

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: P676278

Luminaire Tested: **CCW-SA-1E-740-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676278
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

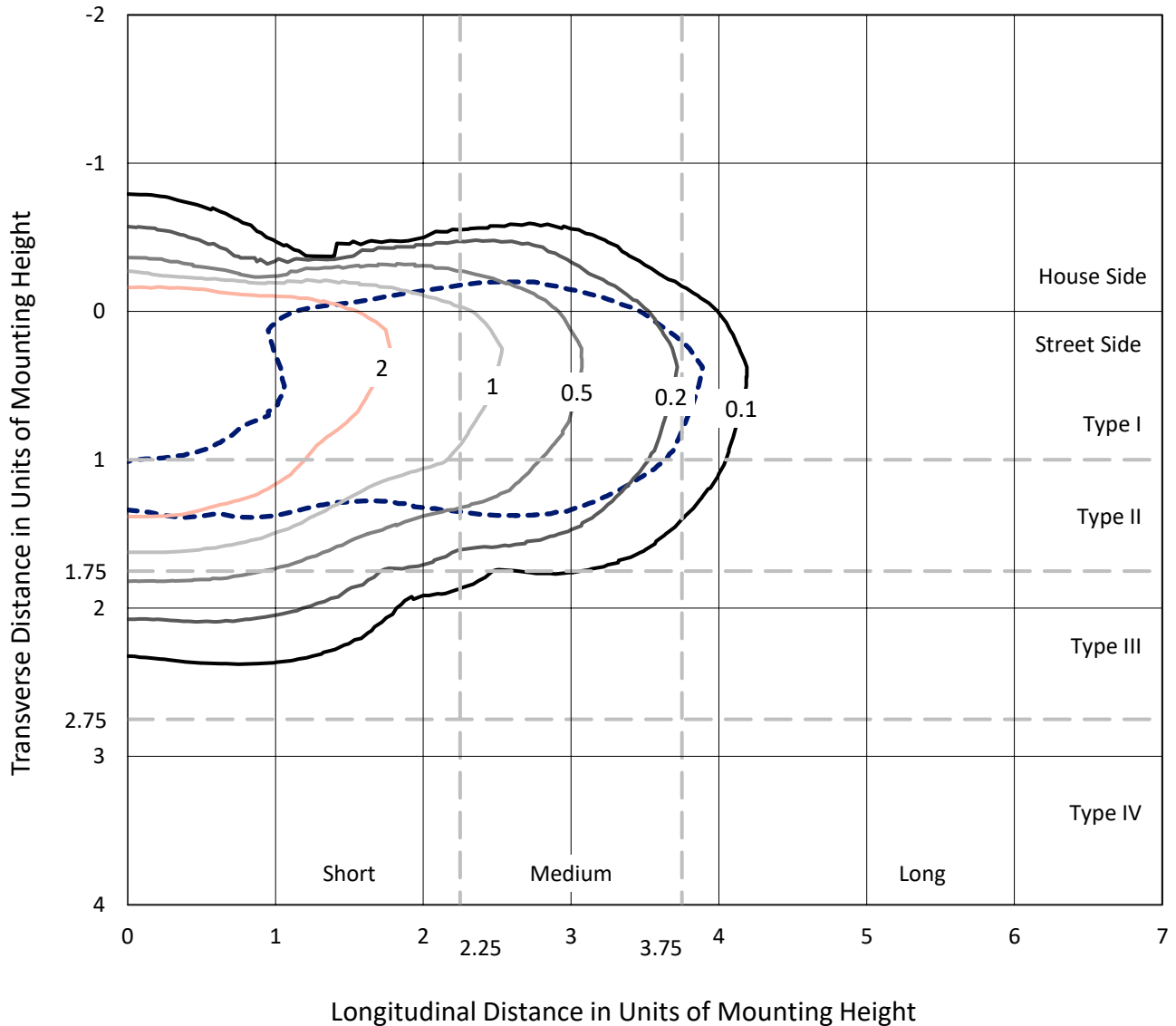
Lumens per Lamp: N/A
Luminaire Lumens: 5278.4 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

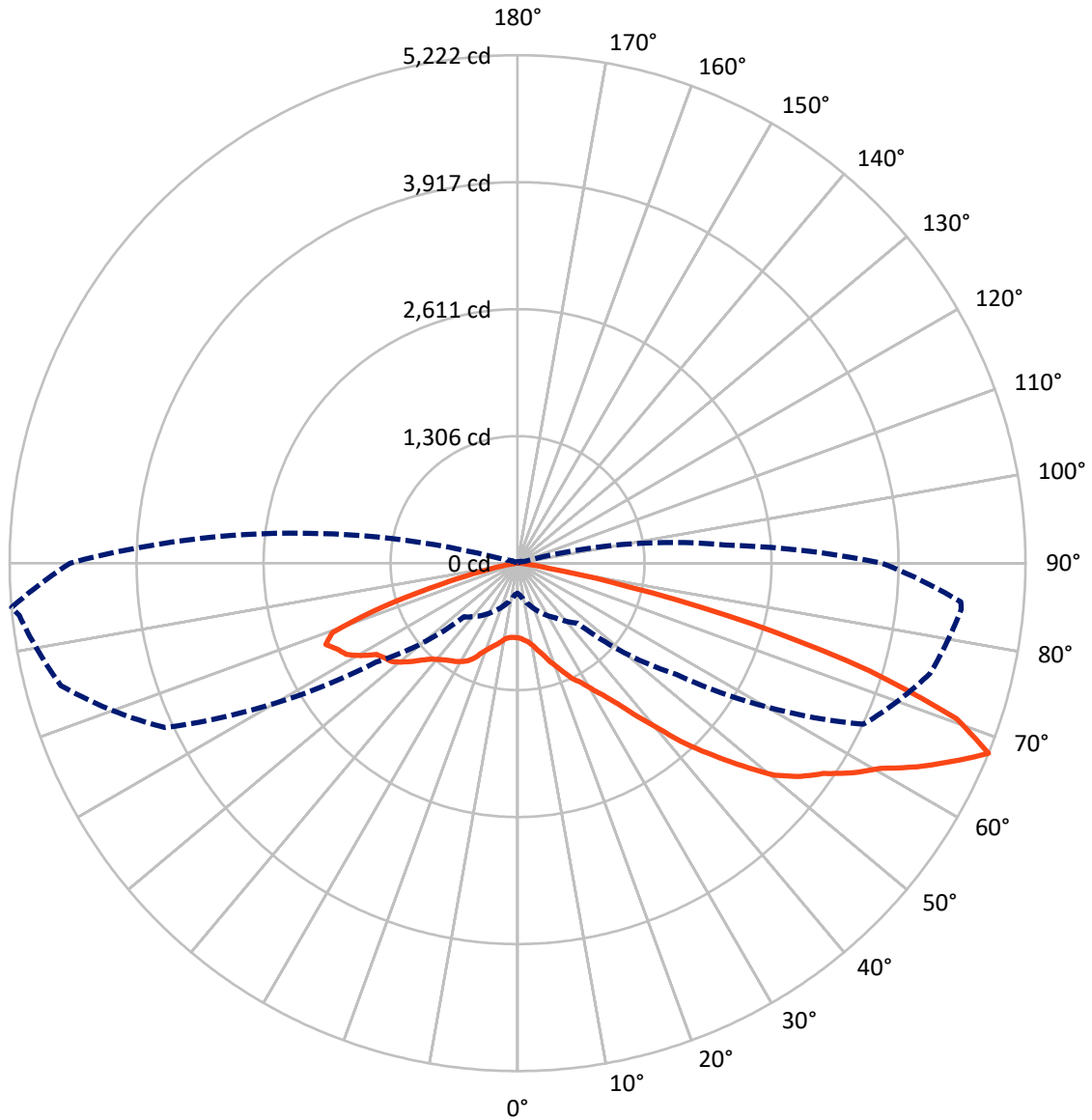
× Max cd
 - - - 1/2 Max cd



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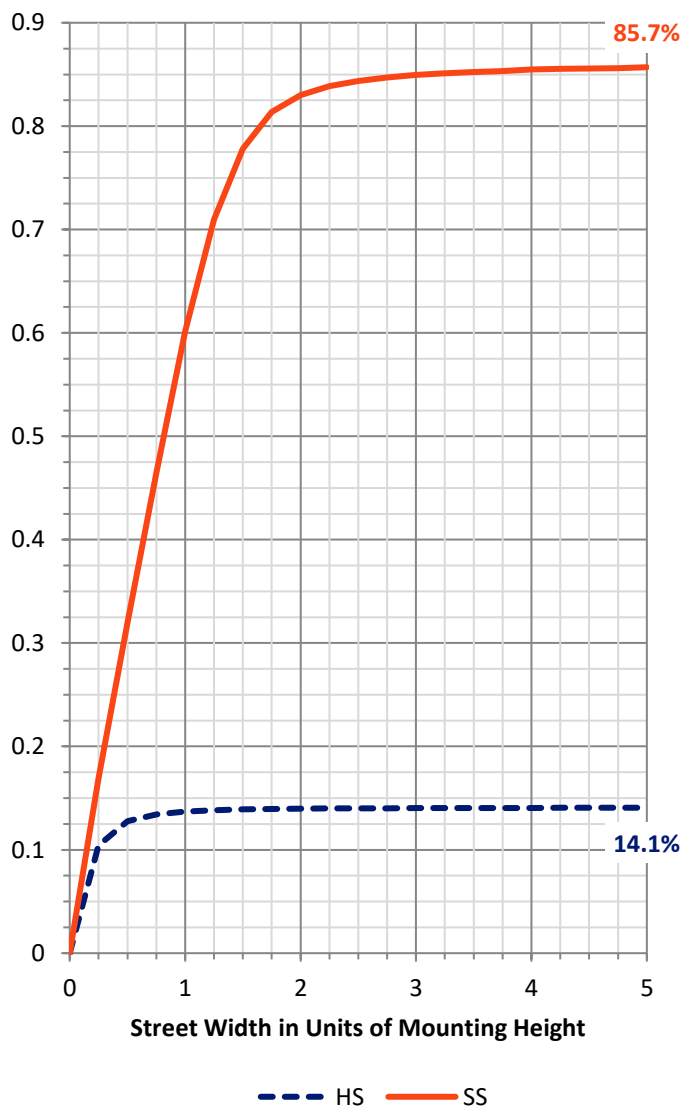
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.9	0.0	749.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4528.6	0.0	4528.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	5278.4	0.0	5278.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	188.2	3.6
20°-30°	312.6	5.9
30°-40°	537.7	10.2
40°-50°	966.3	18.3
50°-60°	1375.7	26.1
60°-70°	1254.2	23.8
70°-80°	534.0	10.1
80°-90°	39.8	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°	5278.4	100.0
0°-180°	5278.4	100.0

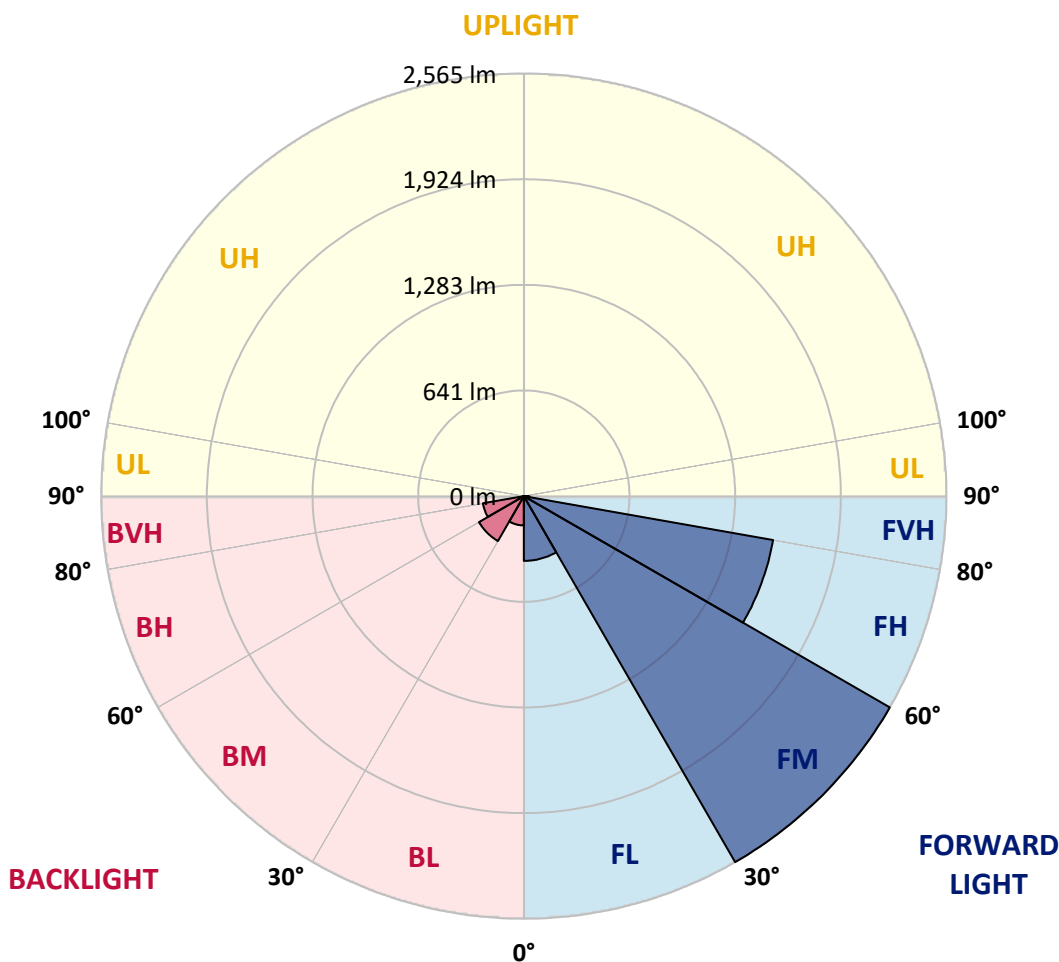


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.2	7.4			
FM (30°-60°)	2565.3	48.6			
FH (60°-80°)	1536.2	29.1			G1/1800
FVH (80°-90°)	33.8	0.6			G1/100
BL (0°-30°)	177.5	3.4	B1/500		
BM (30°-60°)	314.4	6.0	B1/1000		
BH (60°-80°)	252.0	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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	795.2	802.8	802.8	800.3	792.7	787.7	785.2	780.1	775.1	775.1	777.6
5°	802.8	795.2	805.3	792.7	792.7	792.7	802.8	797.8	795.2	782.7	782.7
7.5°	802.8	795.2	795.2	802.8	795.2	800.3	812.9	807.8	817.9	795.2	800.3
10°	780.1	777.6	782.7	792.7	795.2	805.3	817.9	843.1	845.6	830.5	828.0
12.5°	734.8	732.3	749.9	755.0	785.2	810.3	848.1	868.2	890.9	883.3	868.2
15°	702.1	707.2	719.7	739.9	767.6	812.9	855.6	900.9	941.2	931.1	926.1
17.5°	714.7	712.2	714.7	727.3	762.5	807.8	880.8	933.7	991.5	991.5	996.6
20°	752.5	760.0	757.5	749.9	767.6	805.3	880.8	973.9	1069.6	1062.0	1062.0
22.5°	817.9	820.4	805.3	800.3	797.8	820.4	895.9	1024.3	1135.0	1150.1	1145.1
25°	885.8	888.4	883.3	868.2	848.1	853.1	923.6	1064.5	1225.6	1250.8	1245.7
27.5°	999.1	996.6	984.0	966.4	936.2	913.5	966.4	1094.7	1296.1	1338.8	1326.2
30°	1112.3	1104.8	1087.2	1064.5	1036.8	994.1	1019.2	1152.6	1384.1	1424.4	1396.7
32.5°	1250.8	1235.7	1240.7	1205.5	1147.6	1079.6	1074.6	1205.5	1454.6	1512.5	1489.8
35°	1426.9	1409.3	1384.1	1351.4	1296.1	1205.5	1177.8	1291.0	1572.9	1615.7	1615.7
37.5°	1658.4	1676.1	1645.9	1510.0	1449.6	1364.0	1306.1	1379.1	1676.1	1779.2	1754.1
40°	1895.0	1910.1	1854.7	1754.1	1623.2	1517.5	1482.3	1522.5	1832.1	1955.4	1907.6
42.5°	2086.3	2106.4	2086.3	1955.4	1852.2	1716.3	1653.4	1691.2	2033.4	2181.9	2119.0
45°	2287.6	2307.7	2285.1	2199.5	2098.8	2020.8	1862.3	1910.1	2244.8	2466.3	2395.8
47.5°	2438.6	2463.8	2423.5	2405.9	2325.3	2312.8	2043.5	2096.3	2466.3	2753.2	2665.1
50°	2473.8	2501.5	2536.7	2556.9	2529.2	2559.4	2287.6	2332.9	2697.8	3017.4	2931.8
52.5°	2390.8	2418.5	2496.5	2589.6	2717.9	2808.5	2534.2	2572.0	2939.4	3236.4	3191.1
55°	2146.7	2171.8	2330.4	2456.2	2763.2	2911.7	2770.8	2929.3	3113.0	3465.4	3354.6
57.5°	1736.5	1766.7	1975.5	2169.3	2612.2	2853.8	2911.7	3226.3	3399.9	3634.0	3505.6
60°	1233.1	1250.8	1431.9	1774.2	2194.5	2564.4	2884.0	3447.7	3626.4	3860.5	3792.5
62.5°	709.7	724.8	913.5	1235.7	1655.9	2141.6	2760.7	3656.6	3870.5	4109.6	4071.9
65°	470.6	475.6	604.0	780.1	1077.1	1577.9	2448.7	3842.9	4112.1	4308.4	4265.6
67.5°	309.5	337.2	437.9	558.7	689.5	873.3	1995.7	3920.9	4389.0	4585.3	4575.2
70°	221.5	231.5	314.6	430.3	518.4	490.7	1167.7	3369.7	4376.4	4660.7	4577.7
72.5°	130.9	140.9	208.9	322.1	407.7	312.1	546.1	2383.2	3626.4	3719.5	3696.9
75°	95.6	95.6	128.3	231.5	297.0	224.0	256.7	1507.4	2408.4	2614.8	2612.2
77.5°	67.9	70.5	88.1	138.4	229.0	163.6	140.9	838.0	1316.2	1439.5	1371.5
80°	40.3	42.8	60.4	83.0	166.1	118.3	93.1	382.5	505.8	510.9	485.7
82.5°	30.2	30.2	40.3	57.9	115.8	80.5	57.9	146.0	163.6	148.5	125.8
85°	17.6	15.1	30.2	42.8	67.9	45.3	40.3	67.9	75.5	55.4	50.3
87.5°	5.0	5.0	12.6	15.1	30.2	25.2	17.6	25.2	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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	772.6	765.0	752.5	747.4	729.8	722.3	717.2	704.6	707.2	699.6	699.6
5°	765.0	765.0	739.9	712.2	684.5	666.9	646.8	621.6	621.6	611.5	614.1
7.5°	792.7	772.6	739.9	689.5	644.3	604.0	586.4	561.2	546.1	538.6	538.6
10°	810.3	790.2	734.8	674.4	616.6	566.2	528.5	493.3	473.1	473.1	470.6
12.5°	858.2	828.0	755.0	671.9	586.4	510.9	453.0	412.7	385.0	364.9	369.9
15°	898.4	865.7	765.0	651.8	533.5	427.8	357.4	281.9	244.1	224.0	216.4
17.5°	961.3	900.9	787.7	616.6	453.0	334.7	231.5	168.6	153.5	151.0	151.0
20°	1014.2	943.7	790.2	548.6	372.5	213.9	148.5	138.4	130.9	128.3	125.8
22.5°	1087.2	999.1	780.1	470.6	266.8	143.4	125.8	115.8	110.7	103.2	103.2
25°	1162.7	1072.1	760.0	397.6	163.6	123.3	110.7	100.7	90.6	85.6	88.1
27.5°	1243.2	1127.4	702.1	309.5	125.8	108.2	90.6	83.0	78.0	75.5	75.5
30°	1308.6	1162.7	616.6	206.4	113.2	95.6	80.5	73.0	67.9	65.4	65.4
32.5°	1356.4	1192.9	520.9	138.4	103.2	85.6	73.0	65.4	60.4	57.9	57.9
35°	1437.0	1215.5	432.9	118.3	93.1	75.5	62.9	57.9	52.8	52.8	52.8
37.5°	1560.3	1245.7	344.8	108.2	85.6	67.9	60.4	52.8	50.3	47.8	47.8
40°	1668.5	1283.5	246.6	98.1	78.0	62.9	52.8	47.8	45.3	42.8	42.8
42.5°	1824.5	1326.2	161.1	88.1	70.5	57.9	47.8	42.8	40.3	37.7	37.7
45°	2023.3	1396.7	125.8	78.0	62.9	52.8	45.3	40.3	35.2	35.2	32.7
47.5°	2234.7	1482.3	113.2	73.0	57.9	47.8	40.3	35.2	32.7	30.2	30.2
50°	2431.0	1565.3	105.7	67.9	52.8	45.3	37.7	32.7	27.7	25.2	25.2
52.5°	2607.2	1643.3	100.7	62.9	50.3	40.3	32.7	27.7	25.2	22.6	22.6
55°	2700.3	1678.6	98.1	60.4	45.3	37.7	30.2	25.2	22.6	20.1	20.1
57.5°	2846.3	1723.9	95.6	57.9	42.8	32.7	27.7	22.6	20.1	17.6	17.6
60°	3082.8	1872.4	93.1	55.4	40.3	32.7	25.2	20.1	15.1	12.6	12.6
62.5°	3279.1	1995.7	83.0	47.8	35.2	27.7	20.1	15.1	10.1	7.5	7.5
65°	3503.1	2053.5	73.0	42.8	30.2	22.6	15.1	10.1	7.5	2.5	2.5
67.5°	3747.2	2141.6	60.4	37.7	27.7	17.6	12.6	7.5	2.5	0.0	0.0
70°	3618.9	2030.9	50.3	32.7	25.2	15.1	10.1	5.0	0.0	0.0	0.0
72.5°	2836.2	1454.6	40.3	30.2	22.6	15.1	10.1	2.5	0.0	0.0	0.0
75°	1895.0	822.9	35.2	25.2	17.6	12.6	7.5	2.5	0.0	0.0	0.0
77.5°	1029.3	369.9	30.2	22.6	15.1	10.1	7.5	2.5	0.0	0.0	0.0
80°	334.7	146.0	25.2	20.1	15.1	10.1	7.5	2.5	0.0	0.0	0.0
82.5°	90.6	45.3	25.2	20.1	15.1	10.1	7.5	2.5	0.0	0.0	0.0
85°	37.7	30.2	25.2	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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	702.1	707.2	709.7	709.7	722.3	734.8	749.9	762.5	762.5	770.1	777.6
5°	616.6	621.6	629.2	651.8	677.0	704.6	732.3	752.5	780.1	792.7	800.3
7.5°	546.1	551.1	571.3	593.9	629.2	677.0	724.8	770.1	797.8	810.3	820.4
10°	473.1	480.7	503.3	543.6	588.9	646.8	702.1	780.1	825.4	850.6	860.7
12.5°	367.4	387.6	417.8	460.5	518.4	606.5	709.7	790.2	868.2	898.4	918.6
15°	231.5	249.1	297.0	364.9	442.9	546.1	689.5	805.3	913.5	943.7	976.4
17.5°	148.5	151.0	166.1	239.1	339.7	470.6	659.3	828.0	963.9	1006.6	1057.0
20°	125.8	130.9	133.4	143.4	226.5	387.6	596.4	855.6	1024.3	1082.1	1130.0
22.5°	105.7	108.2	113.2	120.8	135.9	281.9	510.9	855.6	1077.1	1162.7	1218.0
25°	85.6	90.6	95.6	103.2	118.3	176.2	422.8	840.5	1140.0	1245.7	1316.2
27.5°	75.5	75.5	80.5	88.1	100.7	123.3	334.7	795.2	1187.8	1296.1	1389.2
30°	65.4	67.9	70.5	78.0	90.6	108.2	231.5	722.3	1238.2	1394.2	1499.9
32.5°	57.9	57.9	62.9	67.9	80.5	98.1	148.5	611.5	1303.6	1469.7	1618.2
35°	52.8	52.8	55.4	60.4	73.0	88.1	115.8	518.4	1381.6	1613.1	1776.7
37.5°	47.8	47.8	50.3	55.4	65.4	78.0	105.7	445.4	1462.1	1756.6	1995.7
40°	42.8	42.8	45.3	50.3	57.9	70.5	95.6	359.9	1562.8	1968.0	2234.7
42.5°	37.7	37.7	40.3	45.3	52.8	62.9	83.0	269.3	1696.2	2197.0	2544.3
45°	32.7	32.7	35.2	40.3	45.3	57.9	75.5	206.4	1842.2	2451.2	2816.1
47.5°	27.7	30.2	32.7	37.7	42.8	52.8	67.9	181.2	1985.6	2720.4	3118.1
50°	25.2	25.2	27.7	32.7	40.3	47.8	62.9	178.7	2131.6	2926.8	3427.6
52.5°	22.6	22.6	25.2	30.2	37.7	45.3	60.4	183.7	2252.4	3118.1	3644.0
55°	20.1	20.1	22.6	25.2	32.7	42.8	55.4	188.7	2337.9	3311.8	3817.7
57.5°	17.6	17.6	20.1	25.2	30.2	37.7	50.3	193.8	2476.3	3503.1	4069.3
60°	12.6	12.6	17.6	22.6	27.7	32.7	47.8	198.8	2697.8	3767.4	4283.3
62.5°	7.5	7.5	10.1	17.6	22.6	30.2	42.8	188.7	2904.2	4107.1	4610.4
65°	2.5	5.0	7.5	10.1	17.6	25.2	35.2	171.1	3077.8	4446.8	4912.4
67.5°	0.0	0.0	2.5	7.5	15.1	20.1	30.2	125.8	3105.5	4600.3	5222.0
70°	0.0	0.0	2.5	7.5	12.6	20.1	27.7	70.5	2644.9	4109.6	4786.6
72.5°	0.0	0.0	0.0	5.0	12.6	17.6	25.2	52.8	1950.4	3097.9	3782.5
75°	0.0	0.0	0.0	2.5	10.1	15.1	22.6	40.3	1185.3	2066.1	2468.8
77.5°	0.0	0.0	0.0	2.5	7.5	15.1	22.6	35.2	417.8	984.0	1160.2
80°	0.0	0.0	0.0	5.0	10.1	15.1	20.1	30.2	100.7	246.6	332.2
82.5°	0.0	0.0	0.0	2.5	7.5	12.6	17.6	25.2	40.3	73.0	115.8
85°	0.0	0.0	0.0	2.5	5.0	12.6	17.6	22.6	27.7	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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	775.1	785.2	790.2	800.3	805.3	802.8	800.3	807.8	802.8	795.2
5°	802.8	802.8	810.3	812.9	812.9	805.3	810.3	807.8	802.8	802.8
7.5°	833.0	845.6	845.6	830.5	828.0	822.9	822.9	802.8	795.2	802.8
10°	863.2	873.3	875.8	858.2	835.5	825.4	812.9	787.7	775.1	780.1
12.5°	926.1	926.1	898.4	878.3	848.1	812.9	782.7	747.4	729.8	734.8
15°	971.4	981.5	943.7	898.4	845.6	780.1	747.4	719.7	709.7	702.1
17.5°	1059.5	1039.4	979.0	913.5	838.0	770.1	747.4	722.3	714.7	714.7
20°	1135.0	1124.9	1034.3	916.0	835.5	790.2	775.1	762.5	760.0	752.5
22.5°	1238.2	1192.9	1077.1	943.7	863.2	822.9	817.9	830.5	822.9	817.9
25°	1316.2	1278.4	1109.8	984.0	906.0	893.4	900.9	913.5	893.4	885.8
27.5°	1421.9	1351.4	1172.7	1036.8	963.9	976.4	1001.6	1004.1	991.5	999.1
30°	1520.0	1444.5	1220.6	1097.2	1062.0	1074.6	1112.3	1140.0	1122.4	1112.3
32.5°	1661.0	1545.2	1316.2	1197.9	1185.3	1218.0	1260.8	1278.4	1255.8	1250.8
35°	1809.4	1661.0	1414.3	1311.2	1333.8	1379.1	1416.8	1447.0	1411.8	1426.9
37.5°	2041.0	1847.2	1580.4	1489.8	1499.9	1517.5	1588.0	1671.0	1688.6	1658.4
40°	2282.6	2048.5	1733.9	1663.5	1686.1	1733.9	1817.0	1895.0	1935.3	1895.0
42.5°	2561.9	2242.3	1970.5	1887.5	1910.1	1978.0	2088.8	2151.7	2146.7	2086.3
45°	2906.7	2511.6	2192.0	2088.8	2171.8	2232.2	2343.0	2350.5	2302.7	2287.6
47.5°	3170.9	2738.1	2431.0	2365.6	2478.9	2481.4	2506.5	2509.1	2456.2	2438.6
50°	3462.8	2999.8	2697.8	2602.2	2793.4	2705.3	2637.4	2592.1	2511.6	2473.8
52.5°	3749.7	3186.0	2944.4	2846.3	3045.1	2811.0	2687.7	2549.3	2431.0	2390.8
55°	3903.3	3493.0	3304.3	3075.3	3100.5	2841.2	2531.7	2358.1	2156.7	2146.7
57.5°	4084.4	3699.4	3608.8	3231.3	3007.3	2629.8	2207.1	1978.0	1761.6	1736.5
60°	4298.4	4026.6	3930.9	3206.2	2677.7	2209.6	1749.0	1454.6	1250.8	1233.1
62.5°	4537.4	4414.1	4129.7	2959.5	2126.5	1555.3	1155.1	908.5	719.7	709.7
65°	4914.9	4738.8	4235.4	2491.4	1406.8	996.6	767.6	588.9	475.6	470.6
67.5°	5151.5	4862.1	3998.9	1776.7	780.1	659.3	538.6	427.8	329.7	309.5
70°	4816.8	4461.9	3163.4	1016.7	453.0	500.8	415.2	286.9	226.5	221.5
72.5°	3847.9	3311.8	2129.0	478.2	281.9	392.6	302.0	193.8	135.9	130.9
75°	2624.8	2083.7	1336.3	221.5	198.8	286.9	221.5	113.2	95.6	95.6
77.5°	1172.7	1062.0	684.5	135.9	148.5	218.9	128.3	78.0	70.5	67.9
80°	357.4	375.0	279.3	93.1	110.7	166.1	78.0	52.8	42.8	40.3
82.5°	120.8	140.9	125.8	55.4	75.5	118.3	52.8	35.2	30.2	30.2
85°	57.9	70.5	62.9	35.2	40.3	57.9	42.8	27.7	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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