

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: P676257

Luminaire Tested: **CCW-SA-1F-730-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676257
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-730-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

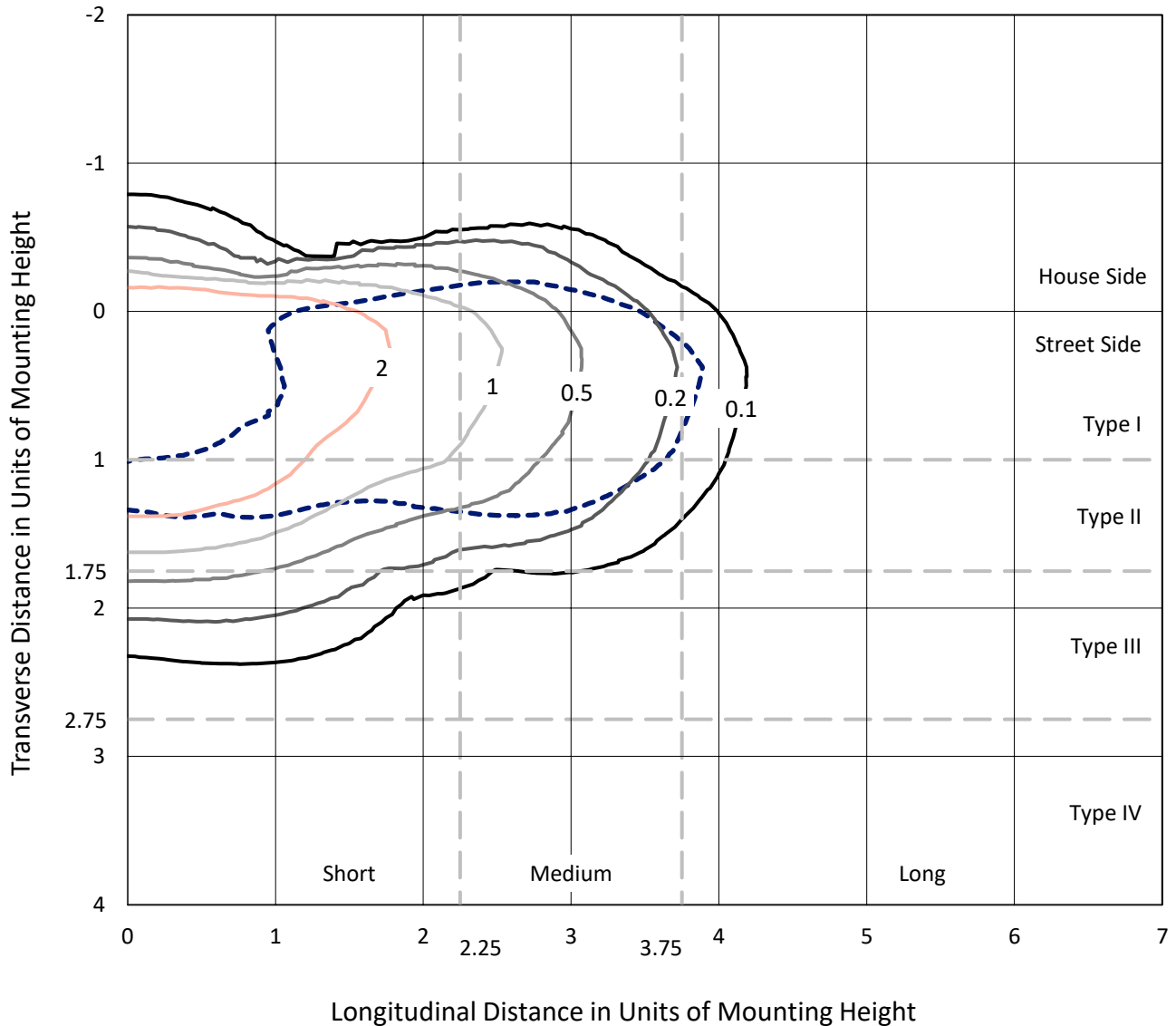
Lumens per Lamp: N/A
Luminaire Lumens: 5271 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

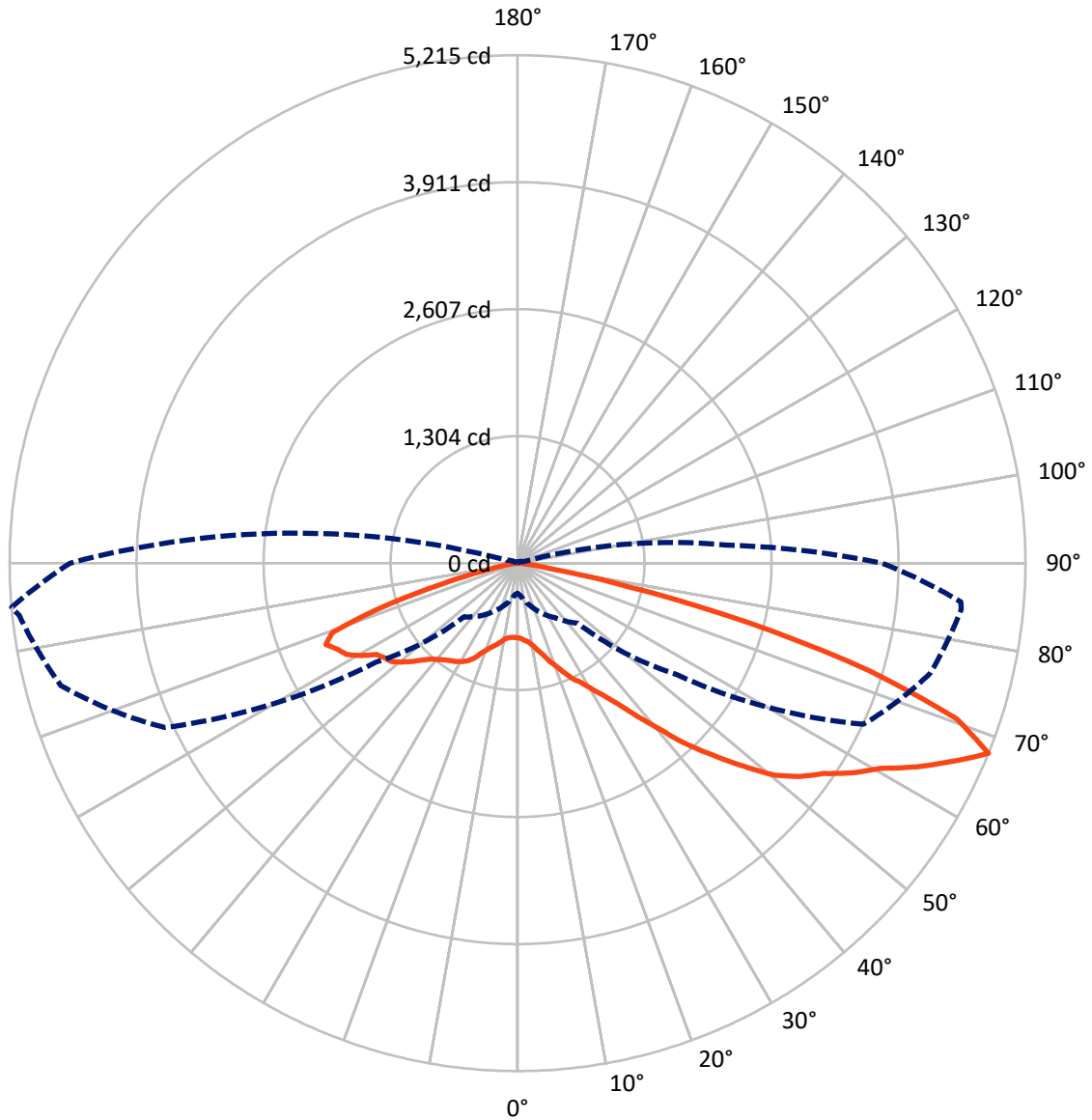
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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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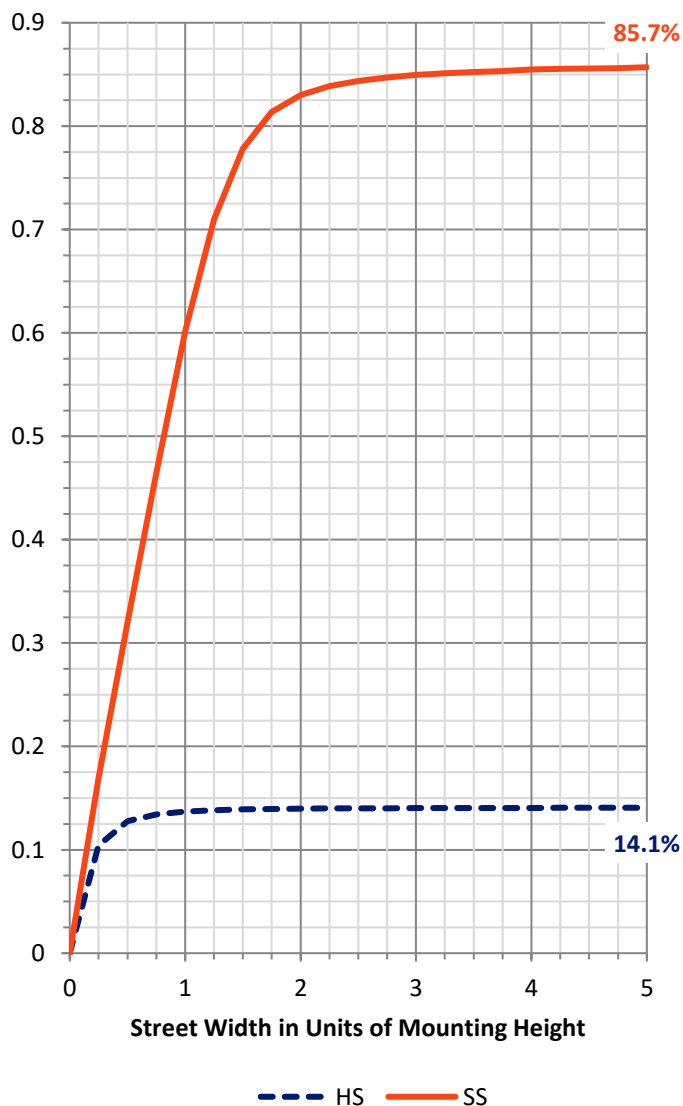
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.8	0.0	748.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4522.2	0.0	4522.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	5271.0	0.0	5271.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.3
10°-20°	187.9	3.6
20°-30°	312.1	5.9
30°-40°	537.0	10.2
40°-50°	965.0	18.3
50°-60°	1373.7	26.1
60°-70°	1252.4	23.8
70°-80°	533.3	10.1
80°-90°	39.7	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°	5271.0	100.0
0°-180°	5271.0	100.0



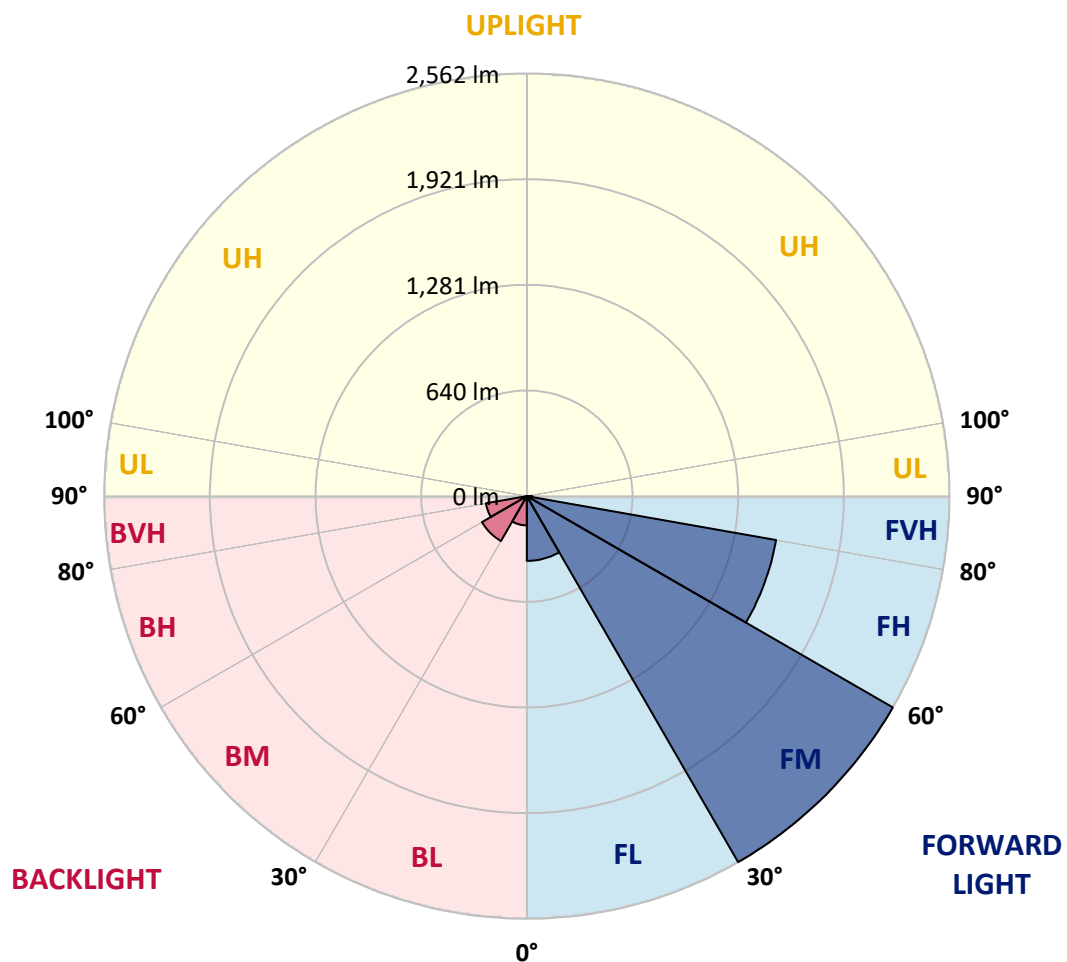
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.7	7.4			
FM (30°-60°)	2561.7	48.6			
FH (60°-80°)	1534.1	29.1			G1/1800
FVH (80°-90°)	33.7	0.6			G1/100
BL (0°-30°)	177.3	3.4	B1/500		
BM (30°-60°)	313.9	6.0	B1/1000		
BH (60°-80°)	251.6	4.8	B1/500		G1/500
BVH (80°-90°)	6.0	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°	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5
2.5°	794.1	801.7	801.7	799.2	791.6	786.6	784.1	779.0	774.0	774.0	776.5
5°	801.7	794.1	804.2	791.6	791.6	791.6	801.7	796.6	794.1	781.6	781.6
7.5°	801.7	794.1	794.1	801.7	794.1	799.2	811.7	806.7	816.7	794.1	799.2
10°	779.0	776.5	781.6	791.6	794.1	804.2	816.7	841.9	844.4	829.3	826.8
12.5°	733.8	731.3	748.9	753.9	784.1	809.2	846.9	867.0	889.6	882.1	867.0
15°	701.1	706.2	718.7	738.8	766.5	811.7	854.4	899.7	939.9	929.8	924.8
17.5°	713.7	711.2	713.7	726.3	761.5	806.7	879.6	932.3	990.1	990.1	995.2
20°	751.4	758.9	756.4	748.9	766.5	804.2	879.6	972.6	1068.0	1060.5	1060.5
22.5°	816.7	819.3	804.2	799.2	796.6	819.3	894.6	1022.8	1133.4	1148.5	1143.4
25°	884.6	887.1	882.1	867.0	846.9	851.9	922.3	1063.0	1223.9	1249.0	1244.0
27.5°	997.7	995.2	982.6	965.0	934.9	912.2	965.0	1093.2	1294.2	1336.9	1324.4
30°	1110.8	1103.2	1085.6	1063.0	1035.4	992.7	1017.8	1151.0	1382.2	1422.4	1394.7
32.5°	1249.0	1233.9	1238.9	1203.8	1146.0	1078.1	1073.1	1203.8	1452.5	1510.3	1487.7
35°	1424.9	1407.3	1382.2	1349.5	1294.2	1203.8	1176.1	1289.2	1570.7	1613.4	1613.4
37.5°	1656.1	1673.7	1643.5	1507.8	1447.5	1362.1	1304.3	1377.2	1673.7	1776.7	1751.6
40°	1892.3	1907.4	1852.1	1751.6	1620.9	1515.4	1480.2	1520.4	1829.5	1952.6	1904.9
42.5°	2083.3	2103.4	2083.3	1952.6	1849.6	1713.9	1651.1	1688.8	2030.5	2178.8	2116.0
45°	2284.4	2304.5	2281.9	2196.4	2095.9	2018.0	1859.7	1907.4	2241.6	2462.8	2392.4
47.5°	2435.1	2460.3	2420.1	2402.5	2322.1	2309.5	2040.6	2093.4	2462.8	2749.3	2661.3
50°	2470.3	2498.0	2533.2	2553.3	2525.6	2555.8	2284.4	2329.6	2694.0	3013.1	2927.7
52.5°	2387.4	2415.0	2492.9	2585.9	2714.1	2804.6	2530.6	2568.3	2935.2	3231.8	3186.5
55°	2143.6	2168.8	2327.1	2452.7	2759.3	2907.6	2766.9	2925.2	3108.6	3460.5	3349.9
57.5°	1734.0	1764.2	1972.7	2166.3	2608.5	2849.8	2907.6	3221.7	3395.1	3628.8	3500.7
60°	1231.4	1249.0	1429.9	1771.7	2191.4	2560.8	2880.0	3442.9	3621.3	3855.0	3787.2
62.5°	708.7	723.8	912.2	1233.9	1653.6	2138.6	2756.8	3651.5	3865.1	4103.8	4066.1
65°	469.9	475.0	603.1	779.0	1075.6	1575.7	2445.2	3837.4	4106.3	4302.3	4259.6
67.5°	309.1	336.7	437.3	557.9	688.6	872.0	1992.9	3915.3	4382.8	4578.8	4568.7
70°	221.1	231.2	314.1	429.7	517.7	490.0	1166.1	3365.0	4370.2	4654.2	4571.2
72.5°	130.7	140.7	208.6	321.7	407.1	311.6	545.3	2379.9	3621.3	3714.3	3691.7
75°	95.5	95.5	128.2	231.2	296.5	223.7	256.3	1505.3	2405.0	2611.1	2608.5
77.5°	67.9	70.4	88.0	138.2	228.7	163.3	140.7	836.8	1314.3	1437.5	1369.6
80°	40.2	42.7	60.3	82.9	165.9	118.1	93.0	382.0	505.1	510.1	485.0
82.5°	30.2	30.2	40.2	57.8	115.6	80.4	57.8	145.8	163.3	148.3	125.7
85°	17.6	15.1	30.2	42.7	67.9	45.2	40.2	67.9	75.4	55.3	50.3
87.5°	5.0	5.0	12.6	15.1	30.2	25.1	17.6	25.1	35.2	20.1	15.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5
2.5°	771.5	764.0	751.4	746.4	728.8	721.2	716.2	703.7	706.2	698.6	698.6
5°	764.0	764.0	738.8	711.2	683.6	666.0	645.9	620.7	620.7	610.7	613.2
7.5°	791.6	771.5	738.8	688.6	643.3	603.1	585.5	560.4	545.3	537.8	537.8
10°	809.2	789.1	733.8	673.5	615.7	565.4	527.7	492.6	472.5	472.5	469.9
12.5°	857.0	826.8	753.9	671.0	585.5	510.1	452.3	412.1	384.5	364.4	369.4
15°	897.2	864.5	764.0	650.9	532.8	427.2	356.9	281.5	243.8	223.7	216.1
17.5°	960.0	899.7	786.6	615.7	452.3	334.2	231.2	168.4	153.3	150.8	150.8
20°	1012.8	942.4	789.1	547.8	371.9	213.6	148.3	138.2	130.7	128.2	125.7
22.5°	1085.6	997.7	779.0	469.9	266.4	143.2	125.7	115.6	110.6	103.0	103.0
25°	1161.0	1070.6	758.9	397.1	163.3	123.1	110.6	100.5	90.5	85.4	88.0
27.5°	1241.4	1125.8	701.1	309.1	125.7	108.1	90.5	82.9	77.9	75.4	75.4
30°	1306.8	1161.0	615.7	206.1	113.1	95.5	80.4	72.9	67.9	65.3	65.3
32.5°	1354.5	1191.2	520.2	138.2	103.0	85.4	72.9	65.3	60.3	57.8	57.8
35°	1435.0	1213.8	432.2	118.1	93.0	75.4	62.8	57.8	52.8	52.8	52.8
37.5°	1558.1	1244.0	344.3	108.1	85.4	67.9	60.3	52.8	50.3	47.7	47.7
40°	1666.2	1281.7	246.3	98.0	77.9	62.8	52.8	47.7	45.2	42.7	42.7
42.5°	1822.0	1324.4	160.8	88.0	70.4	57.8	47.7	42.7	40.2	37.7	37.7
45°	2020.5	1394.7	125.7	77.9	62.8	52.8	45.2	40.2	35.2	35.2	32.7
47.5°	2231.6	1480.2	113.1	72.9	57.8	47.7	40.2	35.2	32.7	30.2	30.2
50°	2427.6	1563.1	105.5	67.9	52.8	45.2	37.7	32.7	27.6	25.1	25.1
52.5°	2603.5	1641.0	100.5	62.8	50.3	40.2	32.7	27.6	25.1	22.6	22.6
55°	2696.5	1676.2	98.0	60.3	45.2	37.7	30.2	25.1	22.6	20.1	20.1
57.5°	2842.3	1721.4	95.5	57.8	42.7	32.7	27.6	22.6	20.1	17.6	17.6
60°	3078.5	1869.7	93.0	55.3	40.2	32.7	25.1	20.1	15.1	12.6	12.6
62.5°	3274.5	1992.9	82.9	47.7	35.2	27.6	20.1	15.1	10.1	7.5	7.5
65°	3498.2	2050.7	72.9	42.7	30.2	22.6	15.1	10.1	7.5	2.5	2.5
67.5°	3741.9	2138.6	60.3	37.7	27.6	17.6	12.6	7.5	2.5	0.0	0.0
70°	3613.8	2028.0	50.3	32.7	25.1	15.1	10.1	5.0	0.0	0.0	0.0
72.5°	2832.2	1452.5	40.2	30.2	22.6	15.1	10.1	2.5	0.0	0.0	0.0
75°	1892.3	821.8	35.2	25.1	17.6	12.6	7.5	2.5	0.0	0.0	0.0
77.5°	1027.8	369.4	30.2	22.6	15.1	10.1	7.5	2.5	0.0	0.0	0.0
80°	334.2	145.8	25.1	20.1	15.1	10.1	7.5	2.5	0.0	0.0	0.0
82.5°	90.5	45.2	25.1	20.1	15.1	10.1	7.5	2.5	0.0	0.0	0.0
85°	37.7	30.2	25.1	20.1	15.1	10.1	7.5	2.5	0.0	0.0	0.0
87.5°	15.1	10.1	10.1	12.6	10.1	7.5	5.0	2.5	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°	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5
2.5°	701.1	706.2	708.7	708.7	721.2	733.8	748.9	761.5	761.5	769.0	776.5
5°	615.7	620.7	628.3	650.9	676.0	703.7	731.3	751.4	779.0	791.6	799.2
7.5°	545.3	550.4	570.5	593.1	628.3	676.0	723.8	769.0	796.6	809.2	819.3
10°	472.5	480.0	502.6	542.8	588.1	645.9	701.1	779.0	824.3	849.4	859.5
12.5°	366.9	387.0	417.2	459.9	517.7	605.6	708.7	789.1	867.0	897.2	917.3
15°	231.2	248.8	296.5	364.4	442.3	545.3	688.6	804.2	912.2	942.4	975.1
17.5°	148.3	150.8	165.9	238.7	339.3	469.9	658.4	826.8	962.5	1005.2	1055.5
20°	125.7	130.7	133.2	143.2	226.2	387.0	595.6	854.4	1022.8	1080.6	1128.4
22.5°	105.5	108.1	113.1	120.6	135.7	281.5	510.1	854.4	1075.6	1161.0	1216.3
25°	85.4	90.5	95.5	103.0	118.1	175.9	422.2	839.4	1138.4	1244.0	1314.3
27.5°	75.4	75.4	80.4	88.0	100.5	123.1	334.2	794.1	1186.2	1294.2	1387.2
30°	65.3	67.9	70.4	77.9	90.5	108.1	231.2	721.2	1236.4	1392.2	1497.8
32.5°	57.8	57.8	62.8	67.9	80.4	98.0	148.3	610.7	1301.8	1467.6	1615.9
35°	52.8	52.8	55.3	60.3	72.9	88.0	115.6	517.7	1379.7	1610.9	1774.2
37.5°	47.7	47.7	50.3	55.3	65.3	77.9	105.5	444.8	1460.1	1754.1	1992.9
40°	42.7	42.7	45.2	50.3	57.8	70.4	95.5	359.4	1560.6	1965.2	2231.6
42.5°	37.7	37.7	40.2	45.2	52.8	62.8	82.9	268.9	1693.8	2193.9	2540.7
45°	32.7	32.7	35.2	40.2	45.2	57.8	75.4	206.1	1839.6	2447.7	2812.1
47.5°	27.6	30.2	32.7	37.7	42.7	52.8	67.9	180.9	1982.8	2716.6	3113.7
50°	25.1	25.1	27.6	32.7	40.2	47.7	62.8	178.4	2128.6	2922.7	3422.8
52.5°	22.6	22.6	25.1	30.2	37.7	45.2	60.3	183.5	2249.2	3113.7	3638.9
55°	20.1	20.1	22.6	25.1	32.7	42.7	55.3	188.5	2334.6	3307.2	3812.3
57.5°	17.6	17.6	20.1	25.1	30.2	37.7	50.3	193.5	2472.8	3498.2	4063.6
60°	12.6	12.6	17.6	22.6	27.6	32.7	47.7	198.5	2694.0	3762.0	4277.2
62.5°	7.5	7.5	10.1	17.6	22.6	30.2	42.7	188.5	2900.1	4101.3	4603.9
65°	2.5	5.0	7.5	10.1	17.6	25.1	35.2	170.9	3073.5	4440.6	4905.5
67.5°	0.0	0.0	2.5	7.5	15.1	20.1	30.2	125.7	3101.1	4593.9	5214.6
70°	0.0	0.0	2.5	7.5	12.6	20.1	27.6	70.4	2641.2	4103.8	4779.8
72.5°	0.0	0.0	0.0	5.0	12.6	17.6	25.1	52.8	1947.6	3093.6	3777.1
75°	0.0	0.0	0.0	2.5	10.1	15.1	22.6	40.2	1183.6	2063.2	2465.3
77.5°	0.0	0.0	0.0	2.5	7.5	15.1	22.6	35.2	417.2	982.6	1158.5
80°	0.0	0.0	0.0	5.0	10.1	15.1	20.1	30.2	100.5	246.3	331.7
82.5°	0.0	0.0	0.0	2.5	7.5	12.6	17.6	25.1	40.2	72.9	115.6
85°	0.0	0.0	0.0	2.5	5.0	12.6	17.6	22.6	27.6	35.2	50.3
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	7.5	10.1	10.1	10.1	17.6
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°	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5	766.5
2.5°	774.0	784.1	789.1	799.2	804.2	801.7	799.2	806.7	801.7	794.1
5°	801.7	801.7	809.2	811.7	811.7	804.2	809.2	806.7	801.7	801.7
7.5°	831.8	844.4	844.4	829.3	826.8	821.8	821.8	801.7	794.1	801.7
10°	862.0	872.0	874.5	857.0	834.3	824.3	811.7	786.6	774.0	779.0
12.5°	924.8	924.8	897.2	877.1	846.9	811.7	781.6	746.4	728.8	733.8
15°	970.0	980.1	942.4	897.2	844.4	779.0	746.4	718.7	708.7	701.1
17.5°	1058.0	1037.9	977.6	912.2	836.8	769.0	746.4	721.2	713.7	713.7
20°	1133.4	1123.3	1032.9	914.8	834.3	789.1	774.0	761.5	758.9	751.4
22.5°	1236.4	1191.2	1075.6	942.4	862.0	821.8	816.7	829.3	821.8	816.7
25°	1314.3	1276.6	1108.3	982.6	904.7	892.1	899.7	912.2	892.1	884.6
27.5°	1419.9	1349.5	1171.1	1035.4	962.5	975.1	1000.2	1002.7	990.1	997.7
30°	1517.9	1442.5	1218.8	1095.7	1060.5	1073.1	1110.8	1138.4	1120.8	1110.8
32.5°	1658.6	1543.0	1314.3	1196.2	1183.6	1216.3	1259.0	1276.6	1254.0	1249.0
35°	1806.9	1658.6	1412.3	1309.3	1331.9	1377.2	1414.8	1445.0	1409.8	1424.9
37.5°	2038.1	1844.6	1578.2	1487.7	1497.8	1515.4	1585.7	1668.7	1686.3	1656.1
40°	2279.3	2045.6	1731.5	1661.1	1683.7	1731.5	1814.4	1892.3	1932.5	1892.3
42.5°	2558.3	2239.1	1967.7	1884.8	1907.4	1975.3	2085.8	2148.7	2143.6	2083.3
45°	2902.6	2508.0	2188.9	2085.8	2168.8	2229.1	2339.7	2347.2	2299.4	2284.4
47.5°	3166.4	2734.2	2427.6	2362.3	2475.4	2477.9	2503.0	2505.5	2452.7	2435.1
50°	3458.0	2995.6	2694.0	2598.5	2789.5	2701.5	2633.7	2588.4	2508.0	2470.3
52.5°	3744.4	3181.5	2940.3	2842.3	3040.8	2807.1	2683.9	2545.7	2427.6	2387.4
55°	3897.7	3488.1	3299.6	3070.9	3096.1	2837.2	2528.1	2354.7	2153.7	2143.6
57.5°	4078.7	3694.2	3603.7	3226.8	3003.1	2626.1	2203.9	1975.3	1759.1	1734.0
60°	4292.3	4020.9	3925.4	3201.6	2673.9	2206.5	1746.6	1452.5	1249.0	1231.4
62.5°	4531.0	4407.9	4123.9	2955.3	2123.5	1553.1	1153.5	907.2	718.7	708.7
65°	4908.0	4732.1	4229.5	2487.9	1404.8	995.2	766.5	588.1	475.0	469.9
67.5°	5144.2	4855.2	3993.2	1774.2	779.0	658.4	537.8	427.2	329.2	309.1
70°	4810.0	4455.6	3158.9	1015.3	452.3	500.1	414.7	286.5	226.2	221.1
72.5°	3842.5	3307.2	2126.0	477.5	281.5	392.0	301.6	193.5	135.7	130.7
75°	2621.1	2080.8	1334.4	221.1	198.5	286.5	221.1	113.1	95.5	95.5
77.5°	1171.1	1060.5	683.6	135.7	148.3	218.6	128.2	77.9	70.4	67.9
80°	356.9	374.4	278.9	93.0	110.6	165.9	77.9	52.8	42.7	40.2
82.5°	120.6	140.7	125.7	55.3	75.4	118.1	52.8	35.2	30.2	30.2
85°	57.8	70.4	62.8	35.2	40.2	57.8	42.7	27.6	17.6	17.6
87.5°	22.6	32.7	22.6	15.1	22.6	30.2	17.6	12.6	5.0	5.0
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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