

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: P676270

Luminaire Tested: **CCW-SA-2B-735-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676270
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

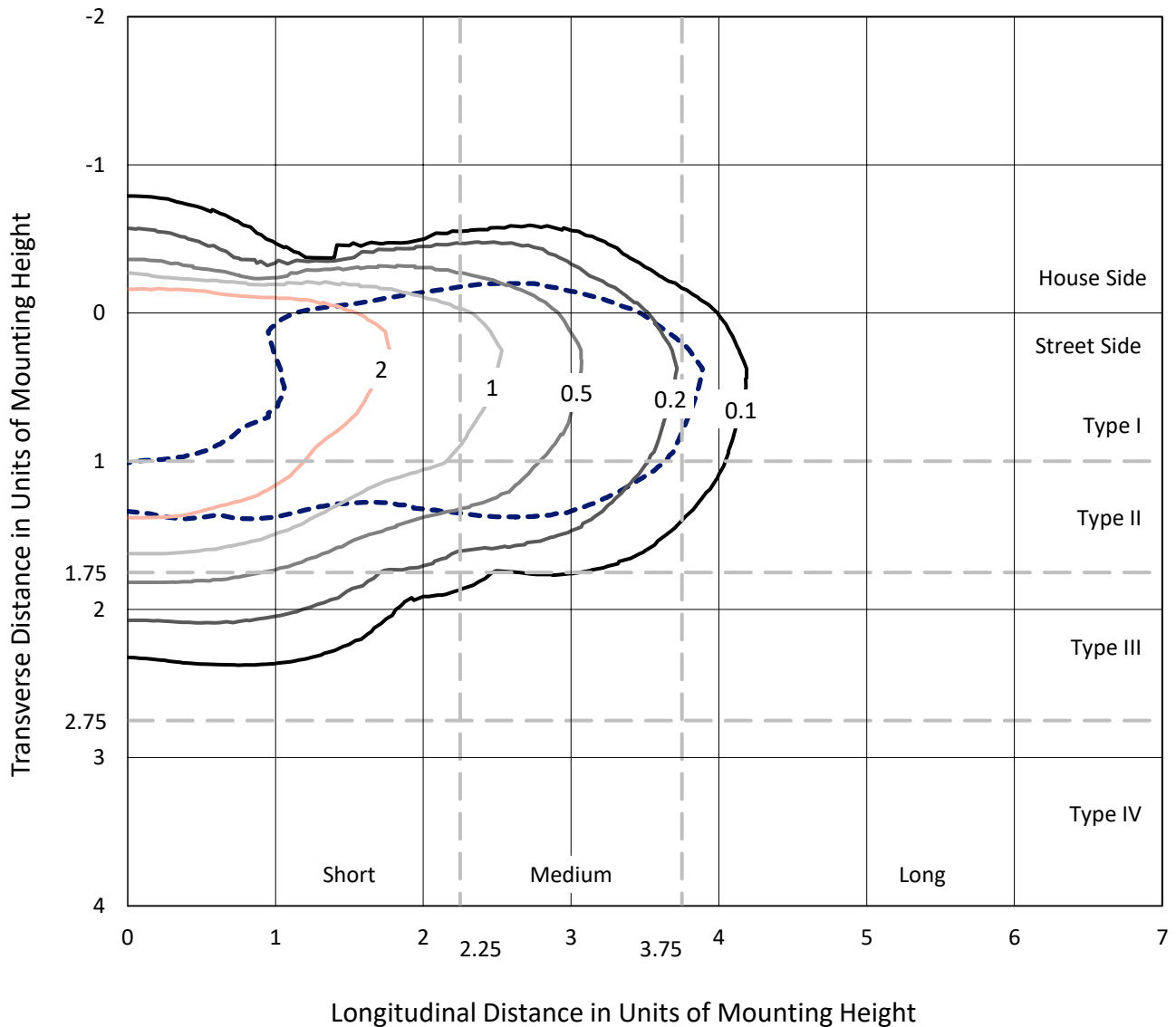
Lumens per Lamp: N/A
Luminaire Lumens: 5258.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

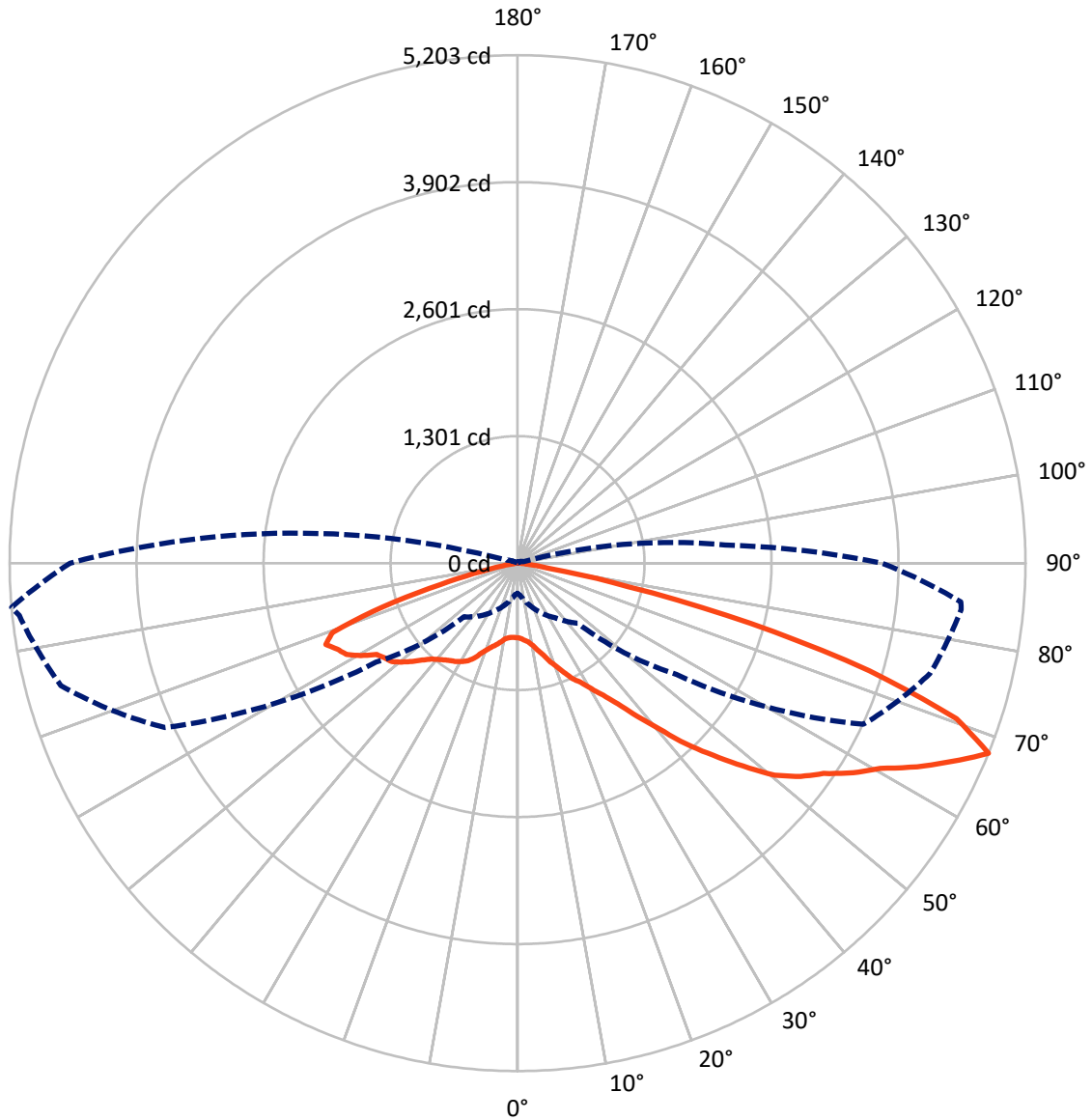
× Max cd
 - - - 1/2 Max cd



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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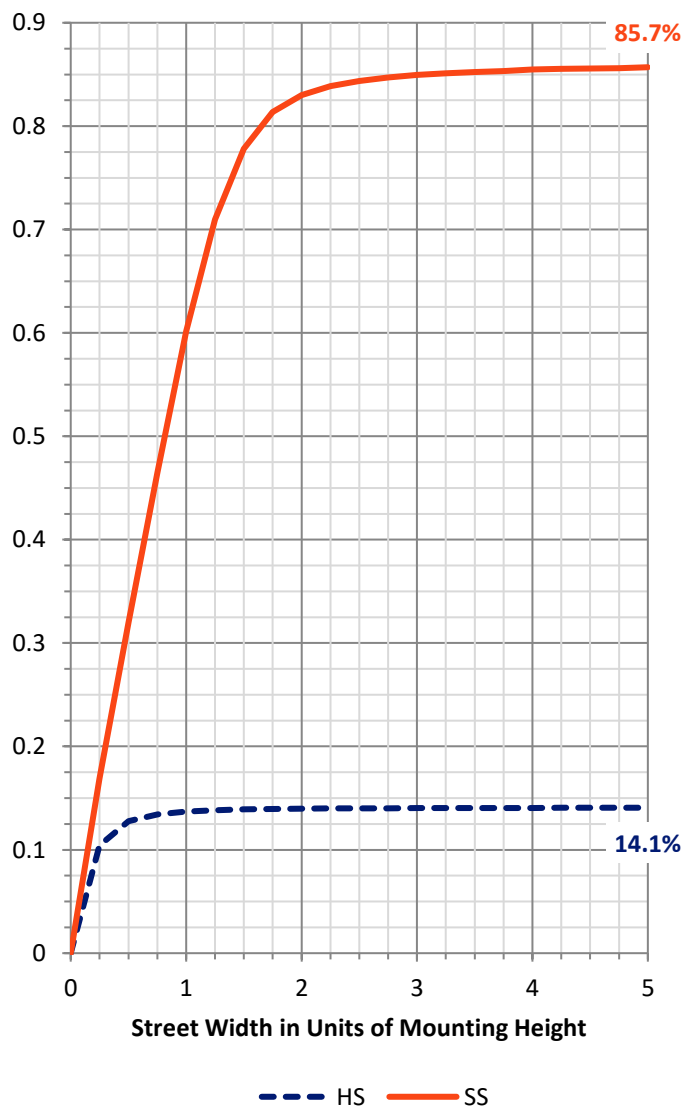
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.1	0.0	747.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4511.7	0.0	4511.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	5258.8	0.0	5258.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.3
10°-20°	187.5	3.6
20°-30°	311.4	5.9
30°-40°	535.7	10.2
40°-50°	962.7	18.3
50°-60°	1370.6	26.1
60°-70°	1249.5	23.8
70°-80°	532.1	10.1
80°-90°	39.6	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°	5258.8	100.0
0°-180°	5258.8	100.0



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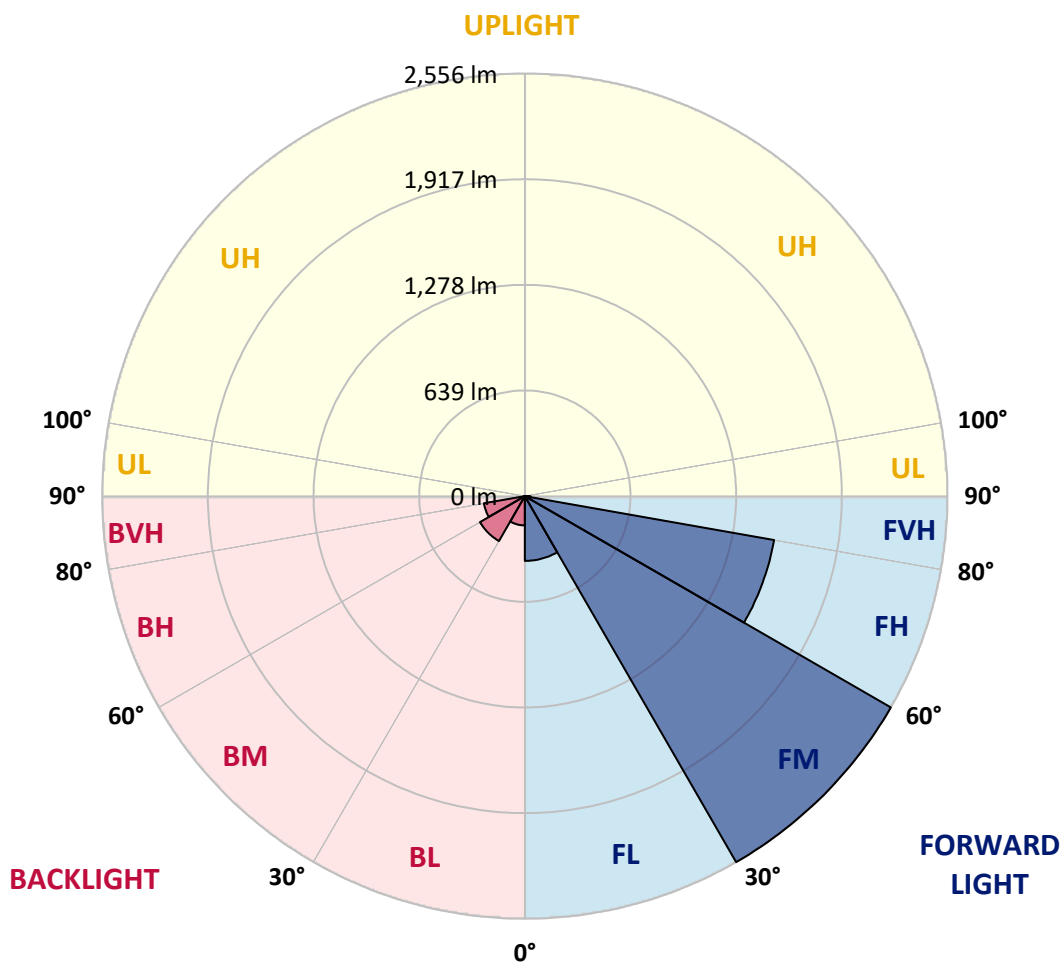
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.8	7.4			
FM (30°-60°)	2555.8	48.6			
FH (60°-80°)	1530.5	29.1			G1/1800
FVH (80°-90°)	33.6	0.6			G1/100
BL (0°-30°)	176.9	3.4	B1/500		
BM (30°-60°)	313.2	6.0	B1/1000		
BH (60°-80°)	251.0	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°	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7
2.5°	792.3	799.8	799.8	797.3	789.8	784.8	782.3	777.2	772.2	772.2	774.7
5°	799.8	792.3	802.3	789.8	789.8	789.8	799.8	794.8	792.3	779.8	779.8
7.5°	799.8	792.3	792.3	799.8	792.3	797.3	809.8	804.8	814.9	792.3	797.3
10°	777.2	774.7	779.8	789.8	792.3	802.3	814.9	839.9	842.4	827.4	824.9
12.5°	732.1	729.6	747.2	752.2	782.3	807.3	844.9	865.0	887.6	880.0	865.0
15°	699.5	704.5	717.1	737.1	764.7	809.8	852.5	897.6	937.7	927.7	922.7
17.5°	712.1	709.5	712.1	724.6	759.7	804.8	877.5	930.2	987.9	987.9	992.9
20°	749.7	757.2	754.7	747.2	764.7	802.3	877.5	970.3	1065.6	1058.1	1058.1
22.5°	814.9	817.4	802.3	797.3	794.8	817.4	892.6	1020.4	1130.8	1145.8	1140.8
25°	882.5	885.1	880.0	865.0	844.9	850.0	920.2	1060.6	1221.0	1246.1	1241.1
27.5°	995.4	992.9	980.3	962.8	932.7	910.1	962.8	1090.6	1291.2	1333.9	1321.3
30°	1108.2	1100.7	1083.1	1060.6	1033.0	990.4	1015.4	1148.3	1379.0	1419.1	1391.5
32.5°	1246.1	1231.1	1236.1	1201.0	1143.3	1075.6	1070.6	1201.0	1449.2	1506.8	1484.3
35°	1421.6	1404.1	1379.0	1346.4	1291.2	1201.0	1173.4	1286.2	1567.0	1609.6	1609.6
37.5°	1652.3	1669.8	1639.7	1504.3	1444.2	1358.9	1301.3	1374.0	1669.8	1772.6	1747.5
40°	1888.0	1903.0	1847.8	1747.5	1617.2	1511.9	1476.8	1516.9	1825.3	1948.1	1900.5
42.5°	2078.5	2098.6	2078.5	1948.1	1845.3	1709.9	1647.3	1684.9	2025.8	2173.8	2111.1
45°	2279.1	2299.1	2276.6	2191.3	2091.0	2013.3	1855.4	1903.0	2236.5	2457.1	2386.9
47.5°	2429.5	2454.6	2414.5	2396.9	2316.7	2304.2	2035.9	2088.5	2457.1	2742.9	2655.2
50°	2464.6	2492.2	2527.3	2547.4	2519.8	2549.9	2279.1	2324.2	2687.8	3006.2	2920.9
52.5°	2381.9	2409.5	2487.2	2579.9	2707.8	2798.1	2524.8	2562.4	2928.5	3224.3	3179.2
55°	2138.7	2163.7	2321.7	2447.1	2752.9	2900.9	2760.5	2918.4	3101.5	3452.5	3342.1
57.5°	1730.0	1760.1	1968.2	2161.2	2602.5	2843.2	2900.9	3214.3	3387.3	3620.5	3492.6
60°	1228.5	1246.1	1426.6	1767.6	2186.3	2554.9	2873.3	3434.9	3612.9	3846.1	3778.4
62.5°	707.0	722.1	910.1	1231.1	1649.8	2133.7	2750.4	3643.0	3856.1	4094.3	4056.7
65°	468.9	473.9	601.7	777.2	1073.1	1572.0	2439.5	3828.6	4096.8	4292.4	4249.8
67.5°	308.4	336.0	436.3	556.6	687.0	870.0	1988.2	3906.3	4372.6	4568.2	4558.2
70°	220.6	230.7	313.4	428.7	516.5	488.9	1163.4	3357.2	4360.1	4643.4	4560.7
72.5°	130.4	140.4	208.1	320.9	406.2	310.9	544.1	2374.4	3612.9	3705.7	3683.1
75°	95.3	95.3	127.9	230.7	295.9	223.1	255.7	1501.8	2399.4	2605.0	2602.5
77.5°	67.7	70.2	87.8	137.9	228.2	163.0	140.4	834.9	1311.3	1434.1	1366.4
80°	40.1	42.6	60.2	82.7	165.5	117.8	92.8	381.1	504.0	509.0	483.9
82.5°	30.1	30.1	40.1	57.7	115.3	80.2	57.7	145.4	163.0	147.9	125.4
85°	17.6	15.0	30.1	42.6	67.7	45.1	40.1	67.7	75.2	55.2	50.1
87.5°	5.0	5.0	12.5	15.0	30.1	25.1	17.6	25.1	35.1	20.1	15.0
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°	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7
2.5°	769.7	762.2	749.7	744.6	727.1	719.6	714.6	702.0	704.5	697.0	697.0
5°	762.2	762.2	737.1	709.5	682.0	664.4	644.4	619.3	619.3	609.3	611.8
7.5°	789.8	769.7	737.1	687.0	641.9	601.7	584.2	559.1	544.1	536.5	536.5
10°	807.3	787.3	732.1	671.9	614.3	564.1	526.5	491.4	471.4	471.4	468.9
12.5°	855.0	824.9	752.2	669.4	584.2	509.0	451.3	411.2	383.6	363.5	368.6
15°	895.1	862.5	762.2	649.4	531.5	426.2	356.0	280.8	243.2	223.1	215.6
17.5°	957.8	897.6	784.8	614.3	451.3	333.5	230.7	168.0	152.9	150.4	150.4
20°	1010.4	940.2	787.3	546.6	371.1	213.1	147.9	137.9	130.4	127.9	125.4
22.5°	1083.1	995.4	777.2	468.9	265.8	142.9	125.4	115.3	110.3	102.8	102.8
25°	1158.3	1068.1	757.2	396.1	163.0	122.9	110.3	100.3	90.3	85.2	87.8
27.5°	1238.6	1123.2	699.5	308.4	125.4	107.8	90.3	82.7	77.7	75.2	75.2
30°	1303.8	1158.3	614.3	205.6	112.8	95.3	80.2	72.7	67.7	65.2	65.2
32.5°	1351.4	1188.4	519.0	137.9	102.8	85.2	72.7	65.2	60.2	57.7	57.7
35°	1431.6	1211.0	431.2	117.8	92.8	75.2	62.7	57.7	52.7	52.7	52.7
37.5°	1554.5	1241.1	343.5	107.8	85.2	67.7	60.2	52.7	50.1	47.6	47.6
40°	1662.3	1278.7	245.7	97.8	77.7	62.7	52.7	47.6	45.1	42.6	42.6
42.5°	1817.7	1321.3	160.5	87.8	70.2	57.7	47.6	42.6	40.1	37.6	37.6
45°	2015.8	1391.5	125.4	77.7	62.7	52.7	45.1	40.1	35.1	35.1	32.6
47.5°	2226.4	1476.8	112.8	72.7	57.7	47.6	40.1	35.1	32.6	30.1	30.1
50°	2422.0	1559.5	105.3	67.7	52.7	45.1	37.6	32.6	27.6	25.1	25.1
52.5°	2597.5	1637.2	100.3	62.7	50.1	40.1	32.6	27.6	25.1	22.6	22.6
55°	2690.3	1672.3	97.8	60.2	45.1	37.6	30.1	25.1	22.6	20.1	20.1
57.5°	2835.7	1717.5	95.3	57.7	42.6	32.6	27.6	22.6	20.1	17.6	17.6
60°	3071.4	1865.4	92.8	55.2	40.1	32.6	25.1	20.1	15.0	12.5	12.5
62.5°	3266.9	1988.2	82.7	47.6	35.1	27.6	20.1	15.0	10.0	7.5	7.5
65°	3490.1	2045.9	72.7	42.6	30.1	22.6	15.0	10.0	7.5	2.5	2.5
67.5°	3733.3	2133.7	60.2	37.6	27.6	17.6	12.5	7.5	2.5	0.0	0.0
70°	3605.4	2023.3	50.1	32.6	25.1	15.0	10.0	5.0	0.0	0.0	0.0
72.5°	2825.7	1449.2	40.1	30.1	22.6	15.0	10.0	2.5	0.0	0.0	0.0
75°	1888.0	819.9	35.1	25.1	17.6	12.5	7.5	2.5	0.0	0.0	0.0
77.5°	1025.5	368.6	30.1	22.6	15.0	10.0	7.5	2.5	0.0	0.0	0.0
80°	333.5	145.4	25.1	20.1	15.0	10.0	7.5	2.5	0.0	0.0	0.0
82.5°	90.3	45.1	25.1	20.1	15.0	10.0	7.5	2.5	0.0	0.0	0.0
85°	37.6	30.1	25.1	20.1	15.0	10.0	7.5	2.5	0.0	0.0	0.0
87.5°	15.0	10.0	10.0	12.5	10.0	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°	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7
2.5°	699.5	704.5	707.0	707.0	719.6	732.1	747.2	759.7	759.7	767.2	774.7
5°	614.3	619.3	626.8	649.4	674.4	702.0	729.6	749.7	777.2	789.8	797.3
7.5°	544.1	549.1	569.1	591.7	626.8	674.4	722.1	767.2	794.8	807.3	817.4
10°	471.4	478.9	501.4	541.6	586.7	644.4	699.5	777.2	822.4	847.4	857.5
12.5°	366.1	386.1	416.2	458.8	516.5	604.2	707.0	787.3	865.0	895.1	915.1
15°	230.7	248.2	295.9	363.5	441.3	544.1	687.0	802.3	910.1	940.2	972.8
17.5°	147.9	150.4	165.5	238.2	338.5	468.9	656.9	824.9	960.3	1002.9	1053.0
20°	125.4	130.4	132.9	142.9	225.7	386.1	594.2	852.5	1020.4	1078.1	1125.7
22.5°	105.3	107.8	112.8	120.3	135.4	280.8	509.0	852.5	1073.1	1158.3	1213.5
25°	85.2	90.3	95.3	102.8	117.8	175.5	421.2	837.4	1135.8	1241.1	1311.3
27.5°	75.2	75.2	80.2	87.8	100.3	122.9	333.5	792.3	1183.4	1291.2	1384.0
30°	65.2	67.7	70.2	77.7	90.3	107.8	230.7	719.6	1233.6	1389.0	1494.3
32.5°	57.7	57.7	62.7	67.7	80.2	97.8	147.9	609.3	1298.7	1464.2	1612.2
35°	52.7	52.7	55.2	60.2	72.7	87.8	115.3	516.5	1376.5	1607.1	1770.1
37.5°	47.6	47.6	50.1	55.2	65.2	77.7	105.3	443.8	1456.7	1750.1	1988.2
40°	42.6	42.6	45.1	50.1	57.7	70.2	95.3	358.5	1557.0	1960.7	2226.4
42.5°	37.6	37.6	40.1	45.1	52.7	62.7	82.7	268.3	1689.9	2188.8	2534.8
45°	32.6	32.6	35.1	40.1	45.1	57.7	75.2	205.6	1835.3	2442.0	2805.6
47.5°	27.6	30.1	32.6	37.6	42.6	52.7	67.7	180.5	1978.2	2710.3	3106.5
50°	25.1	25.1	27.6	32.6	40.1	47.6	62.7	178.0	2123.6	2915.9	3414.9
52.5°	22.6	22.6	25.1	30.1	37.6	45.1	60.2	183.0	2244.0	3106.5	3630.5
55°	20.1	20.1	22.6	25.1	32.6	42.6	55.2	188.0	2329.2	3299.5	3803.5
57.5°	17.6	17.6	20.1	25.1	30.1	37.6	50.1	193.1	2467.1	3490.1	4054.2
60°	12.5	12.5	17.6	22.6	27.6	32.6	47.6	198.1	2687.8	3753.3	4267.3
62.5°	7.5	7.5	10.0	17.6	22.6	30.1	42.6	188.0	2893.4	4091.8	4593.3
65°	2.5	5.0	7.5	10.0	17.6	25.1	35.1	170.5	3066.4	4430.3	4894.1
67.5°	0.0	0.0	2.5	7.5	15.0	20.1	30.1	125.4	3093.9	4583.2	5202.5
70°	0.0	0.0	2.5	7.5	12.5	20.1	27.6	70.2	2635.1	4094.3	4768.8
72.5°	0.0	0.0	0.0	5.0	12.5	17.6	25.1	52.7	1943.1	3086.4	3768.4
75°	0.0	0.0	0.0	2.5	10.0	15.0	22.6	40.1	1180.9	2058.4	2459.6
77.5°	0.0	0.0	0.0	2.5	7.5	15.0	22.6	35.1	416.2	980.3	1155.8
80°	0.0	0.0	0.0	5.0	10.0	15.0	20.1	30.1	100.3	245.7	331.0
82.5°	0.0	0.0	0.0	2.5	7.5	12.5	17.6	25.1	40.1	72.7	115.3
85°	0.0	0.0	0.0	2.5	5.0	12.5	17.6	22.6	27.6	35.1	50.1
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	7.5	10.0	10.0	10.0	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°	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7	764.7
2.5°	772.2	782.3	787.3	797.3	802.3	799.8	797.3	804.8	799.8	792.3
5°	799.8	799.8	807.3	809.8	809.8	802.3	807.3	804.8	799.8	799.8
7.5°	829.9	842.4	842.4	827.4	824.9	819.9	819.9	799.8	792.3	799.8
10°	860.0	870.0	872.5	855.0	832.4	822.4	809.8	784.8	772.2	777.2
12.5°	922.7	922.7	895.1	875.0	844.9	809.8	779.8	744.6	727.1	732.1
15°	967.8	977.8	940.2	895.1	842.4	777.2	744.6	717.1	707.0	699.5
17.5°	1055.5	1035.5	975.3	910.1	834.9	767.2	744.6	719.6	712.1	712.1
20°	1130.8	1120.7	1030.5	912.6	832.4	787.3	772.2	759.7	757.2	749.7
22.5°	1233.6	1188.4	1073.1	940.2	860.0	819.9	814.9	827.4	819.9	814.9
25°	1311.3	1273.7	1105.7	980.3	902.6	890.1	897.6	910.1	890.1	882.5
27.5°	1416.6	1346.4	1168.4	1033.0	960.3	972.8	997.9	1000.4	987.9	995.4
30°	1514.4	1439.2	1216.0	1093.2	1058.1	1070.6	1108.2	1135.8	1118.2	1108.2
32.5°	1654.8	1539.4	1311.3	1193.4	1180.9	1213.5	1256.1	1273.7	1251.1	1246.1
35°	1802.7	1654.8	1409.1	1306.3	1328.8	1374.0	1411.6	1441.7	1406.6	1421.6
37.5°	2033.4	1840.3	1574.5	1484.3	1494.3	1511.9	1582.1	1664.8	1682.4	1652.3
40°	2274.1	2040.9	1727.5	1657.3	1679.8	1727.5	1810.2	1888.0	1928.1	1888.0
42.5°	2552.4	2233.9	1963.2	1880.4	1903.0	1970.7	2081.0	2143.7	2138.7	2078.5
45°	2895.9	2502.2	2183.8	2081.0	2163.7	2223.9	2334.2	2341.8	2294.1	2279.1
47.5°	3159.1	2727.9	2422.0	2356.8	2469.6	2472.1	2497.2	2499.7	2447.1	2429.5
50°	3450.0	2988.6	2687.8	2592.5	2783.0	2695.3	2627.6	2582.5	2502.2	2464.6
52.5°	3735.8	3174.2	2933.5	2835.7	3033.8	2800.6	2677.7	2539.8	2422.0	2381.9
55°	3888.7	3480.0	3292.0	3063.8	3088.9	2830.7	2522.3	2349.3	2148.7	2138.7
57.5°	4069.2	3685.6	3595.4	3219.3	2996.1	2620.1	2198.8	1970.7	1755.1	1730.0
60°	4282.4	4011.6	3916.3	3194.2	2667.7	2201.4	1742.5	1449.2	1246.1	1228.5
62.5°	4520.5	4397.7	4114.4	2948.5	2118.6	1549.5	1150.8	905.1	717.1	707.0
65°	4896.6	4721.1	4219.7	2482.2	1401.5	992.9	764.7	586.7	473.9	468.9
67.5°	5132.3	4844.0	3984.0	1770.1	777.2	656.9	536.5	426.2	328.4	308.4
70°	4798.9	4445.3	3151.6	1012.9	451.3	498.9	413.7	285.8	225.7	220.6
72.5°	3833.6	3299.5	2121.1	476.4	280.8	391.1	300.9	193.1	135.4	130.4
75°	2615.0	2076.0	1331.3	220.6	198.1	285.8	220.6	112.8	95.3	95.3
77.5°	1168.4	1058.1	682.0	135.4	147.9	218.1	127.9	77.7	70.2	67.7
80°	356.0	373.6	278.3	92.8	110.3	165.5	77.7	52.7	42.6	40.1
82.5°	120.3	140.4	125.4	55.2	75.2	117.8	52.7	35.1	30.1	30.1
85°	57.7	70.2	62.7	35.1	40.1	57.7	42.6	27.6	17.6	17.6
87.5°	22.6	32.6	22.6	15.0	22.6	30.1	17.6	12.5	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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