

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: P674322

Luminaire Tested: **CCP-SA-2C-830-U-SLR-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674322
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-830-U-SLR-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ SLR distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

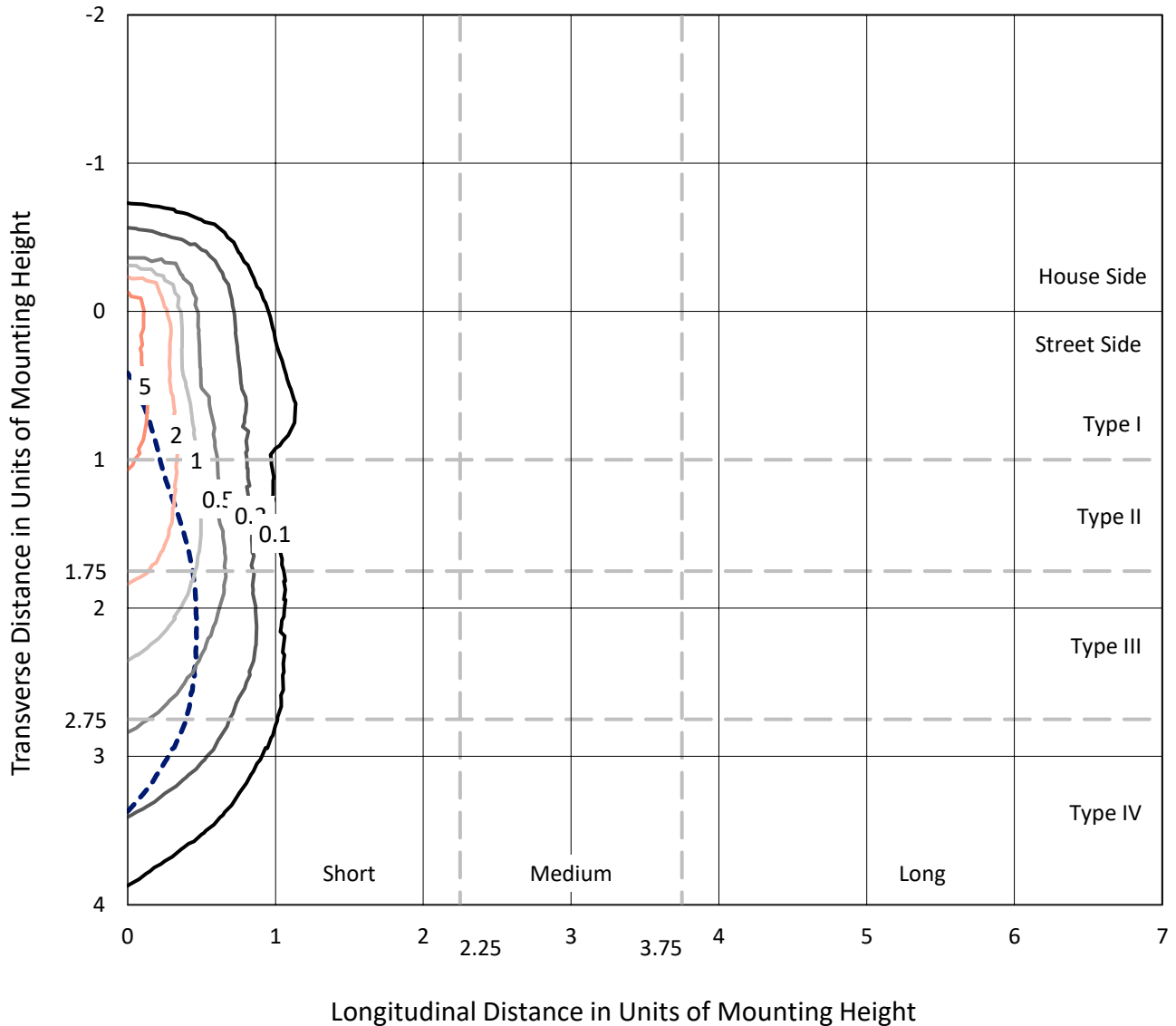
Lumens per Lamp: N/A
Luminaire Lumens: 5162.9 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

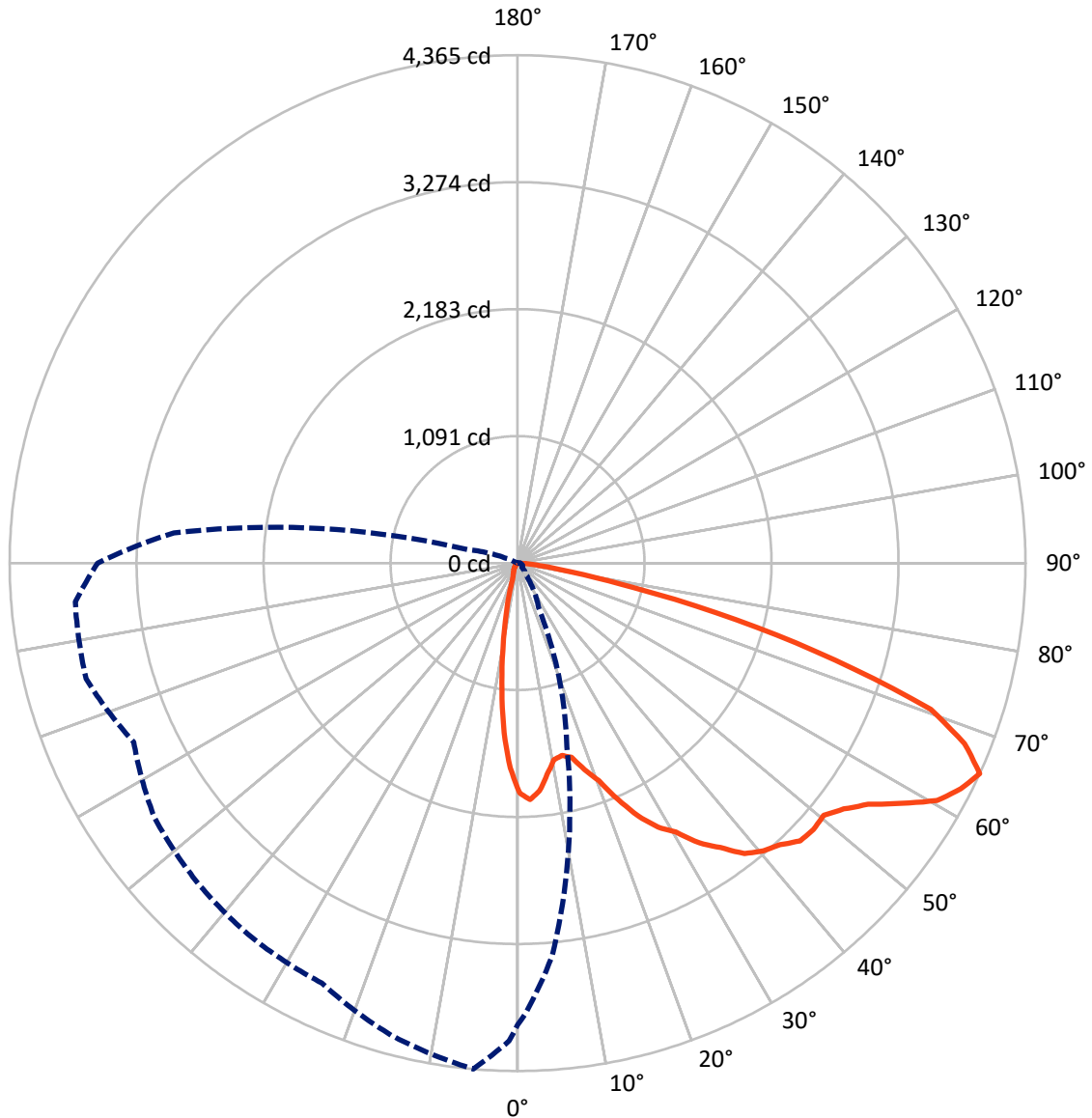
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.8 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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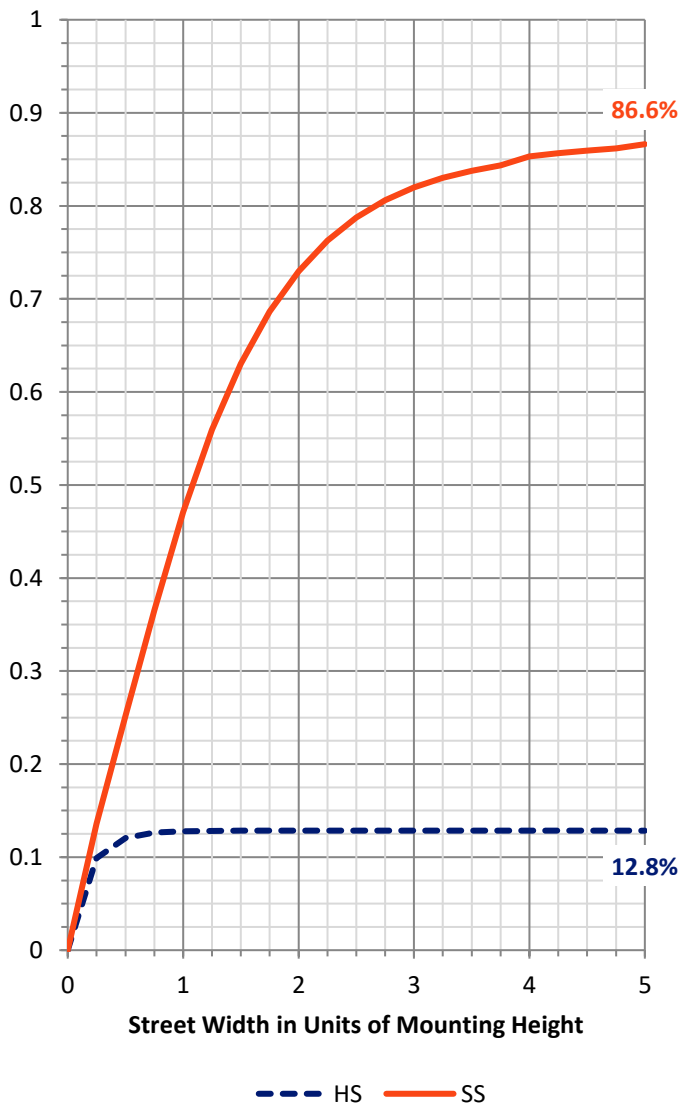
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.3	0.0	670.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4492.6	0.0	4492.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	5162.9	0.0	5162.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.9
10°-20°	289.5	5.6
20°-30°	403.2	7.8
30°-40°	572.9	11.1
40°-50°	794.5	15.4
50°-60°	1082.6	21.0
60°-70°	1190.2	23.1
70°-80°	585.0	11.3
80°-90°	95.5	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°	5162.9	100.0
0°-180°	5162.9	100.0



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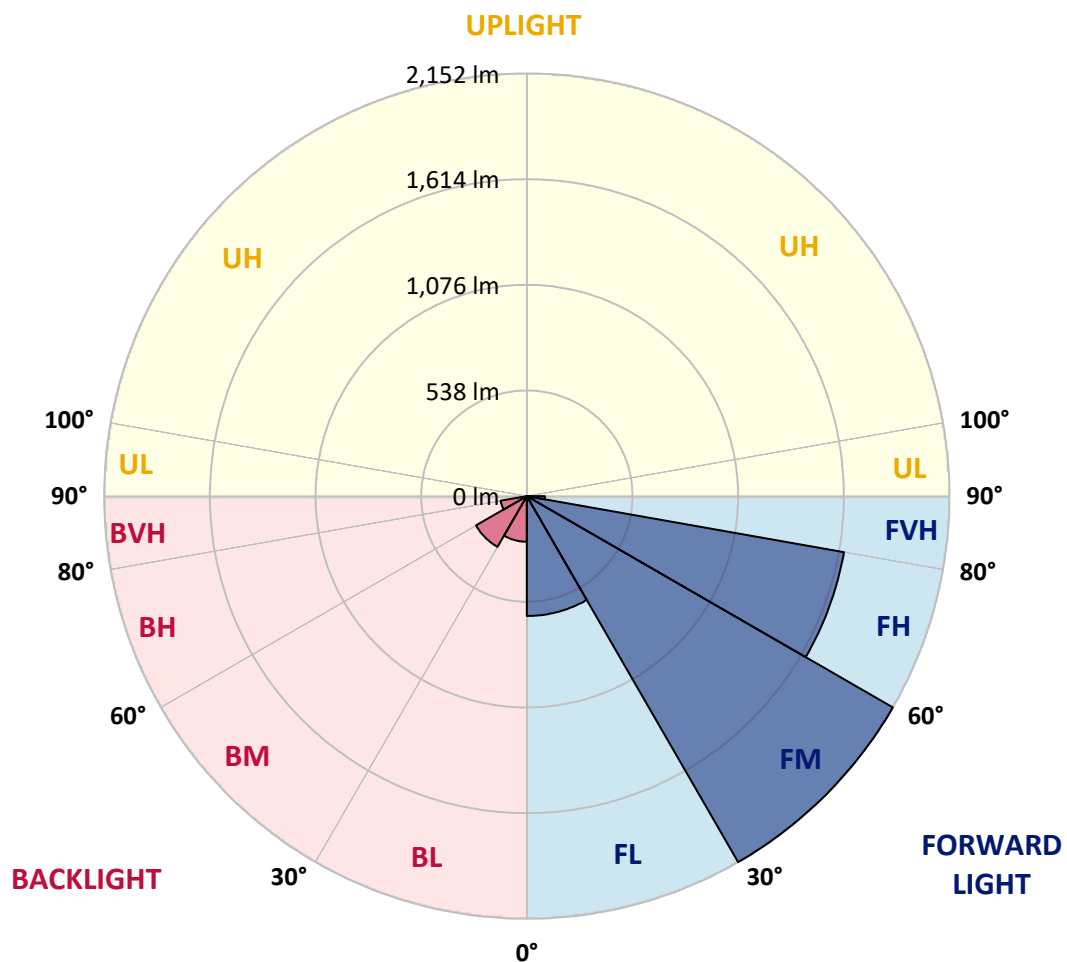
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.2	11.8			
FM (30°-60°)	2151.5	41.7			
FH (60°-80°)	1639.7	31.8			G1/1800
FVH (80°-90°)	91.2	1.8			G1/100
BL (0°-30°)	232.1	4.5	B1/500		
BM (30°-60°)	298.5	5.8	B1/1000		
BH (60°-80°)	135.5	2.6	B1/500		G1/500
BVH (80°-90°)	4.3	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	2014.2	2037.8	2015.5	1937.6	1923.7	1886.1	1829.0	1824.8	1765.0	1772.0	1739.9
5°	1893.1	1916.7	1869.4	1766.4	1670.3	1593.8	1547.8	1465.7	1447.6	1407.3	1407.3
7.5°	1769.2	1767.8	1687.0	1600.7	1457.4	1316.8	1252.8	1134.4	1064.8	1027.3	991.1
10°	1666.2	1643.9	1593.8	1415.6	1259.7	1113.6	1034.2	956.3	883.9	821.3	758.6
12.5°	1593.8	1607.7	1528.4	1334.9	1133.0	1031.4	946.5	864.4	778.1	707.1	637.5
15°	1631.4	1609.1	1515.8	1316.8	1112.2	973.0	860.2	760.0	664.0	570.7	517.8
17.5°	1748.3	1691.2	1581.3	1316.8	1069.0	883.9	747.5	629.2	526.2	442.6	377.2
20°	1905.6	1840.2	1721.8	1365.5	1037.0	818.5	631.9	483.0	375.8	297.9	247.8
22.5°	2067.0	2015.5	1837.4	1385.0	999.4	730.8	498.3	349.4	250.6	200.4	175.4
25°	2260.5	2188.1	1993.3	1462.9	943.7	645.9	392.5	243.6	186.5	160.1	144.8
27.5°	2415.0	2402.5	2139.4	1510.3	902.0	576.3	310.4	193.5	154.5	135.0	125.3
30°	2609.9	2541.7	2317.6	1604.9	854.7	496.9	258.9	174.0	142.0	121.1	114.1
32.5°	2726.8	2694.8	2410.9	1657.8	801.8	431.5	222.7	153.1	129.5	114.1	107.2
35°	2896.6	2832.6	2544.5	1691.2	773.9	393.9	200.4	139.2	108.6	93.3	84.9
37.5°	3086.0	3062.3	2704.6	1689.8	733.6	371.7	185.1	129.5	103.0	86.3	76.6
40°	3279.4	3183.4	2802.0	1728.8	712.7	354.9	174.0	123.9	97.4	82.1	69.6
42.5°	3424.2	3314.2	2914.7	1714.9	687.6	325.7	169.8	115.5	93.3	75.2	64.0
45°	3463.2	3424.2	3016.4	1710.7	669.5	302.1	162.9	114.1	90.5	71.0	59.9
47.5°	3538.3	3511.9	3141.6	1717.7	655.6	284.0	146.2	116.9	86.3	66.8	57.1
50°	3571.7	3524.4	3243.2	1734.4	623.6	261.7	130.8	122.5	84.9	65.4	54.3
52.5°	3709.5	3667.8	3382.4	1781.7	597.1	232.5	115.5	116.9	87.7	61.2	51.5
55°	3844.6	3797.2	3596.8	1890.3	559.6	208.8	98.8	103.0	83.5	55.7	45.9
57.5°	4029.7	3951.7	3740.2	1934.8	526.2	176.8	87.7	84.9	77.9	50.1	40.4
60°	4057.5	4089.6	3719.3	1907.0	491.4	155.9	76.6	65.4	83.5	44.5	34.8
62.5°	4150.8	4017.2	3621.9	1842.9	466.3	143.4	68.2	54.3	72.4	39.0	29.2
65°	3971.2	3872.4	3393.6	1636.9	434.3	144.8	59.9	44.5	45.9	32.0	23.7
67.5°	3708.2	3630.2	3015.0	1412.8	402.3	142.0	52.9	39.0	34.8	27.8	20.9
70°	3254.4	3086.0	2561.2	1147.0	354.9	132.2	44.5	34.8	29.2	22.3	15.3
72.5°	2367.7	2299.5	1837.4	886.7	318.8	119.7	41.8	29.2	25.1	16.7	12.5
75°	1593.8	1481.0	1159.5	581.8	256.1	104.4	34.8	26.4	19.5	12.5	9.7
77.5°	842.1	796.2	657.0	277.0	142.0	48.7	19.5	15.3	11.1	9.7	5.6
80°	364.7	324.3	284.0	112.7	50.1	22.3	12.5	8.4	7.0	5.6	2.8
82.5°	186.5	178.2	147.5	48.7	29.2	16.7	7.0	5.6	4.2	2.8	1.4
85°	91.9	94.7	77.9	15.3	16.7	9.7	1.4	1.4	0.0	0.0	0.0
87.5°	7.0	7.0	5.6	2.8	4.2	1.4	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°	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	1727.4	1746.9	1713.5	1734.4	1724.6	1728.8	1733.0	1721.8	1724.6	1763.6	1765.0
5°	1383.6	1421.2	1407.3	1426.7	1460.2	1443.5	1458.8	1456.0	1458.8	1464.3	1489.4
7.5°	986.9	975.8	1002.2	1053.7	1113.6	1149.8	1131.7	1121.9	1116.3	1102.4	1119.1
10°	744.7	739.1	732.2	747.5	786.5	826.8	849.1	811.5	790.6	764.2	754.4
12.5°	618.0	583.2	563.7	540.1	551.2	587.4	588.8	552.6	519.2	505.3	520.6
15°	487.2	463.5	428.7	395.3	378.6	406.4	382.8	348.0	304.8	299.3	297.9
17.5°	348.0	334.1	309.0	295.1	275.6	268.6	243.6	190.7	160.1	151.7	154.5
20°	236.6	225.5	224.1	211.6	203.2	197.7	157.3	122.5	112.7	114.1	115.5
22.5°	175.4	169.8	162.9	161.5	154.5	147.5	115.5	103.0	96.0	96.0	100.2
25°	143.4	140.6	133.6	130.8	128.1	118.3	97.4	87.7	84.9	82.1	86.3
27.5°	122.5	121.1	116.9	112.7	110.0	100.2	84.9	76.6	73.8	73.8	73.8
30°	110.0	110.0	104.4	96.0	96.0	84.9	72.4	66.8	64.0	64.0	62.6
32.5°	103.0	100.2	93.3	87.7	83.5	72.4	64.0	58.5	54.3	54.3	55.7
35°	83.5	83.5	82.1	77.9	72.4	61.2	54.3	48.7	45.9	44.5	45.9
37.5°	73.8	69.6	64.0	65.4	62.6	52.9	45.9	41.8	37.6	37.6	37.6
40°	66.8	62.6	57.1	52.9	51.5	47.3	40.4	33.4	29.2	27.8	27.8
42.5°	59.9	57.1	48.7	41.8	40.4	40.4	30.6	25.1	20.9	20.9	20.9
45°	55.7	51.5	44.5	36.2	29.2	30.6	25.1	18.1	15.3	13.9	13.9
47.5°	52.9	48.7	39.0	30.6	22.3	22.3	18.1	12.5	9.7	8.4	8.4
50°	48.7	44.5	34.8	25.1	16.7	13.9	11.1	7.0	4.2	2.8	2.8
52.5°	45.9	41.8	30.6	20.9	13.9	9.7	7.0	1.4	0.0	0.0	0.0
55°	41.8	36.2	26.4	16.7	11.1	5.6	1.4	0.0	0.0	0.0	0.0
57.5°	36.2	32.0	20.9	12.5	7.0	1.4	0.0	0.0	0.0	0.0	0.0
60°	30.6	26.4	16.7	9.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	25.1	22.3	12.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	20.9	16.7	9.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18.1	13.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.9	9.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.7	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	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°	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	1770.6	1812.3	1851.3	1862.4	1893.1	1978.0	1978.0	2018.3	2090.7	2117.2	2122.7
5°	1493.6	1538.1	1546.5	1632.8	1673.1	1759.4	1816.5	1952.9	2035.0	2086.5	2118.5
7.5°	1135.8	1151.1	1183.2	1263.9	1343.2	1447.6	1556.2	1730.2	1875.0	1933.4	2042.0
10°	780.9	826.8	896.4	968.8	1092.7	1208.2	1348.8	1513.1	1691.2	1763.6	1856.9
12.5°	526.2	590.2	701.5	804.5	918.7	1035.6	1169.2	1389.2	1591.0	1691.2	1784.5
15°	307.6	385.6	481.6	648.6	800.4	931.2	1064.8	1287.6	1532.5	1662.0	1776.1
17.5°	155.9	179.6	258.9	403.7	604.1	818.5	1017.5	1301.5	1577.1	1735.8	1830.4
20°	116.9	123.9	146.2	214.4	413.4	676.5	973.0	1322.4	1701.0	1894.4	1945.9
22.5°	101.6	107.2	116.9	139.2	232.5	517.8	910.3	1373.9	1869.4	2051.7	2160.3
25°	86.3	91.9	100.2	114.1	148.9	352.2	833.8	1428.1	2019.7	2249.4	2351.0
27.5°	75.2	79.3	87.7	98.8	121.1	224.1	701.5	1500.5	2249.4	2488.8	2515.3
30°	64.0	68.2	75.2	87.7	103.0	158.7	515.0	1510.3	2376.1	2593.2	2667.0
32.5°	55.7	57.1	65.4	76.6	86.3	125.3	361.9	1520.0	2469.3	2728.2	2743.5
35°	45.9	48.7	57.1	64.0	75.2	98.8	274.2	1471.3	2590.4	2867.4	2863.2
37.5°	37.6	41.8	47.3	52.9	61.2	83.5	218.5	1380.8	2742.1	3083.2	2952.3
40°	29.2	33.4	39.0	45.9	51.5	75.2	164.3	1244.4	2900.8	3189.0	3049.8
42.5°	20.9	23.7	29.2	36.2	45.9	62.6	118.3	1082.9	2963.5	3312.8	3166.7
45°	15.3	18.1	22.3	30.6	47.3	50.1	82.1	935.4	3030.3	3367.1	3140.2
47.5°	8.4	11.1	16.7	26.4	41.8	37.6	58.5	803.2	3106.8	3415.8	3161.1
50°	2.8	4.2	9.7	27.8	33.4	29.2	45.9	732.2	3182.0	3425.6	3202.9
52.5°	0.0	0.0	5.6	29.2	25.1	22.3	40.4	704.3	3162.5	3456.2	3176.4
55°	0.0	0.0	1.4	12.5	13.9	16.7	33.4	702.9	3300.3	3466.0	3321.2
57.5°	0.0	0.0	0.0	4.2	8.4	13.9	29.2	658.4	3388.0	3708.2	3516.1
60°	0.0	0.0	0.0	1.4	5.6	9.7	22.3	619.4	3477.1	3816.7	3724.9
62.5°	0.0	0.0	0.0	0.0	1.4	4.2	15.3	559.6	3297.5	3808.4	3926.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	442.6	2966.2	3609.3	3815.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	306.2	2597.4	3358.8	3610.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	185.1	2096.3	2945.4	3062.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.3	1496.3	2338.5	2512.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	925.6	1709.3	1923.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	599.9	1294.5	1460.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	320.1	811.5	943.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.2	492.8	567.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5	299.3	341.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9	61.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	2125.5	2165.9	2181.2	2157.5	2160.3	2111.6	2104.6	2036.4	2008.6	2014.2
5°	2222.9	2281.4	2313.4	2287.0	2227.1	2133.9	2049.0	1968.2	1918.1	1893.1
7.5°	2200.7	2266.1	2306.5	2331.5	2263.3	2113.0	1983.5	1831.8	1767.8	1769.2
10°	2078.2	2214.6	2296.7	2264.7	2232.7	2082.4	1881.9	1717.7	1660.6	1666.2
12.5°	1979.4	2131.1	2179.8	2204.8	2139.4	2019.7	1884.7	1696.8	1632.8	1593.8
15°	1918.1	2030.9	2033.6	2072.6	2046.2	2046.2	1913.9	1730.2	1674.5	1631.4
17.5°	1918.1	1943.2	1940.4	1954.3	1998.8	2051.7	1987.7	1865.2	1755.2	1748.3
20°	1961.3	1883.3	1865.2	1870.8	1908.4	2065.7	2150.6	1997.4	1927.9	1905.6
22.5°	2061.5	1890.3	1780.3	1760.8	1876.3	2064.3	2255.0	2206.2	2085.1	2067.0
25°	2199.3	1877.7	1758.0	1733.0	1820.7	2114.4	2398.3	2408.1	2298.1	2260.5
27.5°	2330.1	1933.4	1755.2	1749.7	1865.2	2103.2	2497.2	2569.5	2445.7	2415.0
30°	2374.7	1989.1	1806.8	1733.0	1881.9	2143.6	2494.4	2683.7	2602.9	2609.9
32.5°	2427.6	2044.8	1812.3	1783.1	1952.9	2209.0	2573.7	2867.4	2809.0	2726.8
35°	2505.5	2119.9	1865.2	1838.8	2003.0	2267.5	2590.4	3002.4	2992.7	2896.6
37.5°	2572.3	2193.7	1975.2	1979.4	2156.1	2362.1	2664.2	3168.1	3151.4	3086.0
40°	2619.7	2296.7	2146.4	2157.5	2289.8	2467.9	2795.0	3251.6	3375.5	3279.4
42.5°	2626.6	2388.6	2342.7	2431.7	2555.6	2632.2	2847.9	3308.7	3486.8	3424.2
45°	2653.1	2534.7	2662.8	2728.2	2829.8	2776.9	2845.1	3406.1	3495.2	3463.2
47.5°	2756.1	2800.6	2962.1	3161.1	3197.3	3023.3	2912.0	3421.4	3542.5	3538.3
50°	2863.2	3086.0	3312.8	3445.1	3491.0	3193.1	2974.6	3408.9	3605.2	3571.7
52.5°	2983.0	3333.7	3660.8	3823.7	3798.6	3381.0	3045.6	3510.5	3720.7	3709.5
55°	3058.1	3445.1	3884.9	4111.8	4092.3	3591.2	3271.1	3656.7	3872.4	3844.6
57.5°	3257.2	3626.0	4107.6	4213.4	4264.9	3866.8	3428.4	3896.1	3999.1	4029.7
60°	3421.4	3744.3	4166.1	4319.2	4337.3	4031.1	3704.0	4142.4	4160.5	4057.5
62.5°	3662.2	3790.3	4042.2	4180.0	4273.3	4124.3	3951.7	4274.7	4157.8	4150.8
65°	3839.0	3640.0	3811.2	3887.7	3947.6	3982.4	4200.9	4365.2	4106.3	3971.2
67.5°	3740.2	3356.0	3324.0	3328.2	3346.2	3556.4	4117.4	4143.8	3819.5	3708.2
70°	3292.0	2753.3	2710.1	2743.5	2653.1	2906.4	3779.1	3766.6	3369.9	3254.4
72.5°	2662.8	2007.2	1933.4	1979.4	2000.2	2268.9	3179.2	2856.3	2458.2	2367.7
75°	2115.8	1471.3	1241.6	1353.0	1424.0	1652.2	2483.2	1940.4	1716.3	1593.8
77.5°	1662.0	1113.6	966.0	921.5	986.9	1201.3	1806.8	1018.9	899.2	842.1
80°	1053.7	818.5	888.1	824.0	851.9	857.4	941.0	463.5	368.9	364.7
82.5°	634.7	559.6	665.4	366.1	666.7	595.8	391.1	210.2	186.5	186.5
85°	449.6	346.6	229.7	148.9	296.5	327.1	151.7	108.6	94.7	91.9
87.5°	225.5	107.2	51.5	33.4	37.6	61.2	18.1	8.4	8.4	7.0
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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