

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: P677334

Luminaire Tested: **CCW-SA-2C-830-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677334
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-830-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

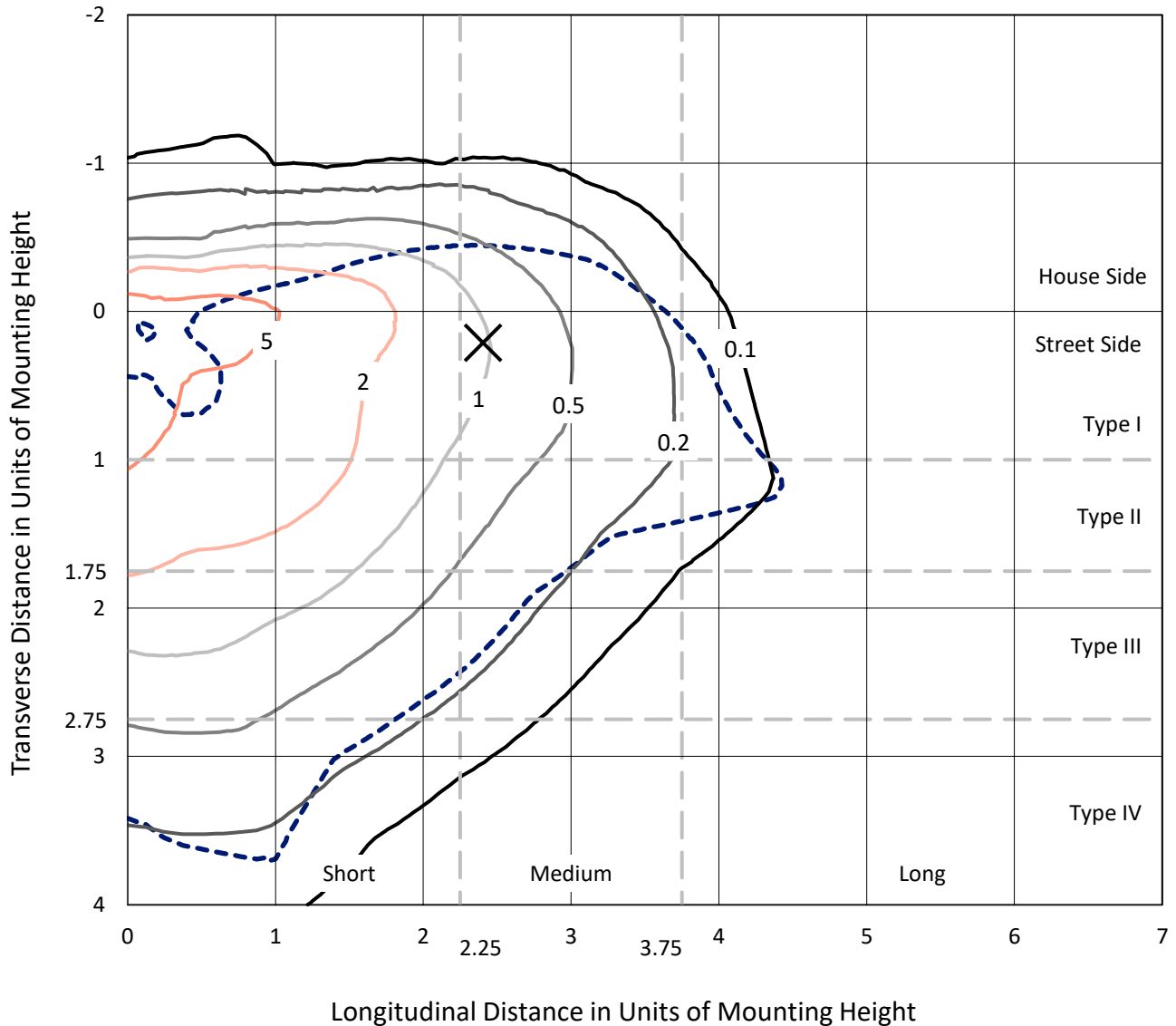
Lumens per Lamp: N/A
Luminaire Lumens: 5212.6 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

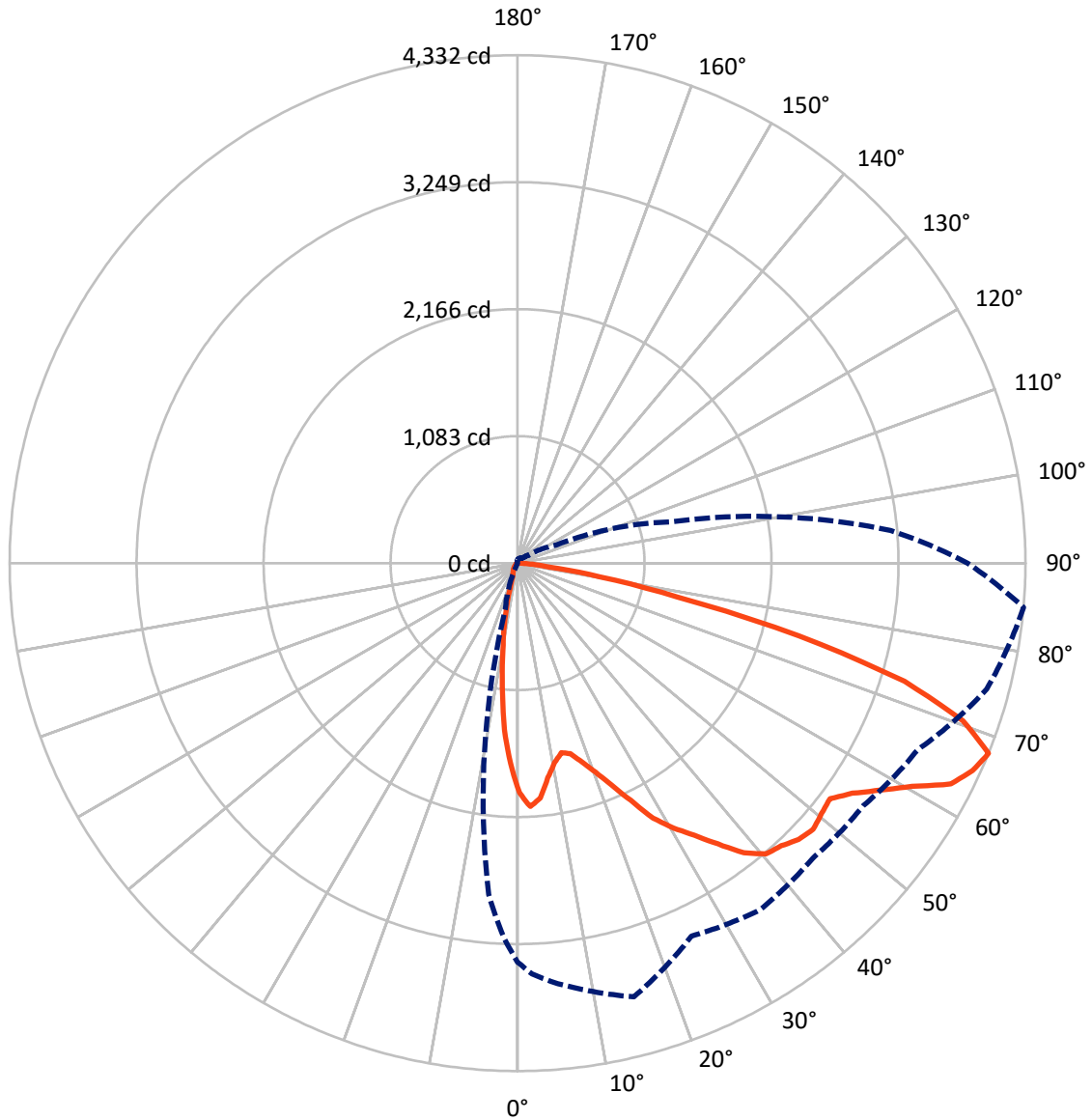
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.8 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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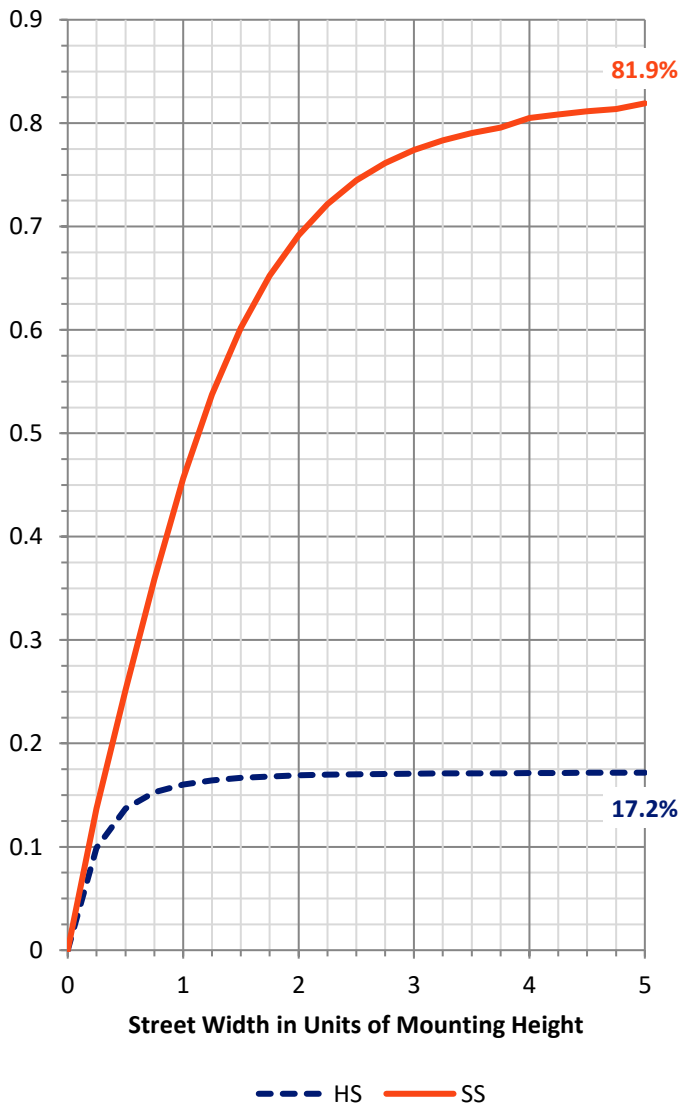
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.1	0.0	905.1
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4307.5	0.0	4307.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	5212.6	0.0	5212.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	2.9
10°-20°	292.0	5.6
20°-30°	404.0	7.8
30°-40°	571.0	11.0
40°-50°	777.4	14.9
50°-60°	1029.7	19.8
60°-70°	1195.5	22.9
70°-80°	677.0	13.0
80°-90°	117.0	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°	5212.6	100.0
0°-180°	5212.6	100.0



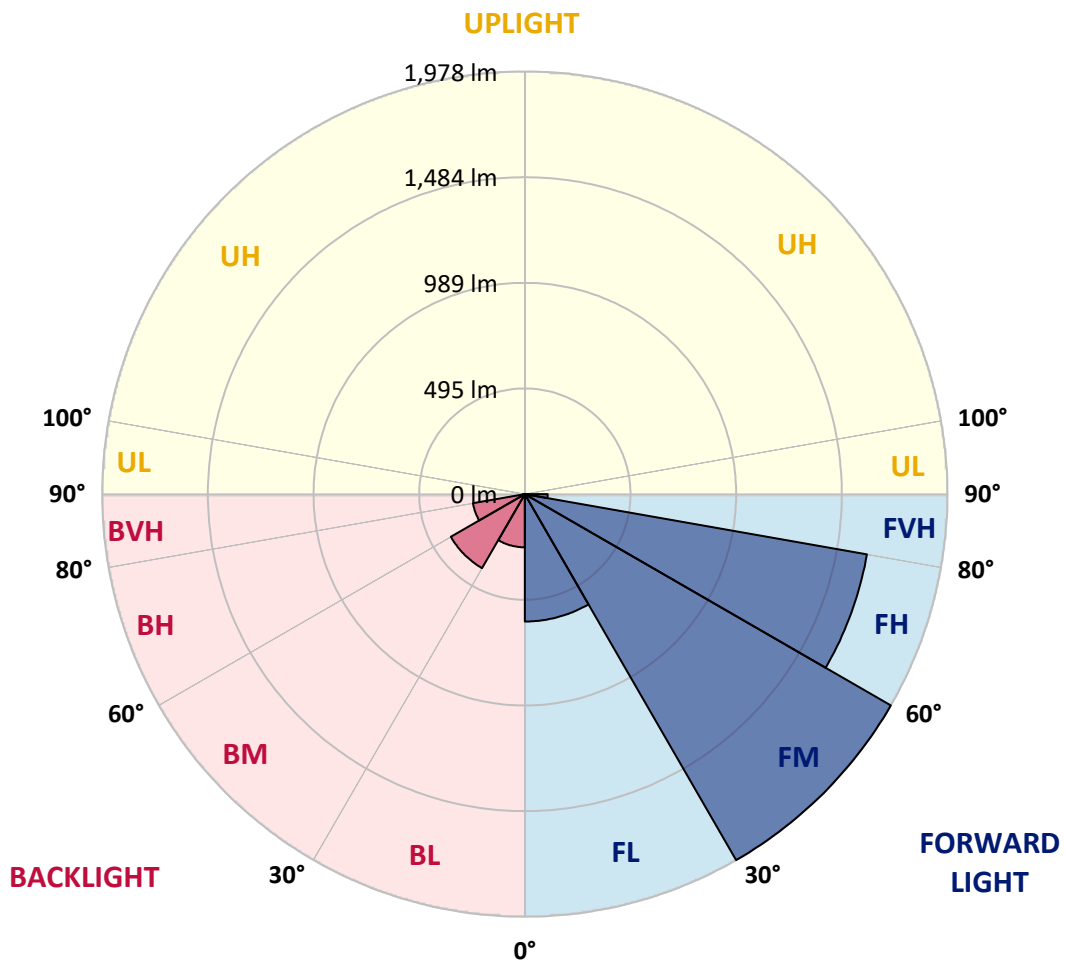
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.1	11.4			
FM (30°-60°)	1978.2	38.0			
FH (60°-80°)	1626.1	31.2			G1/1800
FVH (80°-90°)	107.1	2.1			G2/225
BL (0°-30°)	248.8	4.8	B1/500		
BM (30°-60°)	399.9	7.7	B1/1000		
BH (60°-80°)	246.5	4.7	B1/500		G1/500
BVH (80°-90°)	9.9	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°	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	2036.4	2079.6	2081.0	2100.5	2120.0	2120.0	2165.9	2154.8	2114.4	2107.4	2078.2
5°	2051.8	2067.1	2078.2	2177.0	2260.6	2252.2	2277.3	2260.6	2182.6	2082.4	2014.2
7.5°	1919.5	1936.2	1980.8	2149.2	2261.9	2299.5	2346.9	2242.5	2160.3	1979.4	1848.5
10°	1744.1	1776.1	1858.3	2050.4	2189.6	2309.3	2309.3	2225.8	2067.1	1890.3	1730.2
12.5°	1646.7	1710.7	1755.3	1950.1	2131.1	2213.2	2210.4	2165.9	2062.9	1840.2	1659.2
15°	1663.4	1681.5	1776.1	1927.9	2047.6	2043.4	2093.5	2079.6	2007.2	1884.7	1685.7
17.5°	1740.0	1767.8	1849.9	1927.9	1984.9	1968.2	1966.8	2033.7	2037.8	1959.9	1784.5
20°	1865.2	1947.4	1986.3	2010.0	1940.4	1869.4	1861.1	1954.3	2026.7	2055.9	1902.8
22.5°	2065.7	2120.0	2199.3	2078.2	1897.2	1808.2	1791.5	1894.5	2040.6	2170.1	2055.9
25°	2261.9	2303.7	2380.3	2224.4	1946.0	1795.6	1766.4	1855.5	2093.5	2328.8	2241.1
27.5°	2469.3	2505.5	2513.9	2331.5	1972.4	1770.6	1735.8	1855.5	2138.1	2412.3	2462.4
30°	2596.0	2639.2	2647.5	2426.2	2015.6	1791.5	1774.8	1863.8	2168.7	2483.3	2621.1
32.5°	2738.0	2749.1	2742.2	2442.9	2062.9	1852.7	1783.1	1919.5	2203.5	2568.2	2765.8
35°	2907.8	2927.3	2856.3	2519.5	2168.7	1891.7	1866.6	1987.7	2263.3	2607.2	2941.2
37.5°	3037.3	3098.5	2938.4	2548.7	2189.6	1973.8	1978.0	2129.7	2305.1	2654.5	3134.7
40°	3280.9	3177.9	3077.6	2648.9	2268.9	2113.0	2090.7	2275.9	2445.7	2685.1	3261.4
42.5°	3414.5	3360.2	3131.9	2658.7	2391.4	2305.1	2310.7	2441.5	2519.5	2771.4	3296.2
45°	3447.9	3390.8	3205.7	2665.6	2512.5	2532.0	2628.0	2653.1	2628.0	2828.5	3361.6
47.5°	3532.8	3408.9	3197.3	2758.9	2708.8	2783.9	2906.4	2960.7	2775.6	2807.6	3392.2
50°	3516.1	3445.1	3179.2	2797.9	2948.2	3147.2	3229.4	3207.1	2939.8	2764.4	3358.8
52.5°	3446.5	3369.9	3234.9	2903.6	3172.3	3413.1	3527.2	3471.6	3086.0	2861.9	3336.5
55°	3548.1	3489.7	3307.3	3047.0	3340.7	3646.9	3727.7	3685.9	3265.6	2952.4	3463.2
57.5°	3658.1	3645.6	3503.6	3215.4	3539.8	3887.8	3887.8	3836.3	3421.5	3083.2	3651.1
60°	3816.8	3844.6	3648.3	3326.8	3608.0	3873.8	4075.7	4015.8	3578.7	3312.9	3864.1
62.5°	3765.3	3854.4	3834.9	3566.2	3685.9	3942.0	4052.0	4096.6	3773.6	3592.7	4148.1
65°	3599.6	3694.3	3833.5	3723.5	3627.5	3776.4	3832.1	3967.1	3871.1	3855.7	4265.0
67.5°	3402.0	3505.0	3591.3	3829.3	3509.1	3608.0	3559.3	3602.4	3765.3	4143.9	4331.8
70°	2970.5	3069.3	3205.7	3594.1	3196.0	3106.9	3094.3	3073.5	3326.8	4040.9	4028.3
72.5°	2442.9	2488.8	2714.3	2921.7	2364.9	2348.2	2367.7	2344.1	2637.8	3658.1	3450.7
75°	1829.0	1875.0	2003.0	2243.8	1610.5	1514.5	1625.8	1735.8	2014.2	2839.6	2479.1
77.5°	1375.3	1433.7	1514.5	1678.7	1181.8	1031.4	1046.8	1151.2	1456.0	2274.5	1389.2
80°	892.2	885.3	1041.2	1155.3	889.5	917.3	878.3	954.9	1055.1	1216.6	709.9
82.5°	515.0	522.0	587.4	662.6	619.4	708.5	510.9	853.3	753.1	495.5	264.5
85°	289.5	302.1	361.9	459.3	388.4	260.3	213.0	423.2	473.3	203.2	128.1
87.5°	29.2	25.1	48.7	174.0	105.8	43.2	64.0	101.6	114.1	76.6	37.6
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°	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	2036.4	2036.4	2001.6	1943.2	1919.5	1877.8	1820.7	1838.8	1819.3	1748.3	1730.2
5°	1952.9	1886.1	1813.7	1724.6	1673.1	1567.4	1533.9	1474.1	1483.8	1424.0	1426.8
7.5°	1778.9	1726.0	1603.5	1486.6	1385.0	1293.1	1163.7	1115.0	1067.6	1044.0	1071.8
10°	1677.3	1578.5	1411.5	1258.3	1123.3	1041.2	954.9	888.1	826.8	780.9	771.1
12.5°	1603.5	1515.9	1314.0	1127.5	1021.7	954.9	875.5	783.7	723.8	644.5	620.8
15°	1581.3	1474.1	1261.1	1076.0	973.0	863.0	772.5	682.1	604.1	520.6	491.4
17.5°	1657.8	1533.9	1259.7	1034.2	889.5	771.1	645.9	544.3	464.9	388.4	370.3
20°	1787.3	1598.0	1300.1	1009.2	810.1	651.4	509.5	407.8	318.8	268.6	256.1
22.5°	1934.8	1706.5	1304.3	942.4	730.8	531.7	371.7	268.6	218.5	194.9	187.9
25°	2115.8	1880.5	1354.4	888.1	637.5	403.7	264.5	206.0	176.8	162.9	160.1
27.5°	2264.7	2001.6	1408.7	831.0	545.7	299.3	207.4	168.4	153.1	139.2	137.8
30°	2419.2	2140.8	1424.0	796.2	466.3	246.4	178.2	148.9	132.2	125.3	123.9
32.5°	2554.3	2292.6	1472.7	739.1	391.1	217.1	161.5	133.6	122.5	111.4	110.0
35°	2728.3	2380.3	1496.4	708.5	363.3	196.3	147.5	122.5	105.8	98.8	96.0
37.5°	2914.8	2465.2	1511.7	684.8	339.6	183.7	139.2	115.5	100.2	90.5	87.7
40°	3088.8	2584.9	1489.4	655.6	321.5	168.4	133.6	107.2	93.3	83.5	79.3
42.5°	3222.4	2701.8	1482.4	627.8	302.1	162.9	126.7	103.0	87.7	76.6	75.2
45°	3297.6	2781.1	1433.7	605.5	286.7	165.6	123.9	97.4	83.5	73.8	68.2
47.5°	3279.5	2842.4	1446.3	598.5	265.9	154.5	122.5	93.3	76.6	68.2	64.0
50°	3379.7	2966.3	1425.4	576.3	250.6	139.2	133.6	93.3	75.2	65.4	61.2
52.5°	3396.4	3079.0	1469.9	535.9	226.9	128.1	132.2	91.9	72.4	62.6	57.1
55°	3535.6	3209.9	1556.2	513.6	207.4	111.4	121.1	89.1	65.4	57.1	54.3
57.5°	3724.9	3481.3	1611.9	492.8	181.0	97.4	101.6	87.7	59.9	52.9	48.7
60°	3907.2	3589.9	1616.1	455.2	155.9	87.7	79.3	87.7	55.7	47.3	43.2
62.5°	4043.7	3589.9	1588.2	423.2	136.4	78.0	69.6	83.5	50.1	41.8	39.0
65°	3969.9	3493.8	1515.9	396.7	123.9	68.2	59.9	64.0	44.5	36.2	33.4
67.5°	3837.6	3194.6	1355.8	364.7	122.5	59.9	51.5	47.3	39.0	32.0	29.2
70°	3626.1	2790.9	1128.9	328.5	119.7	54.3	45.9	40.4	34.8	27.8	25.1
72.5°	2921.7	2305.1	927.0	307.6	116.9	47.3	39.0	34.8	29.2	23.7	20.9
75°	2023.9	1472.7	714.1	263.1	114.1	43.2	36.2	30.6	25.1	19.5	18.1
77.5°	1213.8	984.1	460.7	197.7	75.2	34.8	30.6	23.7	20.9	16.7	15.3
80°	567.9	464.9	186.5	76.6	36.2	25.1	20.9	18.1	16.7	13.9	12.5
82.5°	222.7	196.3	90.5	44.5	29.2	19.5	16.7	15.3	13.9	11.1	9.7
85°	119.7	105.8	43.2	30.6	20.9	13.9	13.9	12.5	11.1	9.7	8.4
87.5°	26.4	19.5	18.1	18.1	15.3	11.1	11.1	9.7	8.4	7.0	5.6
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°	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	1720.5	1741.3	1707.9	1728.8	1699.6	1721.9	1724.6	1703.8	1709.3	1737.2	1749.7
5°	1465.7	1451.8	1421.2	1411.5	1412.8	1394.7	1401.7	1411.5	1426.8	1435.1	1460.2
7.5°	1056.5	1088.5	1087.1	1110.8	1112.2	1109.4	1089.9	1048.1	1062.1	1050.9	1064.9
10°	755.8	769.8	796.2	811.5	839.4	824.0	779.5	762.8	754.4	753.1	767.0
12.5°	604.1	570.7	567.9	573.5	587.4	569.3	547.0	527.6	537.3	556.8	572.1
15°	467.7	439.9	403.7	398.1	400.9	392.5	368.9	343.8	350.8	370.3	381.4
17.5°	359.1	327.1	302.1	285.4	279.8	250.6	215.8	194.9	189.3	187.9	197.7
20°	242.2	236.6	232.5	211.6	211.6	169.8	140.6	125.3	125.3	128.1	129.5
22.5°	181.0	174.0	175.4	171.2	160.1	126.7	111.4	107.2	107.2	110.0	110.0
25°	157.3	147.5	144.8	143.4	132.2	108.6	97.4	93.3	93.3	96.0	96.0
27.5°	133.6	130.8	126.7	121.1	111.4	93.3	86.3	82.1	83.5	84.9	83.5
30°	122.5	115.5	110.0	110.0	98.8	83.5	78.0	75.2	72.4	75.2	76.6
32.5°	108.6	104.4	101.6	97.4	84.9	73.8	68.2	65.4	64.0	64.0	65.4
35°	93.3	93.3	90.5	84.9	73.8	66.8	59.9	57.1	55.7	57.1	57.1
37.5°	83.5	79.3	80.7	75.2	65.4	58.5	51.5	48.7	48.7	47.3	48.7
40°	78.0	71.0	66.8	64.0	58.5	50.1	44.5	41.8	40.4	40.4	40.4
42.5°	69.6	64.0	55.7	54.3	52.9	43.2	36.2	34.8	33.4	32.0	32.0
45°	65.4	57.1	50.1	43.2	43.2	36.2	30.6	27.8	26.4	25.1	26.4
47.5°	59.9	51.5	43.2	36.2	34.8	29.2	23.7	20.9	19.5	19.5	19.5
50°	57.1	45.9	37.6	30.6	26.4	23.7	18.1	15.3	13.9	13.9	13.9
52.5°	52.9	43.2	33.4	26.4	20.9	18.1	13.9	11.1	9.7	9.7	9.7
55°	47.3	39.0	29.2	22.3	18.1	13.9	9.7	7.0	5.6	5.6	5.6
57.5°	44.5	34.8	25.1	19.5	13.9	9.7	5.6	4.2	4.2	2.8	4.2
60°	40.4	30.6	20.9	15.3	11.1	7.0	4.2	1.4	1.4	1.4	1.4
62.5°	34.8	26.4	18.1	12.5	8.4	4.2	1.4	0.0	0.0	0.0	0.0
65°	29.2	20.9	13.9	9.7	5.6	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	25.1	18.1	11.1	7.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.3	15.3	8.4	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.1	12.5	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.3	9.7	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.5	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.7	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.4	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°	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	1767.8	1759.4	1801.2	1869.4	1904.2	1972.4	1989.1	2032.3	2021.1	2036.4
5°	1463.0	1479.7	1540.9	1641.1	1677.3	1776.1	1869.4	1962.7	2022.5	2051.8
7.5°	1085.7	1141.4	1216.6	1308.4	1401.7	1531.2	1689.8	1798.4	1856.9	1919.5
10°	808.7	868.6	954.9	1045.4	1197.1	1341.9	1500.5	1635.6	1685.7	1744.1
12.5°	636.1	729.4	829.6	927.0	1017.5	1155.3	1351.6	1547.9	1602.2	1646.7
15°	442.6	556.8	700.2	826.8	953.5	1073.2	1276.4	1514.5	1588.2	1663.4
17.5°	245.0	335.5	499.7	677.9	864.4	1048.1	1301.5	1575.7	1687.1	1740.0
20°	142.0	178.2	295.1	506.7	753.1	993.9	1314.0	1691.2	1838.8	1865.2
22.5°	116.9	129.5	167.0	317.4	616.6	959.1	1378.0	1852.7	2003.0	2065.7
25°	100.2	110.0	129.5	190.7	466.3	885.3	1418.4	2054.5	2193.7	2261.9
27.5°	89.1	98.8	114.1	140.6	317.4	783.7	1485.2	2236.9	2376.1	2469.3
30°	78.0	86.3	101.6	119.7	219.9	669.5	1542.3	2370.5	2566.8	2596.0
32.5°	69.6	76.6	87.7	103.0	162.9	508.1	1588.2	2508.3	2674.0	2738.0
35°	59.9	68.2	75.2	87.7	123.9	382.8	1560.4	2615.5	2831.3	2907.8
37.5°	52.9	58.5	65.4	73.8	104.4	299.3	1503.3	2743.6	2966.3	3037.3
40°	44.5	48.7	57.1	65.4	94.7	231.1	1437.9	2898.1	3155.6	3280.9
42.5°	37.6	41.8	47.3	61.2	78.0	171.2	1305.7	3017.8	3308.7	3414.5
45°	29.2	34.8	43.2	61.2	62.6	126.7	1169.3	3106.9	3395.0	3447.9
47.5°	22.3	27.8	41.8	52.9	50.1	87.7	1007.8	3208.5	3484.1	3532.8
50°	16.7	22.3	47.3	45.9	41.8	66.8	906.2	3279.5	3489.7	3516.1
52.5°	11.1	16.7	39.0	34.8	34.8	58.5	878.3	3276.7	3503.6	3446.5
55°	8.4	12.5	22.3	25.1	30.6	51.5	853.3	3381.1	3507.8	3548.1
57.5°	5.6	9.7	15.3	19.5	26.4	44.5	801.8	3506.4	3637.2	3658.1
60°	2.8	7.0	11.1	15.3	22.3	39.0	729.4	3598.2	3794.5	3816.8
62.5°	1.4	4.2	8.4	12.5	18.1	30.6	654.2	3452.1	3726.3	3765.3
65°	0.0	2.8	5.6	8.4	11.1	22.3	531.7	3116.6	3456.2	3599.6
67.5°	0.0	0.0	2.8	5.6	7.0	16.7	400.9	2835.4	3207.1	3402.0
70°	0.0	0.0	1.4	1.4	4.2	12.5	256.1	2348.2	2863.3	2970.5
72.5°	0.0	0.0	0.0	0.0	1.4	8.4	148.9	1744.1	2243.8	2442.9
75°	0.0	0.0	0.0	0.0	0.0	7.0	75.2	1121.9	1561.8	1829.0
77.5°	0.0	0.0	0.0	0.0	0.0	5.6	40.4	723.8	1151.2	1375.3
80°	0.0	0.0	0.0	0.0	0.0	1.4	23.7	420.4	736.3	892.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	206.0	439.9	515.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	110.0	219.9	289.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	15.3	29.2
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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