

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: P674167

Luminaire Tested: **CCP-SA-2C-827-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674167
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-827-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ SLL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

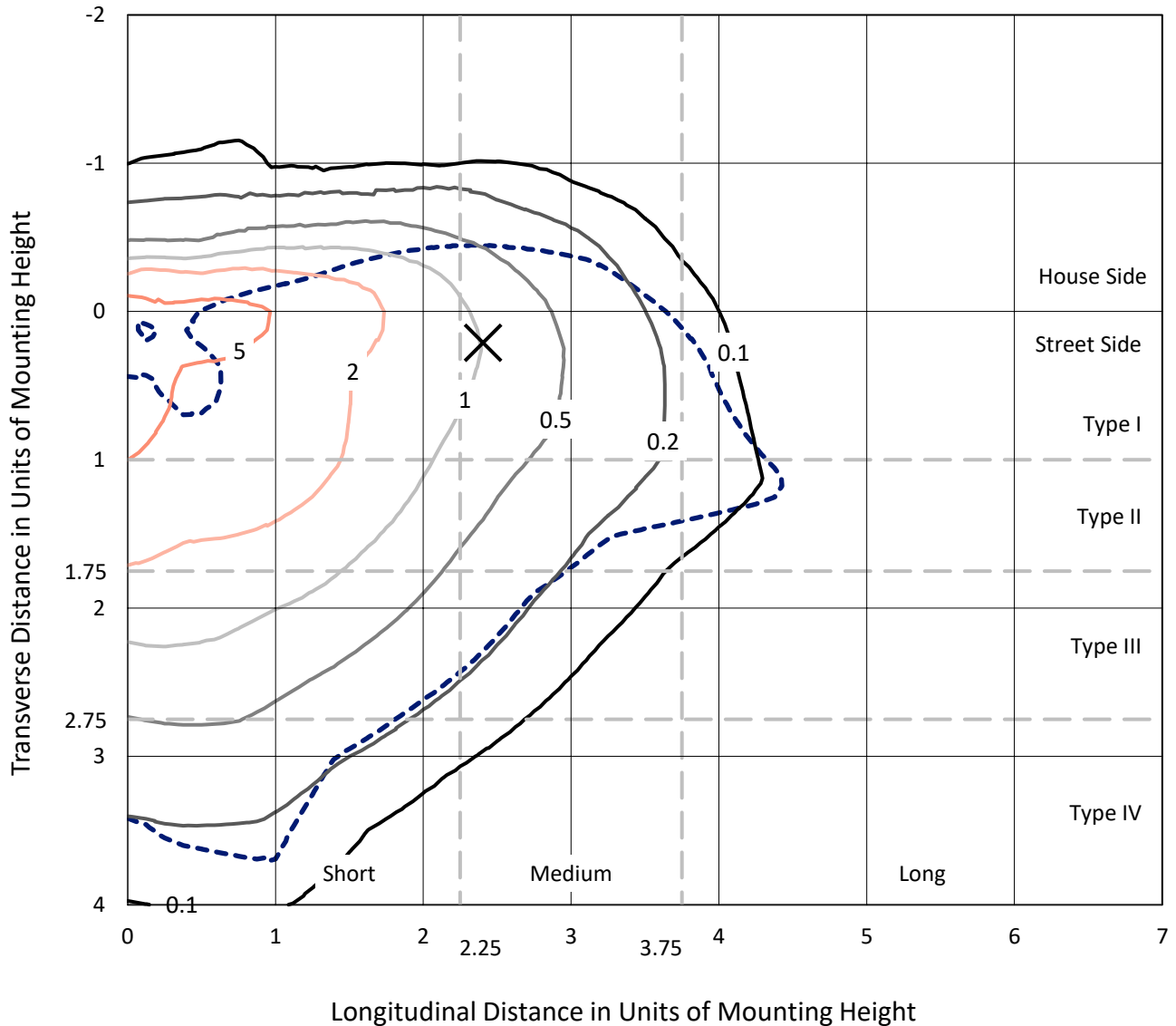
Lumens per Lamp: N/A
Luminaire Lumens: 4822.2 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

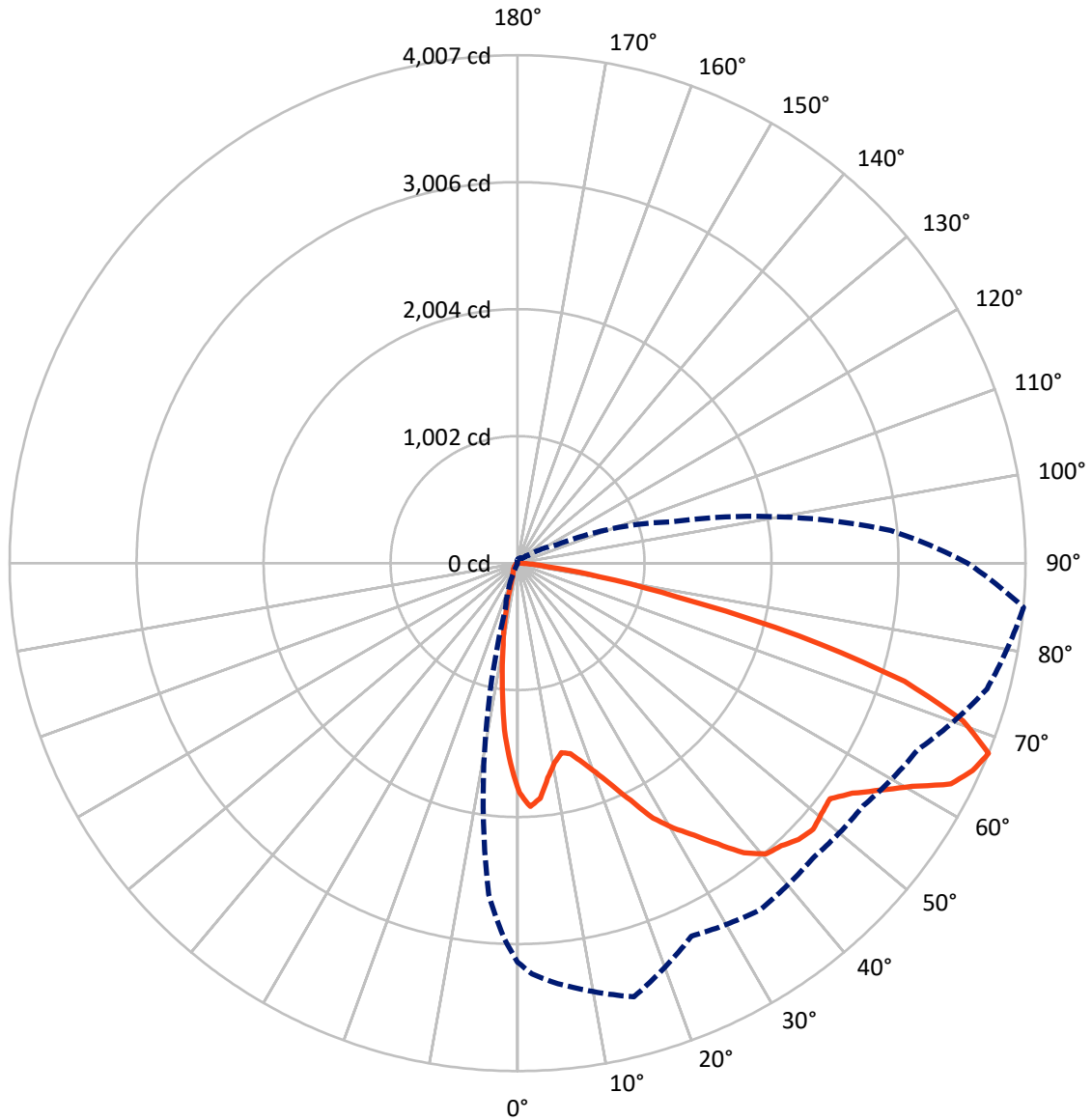
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 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	837.3	0.0	837.3
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3984.9	0.0	3984.9
	% Fixture	82.6	0.0	82.6
Total	Lumens	4822.2	0.0	4822.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	2.9
10°-20°	270.1	5.6
20°-30°	373.8	7.8
30°-40°	528.3	11.0
40°-50°	719.2	14.9
50°-60°	952.6	19.8
60°-70°	1106.0	22.9
70°-80°	626.3	13.0
80°-90°	108.2	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°	4822.2	100.0
0°-180°	4822.2	100.0



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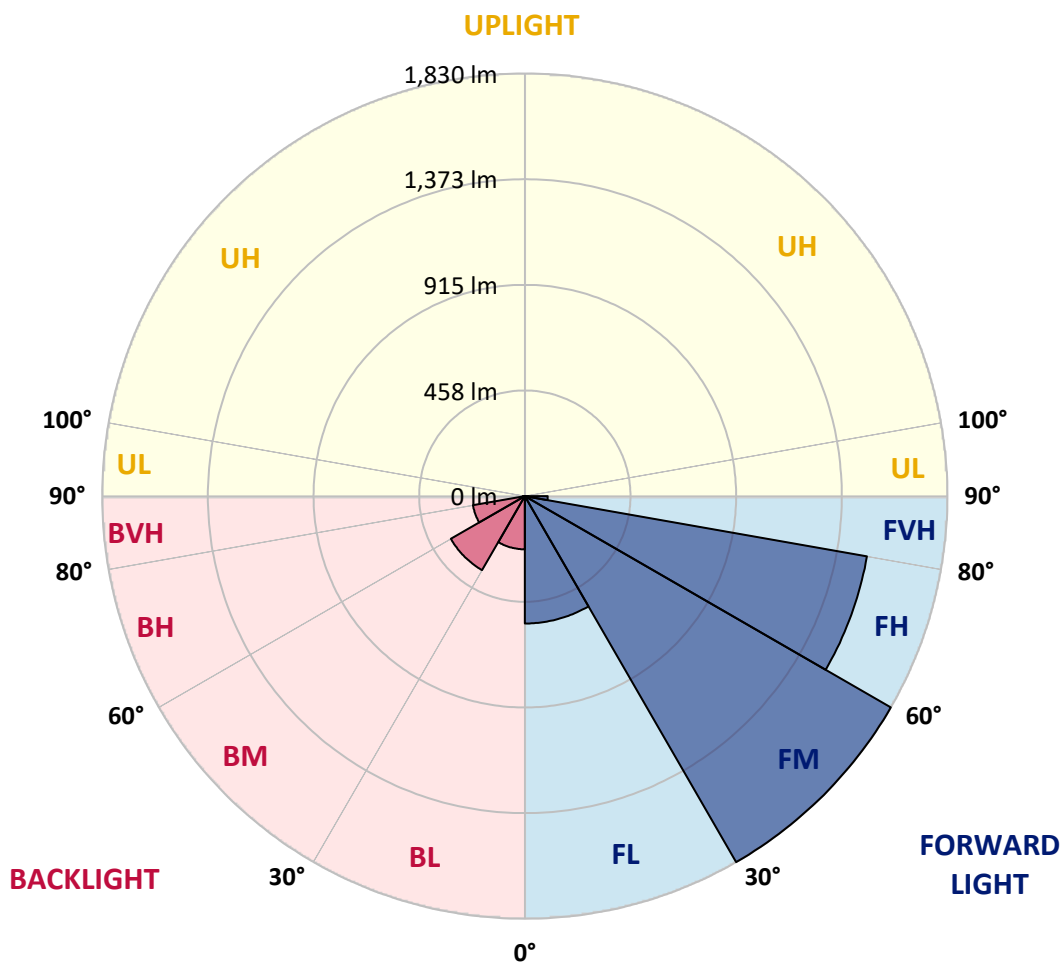
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.4	11.4			
FM (30°-60°)	1830.1	38.0			
FH (60°-80°)	1504.3	31.2			G1/1800
FVH (80°-90°)	99.1	2.1			G1/100
BL (0°-30°)	230.2	4.8	B1/500		
BM (30°-60°)	370.0	7.7	B1/1000		
BH (60°-80°)	228.0	4.7	B1/500		G1/500
BVH (80°-90°)	9.1	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1
2.5°	1884.0	1923.9	1925.2	1943.2	1961.2	1961.2	2003.7	1993.4	1956.1	1949.6	1922.6
5°	1898.1	1912.3	1922.6	2014.0	2091.3	2083.6	2106.7	2091.3	2019.2	1926.5	1863.4
7.5°	1775.8	1791.2	1832.4	1988.3	2092.6	2127.3	2171.1	2074.5	1998.6	1831.2	1710.1
10°	1613.5	1643.1	1719.1	1896.8	2025.6	2136.4	2136.4	2059.1	1912.3	1748.7	1600.7
12.5°	1523.4	1582.6	1623.8	1804.1	1971.5	2047.5	2044.9	2003.7	1908.4	1702.4	1535.0
15°	1538.8	1555.6	1643.1	1783.5	1894.3	1890.4	1936.8	1923.9	1856.9	1743.6	1559.4
17.5°	1609.7	1635.4	1711.4	1783.5	1836.3	1820.9	1819.6	1881.4	1885.2	1813.1	1650.9
20°	1725.6	1801.5	1837.6	1859.5	1795.1	1729.4	1721.7	1808.0	1874.9	1902.0	1760.3
22.5°	1911.0	1961.2	2034.6	1922.6	1755.2	1672.8	1657.3	1752.6	1887.8	2007.6	1902.0
25°	2092.6	2131.2	2202.0	2057.8	1800.3	1661.2	1634.1	1716.5	1936.8	2154.4	2073.3
27.5°	2284.4	2317.9	2325.6	2157.0	1824.7	1638.0	1605.8	1716.5	1978.0	2231.6	2278.0
30°	2401.6	2441.5	2449.3	2244.5	1864.6	1657.3	1641.9	1724.3	2006.3	2297.3	2424.8
32.5°	2533.0	2543.3	2536.8	2260.0	1908.4	1714.0	1649.6	1775.8	2038.5	2375.9	2558.7
35°	2690.1	2708.1	2642.4	2330.8	2006.3	1750.0	1726.9	1838.9	2093.9	2411.9	2721.0
37.5°	2809.8	2866.5	2718.4	2357.8	2025.6	1826.0	1829.9	1970.2	2132.5	2455.7	2900.0
40°	3035.2	2939.9	2847.2	2450.6	2099.0	1954.8	1934.2	2105.4	2262.5	2484.0	3017.2
42.5°	3158.8	3108.6	2897.4	2459.6	2212.3	2132.5	2137.6	2258.7	2330.8	2563.9	3049.4
45°	3189.7	3136.9	2965.7	2466.0	2324.4	2342.4	2431.2	2454.4	2431.2	2616.7	3109.9
47.5°	3268.3	3153.7	2957.9	2552.3	2505.9	2575.5	2688.8	2739.0	2567.7	2597.4	3138.2
50°	3252.8	3187.1	2941.2	2588.3	2727.4	2911.6	2987.5	2966.9	2719.7	2557.4	3107.3
52.5°	3188.4	3117.6	2992.7	2686.2	2934.7	3157.5	3263.1	3211.6	2854.9	2647.6	3086.7
55°	3282.4	3228.4	3059.7	2818.9	3090.6	3373.9	3448.6	3409.9	3021.0	2731.3	3203.9
57.5°	3384.2	3372.6	3241.2	2974.7	3274.7	3596.6	3596.6	3549.0	3165.3	2852.3	3377.7
60°	3531.0	3556.7	3375.2	3077.7	3337.8	3583.8	3770.5	3715.1	3310.8	3064.8	3574.8
62.5°	3483.3	3565.7	3547.7	3299.2	3409.9	3646.9	3748.6	3789.8	3491.0	3323.6	3837.4
65°	3330.1	3417.6	3546.4	3444.7	3355.8	3493.6	3545.1	3670.0	3581.2	3567.0	3945.6
67.5°	3147.2	3242.5	3322.4	3542.6	3246.4	3337.8	3292.7	3332.7	3483.3	3833.6	4007.4
70°	2748.0	2839.5	2965.7	3324.9	2956.6	2874.2	2862.6	2843.3	3077.7	3738.3	3726.7
72.5°	2260.0	2302.5	2511.1	2703.0	2187.9	2172.4	2190.4	2168.5	2440.3	3384.2	3192.3
75°	1692.1	1734.6	1853.0	2075.8	1489.9	1401.1	1504.1	1605.8	1863.4	2627.0	2293.5
77.5°	1272.3	1326.4	1401.1	1553.0	1093.3	954.2	968.4	1065.0	1347.0	2104.2	1285.2
80°	825.4	819.0	963.2	1068.8	822.9	848.6	812.6	883.4	976.1	1125.5	656.7
82.5°	476.5	482.9	543.4	613.0	573.0	655.5	472.6	789.4	696.7	458.4	244.7
85°	267.8	279.4	334.8	425.0	359.3	240.8	197.0	391.5	437.8	188.0	118.5
87.5°	27.0	23.2	45.1	161.0	97.9	39.9	59.2	94.0	105.6	70.8	34.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1
2.5°	1884.0	1884.0	1851.8	1797.7	1775.8	1737.2	1684.4	1701.1	1683.1	1617.4	1600.7
5°	1806.7	1744.9	1677.9	1595.5	1547.9	1450.0	1419.1	1363.7	1372.7	1317.4	1319.9
7.5°	1645.7	1596.8	1483.5	1375.3	1281.3	1196.3	1076.5	1031.5	987.7	965.8	991.6
10°	1551.7	1460.3	1305.8	1164.1	1039.2	963.2	883.4	821.6	764.9	722.4	713.4
12.5°	1483.5	1402.3	1215.6	1043.1	945.2	883.4	810.0	725.0	669.6	596.2	574.3
15°	1462.9	1363.7	1166.7	995.4	900.1	798.4	714.7	631.0	558.9	481.6	454.6
17.5°	1533.7	1419.1	1165.4	956.8	822.9	713.4	597.5	503.5	430.1	359.3	342.5
20°	1653.5	1478.3	1202.7	933.6	749.5	602.7	471.3	377.3	294.9	248.5	236.9
22.5°	1790.0	1578.8	1206.6	871.8	676.1	491.9	343.8	248.5	202.2	180.3	173.8
25°	1957.4	1739.7	1253.0	821.6	589.8	373.4	244.7	190.6	163.5	150.7	148.1
27.5°	2095.1	1851.8	1303.2	768.8	504.8	276.9	191.9	155.8	141.7	128.8	127.5
30°	2238.1	1980.5	1317.4	736.6	431.4	227.9	164.8	137.8	122.3	115.9	114.6
32.5°	2363.0	2120.9	1362.4	683.8	361.9	200.9	149.4	123.6	113.3	103.0	101.7
35°	2524.0	2202.0	1384.3	655.5	336.1	181.6	136.5	113.3	97.9	91.4	88.9
37.5°	2696.5	2280.6	1398.5	633.6	314.2	170.0	128.8	106.9	92.7	83.7	81.1
40°	2857.5	2391.3	1377.9	606.5	297.5	155.8	123.6	99.2	86.3	77.3	73.4
42.5°	2981.1	2499.5	1371.4	580.8	279.4	150.7	117.2	95.3	81.1	70.8	69.5
45°	3050.6	2572.9	1326.4	560.2	265.3	153.2	114.6	90.1	77.3	68.2	63.1
47.5°	3033.9	2629.6	1338.0	553.7	246.0	142.9	113.3	86.3	70.8	63.1	59.2
50°	3126.6	2744.2	1318.6	533.1	231.8	128.8	123.6	86.3	69.5	60.5	56.7
52.5°	3142.1	2848.5	1359.8	495.8	209.9	118.5	122.3	85.0	67.0	57.9	52.8
55°	3270.8	2969.5	1439.7	475.2	191.9	103.0	112.0	82.4	60.5	52.8	50.2
57.5°	3446.0	3220.6	1491.2	455.9	167.4	90.1	94.0	81.1	55.4	48.9	45.1
60°	3614.7	3321.1	1495.1	421.1	144.2	81.1	73.4	81.1	51.5	43.8	39.9
62.5°	3740.9	3321.1	1469.3	391.5	126.2	72.1	64.4	77.3	46.4	38.6	36.1
65°	3672.6	3232.2	1402.3	367.0	114.6	63.1	55.4	59.2	41.2	33.5	30.9
67.5°	3550.3	2955.4	1254.3	337.4	113.3	55.4	47.6	43.8	36.1	29.6	27.0
70°	3354.5	2581.9	1044.4	303.9	110.7	50.2	42.5	37.3	32.2	25.8	23.2
72.5°	2703.0	2132.5	857.6	284.6	108.2	43.8	36.1	32.2	27.0	21.9	19.3
75°	1872.4	1362.4	660.6	243.4	105.6	39.9	33.5	28.3	23.2	18.0	16.7
77.5°	1122.9	910.4	426.2	182.9	69.5	32.2	28.3	21.9	19.3	15.5	14.2
80°	525.4	430.1	172.6	70.8	33.5	23.2	19.3	16.7	15.5	12.9	11.6
82.5°	206.0	181.6	83.7	41.2	27.0	18.0	15.5	14.2	12.9	10.3	9.0
85°	110.7	97.9	39.9	28.3	19.3	12.9	12.9	11.6	10.3	9.0	7.7
87.5°	24.5	18.0	16.7	16.7	14.2	10.3	10.3	9.0	7.7	6.4	5.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1
2.5°	1591.6	1611.0	1580.1	1599.4	1572.3	1592.9	1595.5	1576.2	1581.3	1607.1	1618.7
5°	1356.0	1343.1	1314.8	1305.8	1307.1	1290.3	1296.7	1305.8	1319.9	1327.7	1350.8
7.5°	977.4	1007.0	1005.7	1027.6	1028.9	1026.3	1008.3	969.7	982.5	972.2	985.1
10°	699.2	712.1	736.6	750.7	776.5	762.3	721.1	705.7	698.0	696.7	709.5
12.5°	558.9	528.0	525.4	530.5	543.4	526.7	506.1	488.1	497.1	515.1	529.3
15°	432.7	406.9	373.4	368.3	370.9	363.1	341.2	318.1	324.5	342.5	352.8
17.5°	332.2	302.6	279.4	264.0	258.8	231.8	199.6	180.3	175.1	173.8	182.9
20°	224.1	218.9	215.1	195.7	195.7	157.1	130.1	115.9	115.9	118.5	119.8
22.5°	167.4	161.0	162.3	158.4	148.1	117.2	103.0	99.2	99.2	101.7	101.7
25°	145.5	136.5	133.9	132.6	122.3	100.4	90.1	86.3	86.3	88.9	88.9
27.5°	123.6	121.0	117.2	112.0	103.0	86.3	79.8	76.0	77.3	78.6	77.3
30°	113.3	106.9	101.7	101.7	91.4	77.3	72.1	69.5	67.0	69.5	70.8
32.5°	100.4	96.6	94.0	90.1	78.6	68.2	63.1	60.5	59.2	59.2	60.5
35°	86.3	86.3	83.7	78.6	68.2	61.8	55.4	52.8	51.5	52.8	52.8
37.5°	77.3	73.4	74.7	69.5	60.5	54.1	47.6	45.1	45.1	43.8	45.1
40°	72.1	65.7	61.8	59.2	54.1	46.4	41.2	38.6	37.3	37.3	37.3
42.5°	64.4	59.2	51.5	50.2	48.9	39.9	33.5	32.2	30.9	29.6	29.6
45°	60.5	52.8	46.4	39.9	39.9	33.5	28.3	25.8	24.5	23.2	24.5
47.5°	55.4	47.6	39.9	33.5	32.2	27.0	21.9	19.3	18.0	18.0	18.0
50°	52.8	42.5	34.8	28.3	24.5	21.9	16.7	14.2	12.9	12.9	12.9
52.5°	48.9	39.9	30.9	24.5	19.3	16.7	12.9	10.3	9.0	9.0	9.0
55°	43.8	36.1	27.0	20.6	16.7	12.9	9.0	6.4	5.2	5.2	5.2
57.5°	41.2	32.2	23.2	18.0	12.9	9.0	5.2	3.9	3.9	2.6	3.9
60°	37.3	28.3	19.3	14.2	10.3	6.4	3.9	1.3	1.3	1.3	1.3
62.5°	32.2	24.5	16.7	11.6	7.7	3.9	1.3	0.0	0.0	0.0	0.0
65°	27.0	19.3	12.9	9.0	5.2	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.2	16.7	10.3	6.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.6	14.2	7.7	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.7	11.6	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.2	9.0	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.0	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	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°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1
2.5°	1635.4	1627.7	1666.3	1729.4	1761.6	1824.7	1840.2	1880.1	1869.8	1884.0
5°	1353.4	1368.9	1425.5	1518.2	1551.7	1643.1	1729.4	1815.7	1871.1	1898.1
7.5°	1004.4	1055.9	1125.5	1210.5	1296.7	1416.5	1563.3	1663.8	1717.8	1775.8
10°	748.2	803.5	883.4	967.1	1107.5	1241.4	1388.2	1513.1	1559.4	1613.5
12.5°	588.5	674.8	767.5	857.6	941.3	1068.8	1250.4	1432.0	1482.2	1523.4
15°	409.5	515.1	647.7	764.9	882.1	992.8	1180.9	1401.1	1469.3	1538.8
17.5°	226.6	310.3	462.3	627.1	799.7	969.7	1204.0	1457.7	1560.7	1609.7
20°	131.3	164.8	273.0	468.7	696.7	919.4	1215.6	1564.6	1701.1	1725.6
22.5°	108.2	119.8	154.5	293.6	570.5	887.2	1274.9	1714.0	1853.0	1911.0
25°	92.7	101.7	119.8	176.4	431.4	819.0	1312.2	1900.7	2029.5	2092.6
27.5°	82.4	91.4	105.6	130.1	293.6	725.0	1374.0	2069.4	2198.2	2284.4
30°	72.1	79.8	94.0	110.7	203.5	619.4	1426.8	2193.0	2374.6	2401.6
32.5°	64.4	70.8	81.1	95.3	150.7	470.0	1469.3	2320.5	2473.7	2533.0
35°	55.4	63.1	69.5	81.1	114.6	354.1	1443.6	2419.7	2619.3	2690.1
37.5°	48.9	54.1	60.5	68.2	96.6	276.9	1390.8	2538.1	2744.2	2809.8
40°	41.2	45.1	52.8	60.5	87.6	213.8	1330.2	2681.1	2919.3	3035.2
42.5°	34.8	38.6	43.8	56.7	72.1	158.4	1207.9	2791.8	3060.9	3158.8
45°	27.0	32.2	39.9	56.7	57.9	117.2	1081.7	2874.2	3140.8	3189.7
47.5°	20.6	25.8	38.6	48.9	46.4	81.1	932.3	2968.2	3223.2	3268.3
50°	15.5	20.6	43.8	42.5	38.6	61.8	838.3	3033.9	3228.4	3252.8
52.5°	10.3	15.5	36.1	32.2	32.2	54.1	812.6	3031.3	3241.2	3188.4
55°	7.7	11.6	20.6	23.2	28.3	47.6	789.4	3127.9	3245.1	3282.4
57.5°	5.2	9.0	14.2	18.0	24.5	41.2	741.7	3243.8	3364.8	3384.2
60°	2.6	6.4	10.3	14.2	20.6	36.1	674.8	3328.8	3510.4	3531.0
62.5°	1.3	3.9	7.7	11.6	16.7	28.3	605.2	3193.6	3447.3	3483.3
65°	0.0	2.6	5.2	7.7	10.3	20.6	491.9	2883.2	3197.4	3330.1
67.5°	0.0	0.0	2.6	5.2	6.4	15.5	370.9	2623.1	2966.9	3147.2
70°	0.0	0.0	1.3	1.3	3.9	11.6	236.9	2172.4	2648.9	2748.0
72.5°	0.0	0.0	0.0	0.0	1.3	7.7	137.8	1613.5	2075.8	2260.0
75°	0.0	0.0	0.0	0.0	0.0	6.4	69.5	1037.9	1444.8	1692.1
77.5°	0.0	0.0	0.0	0.0	0.0	5.2	37.3	669.6	1065.0	1272.3
80°	0.0	0.0	0.0	0.0	0.0	1.3	21.9	388.9	681.2	825.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	190.6	406.9	476.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	101.7	203.5	267.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	14.2	27.0
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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