

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: P677287

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677287
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-740-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

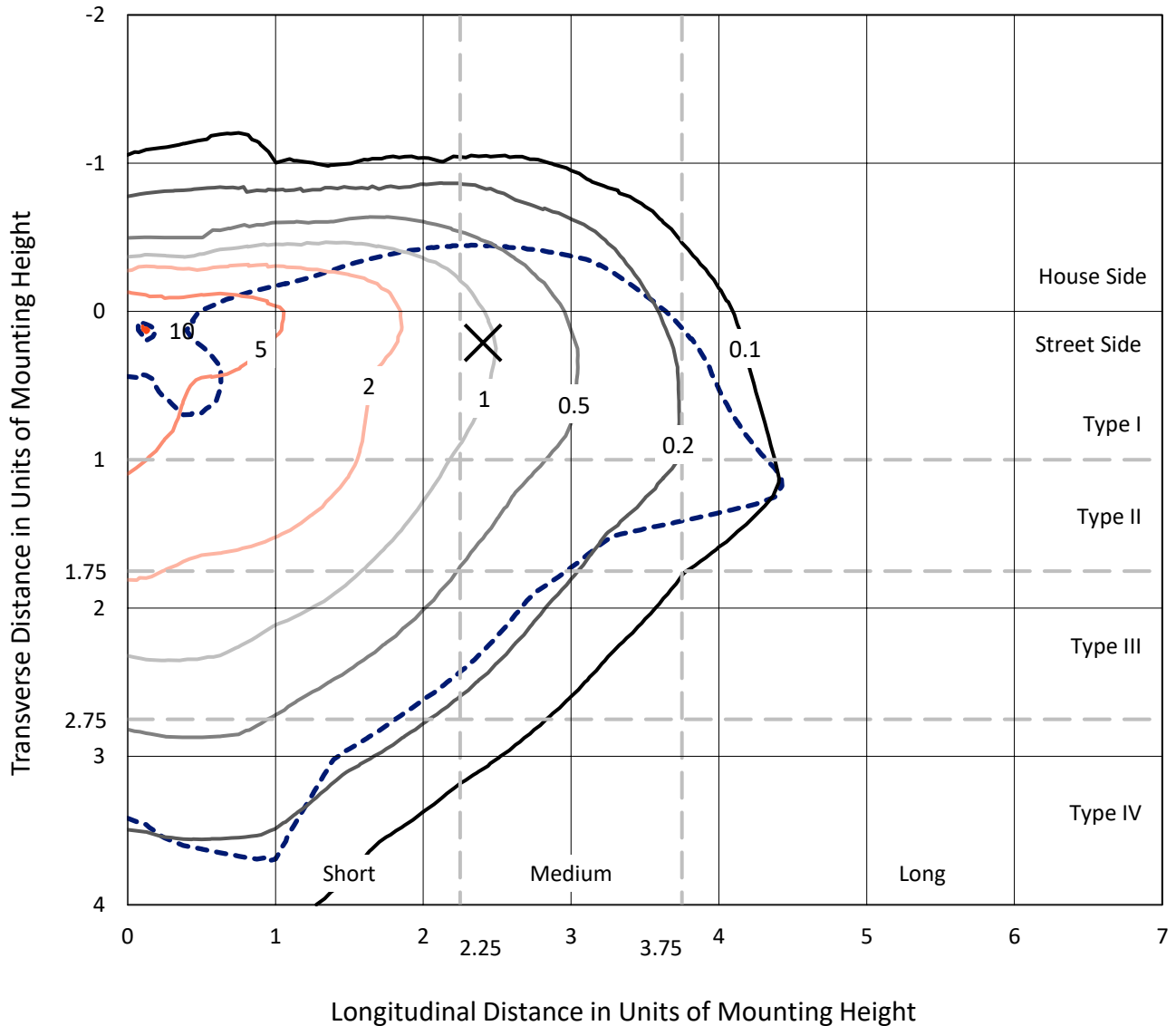
Lumens per Lamp: N/A
Luminaire Lumens: 5439.9 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

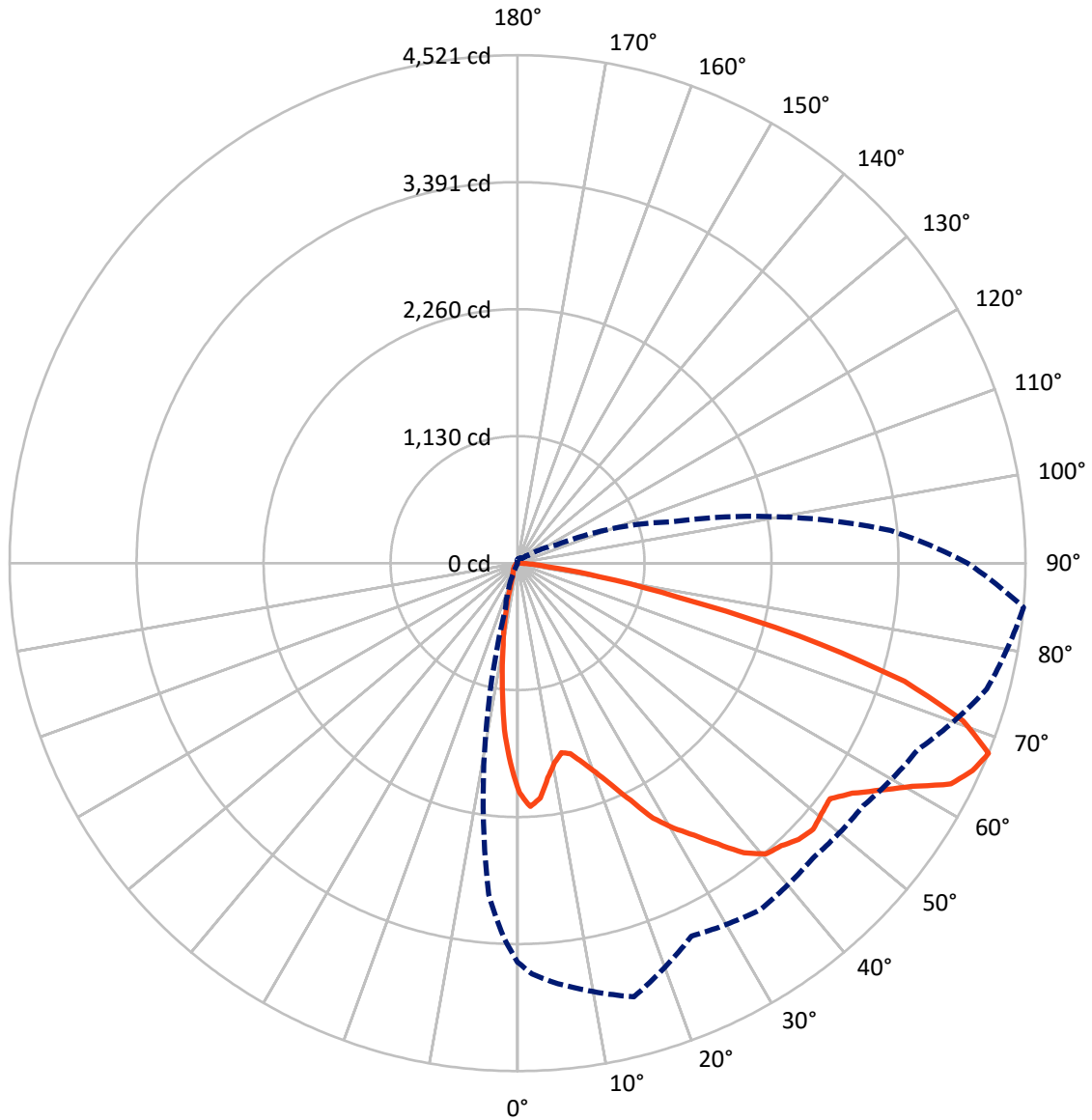
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.2 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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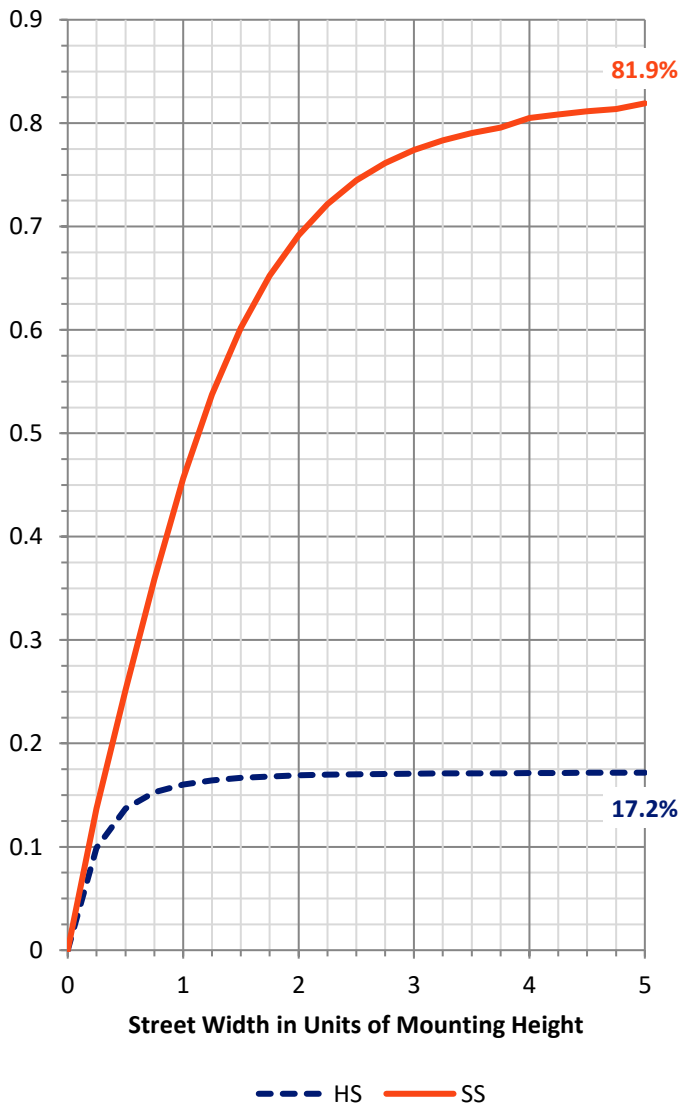
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.5	0.0	944.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4495.3	0.0	4495.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	5439.9	0.0	5439.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	2.9
10°-20°	304.7	5.6
20°-30°	421.7	7.8
30°-40°	595.9	11.0
40°-50°	811.3	14.9
50°-60°	1074.6	19.8
60°-70°	1247.7	22.9
70°-80°	706.6	13.0
80°-90°	122.1	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°	5439.9	100.0
0°-180°	5439.9	100.0



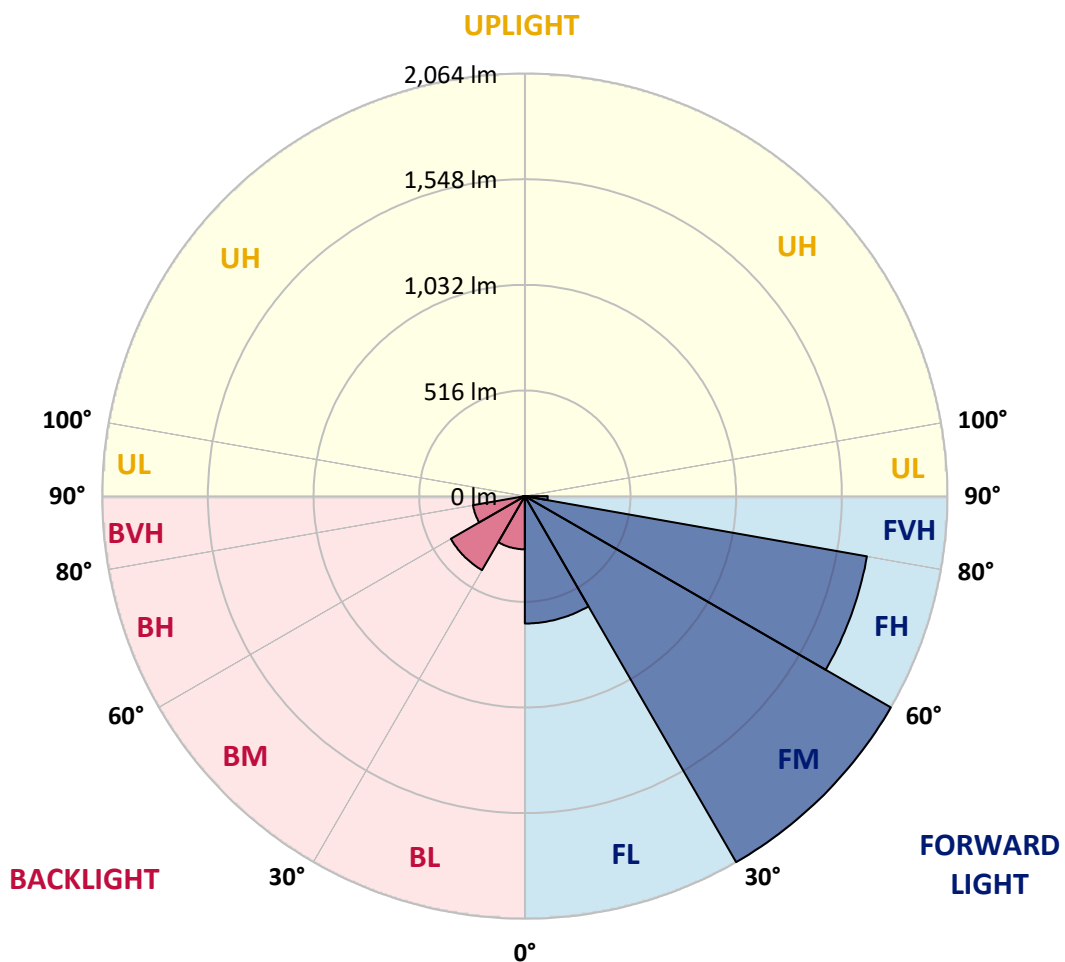
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.1	11.4			
FM (30°-60°)	2064.5	38.0			
FH (60°-80°)	1697.0	31.2			G1/1800
FVH (80°-90°)	111.8	2.1			G2/225
BL (0°-30°)	259.7	4.8	B1/500		
BM (30°-60°)	417.3	7.7	B1/1000		
BH (60°-80°)	257.2	4.7	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			G1/100
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°	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4
2.5°	2125.2	2170.3	2171.7	2192.1	2212.4	2212.4	2260.3	2248.7	2206.6	2199.3	2168.8
5°	2141.2	2157.2	2168.8	2272.0	2359.1	2350.4	2376.6	2359.1	2277.8	2173.2	2102.0
7.5°	2003.2	2020.7	2067.1	2242.9	2360.6	2399.8	2449.2	2340.2	2254.5	2065.7	1929.1
10°	1820.2	1853.6	1939.3	2139.8	2285.0	2410.0	2410.0	2322.8	2157.2	1972.7	1805.7
12.5°	1718.5	1785.3	1831.8	2035.2	2224.0	2309.7	2306.8	2260.3	2152.8	1920.4	1731.6
15°	1735.9	1754.8	1853.6	2011.9	2136.9	2132.5	2184.8	2170.3	2094.7	1966.9	1759.2
17.5°	1815.8	1844.9	1930.6	2011.9	2071.5	2054.1	2052.6	2122.3	2126.7	2045.4	1862.3
20°	1946.6	2032.3	2073.0	2097.6	2025.0	1950.9	1942.2	2039.5	2115.1	2145.6	1985.8
22.5°	2155.8	2212.4	2295.2	2168.8	1980.0	1887.0	1869.6	1977.1	2129.6	2264.7	2145.6
25°	2360.6	2404.2	2484.1	2321.4	2030.8	1873.9	1843.4	1936.4	2184.8	2430.3	2338.8
27.5°	2577.0	2614.8	2623.5	2433.2	2058.4	1847.8	1811.5	1936.4	2231.3	2517.5	2569.8
30°	2709.2	2754.2	2763.0	2532.0	2103.5	1869.6	1852.1	1945.1	2263.2	2591.6	2735.4
32.5°	2857.4	2869.0	2861.7	2549.4	2152.8	1933.5	1860.9	2003.2	2299.6	2680.2	2886.4
35°	3034.6	3055.0	2980.9	2629.3	2263.2	1974.2	1948.0	2074.4	2362.0	2720.8	3069.5
37.5°	3169.7	3233.6	3066.6	2659.8	2285.0	2059.9	2064.2	2222.6	2405.6	2770.2	3271.4
40°	3423.9	3316.4	3211.8	2764.4	2367.8	2205.1	2181.9	2375.1	2552.3	2802.2	3403.6
42.5°	3563.4	3506.7	3268.5	2774.6	2495.7	2405.6	2411.4	2548.0	2629.3	2892.3	3439.9
45°	3598.2	3538.7	3345.5	2781.9	2622.1	2642.4	2742.6	2768.8	2742.6	2951.8	3508.2
47.5°	3686.9	3557.6	3336.8	2879.2	2826.9	2905.3	3033.2	3089.8	2896.6	2930.0	3540.1
50°	3669.4	3595.3	3317.9	2919.9	3076.7	3284.5	3370.2	3346.9	3068.0	2885.0	3505.3
52.5°	3596.8	3516.9	3376.0	3030.3	3310.6	3561.9	3681.0	3622.9	3220.6	2986.7	3482.0
55°	3702.8	3641.8	3451.5	3179.9	3486.4	3806.0	3890.2	3846.7	3407.9	3081.1	3614.2
57.5°	3817.6	3804.5	3656.4	3355.7	3694.1	4057.3	4057.3	4003.5	3570.6	3217.6	3810.3
60°	3983.2	4012.3	3807.4	3471.9	3765.3	4042.8	4253.4	4190.9	3734.8	3457.3	4032.6
62.5°	3929.5	4022.4	4002.1	3721.7	3846.7	4113.9	4228.7	4275.2	3938.2	3749.3	4328.9
65°	3756.6	3855.4	4000.6	3885.9	3785.6	3941.1	3999.2	4140.1	4039.9	4023.9	4451.0
67.5°	3550.3	3657.8	3747.9	3996.3	3662.2	3765.3	3714.5	3759.5	3929.5	4324.6	4520.7
70°	3100.0	3203.1	3345.5	3750.8	3335.3	3242.3	3229.3	3207.5	3471.9	4217.1	4204.0
72.5°	2549.4	2597.4	2832.7	3049.1	2468.1	2450.6	2471.0	2446.3	2752.8	3817.6	3601.2
75°	1908.8	1956.7	2090.4	2341.7	1680.7	1580.5	1696.7	1811.5	2102.0	2963.4	2587.2
77.5°	1435.2	1496.2	1580.5	1751.9	1233.3	1076.4	1092.4	1201.4	1519.5	2373.7	1449.8
80°	931.2	923.9	1086.6	1205.7	928.3	957.3	916.6	996.5	1101.1	1269.6	740.9
82.5°	537.5	544.7	613.0	691.5	646.4	739.4	533.1	890.5	785.9	517.1	276.0
85°	302.2	315.2	377.7	479.4	405.3	271.6	222.3	441.6	493.9	212.1	133.6
87.5°	30.5	26.1	50.8	181.6	110.4	45.0	66.8	106.0	119.1	79.9	39.2
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°	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4
2.5°	2125.2	2125.2	2088.9	2027.9	2003.2	1959.6	1900.1	1919.0	1898.6	1824.5	1805.7
5°	2038.1	1968.4	1892.8	1799.9	1746.1	1635.7	1600.8	1538.4	1548.5	1486.1	1489.0
7.5°	1856.5	1801.3	1673.5	1551.4	1445.4	1349.5	1214.4	1163.6	1114.2	1089.5	1118.6
10°	1750.5	1647.3	1473.0	1313.2	1172.3	1086.6	996.5	926.8	862.9	814.9	804.8
12.5°	1673.5	1582.0	1371.3	1176.7	1066.3	996.5	913.7	817.8	755.4	672.6	647.9
15°	1650.2	1538.4	1316.1	1122.9	1015.4	900.7	806.2	711.8	630.5	543.3	512.8
17.5°	1730.1	1600.8	1314.7	1079.3	928.3	804.8	674.0	568.0	485.2	405.3	386.4
20°	1865.2	1667.7	1356.8	1053.2	845.5	679.8	531.7	425.6	332.7	280.4	267.3
22.5°	2019.2	1781.0	1361.1	983.5	762.6	554.9	387.9	280.4	228.1	203.4	196.1
25°	2208.0	1962.5	1413.4	926.8	665.3	421.3	276.0	215.0	184.5	170.0	167.1
27.5°	2363.5	2088.9	1470.1	867.2	569.4	312.3	216.4	175.8	159.8	145.3	143.8
30°	2524.7	2234.2	1486.1	830.9	486.6	257.1	185.9	155.4	138.0	130.7	129.3
32.5°	2665.6	2392.5	1536.9	771.4	408.2	226.6	168.5	139.5	127.8	116.2	114.8
35°	2847.2	2484.1	1561.6	739.4	379.1	204.8	154.0	127.8	110.4	103.1	100.2
37.5°	3041.9	2572.7	1577.6	714.7	354.4	191.8	145.3	120.6	104.6	94.4	91.5
40°	3223.5	2697.6	1554.3	684.2	335.6	175.8	139.5	111.9	97.3	87.2	82.8
42.5°	3362.9	2819.6	1547.1	655.2	315.2	170.0	132.2	107.5	91.5	79.9	78.4
45°	3441.4	2902.4	1496.2	631.9	299.2	172.9	129.3	101.7	87.2	77.0	71.2
47.5°	3422.5	2966.3	1509.3	624.6	277.5	161.2	127.8	97.3	79.9	71.2	66.8
50°	3527.1	3095.6	1487.5	601.4	261.5	145.3	139.5	97.3	78.4	68.3	63.9
52.5°	3544.5	3213.3	1534.0	559.3	236.8	133.6	138.0	95.9	75.5	65.4	59.6
55°	3689.8	3349.8	1624.1	536.0	216.4	116.2	126.4	93.0	68.3	59.6	56.7
57.5°	3887.3	3633.1	1682.2	514.2	188.8	101.7	106.0	91.5	62.5	55.2	50.8
60°	4077.6	3746.4	1686.5	475.0	162.7	91.5	82.8	91.5	58.1	49.4	45.0
62.5°	4220.0	3746.4	1657.5	441.6	142.4	81.3	72.6	87.2	52.3	43.6	40.7
65°	4143.0	3646.2	1582.0	414.0	129.3	71.2	62.5	66.8	46.5	37.8	34.9
67.5°	4005.0	3333.9	1414.9	380.6	127.8	62.5	53.7	49.4	40.7	33.4	30.5
70°	3784.2	2912.6	1178.1	342.8	124.9	56.7	47.9	42.1	36.3	29.1	26.1
72.5°	3049.1	2405.6	967.5	321.0	122.0	49.4	40.7	36.3	30.5	24.7	21.8
75°	2112.2	1536.9	745.2	274.6	119.1	45.0	37.8	32.0	26.1	20.3	18.9
77.5°	1266.7	1027.0	480.8	206.3	78.4	36.3	32.0	24.7	21.8	17.4	16.0
80°	592.7	485.2	194.7	79.9	37.8	26.1	21.8	18.9	17.4	14.5	13.1
82.5°	232.4	204.8	94.4	46.5	30.5	20.3	17.4	16.0	14.5	11.6	10.2
85°	124.9	110.4	45.0	32.0	21.8	14.5	14.5	13.1	11.6	10.2	8.7
87.5°	27.6	20.3	18.9	18.9	16.0	11.6	11.6	10.2	8.7	7.3	5.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4
2.5°	1795.5	1817.3	1782.4	1804.2	1773.7	1796.9	1799.9	1778.1	1783.9	1812.9	1826.0
5°	1529.7	1515.1	1483.2	1473.0	1474.5	1455.6	1462.8	1473.0	1489.0	1497.7	1523.8
7.5°	1102.6	1136.0	1134.5	1159.2	1160.7	1157.8	1137.4	1093.9	1108.4	1096.8	1111.3
10°	788.8	803.3	830.9	846.9	876.0	860.0	813.5	796.1	787.3	785.9	800.4
12.5°	630.5	595.6	592.7	598.5	613.0	594.1	570.9	550.6	560.7	581.1	597.0
15°	488.1	459.0	421.3	415.5	418.4	409.7	385.0	358.8	366.1	386.4	398.0
17.5°	374.8	341.4	315.2	297.8	292.0	261.5	225.2	203.4	197.6	196.1	206.3
20°	252.8	247.0	242.6	220.8	220.8	177.2	146.7	130.7	130.7	133.6	135.1
22.5°	188.8	181.6	183.0	178.7	167.1	132.2	116.2	111.9	111.9	114.8	114.8
25°	164.2	154.0	151.1	149.6	138.0	113.3	101.7	97.3	97.3	100.2	100.2
27.5°	139.5	136.6	132.2	126.4	116.2	97.3	90.1	85.7	87.2	88.6	87.2
30°	127.8	120.6	114.8	114.8	103.1	87.2	81.3	78.4	75.5	78.4	79.9
32.5°	113.3	108.9	106.0	101.7	88.6	77.0	71.2	68.3	66.8	66.8	68.3
35°	97.3	97.3	94.4	88.6	77.0	69.7	62.5	59.6	58.1	59.6	59.6
37.5°	87.2	82.8	84.3	78.4	68.3	61.0	53.7	50.8	50.8	49.4	50.8
40°	81.3	74.1	69.7	66.8	61.0	52.3	46.5	43.6	42.1	42.1	42.1
42.5°	72.6	66.8	58.1	56.7	55.2	45.0	37.8	36.3	34.9	33.4	33.4
45°	68.3	59.6	52.3	45.0	45.0	37.8	32.0	29.1	27.6	26.1	27.6
47.5°	62.5	53.7	45.0	37.8	36.3	30.5	24.7	21.8	20.3	20.3	20.3
50°	59.6	47.9	39.2	32.0	27.6	24.7	18.9	16.0	14.5	14.5	14.5
52.5°	55.2	45.0	34.9	27.6	21.8	18.9	14.5	11.6	10.2	10.2	10.2
55°	49.4	40.7	30.5	23.2	18.9	14.5	10.2	7.3	5.8	5.8	5.8
57.5°	46.5	36.3	26.1	20.3	14.5	10.2	5.8	4.4	4.4	2.9	4.4
60°	42.1	32.0	21.8	16.0	11.6	7.3	4.4	1.5	1.5	1.5	1.5
62.5°	36.3	27.6	18.9	13.1	8.7	4.4	1.5	0.0	0.0	0.0	0.0
65°	30.5	21.8	14.5	10.2	5.8	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	26.1	18.9	11.6	7.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	23.2	16.0	8.7	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.9	13.1	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.0	10.2	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.1	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.2	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.5	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°	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4	2045.4
2.5°	1844.9	1836.2	1879.7	1950.9	1987.2	2058.4	2075.9	2120.9	2109.3	2125.2
5°	1526.7	1544.2	1608.1	1712.7	1750.5	1853.6	1950.9	2048.3	2110.7	2141.2
7.5°	1133.1	1191.2	1269.6	1365.5	1462.8	1597.9	1763.5	1876.8	1937.9	2003.2
10°	844.0	906.5	996.5	1091.0	1249.3	1400.4	1566.0	1706.9	1759.2	1820.2
12.5°	663.9	761.2	865.8	967.5	1061.9	1205.7	1410.5	1615.4	1672.0	1718.5
15°	461.9	581.1	730.7	862.9	995.1	1120.0	1332.1	1580.5	1657.5	1735.9
17.5°	255.7	350.1	521.5	707.4	902.1	1093.9	1358.2	1644.4	1760.6	1815.8
20°	148.2	185.9	308.0	528.8	785.9	1037.2	1371.3	1765.0	1919.0	1946.6
22.5°	122.0	135.1	174.3	331.2	643.5	1000.9	1438.1	1933.5	2090.4	2155.8
25°	104.6	114.8	135.1	199.0	486.6	923.9	1480.3	2144.1	2289.4	2360.6
27.5°	93.0	103.1	119.1	146.7	331.2	817.8	1550.0	2334.4	2479.7	2577.0
30°	81.3	90.1	106.0	124.9	229.5	698.7	1609.6	2473.9	2678.7	2709.2
32.5°	72.6	79.9	91.5	107.5	170.0	530.2	1657.5	2617.7	2790.6	2857.4
35°	62.5	71.2	78.4	91.5	129.3	399.5	1628.4	2729.6	2954.7	3034.6
37.5°	55.2	61.0	68.3	77.0	108.9	312.3	1568.9	2863.2	3095.6	3169.7
40°	46.5	50.8	59.6	68.3	98.8	241.1	1500.6	3024.4	3293.2	3423.9
42.5°	39.2	43.6	49.4	63.9	81.3	178.7	1362.6	3149.4	3453.0	3563.4
45°	30.5	36.3	45.0	63.9	65.4	132.2	1220.2	3242.3	3543.0	3598.2
47.5°	23.2	29.1	43.6	55.2	52.3	91.5	1051.7	3348.4	3636.0	3686.9
50°	17.4	23.2	49.4	47.9	43.6	69.7	945.7	3422.5	3641.8	3669.4
52.5°	11.6	17.4	40.7	36.3	36.3	61.0	916.6	3419.6	3656.4	3596.8
55°	8.7	13.1	23.2	26.1	32.0	53.7	890.5	3528.5	3660.7	3702.8
57.5°	5.8	10.2	16.0	20.3	27.6	46.5	836.7	3659.3	3795.8	3817.6
60°	2.9	7.3	11.6	16.0	23.2	40.7	761.2	3755.1	3960.0	3983.2
62.5°	1.5	4.4	8.7	13.1	18.9	32.0	682.8	3602.6	3888.8	3929.5
65°	0.0	2.9	5.8	8.7	11.6	23.2	554.9	3252.5	3607.0	3756.6
67.5°	0.0	0.0	2.9	5.8	7.3	17.4	418.4	2959.1	3346.9	3550.3
70°	0.0	0.0	1.5	1.5	4.4	13.1	267.3	2450.6	2988.1	3100.0
72.5°	0.0	0.0	0.0	0.0	1.5	8.7	155.4	1820.2	2341.7	2549.4
75°	0.0	0.0	0.0	0.0	0.0	7.3	78.4	1170.8	1629.9	1908.8
77.5°	0.0	0.0	0.0	0.0	0.0	5.8	42.1	755.4	1201.4	1435.2
80°	0.0	0.0	0.0	0.0	0.0	1.5	24.7	438.7	768.5	931.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.2	215.0	459.0	537.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	114.8	229.5	302.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	16.0	30.5
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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