

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: P676249

Luminaire Tested: **CCW-SA-2C-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676249
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

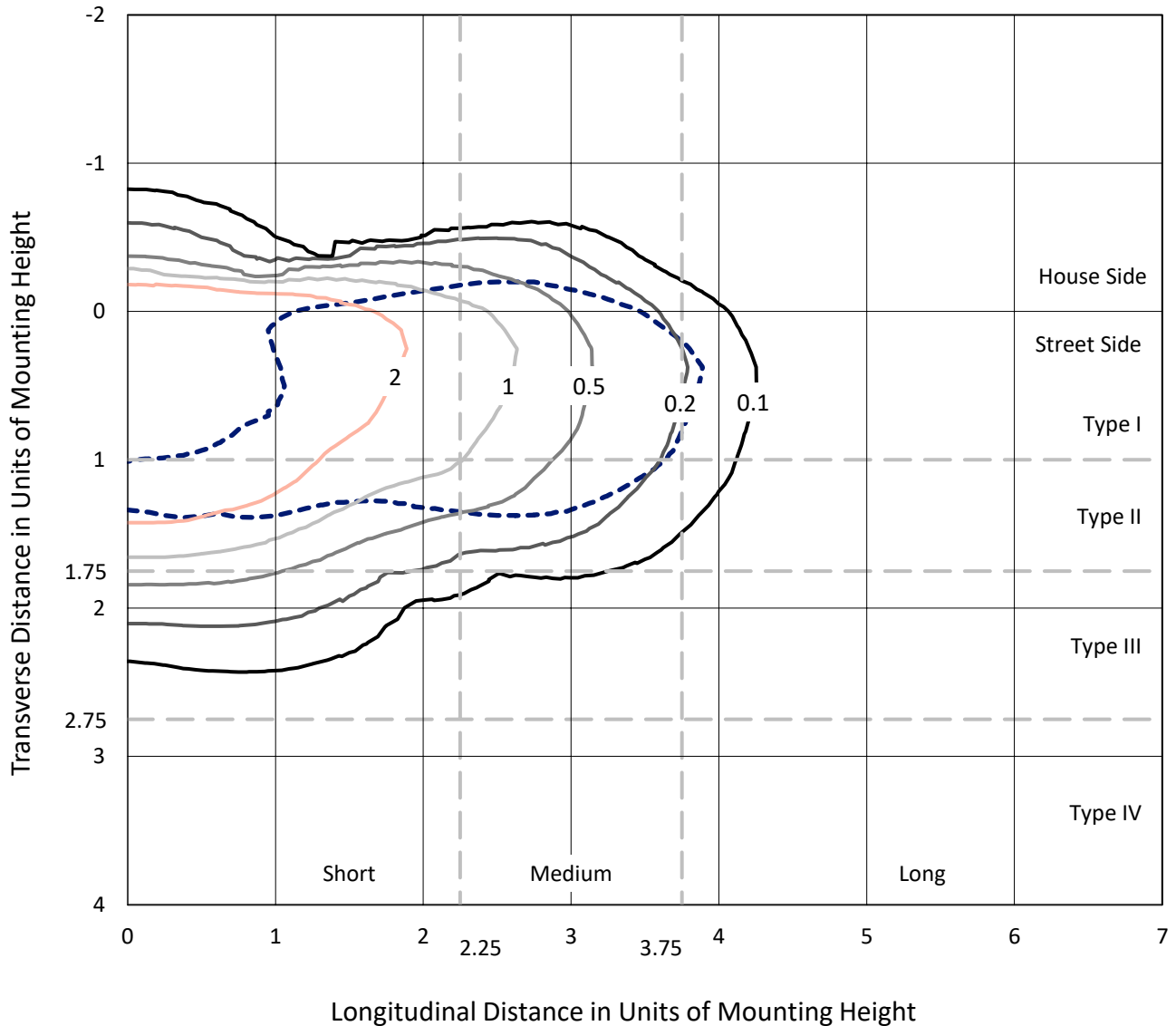
Lumens per Lamp: N/A
Luminaire Lumens: 5837.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

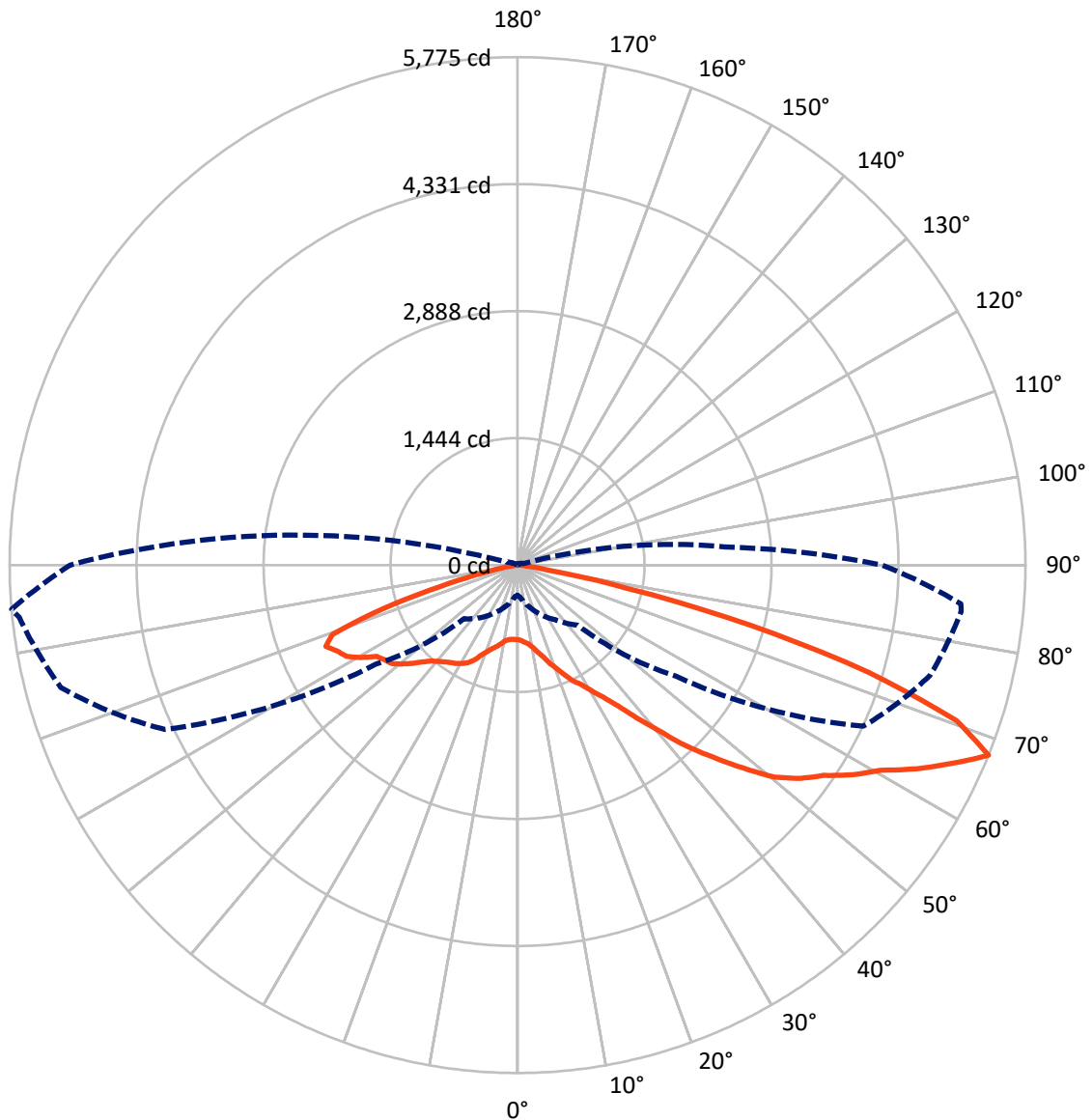
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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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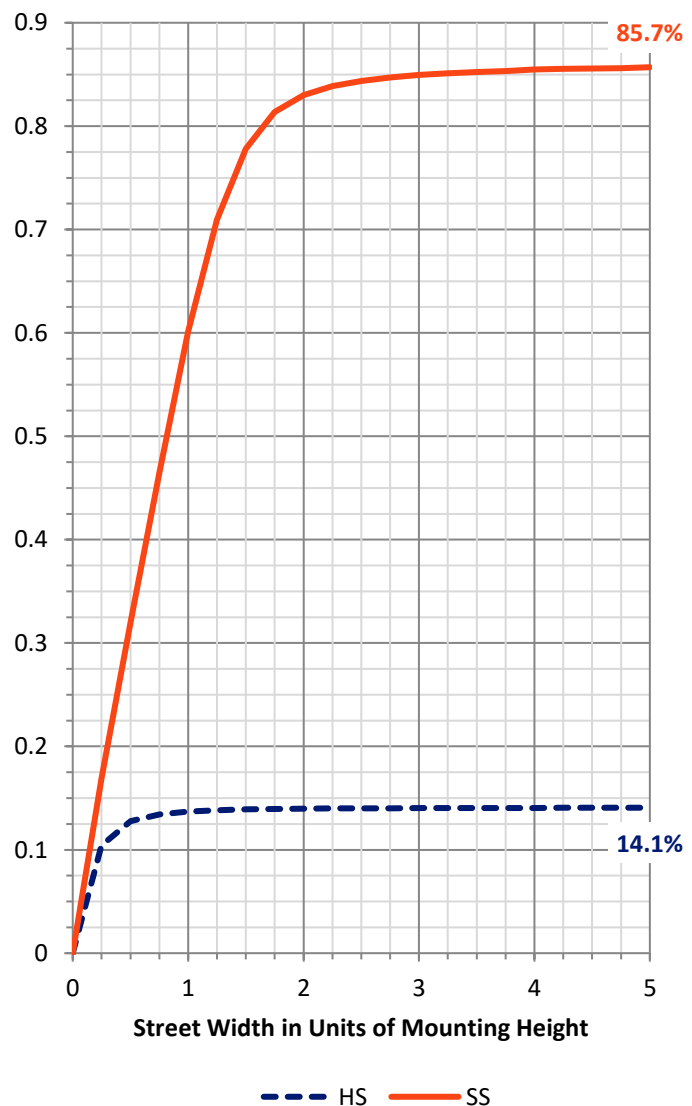
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.3	0.0	829.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5008.4	0.0	5008.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	5837.7	0.0	5837.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.3
10°-20°	208.1	3.6
20°-30°	345.7	5.9
30°-40°	594.7	10.2
40°-50°	1068.7	18.3
50°-60°	1521.4	26.1
60°-70°	1387.0	23.8
70°-80°	590.6	10.1
80°-90°	44.0	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°	5837.7	100.0
0°-180°	5837.7	100.0



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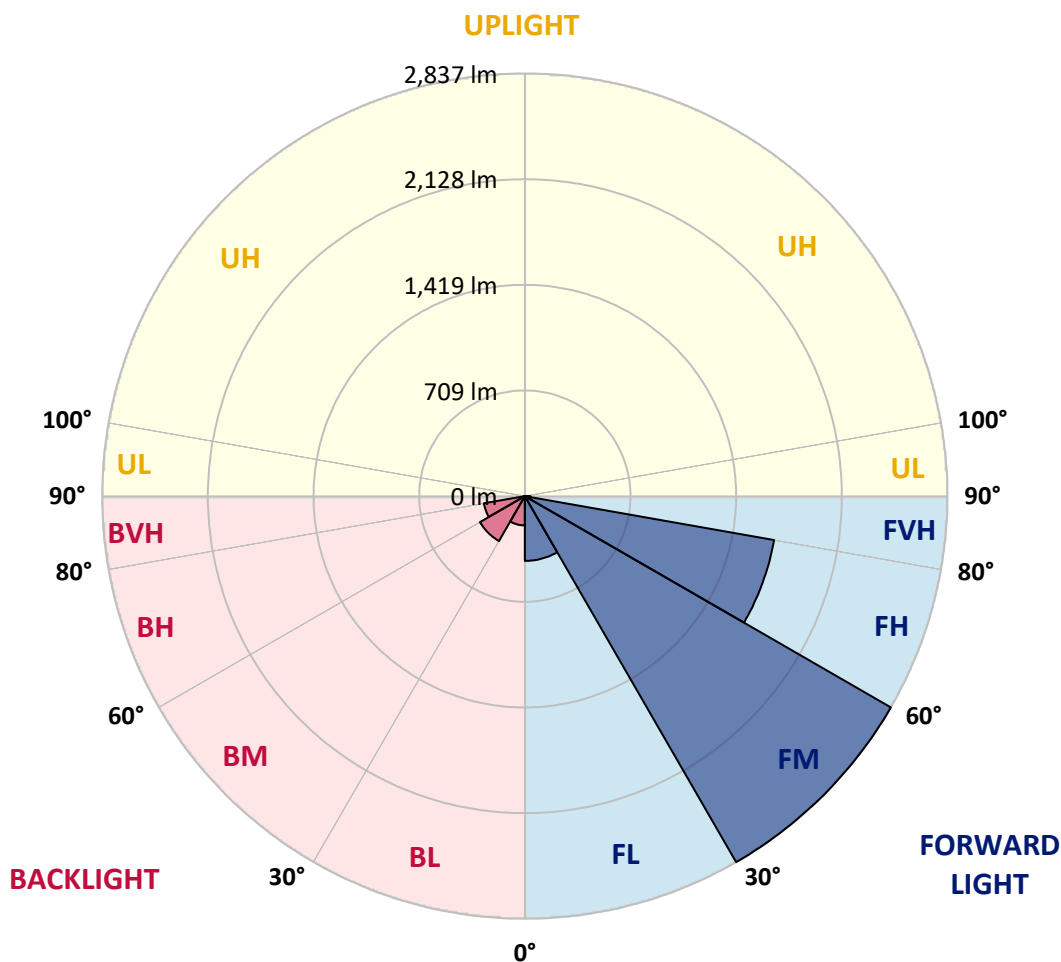
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.9	7.4			
FM (30°-60°)	2837.1	48.6			
FH (60°-80°)	1699.0	29.1			G1/1800
FVH (80°-90°)	37.3	0.6			G1/100
BL (0°-30°)	196.3	3.4	B1/500		
BM (30°-60°)	347.7	6.0	B1/1000		
BH (60°-80°)	278.7	4.8	B1/500		G1/500
BVH (80°-90°)	6.6	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°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	879.5	887.9	887.9	885.1	876.7	871.2	868.4	862.8	857.2	857.2	860.0
5°	887.9	879.5	890.6	876.7	876.7	876.7	887.9	882.3	879.5	865.6	865.6
7.5°	887.9	879.5	879.5	887.9	879.5	885.1	899.0	893.4	904.6	879.5	885.1
10°	862.8	860.0	865.6	876.7	879.5	890.6	904.6	932.4	935.2	918.5	915.7
12.5°	812.7	809.9	829.4	835.0	868.4	896.2	938.0	960.2	985.3	976.9	960.2
15°	776.5	782.1	796.0	818.3	848.9	899.0	946.3	996.4	1040.9	1029.8	1024.2
17.5°	790.4	787.7	790.4	804.4	843.3	893.4	974.1	1032.6	1096.6	1096.6	1102.2
20°	832.2	840.5	837.8	829.4	848.9	890.6	974.1	1077.1	1182.9	1174.5	1174.5
22.5°	904.6	907.3	890.6	885.1	882.3	907.3	990.8	1132.8	1255.2	1271.9	1266.4
25°	979.7	982.5	976.9	960.2	938.0	943.5	1021.4	1177.3	1355.4	1383.3	1377.7
27.5°	1104.9	1102.2	1088.2	1068.8	1035.4	1010.3	1068.8	1210.7	1433.4	1480.7	1466.8
30°	1230.2	1221.8	1202.4	1177.3	1146.7	1099.4	1127.2	1274.7	1530.8	1575.3	1544.7
32.5°	1383.3	1366.6	1372.1	1333.2	1269.2	1194.0	1188.4	1333.2	1608.7	1672.7	1647.7
35°	1578.1	1558.6	1530.8	1494.6	1433.4	1333.2	1302.6	1427.8	1739.5	1786.8	1786.8
37.5°	1834.2	1853.6	1820.2	1669.9	1603.1	1508.5	1444.5	1525.2	1853.6	1967.8	1939.9
40°	2095.8	2112.5	2051.2	1939.9	1795.2	1678.3	1639.3	1683.9	2026.2	2162.6	2109.7
42.5°	2307.3	2329.6	2307.3	2162.6	2048.5	1898.2	1828.6	1870.3	2248.9	2413.1	2343.5
45°	2530.0	2552.2	2527.2	2432.6	2321.2	2234.9	2059.6	2112.5	2482.7	2727.6	2649.6
47.5°	2697.0	2724.8	2680.3	2660.8	2571.7	2557.8	2260.0	2318.4	2727.6	3044.9	2947.5
50°	2735.9	2766.5	2805.5	2827.8	2797.2	2830.6	2530.0	2580.1	2983.6	3337.1	3242.5
52.5°	2644.1	2674.7	2761.0	2864.0	3005.9	3106.1	2802.7	2844.5	3250.8	3579.2	3529.1
55°	2374.1	2401.9	2577.3	2716.4	3056.0	3220.2	3064.3	3239.7	3442.9	3832.5	3710.1
57.5°	1920.4	1953.8	2184.8	2399.2	2889.0	3156.2	3220.2	3568.1	3760.2	4019.0	3877.1
60°	1363.8	1383.3	1583.7	1962.2	2427.0	2836.1	3189.6	3813.0	4010.6	4269.5	4194.3
62.5°	784.9	801.6	1010.3	1366.6	1831.4	2368.5	3053.2	4044.0	4280.6	4545.0	4503.3
65°	520.5	526.0	668.0	862.8	1191.2	1745.1	2708.1	4250.0	4547.8	4764.9	4717.6
67.5°	342.3	373.0	484.3	617.9	762.6	965.8	2207.1	4336.3	4854.0	5071.1	5059.9
70°	244.9	256.1	347.9	475.9	573.3	542.7	1291.4	3726.8	4840.1	5154.6	5062.7
72.5°	144.7	155.9	231.0	356.3	450.9	345.1	604.0	2635.7	4010.6	4113.6	4088.6
75°	105.8	105.8	141.9	256.1	328.4	247.7	283.9	1667.2	2663.6	2891.8	2889.0
77.5°	75.1	77.9	97.4	153.1	253.3	180.9	155.9	926.8	1455.6	1592.0	1516.9
80°	44.5	47.3	66.8	91.8	183.7	130.8	103.0	423.1	559.4	565.0	537.2
82.5°	33.4	33.4	44.5	64.0	128.0	89.1	64.0	161.4	180.9	164.2	139.2
85°	19.5	16.7	33.4	47.3	75.1	50.1	44.5	75.1	83.5	61.2	55.7
87.5°	5.6	5.6	13.9	16.7	33.4	27.8	19.5	27.8	39.0	22.3	16.7
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°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	854.5	846.1	832.2	826.6	807.1	798.8	793.2	779.3	782.1	773.7	773.7
5°	846.1	846.1	818.3	787.7	757.0	737.6	715.3	687.5	687.5	676.3	679.1
7.5°	876.7	854.5	818.3	762.6	712.5	668.0	648.5	620.7	604.0	595.6	595.6
10°	896.2	873.9	812.7	745.9	681.9	626.2	584.5	545.5	523.2	523.2	520.5
12.5°	949.1	915.7	835.0	743.1	648.5	565.0	501.0	456.5	425.8	403.6	409.1
15°	993.6	957.4	846.1	720.9	590.0	473.2	395.2	311.7	270.0	247.7	239.4
17.5°	1063.2	996.4	871.2	681.9	501.0	370.2	256.1	186.5	169.8	167.0	167.0
20°	1121.6	1043.7	873.9	606.7	411.9	236.6	164.2	153.1	144.7	141.9	139.2
22.5°	1202.4	1104.9	862.8	520.5	295.0	158.6	139.2	128.0	122.5	114.1	114.1
25°	1285.9	1185.7	840.5	439.8	180.9	136.4	122.5	111.3	100.2	94.6	97.4
27.5°	1374.9	1246.9	776.5	342.3	139.2	119.7	100.2	91.8	86.3	83.5	83.5
30°	1447.3	1285.9	681.9	228.2	125.2	105.8	89.1	80.7	75.1	72.4	72.4
32.5°	1500.2	1319.3	576.1	153.1	114.1	94.6	80.7	72.4	66.8	64.0	64.0
35°	1589.2	1344.3	478.7	130.8	103.0	83.5	69.6	64.0	58.4	58.4	58.4
37.5°	1725.6	1377.7	381.3	119.7	94.6	75.1	66.8	58.4	55.7	52.9	52.9
40°	1845.3	1419.5	272.8	108.5	86.3	69.6	58.4	52.9	50.1	47.3	47.3
42.5°	2017.8	1466.8	178.1	97.4	77.9	64.0	52.9	47.3	44.5	41.7	41.7
45°	2237.7	1544.7	139.2	86.3	69.6	58.4	50.1	44.5	39.0	39.0	36.2
47.5°	2471.5	1639.3	125.2	80.7	64.0	52.9	44.5	39.0	36.2	33.4	33.4
50°	2688.6	1731.2	116.9	75.1	58.4	50.1	41.7	36.2	30.6	27.8	27.8
52.5°	2883.4	1817.5	111.3	69.6	55.7	44.5	36.2	30.6	27.8	25.0	25.0
55°	2986.4	1856.4	108.5	66.8	50.1	41.7	33.4	27.8	25.0	22.3	22.3
57.5°	3147.8	1906.5	105.8	64.0	47.3	36.2	30.6	25.0	22.3	19.5	19.5
60°	3409.5	2070.7	103.0	61.2	44.5	36.2	27.8	22.3	16.7	13.9	13.9
62.5°	3626.6	2207.1	91.8	52.9	39.0	30.6	22.3	16.7	11.1	8.3	8.3
65°	3874.3	2271.1	80.7	47.3	33.4	25.0	16.7	11.1	8.3	2.8	2.8
67.5°	4144.2	2368.5	66.8	41.7	30.6	19.5	13.9	8.3	2.8	0.0	0.0
70°	4002.3	2246.1	55.7	36.2	27.8	16.7	11.1	5.6	0.0	0.0	0.0
72.5°	3136.7	1608.7	44.5	33.4	25.0	16.7	11.1	2.8	0.0	0.0	0.0
75°	2095.8	910.1	39.0	27.8	19.5	13.9	8.3	2.8	0.0	0.0	0.0
77.5°	1138.3	409.1	33.4	25.0	16.7	11.1	8.3	2.8	0.0	0.0	0.0
80°	370.2	161.4	27.8	22.3	16.7	11.1	8.3	2.8	0.0	0.0	0.0
82.5°	100.2	50.1	27.8	22.3	16.7	11.1	8.3	2.8	0.0	0.0	0.0
85°	41.7	33.4	27.8	22.3	16.7	11.1	8.3	2.8	0.0	0.0	0.0
87.5°	16.7	11.1	11.1	13.9	11.1	8.3	5.6	2.8	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°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	776.5	782.1	784.9	784.9	798.8	812.7	829.4	843.3	843.3	851.7	860.0
5°	681.9	687.5	695.8	720.9	748.7	779.3	809.9	832.2	862.8	876.7	885.1
7.5°	604.0	609.5	631.8	656.8	695.8	748.7	801.6	851.7	882.3	896.2	907.3
10°	523.2	531.6	556.6	601.2	651.3	715.3	776.5	862.8	912.9	940.7	951.9
12.5°	406.4	428.6	462.0	509.3	573.3	670.8	784.9	873.9	960.2	993.6	1015.9
15°	256.1	275.5	328.4	403.6	489.9	604.0	762.6	890.6	1010.3	1043.7	1079.9
17.5°	164.2	167.0	183.7	264.4	375.7	520.5	729.2	915.7	1066.0	1113.3	1169.0
20°	139.2	144.7	147.5	158.6	250.5	428.6	659.6	946.3	1132.8	1196.8	1249.7
22.5°	116.9	119.7	125.2	133.6	150.3	311.7	565.0	946.3	1191.2	1285.9	1347.1
25°	94.6	100.2	105.8	114.1	130.8	194.8	467.6	929.6	1260.8	1377.7	1455.6
27.5°	83.5	83.5	89.1	97.4	111.3	136.4	370.2	879.5	1313.7	1433.4	1536.3
30°	72.4	75.1	77.9	86.3	100.2	119.7	256.1	798.8	1369.4	1541.9	1658.8
32.5°	64.0	64.0	69.6	75.1	89.1	108.5	164.2	676.3	1441.7	1625.4	1789.6
35°	58.4	58.4	61.2	66.8	80.7	97.4	128.0	573.3	1528.0	1784.1	1965.0
37.5°	52.9	52.9	55.7	61.2	72.4	86.3	116.9	492.6	1617.1	1942.7	2207.1
40°	47.3	47.3	50.1	55.7	64.0	77.9	105.8	398.0	1728.4	2176.5	2471.5
42.5°	41.7	41.7	44.5	50.1	58.4	69.6	91.8	297.8	1875.9	2429.8	2813.9
45°	36.2	36.2	39.0	44.5	50.1	64.0	83.5	228.2	2037.3	2710.9	3114.4
47.5°	30.6	33.4	36.2	41.7	47.3	58.4	75.1	200.4	2196.0	3008.7	3448.4
50°	27.8	27.8	30.6	36.2	44.5	52.9	69.6	197.6	2357.4	3236.9	3790.8
52.5°	25.0	25.0	27.8	33.4	41.7	50.1	66.8	203.2	2491.0	3448.4	4030.1
55°	22.3	22.3	25.0	27.8	36.2	47.3	61.2	208.7	2585.6	3662.7	4222.2
57.5°	19.5	19.5	22.3	27.8	33.4	41.7	55.7	214.3	2738.7	3874.3	4500.5
60°	13.9	13.9	19.5	25.0	30.6	36.2	52.9	219.9	2983.6	4166.5	4737.1
62.5°	8.3	8.3	11.1	19.5	25.0	33.4	47.3	208.7	3211.9	4542.2	5098.9
65°	2.8	5.6	8.3	11.1	19.5	27.8	39.0	189.3	3403.9	4918.0	5432.9
67.5°	0.0	0.0	2.8	8.3	16.7	22.3	33.4	139.2	3434.5	5087.8	5775.2
70°	0.0	0.0	2.8	8.3	13.9	22.3	30.6	77.9	2925.2	4545.0	5293.7
72.5°	0.0	0.0	0.0	5.6	13.9	19.5	27.8	58.4	2157.0	3426.2	4183.2
75°	0.0	0.0	0.0	2.8	11.1	16.7	25.0	44.5	1310.9	2285.0	2730.4
77.5°	0.0	0.0	0.0	2.8	8.3	16.7	25.0	39.0	462.0	1088.2	1283.1
80°	0.0	0.0	0.0	5.6	11.1	16.7	22.3	33.4	111.3	272.8	367.4
82.5°	0.0	0.0	0.0	2.8	8.3	13.9	19.5	27.8	44.5	80.7	128.0
85°	0.0	0.0	0.0	2.8	5.6	13.9	19.5	25.0	30.6	39.0	55.7
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	8.3	11.1	11.1	11.1	19.5
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°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	857.2	868.4	873.9	885.1	890.6	887.9	885.1	893.4	887.9	879.5
5°	887.9	887.9	896.2	899.0	899.0	890.6	896.2	893.4	887.9	887.9
7.5°	921.3	935.2	935.2	918.5	915.7	910.1	910.1	887.9	879.5	887.9
10°	954.7	965.8	968.6	949.1	924.0	912.9	899.0	871.2	857.2	862.8
12.5°	1024.2	1024.2	993.6	971.4	938.0	899.0	865.6	826.6	807.1	812.7
15°	1074.3	1085.5	1043.7	993.6	935.2	862.8	826.6	796.0	784.9	776.5
17.5°	1171.7	1149.5	1082.7	1010.3	926.8	851.7	826.6	798.8	790.4	790.4
20°	1255.2	1244.1	1143.9	1013.1	924.0	873.9	857.2	843.3	840.5	832.2
22.5°	1369.4	1319.3	1191.2	1043.7	954.7	910.1	904.6	918.5	910.1	904.6
25°	1455.6	1413.9	1227.4	1088.2	1002.0	988.1	996.4	1010.3	988.1	979.7
27.5°	1572.5	1494.6	1297.0	1146.7	1066.0	1079.9	1107.7	1110.5	1096.6	1104.9
30°	1681.1	1597.6	1349.9	1213.5	1174.5	1188.4	1230.2	1260.8	1241.3	1230.2
32.5°	1836.9	1708.9	1455.6	1324.8	1310.9	1347.1	1394.4	1413.9	1388.8	1383.3
35°	2001.2	1836.9	1564.2	1450.1	1475.1	1525.2	1567.0	1600.4	1561.4	1578.1
37.5°	2257.2	2042.9	1747.9	1647.7	1658.8	1678.3	1756.2	1848.1	1867.6	1834.2
40°	2524.4	2265.6	1917.7	1839.7	1864.8	1917.7	2009.5	2095.8	2140.3	2095.8
42.5°	2833.3	2479.9	2179.3	2087.4	2112.5	2187.6	2310.1	2379.7	2374.1	2307.3
45°	3214.6	2777.7	2424.2	2310.1	2401.9	2468.7	2591.2	2599.5	2546.7	2530.0
47.5°	3506.9	3028.2	2688.6	2616.2	2741.5	2744.3	2772.1	2774.9	2716.4	2697.0
50°	3829.7	3317.6	2983.6	2877.9	3089.4	2992.0	2916.8	2866.7	2777.7	2735.9
52.5°	4147.0	3523.6	3256.4	3147.8	3367.7	3108.9	2972.5	2819.4	2688.6	2644.1
55°	4316.8	3863.1	3654.4	3401.1	3429.0	3142.3	2799.9	2607.9	2385.2	2374.1
57.5°	4517.2	4091.4	3991.2	3573.7	3326.0	2908.5	2440.9	2187.6	1948.3	1920.4
60°	4753.8	4453.2	4347.4	3545.8	2961.4	2443.7	1934.4	1608.7	1383.3	1363.8
62.5°	5018.2	4881.8	4567.3	3273.1	2351.8	1720.0	1277.5	1004.7	796.0	784.9
65°	5435.7	5240.8	4684.2	2755.4	1555.8	1102.2	848.9	651.3	526.0	520.5
67.5°	5697.3	5377.2	4422.6	1965.0	862.8	729.2	595.6	473.2	364.6	342.3
70°	5327.1	4934.7	3498.5	1124.4	501.0	553.9	459.2	317.3	250.5	244.9
72.5°	4255.6	3662.7	2354.6	528.8	311.7	434.2	334.0	214.3	150.3	144.7
75°	2902.9	2304.5	1477.9	244.9	219.9	317.3	244.9	125.2	105.8	105.8
77.5°	1297.0	1174.5	757.0	150.3	164.2	242.1	141.9	86.3	77.9	75.1
80°	395.2	414.7	308.9	103.0	122.5	183.7	86.3	58.4	47.3	44.5
82.5°	133.6	155.9	139.2	61.2	83.5	130.8	58.4	39.0	33.4	33.4
85°	64.0	77.9	69.6	39.0	44.5	64.0	47.3	30.6	19.5	19.5
87.5°	25.0	36.2	25.0	16.7	25.0	33.4	19.5	13.9	5.6	5.6
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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