

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: P677434

Luminaire Tested: **CCW-SA-2C-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677434
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6497.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

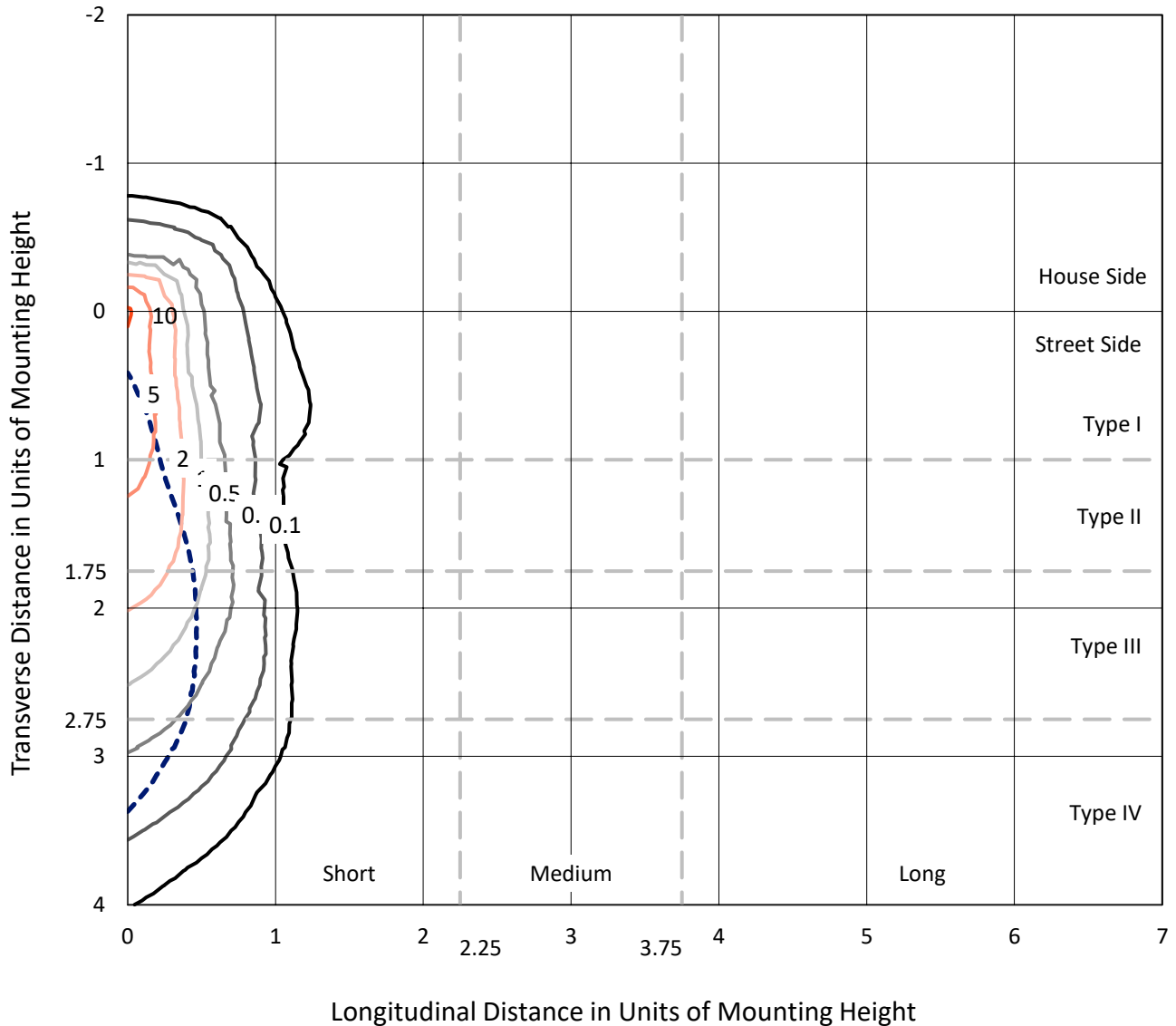
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

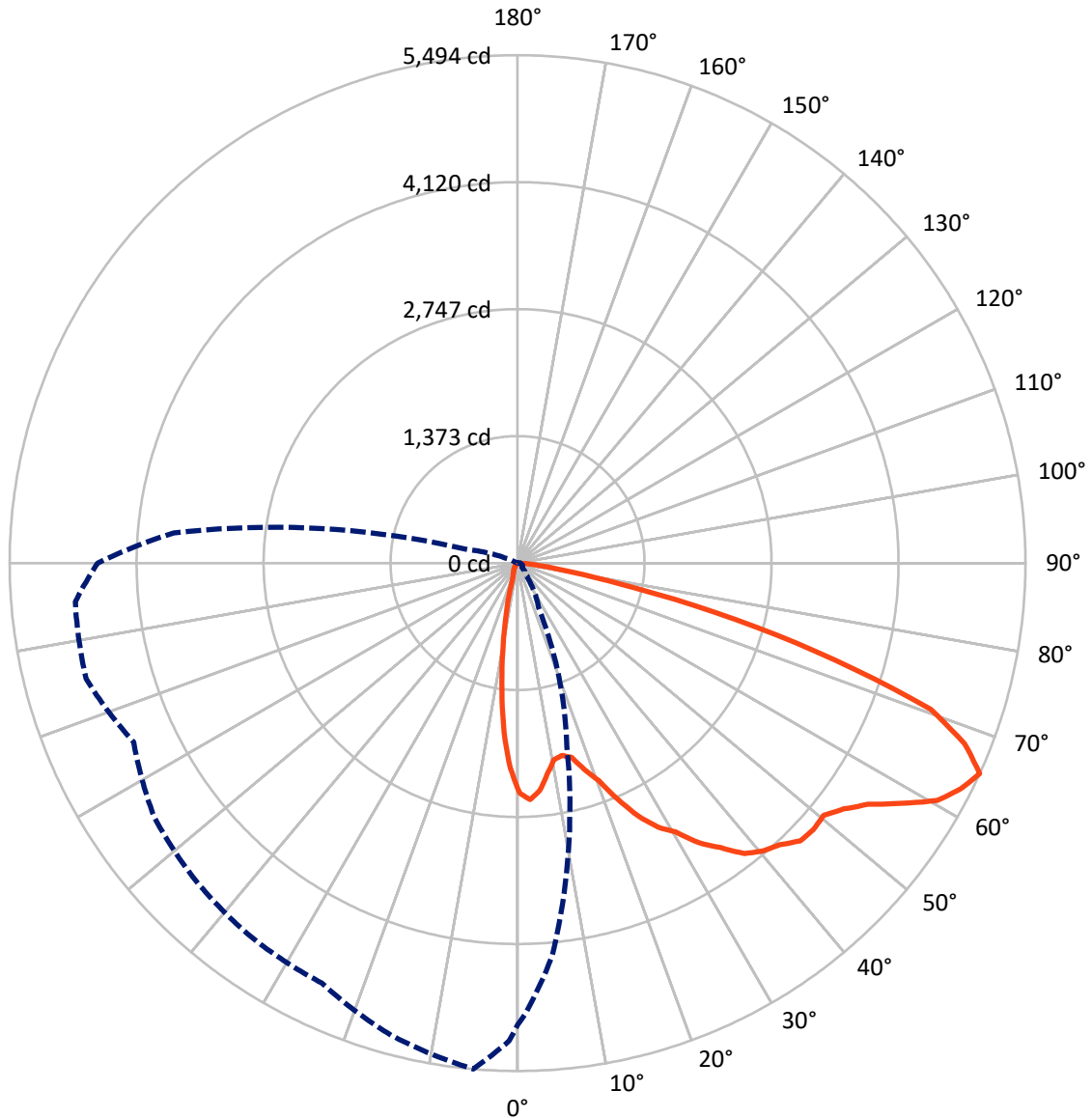
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11 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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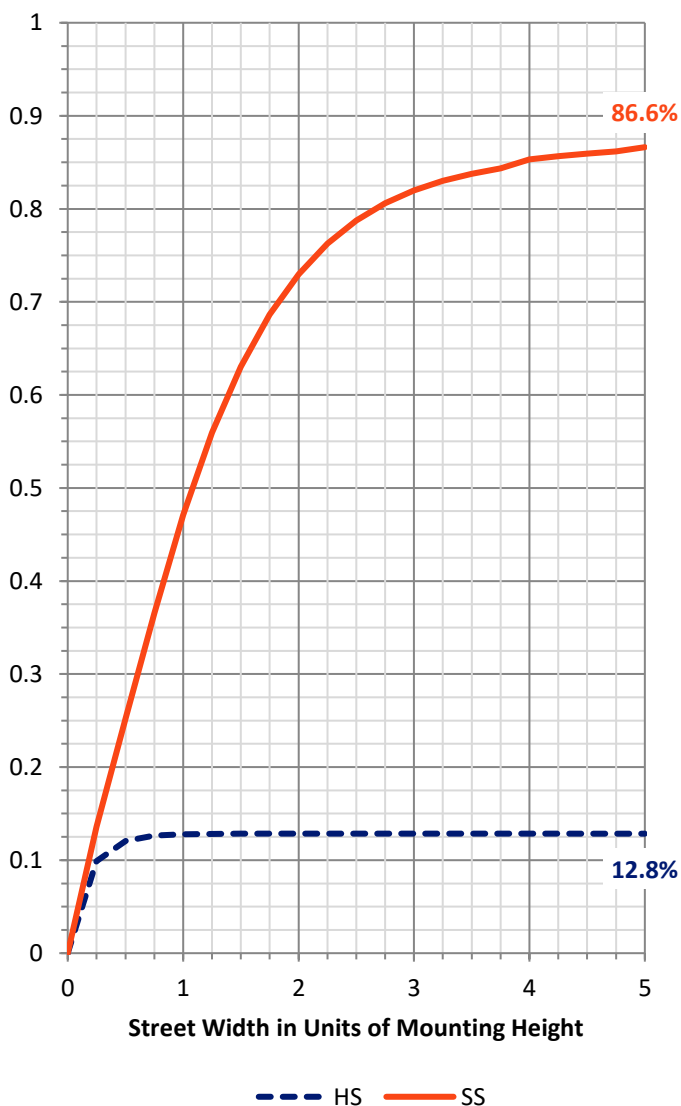
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.6	0.0	843.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	5653.9	0.0	5653.9
	% Fixture	87.0	0.0	87.0
Total	Lumens	6497.5	0.0	6497.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.9
10°-20°	364.4	5.6
20°-30°	507.5	7.8
30°-40°	721.0	11.1
40°-50°	999.9	15.4
50°-60°	1362.4	21.0
60°-70°	1497.8	23.1
70°-80°	736.2	11.3
80°-90°	120.2	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°	6497.5	100.0
0°-180°	6497.5	100.0



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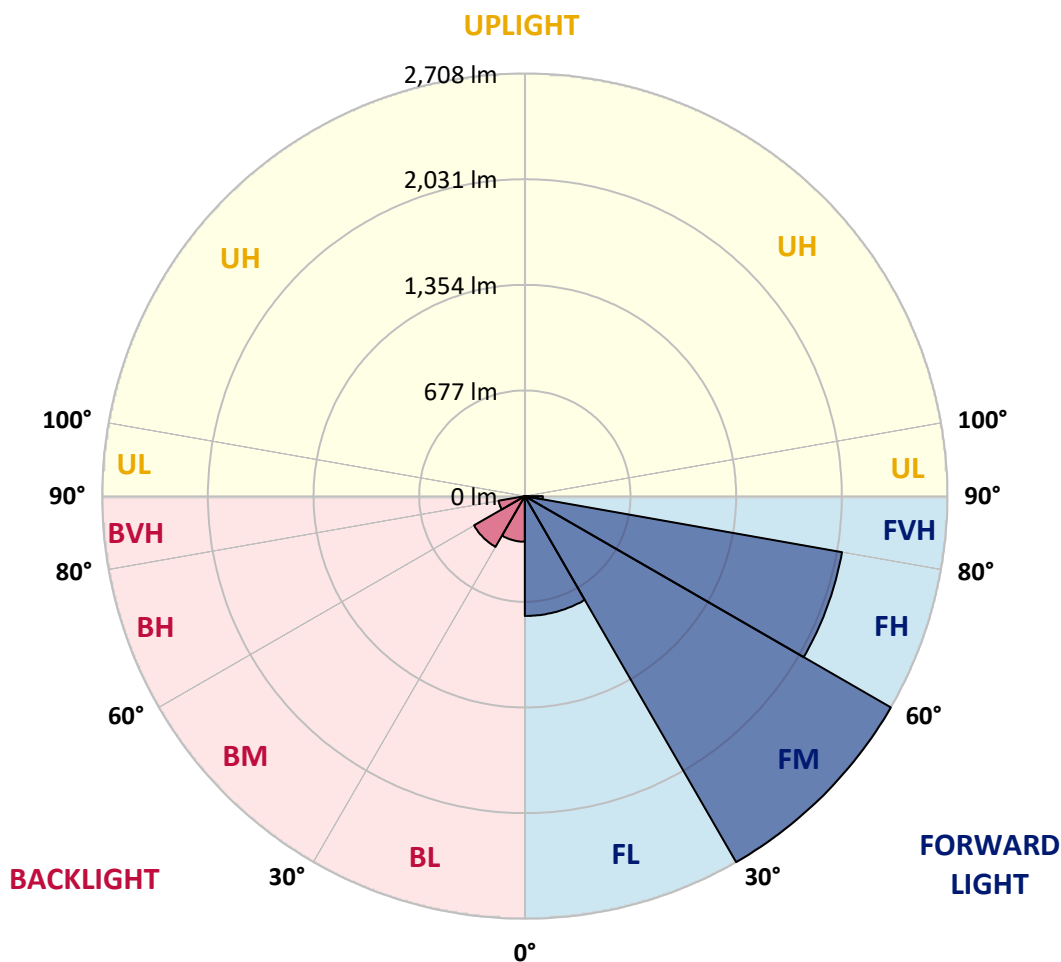
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.9	11.8			
FM (30°-60°)	2707.7	41.7			
FH (60°-80°)	2063.5	31.8			G2/5000
FVH (80°-90°)	114.8	1.8			G2/225
BL (0°-30°)	292.1	4.5	B1/500		
BM (30°-60°)	375.6	5.8	B1/1000		
BH (60°-80°)	170.5	2.6	B1/500		G1/500
BVH (80°-90°)	5.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0
2.5°	2534.8	2564.6	2536.6	2438.5	2420.9	2373.6	2301.8	2296.6	2221.2	2230.0	2189.7
5°	2382.4	2412.2	2352.6	2223.0	2102.1	2005.8	1948.0	1844.6	1821.8	1771.0	1771.0
7.5°	2226.5	2224.7	2123.1	2014.5	1834.1	1657.2	1576.6	1427.7	1340.1	1292.8	1247.3
10°	2096.9	2068.8	2005.8	1781.5	1585.3	1401.4	1301.6	1203.5	1112.4	1033.5	954.7
12.5°	2005.8	2023.3	1923.4	1679.9	1425.9	1298.1	1191.2	1087.8	979.2	889.9	802.3
15°	2053.1	2025.0	1907.7	1657.2	1399.7	1224.5	1082.6	956.5	835.6	718.2	651.7
17.5°	2200.2	2128.4	1990.0	1657.2	1345.4	1112.4	940.7	791.8	662.2	557.1	474.7
20°	2398.2	2315.8	2166.9	1718.5	1305.1	1030.0	795.3	607.9	473.0	374.9	311.8
22.5°	2601.4	2536.6	2312.3	1743.0	1257.8	919.7	627.1	439.7	315.3	252.3	220.7
25°	2844.9	2753.8	2508.5	1841.1	1187.7	812.8	494.0	306.6	234.7	201.5	182.2
27.5°	3039.3	3023.5	2692.5	1900.7	1135.1	725.2	390.6	243.5	194.4	169.9	157.7
30°	3284.6	3198.7	2916.7	2019.8	1075.6	625.4	325.8	219.0	178.7	152.4	143.6
32.5°	3431.7	3391.4	3034.1	2086.3	1009.0	543.0	280.3	192.7	162.9	143.6	134.9
35°	3645.4	3564.8	3202.2	2128.4	974.0	495.7	252.3	175.2	136.6	117.4	106.9
37.5°	3883.7	3853.9	3403.7	2126.6	923.2	467.7	233.0	162.9	129.6	108.6	96.3
40°	4127.2	4006.3	3526.3	2175.7	896.9	446.7	219.0	155.9	122.6	103.4	87.6
42.5°	4309.3	4170.9	3668.2	2158.2	865.4	409.9	213.7	145.4	117.4	94.6	80.6
45°	4358.4	4309.3	3796.1	2152.9	842.6	380.1	205.0	143.6	113.9	89.3	75.3
47.5°	4453.0	4419.7	3953.7	2161.7	825.1	357.4	183.9	147.1	108.6	84.1	71.8
50°	4495.0	4435.5	4081.6	2182.7	784.8	329.3	164.7	154.2	106.9	82.3	68.3
52.5°	4668.4	4615.9	4256.8	2242.3	751.5	292.5	145.4	147.1	110.4	77.1	64.8
55°	4838.4	4778.8	4526.6	2378.9	704.2	262.8	124.4	129.6	105.1	70.1	57.8
57.5°	5071.4	4973.3	4707.0	2435.0	662.2	222.5	110.4	106.9	98.1	63.1	50.8
60°	5106.4	5146.7	4680.7	2399.9	618.4	196.2	96.3	82.3	105.1	56.1	43.8
62.5°	5223.8	5055.6	4558.1	2319.3	586.8	180.4	85.8	68.3	91.1	49.0	36.8
65°	4997.8	4873.4	4270.8	2060.1	546.5	182.2	75.3	56.1	57.8	40.3	29.8
67.5°	4666.7	4568.6	3794.3	1778.0	506.3	178.7	66.6	49.0	43.8	35.0	26.3
70°	4095.6	3883.7	3223.2	1443.5	446.7	166.4	56.1	43.8	36.8	28.0	19.3
72.5°	2979.7	2893.9	2312.3	1115.9	401.2	150.7	52.6	36.8	31.5	21.0	15.8
75°	2005.8	1863.9	1459.2	732.2	322.3	131.4	43.8	33.3	24.5	15.8	12.3
77.5°	1059.8	1002.0	826.8	348.6	178.7	61.3	24.5	19.3	14.0	12.3	7.0
80°	459.0	408.2	357.4	141.9	63.1	28.0	15.8	10.5	8.8	7.0	3.5
82.5°	234.7	224.2	185.7	61.3	36.8	21.0	8.8	7.0	5.3	3.5	1.8
85°	115.6	119.1	98.1	19.3	21.0	12.3	1.8	1.8	0.0	0.0	0.0
87.5°	8.8	8.8	7.0	3.5	5.3	1.8	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°	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0
2.5°	2173.9	2198.5	2156.4	2182.7	2170.4	2175.7	2180.9	2166.9	2170.4	2219.5	2221.2
5°	1741.3	1788.5	1771.0	1795.6	1837.6	1816.6	1835.8	1832.3	1835.8	1842.9	1874.4
7.5°	1242.0	1228.0	1261.3	1326.1	1401.4	1447.0	1424.2	1411.9	1404.9	1387.4	1408.4
10°	937.2	930.2	921.4	940.7	989.7	1040.5	1068.6	1021.3	995.0	961.7	949.5
12.5°	777.8	734.0	709.5	679.7	693.7	739.2	741.0	695.4	653.4	635.9	655.2
15°	613.1	583.3	539.5	497.5	476.5	511.5	481.7	437.9	383.6	376.6	374.9
17.5°	437.9	420.4	388.9	371.4	346.8	338.1	306.6	240.0	201.5	190.9	194.4
20°	297.8	283.8	282.0	266.3	255.8	248.8	197.9	154.2	141.9	143.6	145.4
22.5°	220.7	213.7	205.0	203.2	194.4	185.7	145.4	129.6	120.9	120.9	126.1
25°	180.4	176.9	168.2	164.7	161.2	148.9	122.6	110.4	106.9	103.4	108.6
27.5°	154.2	152.4	147.1	141.9	138.4	126.1	106.9	96.3	92.8	92.8	92.8
30°	138.4	138.4	131.4	120.9	120.9	106.9	91.1	84.1	80.6	80.6	78.8
32.5°	129.6	126.1	117.4	110.4	105.1	91.1	80.6	73.6	68.3	68.3	70.1
35°	105.1	105.1	103.4	98.1	91.1	77.1	68.3	61.3	57.8	56.1	57.8
37.5°	92.8	87.6	80.6	82.3	78.8	66.6	57.8	52.6	47.3	47.3	47.3
40°	84.1	78.8	71.8	66.6	64.8	59.6	50.8	42.0	36.8	35.0	35.0
42.5°	75.3	71.8	61.3	52.6	50.8	50.8	38.5	31.5	26.3	26.3	26.3
45°	70.1	64.8	56.1	45.5	36.8	38.5	31.5	22.8	19.3	17.5	17.5
47.5°	66.6	61.3	49.0	38.5	28.0	28.0	22.8	15.8	12.3	10.5	10.5
50°	61.3	56.1	43.8	31.5	21.0	17.5	14.0	8.8	5.3	3.5	3.5
52.5°	57.8	52.6	38.5	26.3	17.5	12.3	8.8	1.8	0.0	0.0	0.0
55°	52.6	45.5	33.3	21.0	14.0	7.0	1.8	0.0	0.0	0.0	0.0
57.5°	45.5	40.3	26.3	15.8	8.8	1.8	0.0	0.0	0.0	0.0	0.0
60°	38.5	33.3	21.0	12.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	31.5	28.0	15.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	26.3	21.0	12.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	22.8	17.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.5	12.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.3	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.8	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°	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0
2.5°	2228.2	2280.8	2329.8	2343.9	2382.4	2489.3	2489.3	2540.1	2631.1	2664.4	2671.4
5°	1879.6	1935.7	1946.2	2054.8	2105.6	2214.2	2286.1	2457.7	2561.1	2625.9	2666.2
7.5°	1429.4	1448.7	1489.0	1590.6	1690.5	1821.8	1958.5	2177.4	2359.6	2433.2	2569.8
10°	982.7	1040.5	1128.1	1219.2	1375.1	1520.5	1697.5	1904.2	2128.4	2219.5	2336.9
12.5°	662.2	742.7	882.9	1012.5	1156.2	1303.3	1471.5	1748.3	2002.3	2128.4	2245.8
15°	387.1	485.2	606.1	816.3	1007.3	1171.9	1340.1	1620.4	1928.7	2091.6	2235.2
17.5°	196.2	226.0	325.8	508.0	760.3	1030.0	1280.5	1637.9	1984.7	2184.4	2303.6
20°	147.1	155.9	183.9	269.8	520.3	851.4	1224.5	1664.2	2140.7	2384.1	2449.0
22.5°	127.9	134.9	147.1	175.2	292.5	651.7	1145.7	1729.0	2352.6	2582.1	2718.7
25°	108.6	115.6	126.1	143.6	187.4	443.2	1049.3	1797.3	2541.8	2830.8	2958.7
27.5°	94.6	99.9	110.4	124.4	152.4	282.0	882.9	1888.4	2830.8	3132.2	3165.4
30°	80.6	85.8	94.6	110.4	129.6	199.7	648.2	1900.7	2990.3	3263.5	3356.4
32.5°	70.1	71.8	82.3	96.3	108.6	157.7	455.5	1912.9	3107.6	3433.5	3452.7
35°	57.8	61.3	71.8	80.6	94.6	124.4	345.1	1851.6	3260.0	3608.6	3603.4
37.5°	47.3	52.6	59.6	66.6	77.1	105.1	275.0	1737.7	3451.0	3880.2	3715.5
40°	36.8	42.0	49.0	57.8	64.8	94.6	206.7	1566.1	3650.7	4013.3	3838.1
42.5°	26.3	29.8	36.8	45.5	57.8	78.8	148.9	1362.9	3729.5	4169.2	3985.3
45°	19.3	22.8	28.0	38.5	59.6	63.1	103.4	1177.2	3813.6	4237.5	3952.0
47.5°	10.5	14.0	21.0	33.3	52.6	47.3	73.6	1010.8	3909.9	4298.8	3978.3
50°	3.5	5.3	12.3	35.0	42.0	36.8	57.8	921.4	4004.5	4311.1	4030.8
52.5°	0.0	0.0	7.0	36.8	31.5	28.0	50.8	886.4	3980.0	4349.6	3997.5
55°	0.0	0.0	1.8	15.8	17.5	21.0	42.0	884.6	4153.4	4361.9	4179.7
57.5°	0.0	0.0	0.0	5.3	10.5	17.5	36.8	828.6	4263.8	4666.7	4425.0
60°	0.0	0.0	0.0	1.8	7.0	12.3	28.0	779.5	4375.9	4803.3	4687.7
62.5°	0.0	0.0	0.0	0.0	1.8	5.3	19.3	704.2	4149.9	4792.8	4941.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	12.3	557.1	3733.0	4542.3	4801.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.0	385.4	3268.8	4227.0	4544.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	233.0	2638.2	3706.7	3853.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.9	1883.1	2943.0	3161.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3	1164.9	2151.2	2420.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	755.0	1629.1	1837.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	402.9	1021.3	1187.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.2	620.1	714.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.1	376.6	429.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.8	77.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0	2484.0
2.5°	2674.9	2725.7	2745.0	2715.2	2718.7	2657.4	2648.7	2562.8	2527.8	2534.8
5°	2797.6	2871.1	2911.4	2878.1	2802.8	2685.5	2578.6	2477.0	2413.9	2382.4
7.5°	2769.5	2851.9	2902.7	2934.2	2848.4	2659.2	2496.3	2305.3	2224.7	2226.5
10°	2615.4	2787.1	2890.4	2850.1	2809.8	2620.6	2368.4	2161.7	2089.9	2096.9
12.5°	2491.0	2681.9	2743.3	2774.8	2692.5	2541.8	2371.9	2135.4	2054.8	2005.8
15°	2413.9	2555.8	2559.3	2608.4	2575.1	2575.1	2408.7	2177.4	2107.4	2053.1
17.5°	2413.9	2445.5	2442.0	2459.5	2515.5	2582.1	2501.5	2347.4	2209.0	2200.2
20°	2468.2	2370.1	2347.4	2354.4	2401.7	2599.6	2706.5	2513.8	2426.2	2398.2
22.5°	2594.4	2378.9	2240.5	2216.0	2361.4	2597.9	2837.9	2776.5	2624.1	2601.4
25°	2767.8	2363.1	2212.5	2180.9	2291.3	2660.9	3018.3	3030.5	2892.2	2844.9
27.5°	2932.5	2433.2	2209.0	2202.0	2347.4	2646.9	3142.7	3233.8	3077.8	3039.3
30°	2988.5	2503.3	2273.8	2180.9	2368.4	2697.7	3139.2	3377.4	3275.8	3284.6
32.5°	3055.1	2573.3	2280.8	2244.0	2457.7	2780.0	3239.0	3608.6	3535.1	3431.7
35°	3153.2	2667.9	2347.4	2314.1	2520.8	2853.6	3260.0	3778.6	3766.3	3645.4
37.5°	3237.3	2760.8	2485.8	2491.0	2713.5	2972.7	3352.9	3987.0	3966.0	3883.7
40°	3296.8	2890.4	2701.2	2715.2	2881.6	3105.9	3517.5	4092.1	4248.0	4127.2
42.5°	3305.6	3006.0	2948.2	3060.3	3216.2	3312.6	3584.1	4163.9	4388.2	4309.3
45°	3338.9	3190.0	3351.1	3433.5	3561.3	3494.8	3580.6	4286.6	4398.7	4358.4
47.5°	3468.5	3524.5	3727.8	3978.3	4023.8	3804.8	3664.7	4305.8	4458.2	4453.0
50°	3603.4	3883.7	4169.2	4335.6	4393.4	4018.5	3743.5	4290.1	4537.1	4495.0
52.5°	3754.0	4195.5	4607.1	4812.1	4780.6	4255.0	3832.9	4417.9	4682.5	4668.4
55°	3848.6	4335.6	4889.2	5174.7	5150.2	4519.5	4116.6	4601.9	4873.4	4838.4
57.5°	4099.1	4563.3	5169.5	5302.6	5367.4	4866.4	4314.6	4903.2	5032.8	5071.4
60°	4305.8	4712.2	5243.0	5435.7	5458.5	5073.1	4661.4	5213.2	5236.0	5106.4
62.5°	4608.9	4770.0	5087.1	5260.5	5377.9	5190.5	4973.3	5379.7	5232.5	5223.8
65°	4831.4	4580.9	4796.3	4892.7	4968.0	5011.8	5286.8	5493.5	5167.7	4997.8
67.5°	4707.0	4223.5	4183.2	4188.5	4211.2	4475.8	5181.7	5215.0	4806.8	4666.7
70°	4142.9	3465.0	3410.7	3452.7	3338.9	3657.7	4756.0	4740.3	4241.0	4095.6
72.5°	3351.1	2526.0	2433.2	2491.0	2517.3	2855.4	4001.0	3594.6	3093.6	2979.7
75°	2662.7	1851.6	1562.6	1702.7	1792.1	2079.3	3125.1	2442.0	2159.9	2005.8
77.5°	2091.6	1401.4	1215.7	1159.7	1242.0	1511.8	2273.8	1282.3	1131.6	1059.8
80°	1326.1	1030.0	1117.6	1037.0	1072.1	1079.1	1184.2	583.3	464.2	459.0
82.5°	798.8	704.2	837.3	460.7	839.1	749.8	492.2	264.5	234.7	234.7
85°	565.8	436.2	289.0	187.4	373.1	411.7	190.9	136.6	119.1	115.6
87.5°	283.8	134.9	64.8	42.0	47.3	77.1	22.8	10.5	10.5	8.8
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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