

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: P673200

Luminaire Tested: **CCP-SA-1F-850-U-T2-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673200
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-850-U-T2-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ T2 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

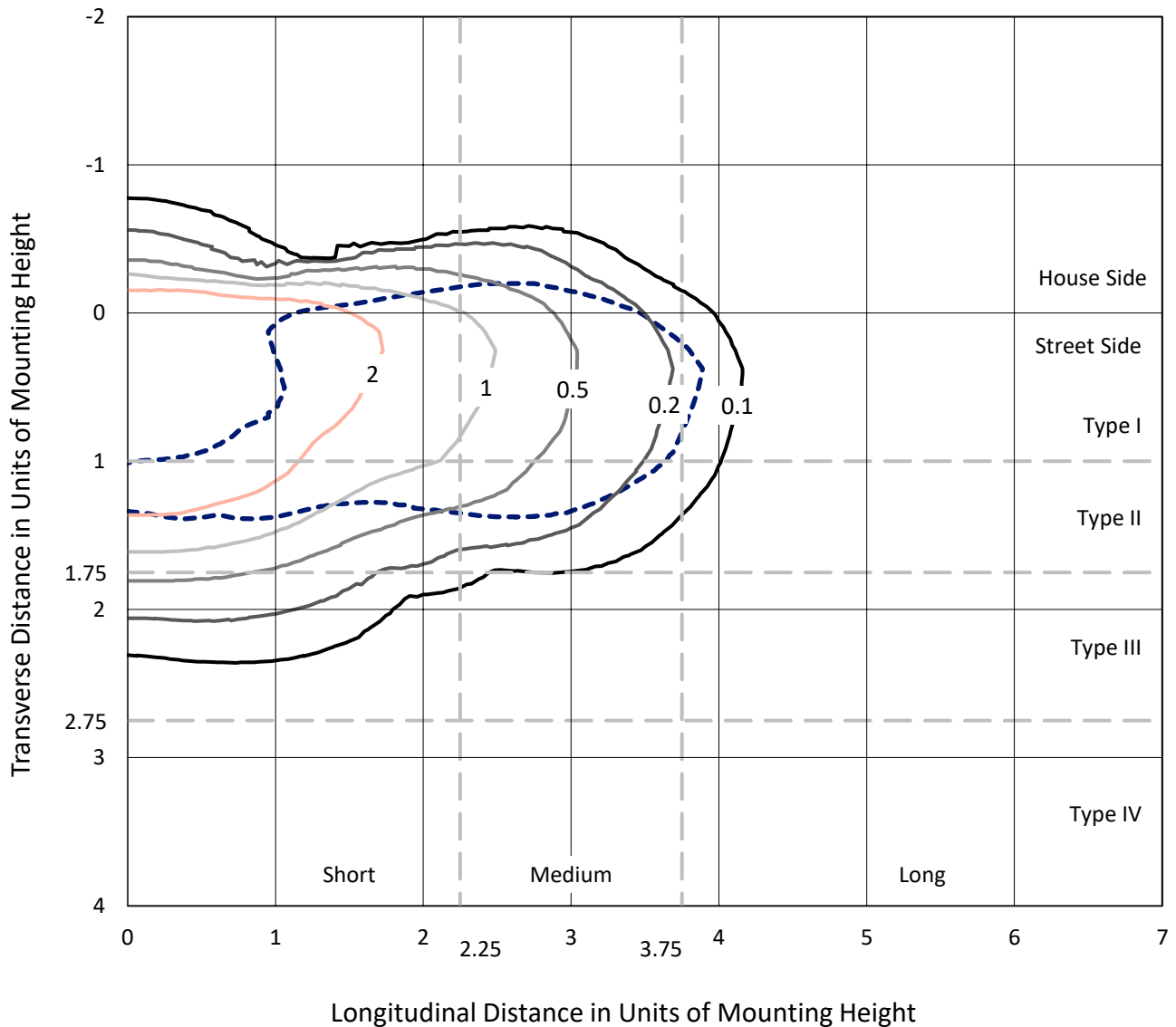
Lumens per Lamp: N/A
Luminaire Lumens: 5051 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

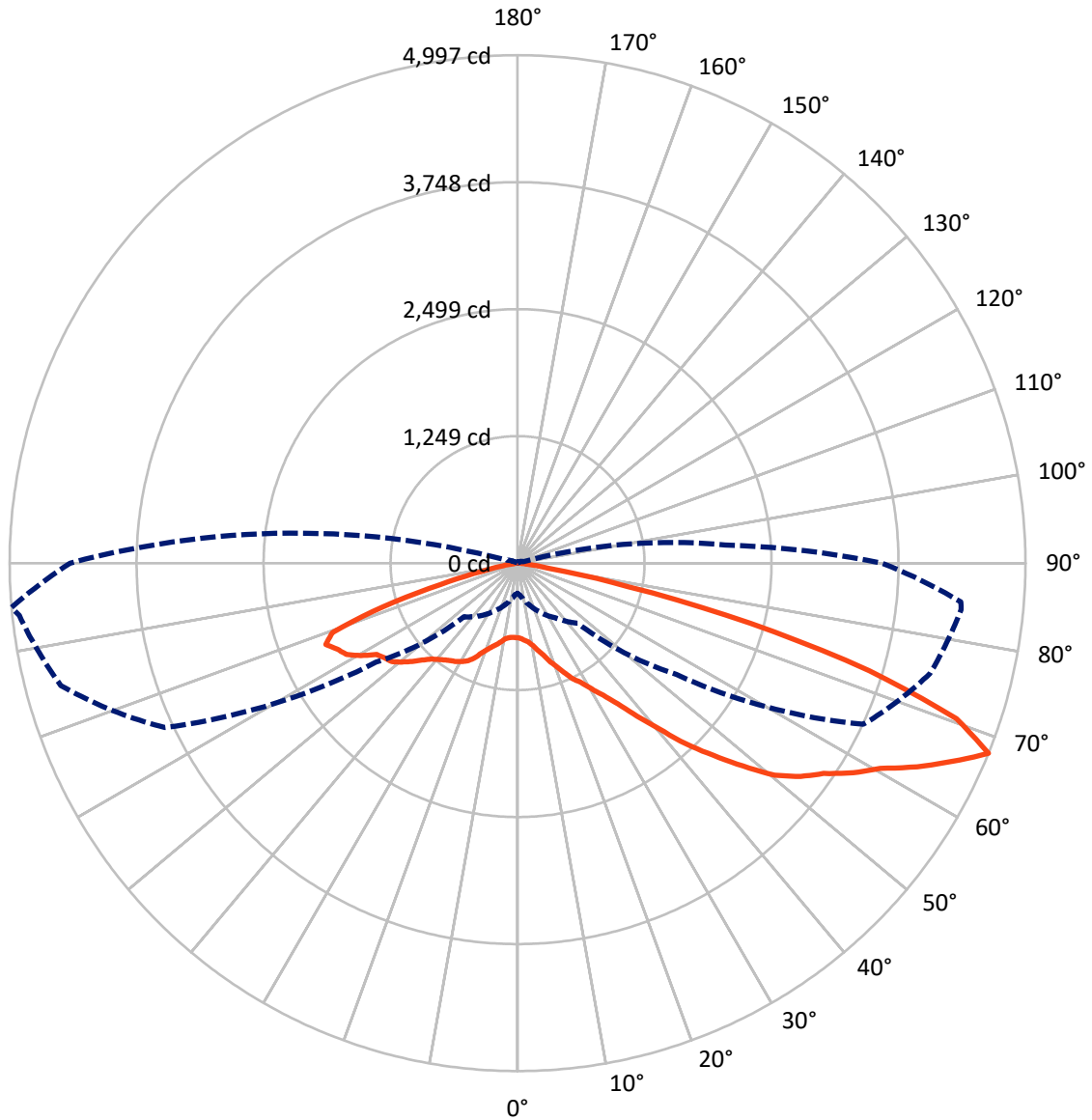
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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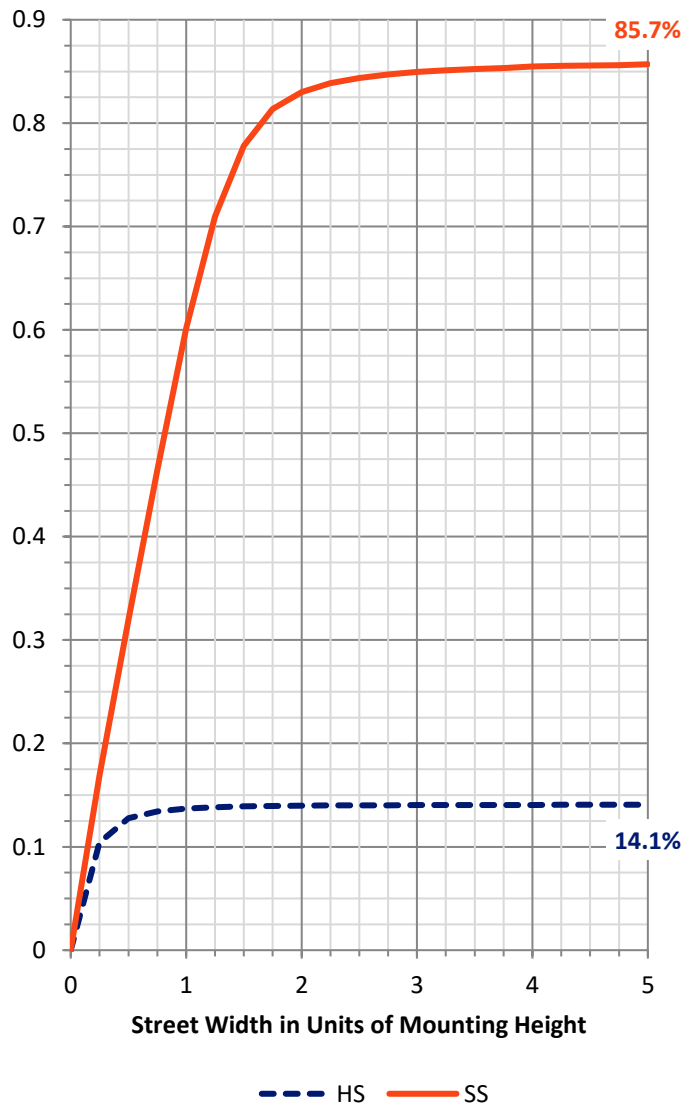
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.6	0.0	717.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4333.5	0.0	4333.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	5051.0	0.0	5051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.3
10°-20°	180.1	3.6
20°-30°	299.1	5.9
30°-40°	514.6	10.2
40°-50°	924.7	18.3
50°-60°	1316.4	26.1
60°-70°	1200.1	23.8
70°-80°	511.0	10.1
80°-90°	38.0	0.8
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°	5051.0	100.0
0°-180°	5051.0	100.0



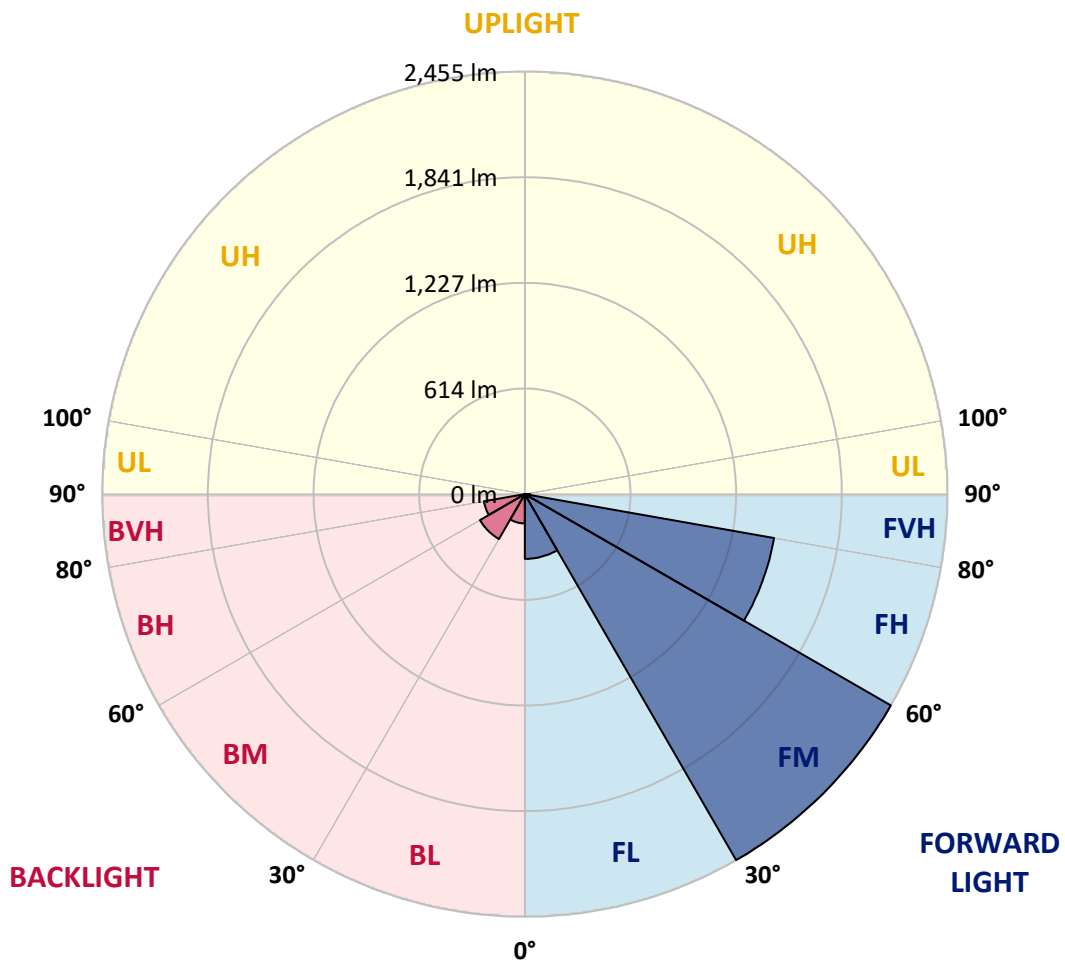
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.3	7.4			
FM (30°-60°)	2454.8	48.6			
FH (60°-80°)	1470.1	29.1			G1/1800
FVH (80°-90°)	32.3	0.6			G1/100
BL (0°-30°)	169.9	3.4	B1/500		
BM (30°-60°)	300.9	6.0	B1/1000		
BH (60°-80°)	241.1	4.8	B1/500		G1/500
BVH (80°-90°)	5.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5
2.5°	761.0	768.2	768.2	765.8	758.6	753.8	751.4	746.5	741.7	741.7	744.1
5°	768.2	761.0	770.6	758.6	758.6	758.6	768.2	763.4	761.0	748.9	748.9
7.5°	768.2	761.0	761.0	768.2	761.0	765.8	777.8	773.0	782.7	761.0	765.8
10°	746.5	744.1	748.9	758.6	761.0	770.6	782.7	806.7	809.1	794.7	792.3
12.5°	703.2	700.8	717.6	722.5	751.4	775.4	811.6	830.8	852.5	845.3	830.8
15°	671.9	676.7	688.7	708.0	734.5	777.8	818.8	862.1	900.7	891.0	886.2
17.5°	683.9	681.5	683.9	696.0	729.7	773.0	842.9	893.4	948.8	948.8	953.6
20°	720.0	727.3	724.9	717.6	734.5	770.6	842.9	932.0	1023.5	1016.3	1016.3
22.5°	782.7	785.1	770.6	765.8	763.4	785.1	857.3	980.1	1086.1	1100.5	1095.7
25°	847.7	850.1	845.3	830.8	811.6	816.4	883.8	1018.7	1172.8	1196.9	1192.0
27.5°	956.0	953.6	941.6	924.7	895.8	874.2	924.7	1047.6	1240.2	1281.2	1269.1
30°	1064.4	1057.2	1040.3	1018.7	992.2	951.2	975.3	1102.9	1324.5	1363.0	1336.5
32.5°	1196.9	1182.4	1187.2	1153.5	1098.1	1033.1	1028.3	1153.5	1391.9	1447.3	1425.6
35°	1365.4	1348.6	1324.5	1293.2	1240.2	1153.5	1127.0	1235.4	1505.1	1546.1	1546.1
37.5°	1587.0	1603.8	1575.0	1444.9	1387.1	1305.2	1249.8	1319.7	1603.8	1702.6	1678.5
40°	1813.4	1827.8	1774.8	1678.5	1553.3	1452.1	1418.4	1456.9	1753.2	1871.2	1825.4
42.5°	1996.4	2015.6	1996.4	1871.2	1772.4	1642.4	1582.2	1618.3	1945.8	2087.9	2027.7
45°	2189.0	2208.3	2186.6	2104.7	2008.4	1933.8	1782.1	1827.8	2148.1	2360.0	2292.6
47.5°	2333.5	2357.6	2319.1	2302.2	2225.2	2213.1	1955.4	2006.0	2360.0	2634.5	2550.3
50°	2367.2	2393.7	2427.4	2446.7	2420.2	2449.1	2189.0	2232.4	2581.6	2887.4	2805.5
52.5°	2287.8	2314.3	2388.9	2478.0	2600.8	2687.5	2425.0	2461.2	2812.8	3096.9	3053.6
55°	2054.2	2078.3	2230.0	2350.4	2644.2	2786.3	2651.4	2803.1	2978.9	3316.1	3210.1
57.5°	1661.6	1690.5	1890.4	2075.9	2499.7	2730.9	2786.3	3087.3	3253.5	3477.4	3354.6
60°	1180.0	1196.9	1370.3	1697.8	2099.9	2453.9	2759.8	3299.2	3470.2	3694.1	3629.1
62.5°	679.1	693.6	874.2	1182.4	1584.6	2049.4	2641.8	3499.1	3703.8	3932.6	3896.4
65°	450.3	455.1	578.0	746.5	1030.7	1509.9	2343.2	3677.3	3935.0	4122.8	4081.9
67.5°	296.2	322.7	419.0	534.6	659.8	835.6	1909.7	3751.9	4199.9	4387.7	4378.1
70°	211.9	221.6	301.0	411.8	496.1	469.6	1117.4	3224.6	4187.8	4460.0	4380.5
72.5°	125.2	134.9	199.9	308.2	390.1	298.6	522.6	2280.5	3470.2	3559.3	3537.6
75°	91.5	91.5	122.8	221.6	284.2	214.3	245.6	1442.5	2304.6	2502.1	2499.7
77.5°	65.0	67.4	84.3	132.4	219.1	156.5	134.9	801.9	1259.5	1377.5	1312.5
80°	38.5	40.9	57.8	79.5	158.9	113.2	89.1	366.0	484.0	488.9	464.8
82.5°	28.9	28.9	38.5	55.4	110.8	77.1	55.4	139.7	156.5	142.1	120.4
85°	16.9	14.4	28.9	40.9	65.0	43.3	38.5	65.0	72.2	53.0	48.2
87.5°	4.8	4.8	12.0	14.4	28.9	24.1	16.9	24.1	33.7	19.3	14.4
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°	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5
2.5°	739.3	732.1	720.0	715.2	698.4	691.1	686.3	674.3	676.7	669.5	669.5
5°	732.1	732.1	708.0	681.5	655.0	638.2	618.9	594.8	594.8	585.2	587.6
7.5°	758.6	739.3	708.0	659.8	616.5	578.0	561.1	537.0	522.6	515.4	515.4
10°	775.4	756.2	703.2	645.4	590.0	541.8	505.7	472.0	452.7	452.7	450.3
12.5°	821.2	792.3	722.5	643.0	561.1	488.9	433.5	394.9	368.5	349.2	354.0
15°	859.7	828.4	732.1	623.7	510.5	409.4	342.0	269.7	233.6	214.3	207.1
17.5°	919.9	862.1	753.8	590.0	433.5	320.3	221.6	161.3	146.9	144.5	144.5
20°	970.5	903.1	756.2	525.0	356.4	204.7	142.1	132.4	125.2	122.8	120.4
22.5°	1040.3	956.0	746.5	450.3	255.3	137.3	120.4	110.8	106.0	98.7	98.7
25°	1112.6	1025.9	727.3	380.5	156.5	118.0	106.0	96.3	86.7	81.9	84.3
27.5°	1189.6	1078.9	671.9	296.2	120.4	103.6	86.7	79.5	74.7	72.2	72.2
30°	1252.3	1112.6	590.0	197.5	108.4	91.5	77.1	69.8	65.0	62.6	62.6
32.5°	1298.0	1141.5	498.5	132.4	98.7	81.9	69.8	62.6	57.8	55.4	55.4
35°	1375.1	1163.2	414.2	113.2	89.1	72.2	60.2	55.4	50.6	50.6	50.6
37.5°	1493.1	1192.0	329.9	103.6	81.9	65.0	57.8	50.6	48.2	45.8	45.8
40°	1596.6	1228.2	236.0	93.9	74.7	60.2	50.6	45.8	43.3	40.9	40.9
42.5°	1745.9	1269.1	154.1	84.3	67.4	55.4	45.8	40.9	38.5	36.1	36.1
45°	1936.2	1336.5	120.4	74.7	60.2	50.6	43.3	38.5	33.7	33.7	31.3
47.5°	2138.5	1418.4	108.4	69.8	55.4	45.8	38.5	33.7	31.3	28.9	28.9
50°	2326.3	1497.9	101.1	65.0	50.6	43.3	36.1	31.3	26.5	24.1	24.1
52.5°	2494.9	1572.5	96.3	60.2	48.2	38.5	31.3	26.5	24.1	21.7	21.7
55°	2584.0	1606.3	93.9	57.8	43.3	36.1	28.9	24.1	21.7	19.3	19.3
57.5°	2723.7	1649.6	91.5	55.4	40.9	31.3	26.5	21.7	19.3	16.9	16.9
60°	2950.0	1791.7	89.1	53.0	38.5	31.3	24.1	19.3	14.4	12.0	12.0
62.5°	3137.9	1909.7	79.5	45.8	33.7	26.5	19.3	14.4	9.6	7.2	7.2
65°	3352.2	1965.1	69.8	40.9	28.9	21.7	14.4	9.6	7.2	2.4	2.4
67.5°	3585.8	2049.4	57.8	36.1	26.5	16.9	12.0	7.2	2.4	0.0	0.0
70°	3463.0	1943.4	48.2	31.3	24.1	14.4	9.6	4.8	0.0	0.0	0.0
72.5°	2714.0	1391.9	38.5	28.9	21.7	14.4	9.6	2.4	0.0	0.0	0.0
75°	1813.4	787.5	33.7	24.1	16.9	12.0	7.2	2.4	0.0	0.0	0.0
77.5°	984.9	354.0	28.9	21.7	14.4	9.6	7.2	2.4	0.0	0.0	0.0
80°	320.3	139.7	24.1	19.3	14.4	9.6	7.2	2.4	0.0	0.0	0.0
82.5°	86.7	43.3	24.1	19.3	14.4	9.6	7.2	2.4	0.0	0.0	0.0
85°	36.1	28.9	24.1	19.3	14.4	9.6	7.2	2.4	0.0	0.0	0.0
87.5°	14.4	9.6	9.6	12.0	9.6	7.2	4.8	2.4	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°	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5
2.5°	671.9	676.7	679.1	679.1	691.1	703.2	717.6	729.7	729.7	736.9	744.1
5°	590.0	594.8	602.0	623.7	647.8	674.3	700.8	720.0	746.5	758.6	765.8
7.5°	522.6	527.4	546.7	568.3	602.0	647.8	693.6	736.9	763.4	775.4	785.1
10°	452.7	460.0	481.6	520.2	563.5	618.9	671.9	746.5	789.9	814.0	823.6
12.5°	351.6	370.9	399.8	440.7	496.1	580.4	679.1	756.2	830.8	859.7	879.0
15°	221.6	238.4	284.2	349.2	423.8	522.6	659.8	770.6	874.2	903.1	934.4
17.5°	142.1	144.5	158.9	228.8	325.1	450.3	630.9	792.3	922.3	963.3	1011.4
20°	120.4	125.2	127.6	137.3	216.7	370.9	570.7	818.8	980.1	1035.5	1081.3
22.5°	101.1	103.6	108.4	115.6	130.0	269.7	488.9	818.8	1030.7	1112.6	1165.6
25°	81.9	86.7	91.5	98.7	113.2	168.6	404.6	804.3	1090.9	1192.0	1259.5
27.5°	72.2	72.2	77.1	84.3	96.3	118.0	320.3	761.0	1136.7	1240.2	1329.3
30°	62.6	65.0	67.4	74.7	86.7	103.6	221.6	691.1	1184.8	1334.1	1435.3
32.5°	55.4	55.4	60.2	65.0	77.1	93.9	142.1	585.2	1247.4	1406.4	1548.5
35°	50.6	50.6	53.0	57.8	69.8	84.3	110.8	496.1	1322.1	1543.6	1700.2
37.5°	45.8	45.8	48.2	53.0	62.6	74.7	101.1	426.2	1399.2	1680.9	1909.7
40°	40.9	40.9	43.3	48.2	55.4	67.4	91.5	344.4	1495.5	1883.2	2138.5
42.5°	36.1	36.1	38.5	43.3	50.6	60.2	79.5	257.7	1623.1	2102.3	2434.7
45°	31.3	31.3	33.7	38.5	43.3	55.4	72.2	197.5	1762.8	2345.6	2694.8
47.5°	26.5	28.9	31.3	36.1	40.9	50.6	65.0	173.4	1900.1	2603.2	2983.7
50°	24.1	24.1	26.5	31.3	38.5	45.8	60.2	171.0	2039.7	2800.7	3279.9
52.5°	21.7	21.7	24.1	28.9	36.1	43.3	57.8	175.8	2155.3	2983.7	3487.0
55°	19.3	19.3	21.7	24.1	31.3	40.9	53.0	180.6	2237.2	3169.2	3653.2
57.5°	16.9	16.9	19.3	24.1	28.9	36.1	48.2	185.4	2369.6	3352.2	3894.0
60°	12.0	12.0	16.9	21.7	26.5	31.3	45.8	190.2	2581.6	3605.0	4098.7
62.5°	7.2	7.2	9.6	16.9	21.7	28.9	40.9	180.6	2779.0	3930.2	4411.8
65°	2.4	4.8	7.2	9.6	16.9	24.1	33.7	163.8	2945.2	4255.3	4700.8
67.5°	0.0	0.0	2.4	7.2	14.4	19.3	28.9	120.4	2971.7	4402.2	4997.0
70°	0.0	0.0	2.4	7.2	12.0	19.3	26.5	67.4	2531.0	3932.6	4580.4
72.5°	0.0	0.0	0.0	4.8	12.0	16.9	24.1	50.6	1866.3	2964.5	3619.5
75°	0.0	0.0	0.0	2.4	9.6	14.4	21.7	38.5	1134.3	1977.1	2362.4
77.5°	0.0	0.0	0.0	2.4	7.2	14.4	21.7	33.7	399.8	941.6	1110.2
80°	0.0	0.0	0.0	4.8	9.6	14.4	19.3	28.9	96.3	236.0	317.9
82.5°	0.0	0.0	0.0	2.4	7.2	12.0	16.9	24.1	38.5	69.8	110.8
85°	0.0	0.0	0.0	2.4	4.8	12.0	16.9	21.7	26.5	33.7	48.2
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	7.2	9.6	9.6	9.6	16.9
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5	734.5
2.5°	741.7	751.4	756.2	765.8	770.6	768.2	765.8	773.0	768.2	761.0
5°	768.2	768.2	775.4	777.8	777.8	770.6	775.4	773.0	768.2	768.2
7.5°	797.1	809.1	809.1	794.7	792.3	787.5	787.5	768.2	761.0	768.2
10°	826.0	835.6	838.0	821.2	799.5	789.9	777.8	753.8	741.7	746.5
12.5°	886.2	886.2	859.7	840.5	811.6	777.8	748.9	715.2	698.4	703.2
15°	929.6	939.2	903.1	859.7	809.1	746.5	715.2	688.7	679.1	671.9
17.5°	1013.8	994.6	936.8	874.2	801.9	736.9	715.2	691.1	683.9	683.9
20°	1086.1	1076.5	989.8	876.6	799.5	756.2	741.7	729.7	727.3	720.0
22.5°	1184.8	1141.5	1030.7	903.1	826.0	787.5	782.7	794.7	787.5	782.7
25°	1259.5	1223.4	1062.0	941.6	866.9	854.9	862.1	874.2	854.9	847.7
27.5°	1360.6	1293.2	1122.2	992.2	922.3	934.4	958.5	960.9	948.8	956.0
30°	1454.5	1382.3	1168.0	1050.0	1016.3	1028.3	1064.4	1090.9	1074.0	1064.4
32.5°	1589.4	1478.6	1259.5	1146.3	1134.3	1165.6	1206.5	1223.4	1201.7	1196.9
35°	1731.5	1589.4	1353.4	1254.7	1276.3	1319.7	1355.8	1384.7	1351.0	1365.4
37.5°	1953.0	1767.6	1512.3	1425.6	1435.3	1452.1	1519.6	1599.0	1615.9	1587.0
40°	2184.2	1960.3	1659.2	1591.8	1613.5	1659.2	1738.7	1813.4	1851.9	1813.4
42.5°	2451.5	2145.7	1885.6	1806.1	1827.8	1892.8	1998.8	2059.0	2054.2	1996.4
45°	2781.4	2403.4	2097.5	1998.8	2078.3	2136.1	2242.0	2249.2	2203.5	2189.0
47.5°	3034.3	2620.1	2326.3	2263.7	2372.1	2374.5	2398.5	2401.0	2350.4	2333.5
50°	3313.7	2870.6	2581.6	2490.1	2673.1	2588.8	2523.8	2480.4	2403.4	2367.2
52.5°	3588.2	3048.8	2817.6	2723.7	2913.9	2689.9	2571.9	2439.5	2326.3	2287.8
55°	3735.1	3342.6	3161.9	2942.8	2966.9	2718.8	2422.6	2256.5	2063.8	2054.2
57.5°	3908.5	3540.0	3453.3	3092.1	2877.8	2516.5	2112.0	1892.8	1685.7	1661.6
60°	4113.2	3853.1	3761.6	3068.0	2562.3	2114.4	1673.7	1391.9	1196.9	1180.0
62.5°	4341.9	4223.9	3951.8	2832.0	2034.9	1488.3	1105.4	869.4	688.7	679.1
65°	4703.2	4534.6	4053.0	2384.1	1346.2	953.6	734.5	563.5	455.1	450.3
67.5°	4929.5	4652.6	3826.6	1700.2	746.5	630.9	515.4	409.4	315.5	296.2
70°	4609.3	4269.7	3027.1	972.9	433.5	479.2	397.3	274.5	216.7	211.9
72.5°	3682.1	3169.2	2037.3	457.6	269.7	375.7	289.0	185.4	130.0	125.2
75°	2511.7	1994.0	1278.7	211.9	190.2	274.5	211.9	108.4	91.5	91.5
77.5°	1122.2	1016.3	655.0	130.0	142.1	209.5	122.8	74.7	67.4	65.0
80°	342.0	358.8	267.3	89.1	106.0	158.9	74.7	50.6	40.9	38.5
82.5°	115.6	134.9	120.4	53.0	72.2	113.2	50.6	33.7	28.9	28.9
85°	55.4	67.4	60.2	33.7	38.5	55.4	40.9	26.5	16.9	16.9
87.5°	21.7	31.3	21.7	14.4	21.7	28.9	16.9	12.0	4.8	4.8
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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