4	10.7	9.4	9.4	9.4
55°	45.5	37.5	28.1	21.4	17.4	13.4	9.4	6.7	5.4	5.4	5.4
57.5°	42.8	33.5	24.1	18.7	13.4	9.4	5.4	4.0	4.0	2.7	4.0
60°	38.8	29.4	20.1	14.7	10.7	6.7	4.0	1.3	1.3	1.3	1.3
62.5°	33.5	25.4	17.4	12.0	8.0	4.0	1.3	0.0	0.0	0.0	0.0
65°	28.1	20.1	13.4	9.4	5.4	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	24.1	17.4	10.7	6.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.4	14.7	8.0	5.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.4	12.0	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.7	9.4	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.0	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.4	5.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	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°	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1699.3	1691.3	1731.5	1797.0	1830.5	1896.0	1912.1	1953.6	1942.9	1957.6
5°	1406.3	1422.4	1481.2	1577.6	1612.4	1707.4	1797.0	1886.7	1944.2	1972.3
7.5°	1043.7	1097.2	1169.5	1257.8	1347.4	1471.9	1624.4	1728.8	1785.0	1845.2
10°	777.4	835.0	917.9	1004.9	1150.7	1289.9	1442.4	1572.2	1620.4	1676.6
12.5°	611.5	701.1	797.5	891.2	978.1	1110.6	1299.3	1487.9	1540.1	1582.9
15°	425.5	535.2	673.0	794.8	916.6	1031.6	1227.0	1455.8	1526.7	1599.0
17.5°	235.5	322.5	480.4	651.6	830.9	1007.6	1251.1	1514.7	1621.7	1672.6
20°	136.5	171.3	283.7	487.1	723.9	955.4	1263.1	1625.8	1767.6	1793.0
22.5°	112.4	124.4	160.6	305.1	592.8	921.9	1324.7	1781.0	1925.5	1985.7
25°	96.3	105.7	124.4	183.3	448.3	851.0	1363.5	1975.0	2108.8	2174.4
27.5°	85.6	95.0	109.7	135.1	305.1	753.3	1427.7	2150.3	2284.1	2373.7
30°	74.9	83.0	97.7	115.1	211.4	643.6	1482.6	2278.7	2467.4	2495.5
32.5°	66.9	73.6	84.3	99.0	156.6	488.4	1526.7	2411.2	2570.4	2632.0
35°	57.5	65.6	72.3	84.3	119.1	368.0	1500.0	2514.2	2721.6	2795.2
37.5°	50.8	56.2	62.9	70.9	100.4	287.7	1445.1	2637.3	2851.4	2919.7
40°	42.8	46.8	54.9	62.9	91.0	222.1	1382.2	2785.9	3033.4	3153.8
42.5°	36.1	40.1	45.5	58.9	74.9	164.6	1255.1	2900.9	3180.6	3282.3
45°	28.1	33.5	41.5	58.9	60.2	121.8	1124.0	2986.6	3263.5	3314.4
47.5°	21.4	26.8	40.1	50.8	48.2	84.3	968.8	3084.2	3349.2	3396.0
50°	16.1	21.4	45.5	44.2	40.1	64.2	871.1	3152.5	3354.5	3380.0
52.5°	10.7	16.1	37.5	33.5	33.5	56.2	844.3	3149.8	3367.9	3313.1
55°	8.0	12.0	21.4	24.1	29.4	49.5	820.2	3250.2	3371.9	3410.7
57.5°	5.4	9.4	14.7	18.7	25.4	42.8	770.7	3370.6	3496.4	3516.4
60°	2.7	6.7	10.7	14.7	21.4	37.5	701.1	3458.9	3647.6	3669.0
62.5°	1.3	4.0	8.0	12.0	17.4	29.4	628.9	3318.4	3582.0	3619.5
65°	0.0	2.7	5.4	8.0	10.7	21.4	511.1	2995.9	3322.4	3460.2
67.5°	0.0	0.0	2.7	5.4	6.7	16.1	385.4	2725.6	3082.9	3270.2
70°	0.0	0.0	1.3	1.3	4.0	12.0	246.2	2257.3	2752.4	2855.4
72.5°	0.0	0.0	0.0	0.0	1.3	8.0	143.2	1676.6	2157.0	2348.3
75°	0.0	0.0	0.0	0.0	0.0	6.7	72.3	1078.5	1501.3	1758.2
77.5°	0.0	0.0	0.0	0.0	0.0	5.4	38.8	695.8	1106.6	1322.0
80°	0.0	0.0	0.0	0.0	0.0	1.3	22.7	404.1	707.8	857.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.4	198.0	422.8	495.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	105.7	211.4	278.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	14.7	28.1
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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