

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: P677511

Luminaire Tested: **CCW-SA-2C-850-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677511
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

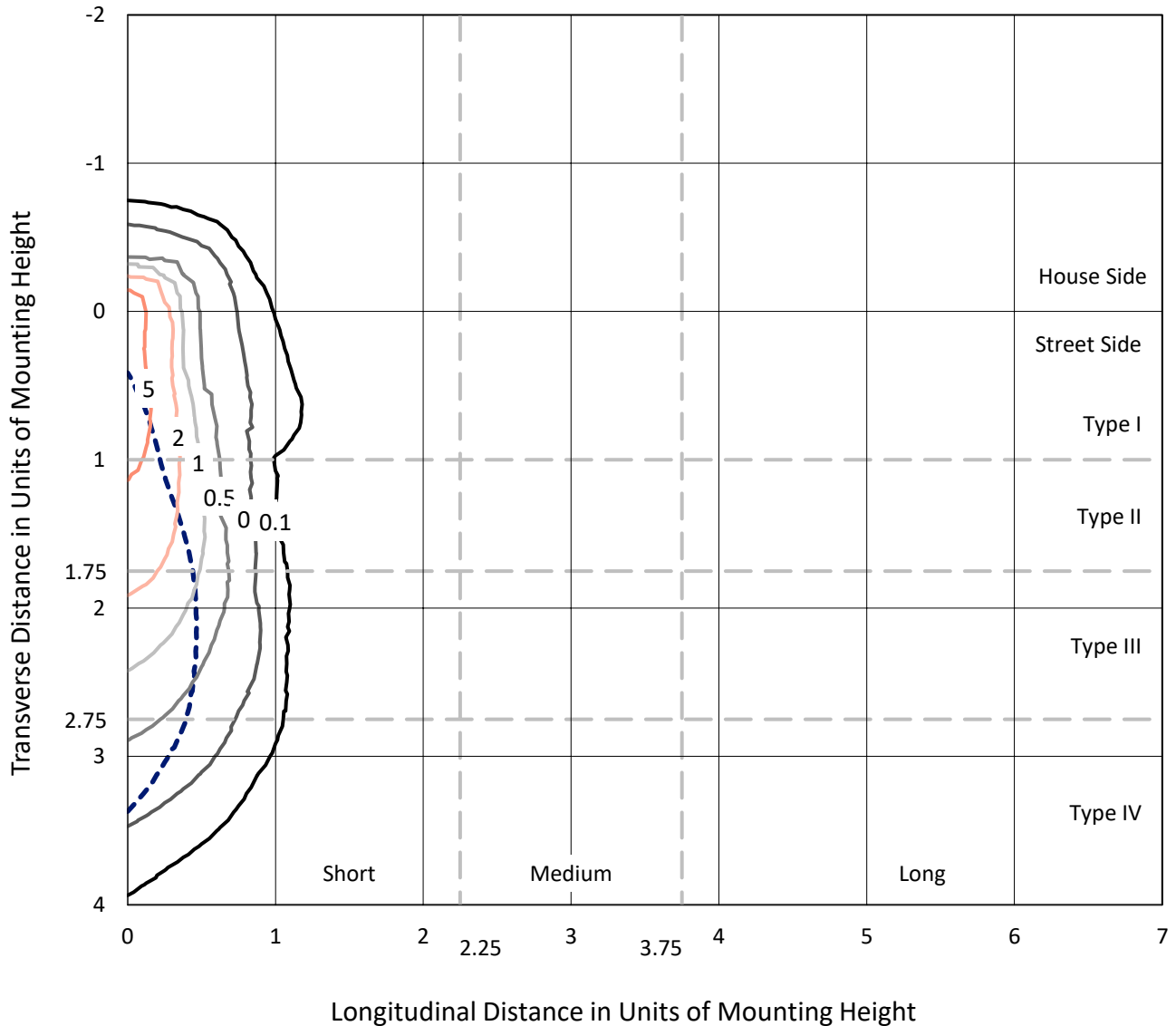
Lumens per Lamp: N/A
Luminaire Lumens: 5669.7 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

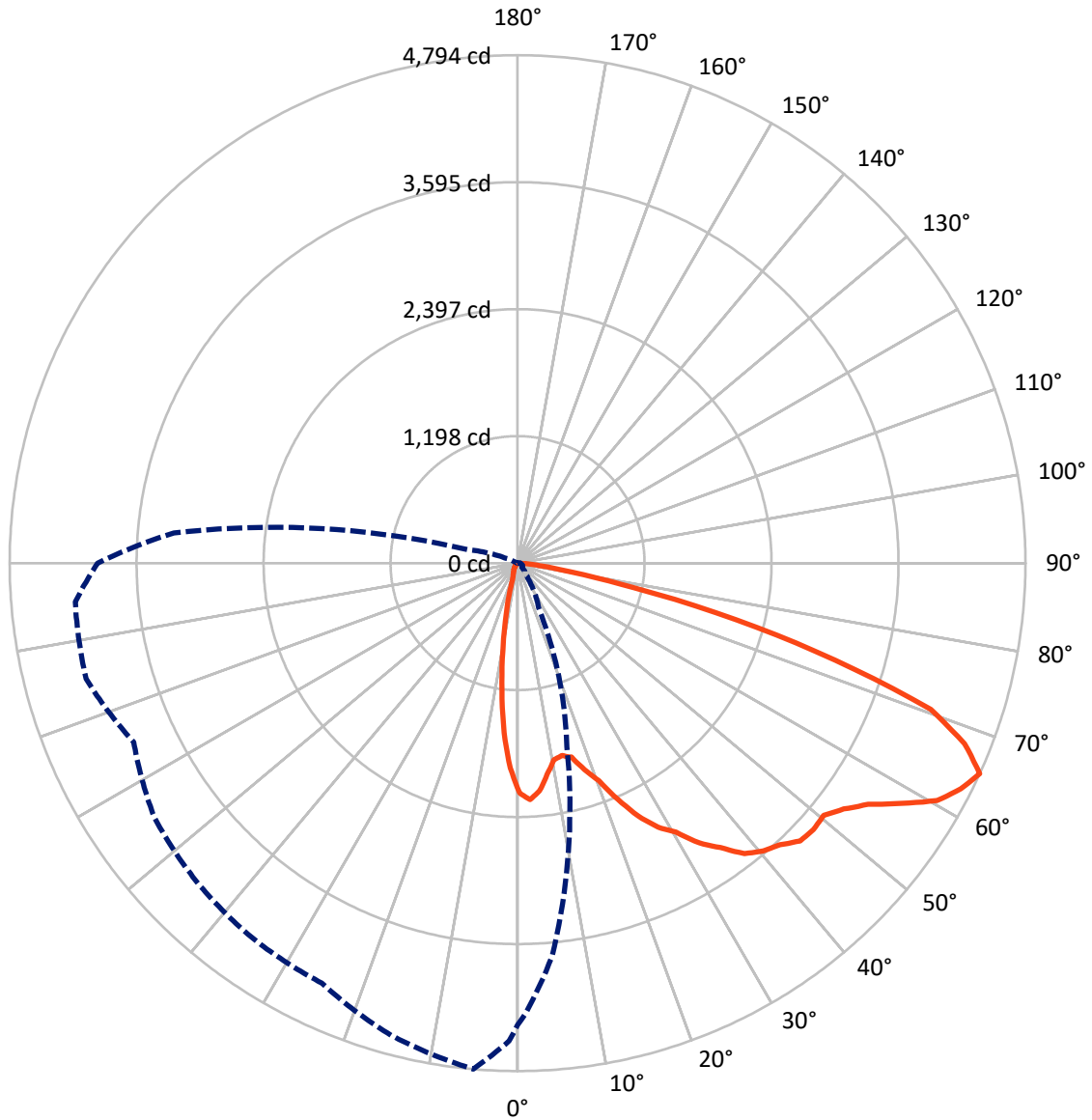
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.6 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	736.1	0.0	736.1
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4933.6	0.0	4933.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	5669.7	0.0	5669.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	2.9
10°-20°	317.9	5.6
20°-30°	442.8	7.8
30°-40°	629.2	11.1
40°-50°	872.5	15.4
50°-60°	1188.8	21.0
60°-70°	1307.0	23.1
70°-80°	642.4	11.3
80°-90°	104.9	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°	5669.7	100.0
0°-180°	5669.7	100.0



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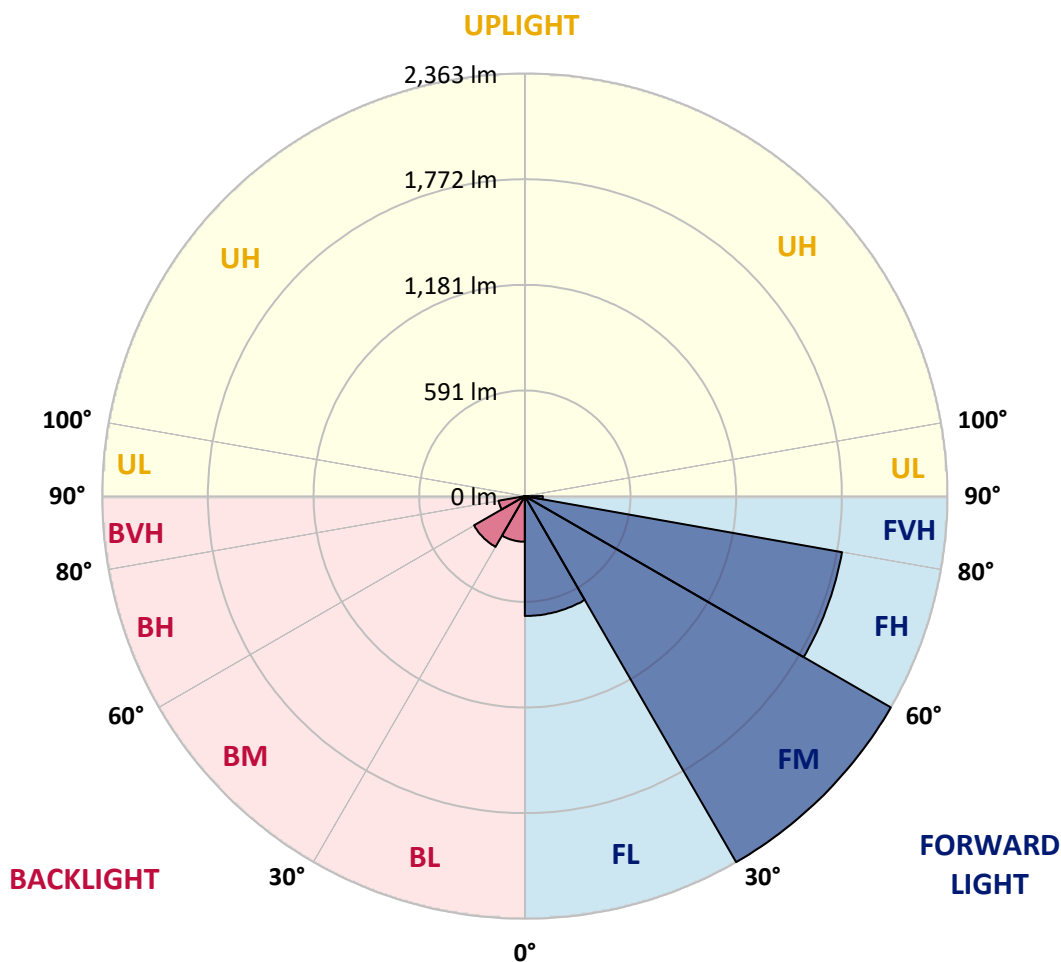
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.0	11.8			
FM (30°-60°)	2362.7	41.7			
FH (60°-80°)	1800.6	31.8			G2/5000
FVH (80°-90°)	100.2	1.8			G2/225
BL (0°-30°)	254.9	4.5	B1/500		
BM (30°-60°)	327.8	5.8	B1/1000		
BH (60°-80°)	148.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.7	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°	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5
2.5°	2211.9	2237.9	2213.4	2127.8	2112.5	2071.2	2008.6	2004.0	1938.2	1945.9	1910.7
5°	2078.9	2104.9	2052.9	1939.8	1834.3	1750.2	1699.8	1609.6	1589.7	1545.4	1545.4
7.5°	1942.8	1941.3	1852.6	1757.9	1600.4	1446.0	1375.7	1245.8	1169.4	1128.1	1088.4
10°	1829.7	1805.3	1750.2	1554.6	1383.4	1222.9	1135.7	1050.1	970.7	901.9	833.1
12.5°	1750.2	1765.5	1678.4	1465.9	1244.3	1132.7	1039.4	949.3	854.5	776.5	700.1
15°	1791.5	1767.0	1664.6	1446.0	1221.3	1068.5	944.7	834.6	729.1	626.7	568.6
17.5°	1919.9	1857.2	1736.5	1446.0	1174.0	970.7	820.9	690.9	577.8	486.1	414.2
20°	2092.6	2020.8	1890.9	1499.5	1138.8	898.8	694.0	530.4	412.7	327.1	272.1
22.5°	2270.0	2213.4	2017.7	1520.9	1097.5	802.5	547.2	383.7	275.1	220.1	192.6
25°	2482.4	2402.9	2188.9	1606.5	1036.4	709.3	431.1	267.5	204.8	175.8	159.0
27.5°	2652.1	2638.3	2349.4	1658.5	990.5	632.8	340.9	212.5	169.7	148.3	137.6
30°	2866.1	2791.2	2545.1	1762.5	938.6	545.7	284.3	191.1	155.9	133.0	125.3
32.5°	2994.5	2959.3	2647.5	1820.5	880.5	473.9	244.6	168.1	142.2	125.3	117.7
35°	3181.0	3110.7	2794.3	1857.2	849.9	432.6	220.1	152.9	119.2	102.4	93.2
37.5°	3388.9	3362.9	2970.0	1855.7	805.6	408.1	203.3	142.2	113.1	94.8	84.1
40°	3601.4	3495.9	3077.0	1898.5	782.6	389.8	191.1	136.0	107.0	90.2	76.4
42.5°	3760.3	3639.6	3200.9	1883.2	755.1	357.7	186.5	126.9	102.4	82.5	70.3
45°	3803.1	3760.3	3312.5	1878.6	735.3	331.7	178.8	125.3	99.4	78.0	65.7
47.5°	3885.7	3856.6	3450.0	1886.3	720.0	311.8	160.5	128.4	94.8	73.4	62.7
50°	3922.4	3870.4	3561.6	1904.6	684.8	287.4	143.7	134.5	93.2	71.8	59.6
52.5°	4073.7	4027.8	3714.5	1956.6	655.8	255.3	126.9	128.4	96.3	67.3	56.6
55°	4222.0	4170.0	3949.9	2075.8	614.5	229.3	108.5	113.1	91.7	61.1	50.4
57.5°	4425.3	4339.7	4107.3	2124.7	577.8	194.1	96.3	93.2	85.6	55.0	44.3
60°	4455.8	4491.0	4084.4	2094.2	539.6	171.2	84.1	71.8	91.7	48.9	38.2
62.5°	4558.2	4411.5	3977.4	2023.9	512.1	157.4	74.9	59.6	79.5	42.8	32.1
65°	4361.1	4252.5	3726.7	1797.6	476.9	159.0	65.7	48.9	50.4	35.2	26.0
67.5°	4072.2	3986.6	3310.9	1551.5	441.8	155.9	58.1	42.8	38.2	30.6	22.9
70°	3573.8	3388.9	2812.6	1259.6	389.8	145.2	48.9	38.2	32.1	24.5	16.8
72.5°	2600.1	2525.2	2017.7	973.7	350.0	131.5	45.9	32.1	27.5	18.3	13.8
75°	1750.2	1626.4	1273.3	638.9	281.3	114.6	38.2	29.0	21.4	13.8	10.7
77.5°	924.8	874.4	721.5	304.2	155.9	53.5	21.4	16.8	12.2	10.7	6.1
80°	400.5	356.2	311.8	123.8	55.0	24.5	13.8	9.2	7.6	6.1	3.1
82.5°	204.8	195.7	162.0	53.5	32.1	18.3	7.6	6.1	4.6	3.1	1.5
85°	100.9	103.9	85.6	16.8	18.3	10.7	1.5	1.5	0.0	0.0	0.0
87.5°	7.6	7.6	6.1	3.1	4.6	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°	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5
2.5°	1897.0	1918.4	1881.7	1904.6	1893.9	1898.5	1903.1	1890.9	1893.9	1936.7	1938.2
5°	1519.4	1560.7	1545.4	1566.8	1603.5	1585.1	1602.0	1598.9	1602.0	1608.1	1635.6
7.5°	1083.8	1071.5	1100.6	1157.1	1222.9	1262.6	1242.7	1232.0	1225.9	1210.6	1229.0
10°	817.8	811.7	804.0	820.9	863.7	908.0	932.4	891.2	868.2	839.2	828.5
12.5°	678.7	640.5	619.1	593.1	605.3	645.1	646.6	606.8	570.2	554.9	571.7
15°	535.0	509.0	470.8	434.1	415.8	446.3	420.4	382.1	334.8	328.6	327.1
17.5°	382.1	366.9	339.3	324.1	302.7	295.0	267.5	209.4	175.8	166.6	169.7
20°	259.9	247.6	246.1	232.3	223.2	217.1	172.7	134.5	123.8	125.3	126.9
22.5°	192.6	186.5	178.8	177.3	169.7	162.0	126.9	113.1	105.5	105.5	110.1
25°	157.4	154.4	146.7	143.7	140.6	129.9	107.0	96.3	93.2	90.2	94.8
27.5°	134.5	133.0	128.4	123.8	120.8	110.1	93.2	84.1	81.0	81.0	81.0
30°	120.8	120.8	114.6	105.5	105.5	93.2	79.5	73.4	70.3	70.3	68.8
32.5°	113.1	110.1	102.4	96.3	91.7	79.5	70.3	64.2	59.6	59.6	61.1
35°	91.7	91.7	90.2	85.6	79.5	67.3	59.6	53.5	50.4	48.9	50.4
37.5°	81.0	76.4	70.3	71.8	68.8	58.1	50.4	45.9	41.3	41.3	41.3
40°	73.4	68.8	62.7	58.1	56.6	52.0	44.3	36.7	32.1	30.6	30.6
42.5°	65.7	62.7	53.5	45.9	44.3	44.3	33.6	27.5	22.9	22.9	22.9
45°	61.1	56.6	48.9	39.7	32.1	33.6	27.5	19.9	16.8	15.3	15.3
47.5°	58.1	53.5	42.8	33.6	24.5	24.5	19.9	13.8	10.7	9.2	9.2
50°	53.5	48.9	38.2	27.5	18.3	15.3	12.2	7.6	4.6	3.1	3.1
52.5°	50.4	45.9	33.6	22.9	15.3	10.7	7.6	1.5	0.0	0.0	0.0
55°	45.9	39.7	29.0	18.3	12.2	6.1	1.5	0.0	0.0	0.0	0.0
57.5°	39.7	35.2	22.9	13.8	7.6	1.5	0.0	0.0	0.0	0.0	0.0
60°	33.6	29.0	18.3	10.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	27.5	24.5	13.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	22.9	18.3	10.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19.9	15.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.3	10.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.7	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.6	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°	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5
2.5°	1944.4	1990.2	2033.0	2045.3	2078.9	2172.1	2172.1	2216.5	2295.9	2325.0	2331.1
5°	1640.2	1689.1	1698.3	1793.0	1837.4	1932.1	1994.8	2144.6	2234.8	2291.4	2326.5
7.5°	1247.3	1264.1	1299.3	1388.0	1475.1	1589.7	1709.0	1900.0	2059.0	2123.2	2242.4
10°	857.5	908.0	984.4	1063.9	1199.9	1326.8	1481.2	1661.6	1857.2	1936.7	2039.1
12.5°	577.8	648.1	770.4	883.5	1008.9	1137.3	1284.0	1525.5	1747.2	1857.2	1959.6
15°	337.8	423.4	528.9	712.3	878.9	1022.6	1169.4	1413.9	1683.0	1825.1	1950.5
17.5°	171.2	197.2	284.3	443.3	663.4	898.8	1117.4	1429.2	1731.9	1906.1	2010.1
20°	128.4	136.0	160.5	235.4	454.0	742.9	1068.5	1452.2	1867.9	2080.4	2137.0
22.5°	111.6	117.7	128.4	152.9	255.3	568.6	999.7	1508.7	2052.9	2253.1	2372.4
25°	94.8	100.9	110.1	125.3	163.6	386.7	915.6	1568.3	2218.0	2470.2	2581.8
27.5°	82.5	87.1	96.3	108.5	133.0	246.1	770.4	1647.8	2470.2	2733.1	2762.2
30°	70.3	74.9	82.5	96.3	113.1	174.3	565.6	1658.5	2609.3	2847.8	2928.8
32.5°	61.1	62.7	71.8	84.1	94.8	137.6	397.4	1669.2	2711.7	2996.0	3012.8
35°	50.4	53.5	62.7	70.3	82.5	108.5	301.1	1615.7	2844.7	3148.9	3144.3
37.5°	41.3	45.9	52.0	58.1	67.3	91.7	240.0	1516.4	3011.3	3385.8	3242.1
40°	32.1	36.7	42.8	50.4	56.6	82.5	180.4	1366.6	3185.6	3502.0	3349.1
42.5°	22.9	26.0	32.1	39.7	50.4	68.8	129.9	1189.2	3254.4	3638.0	3477.5
45°	16.8	19.9	24.5	33.6	52.0	55.0	90.2	1027.2	3327.7	3697.7	3448.5
47.5°	9.2	12.2	18.3	29.0	45.9	41.3	64.2	882.0	3411.8	3751.2	3471.4
50°	3.1	4.6	10.7	30.6	36.7	32.1	50.4	804.0	3494.4	3761.9	3517.3
52.5°	0.0	0.0	6.1	32.1	27.5	24.5	44.3	773.5	3473.0	3795.5	3488.2
55°	0.0	0.0	1.5	13.8	15.3	18.3	36.7	771.9	3624.3	3806.2	3647.2
57.5°	0.0	0.0	0.0	4.6	9.2	15.3	32.1	723.0	3720.6	4072.2	3861.2
60°	0.0	0.0	0.0	1.5	6.1	10.7	24.5	680.2	3818.4	4191.4	4090.5
62.5°	0.0	0.0	0.0	0.0	1.5	4.6	16.8	614.5	3621.2	4182.2	4312.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.7	486.1	3257.4	3963.6	4189.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	336.3	2852.3	3688.5	3965.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	203.3	2302.1	3234.5	3362.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.1	1643.2	2568.0	2759.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	1016.5	1877.1	2112.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	658.8	1421.6	1603.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	351.6	891.2	1036.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	152.9	541.1	623.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.9	328.6	374.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.4	67.3
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°	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5	2167.5
2.5°	2334.2	2378.5	2395.3	2369.3	2372.4	2318.9	2311.2	2236.3	2205.8	2211.9
5°	2441.2	2505.4	2540.5	2511.5	2445.7	2343.3	2250.1	2161.4	2106.4	2078.9
7.5°	2416.7	2488.5	2532.9	2560.4	2485.5	2320.4	2178.2	2011.6	1941.3	1942.8
10°	2282.2	2432.0	2522.2	2487.0	2451.9	2286.8	2066.7	1886.3	1823.6	1829.7
12.5°	2173.7	2340.3	2393.8	2421.3	2349.4	2218.0	2069.7	1863.3	1793.0	1750.2
15°	2106.4	2230.2	2233.3	2276.1	2247.0	2247.0	2101.8	1900.0	1838.9	1791.5
17.5°	2106.4	2133.9	2130.9	2146.1	2195.1	2253.1	2182.8	2048.3	1927.5	1919.9
20°	2153.8	2068.2	2048.3	2054.4	2095.7	2268.4	2361.7	2193.5	2117.1	2092.6
22.5°	2263.8	2075.8	1955.1	1933.7	2060.5	2266.9	2476.3	2422.8	2289.8	2270.0
25°	2415.2	2062.1	1930.6	1903.1	1999.4	2321.9	2633.8	2644.5	2523.7	2482.4
27.5°	2558.9	2123.2	1927.5	1921.4	2048.3	2309.7	2742.3	2821.8	2685.7	2652.1
30°	2607.8	2184.4	1984.1	1903.1	2066.7	2354.0	2739.2	2947.1	2858.5	2866.1
32.5°	2665.9	2245.5	1990.2	1958.1	2144.6	2425.9	2826.4	3148.9	3084.7	2994.5
35°	2751.5	2328.0	2048.3	2019.3	2199.6	2490.1	2844.7	3297.2	3286.5	3181.0
37.5°	2824.8	2409.1	2169.1	2173.7	2367.8	2594.0	2925.7	3479.1	3460.7	3388.9
40°	2876.8	2522.2	2357.1	2369.3	2514.5	2710.2	3069.4	3570.8	3706.8	3601.4
42.5°	2884.4	2623.1	2572.6	2670.4	2806.5	2890.6	3127.5	3633.5	3829.1	3760.3
45°	2913.5	2783.6	2924.2	2996.0	3107.6	3049.5	3124.4	3740.5	3838.3	3803.1
47.5°	3026.6	3075.5	3252.8	3471.4	3511.2	3320.1	3197.8	3757.3	3890.3	3885.7
50°	3144.3	3388.9	3638.0	3783.3	3833.7	3506.6	3266.6	3743.5	3959.0	3922.4
52.5°	3275.8	3661.0	4020.2	4199.0	4171.5	3712.9	3344.6	3855.1	4085.9	4073.7
55°	3358.3	3783.3	4266.3	4515.4	4494.0	3943.8	3592.2	4015.6	4252.5	4222.0
57.5°	3576.9	3982.0	4510.9	4627.0	4683.6	4246.4	3764.9	4278.5	4391.6	4425.3
60°	3757.3	4111.9	4575.1	4743.2	4763.1	4426.8	4067.6	4549.1	4568.9	4455.8
62.5°	4021.7	4162.3	4439.0	4590.3	4692.8	4529.2	4339.7	4694.3	4565.9	4558.2
65°	4215.8	3997.3	4185.3	4269.3	4335.1	4373.3	4613.3	4793.7	4509.3	4361.1
67.5°	4107.3	3685.4	3650.3	3654.9	3674.7	3905.5	4521.6	4550.6	4194.4	4072.2
70°	3615.1	3023.5	2976.2	3012.8	2913.5	3191.7	4150.1	4136.4	3700.7	3573.8
72.5°	2924.2	2204.2	2123.2	2173.7	2196.6	2491.6	3491.3	3136.7	2699.5	2600.1
75°	2323.5	1615.7	1363.5	1485.8	1563.7	1814.4	2727.0	2130.9	1884.7	1750.2
77.5°	1825.1	1222.9	1060.8	1011.9	1083.8	1319.2	1984.1	1118.9	987.5	924.8
80°	1157.1	898.8	975.2	904.9	935.5	941.6	1033.3	509.0	405.1	400.5
82.5°	697.0	614.5	730.7	402.0	732.2	654.2	429.5	230.8	204.8	204.8
85°	493.7	380.6	252.2	163.6	325.6	359.2	166.6	119.2	103.9	100.9
87.5°	247.6	117.7	56.6	36.7	41.3	67.3	19.9	9.2	9.2	7.6
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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