

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: P676275

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676275
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-740-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

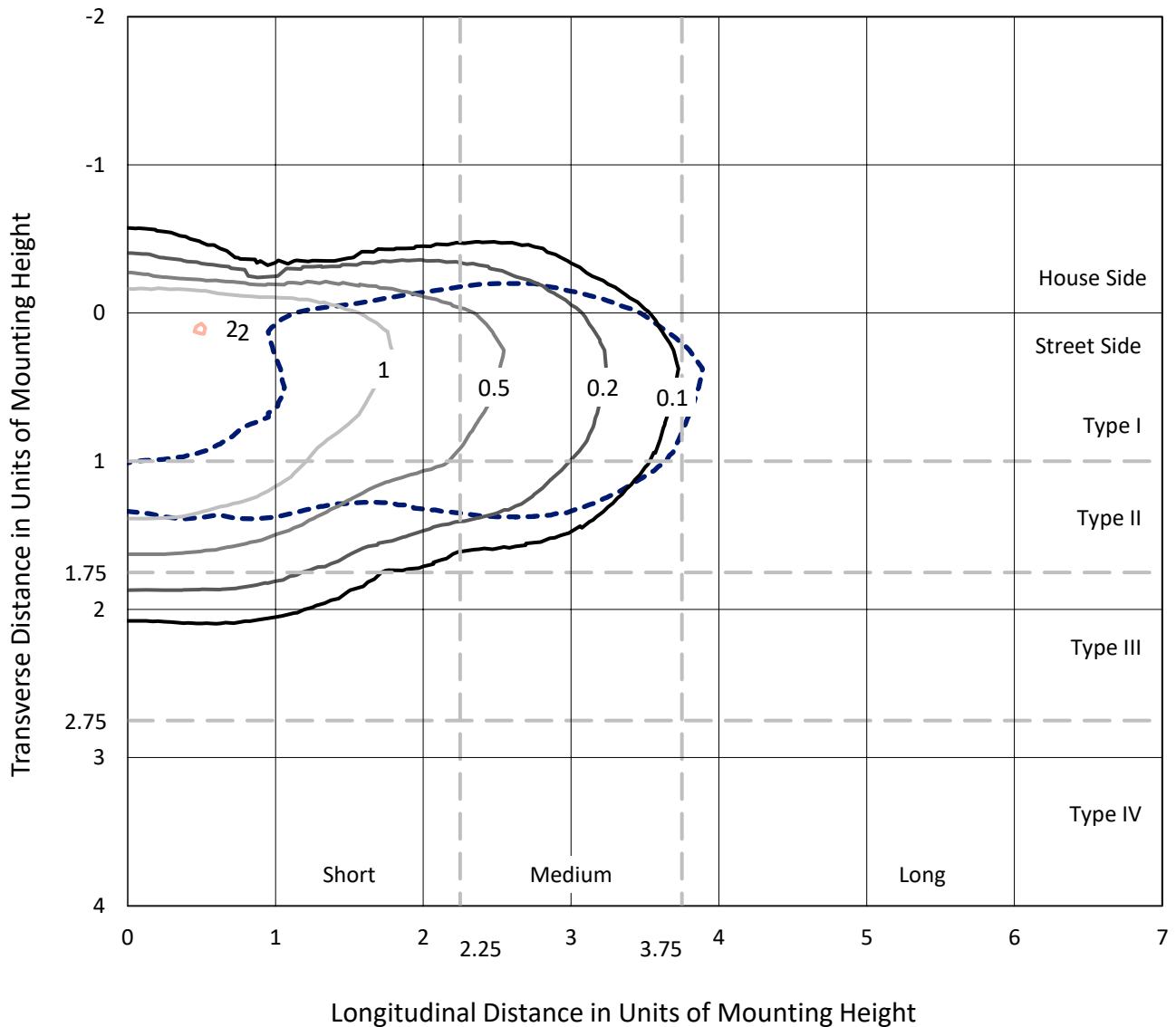
Lumens per Lamp: N/A
Luminaire Lumens: 2666.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

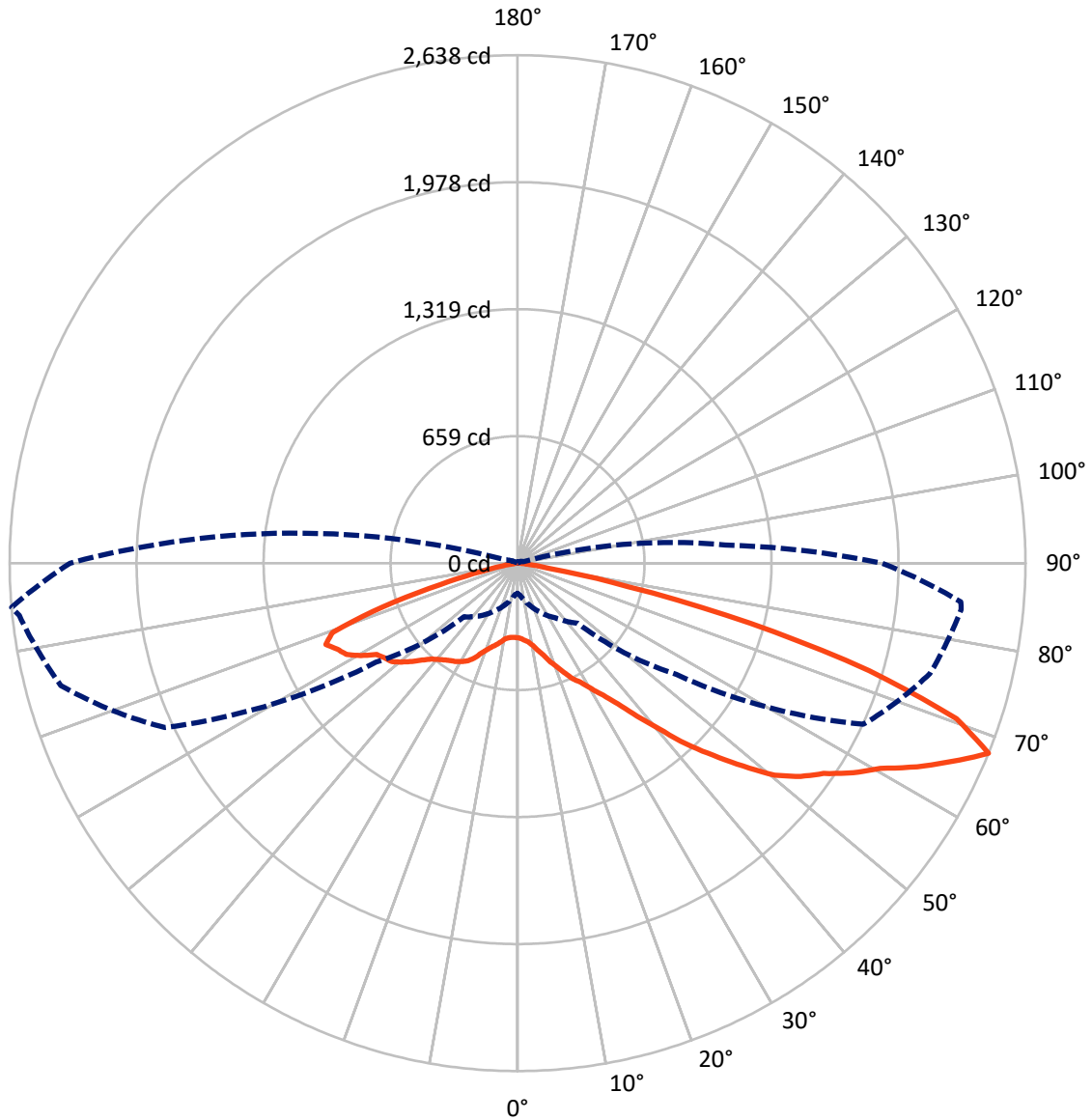
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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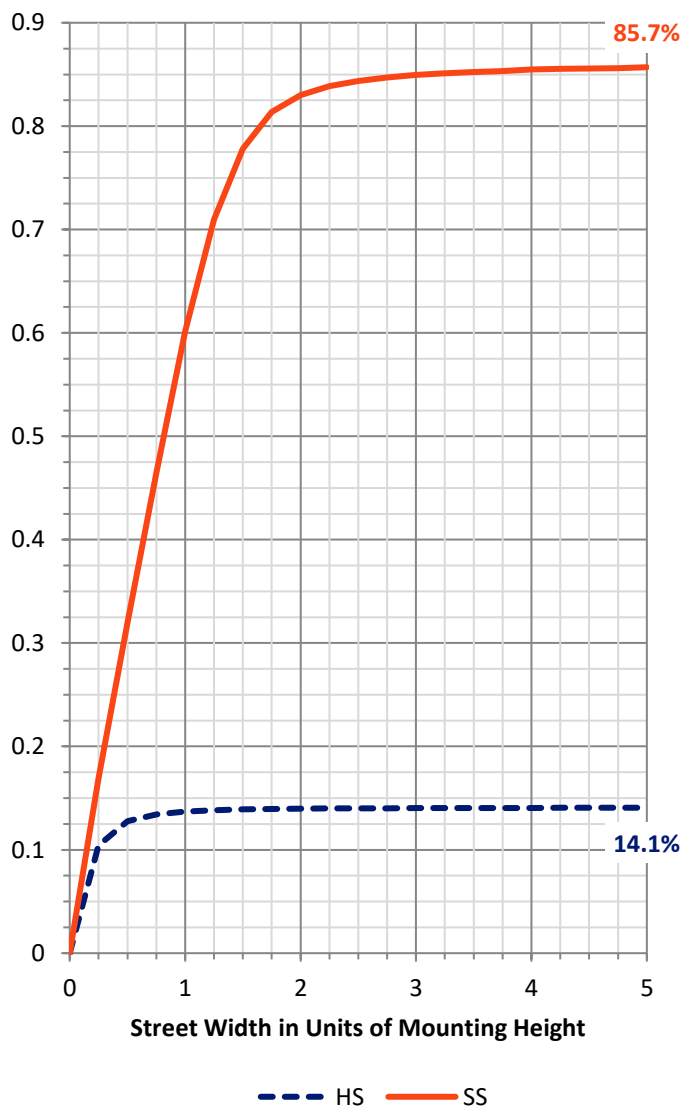
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.8	0.0	378.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2287.5	0.0	2287.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	2666.3	0.0	2666.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	1.3
10°-20°	95.1	3.6
20°-30°	157.9	5.9
30°-40°	271.6	10.2
40°-50°	488.1	18.3
50°-60°	694.9	26.1
60°-70°	633.5	23.8
70°-80°	269.8	10.1
80°-90°	20.1	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°	2666.3	100.0
0°-180°	2666.3	100.0



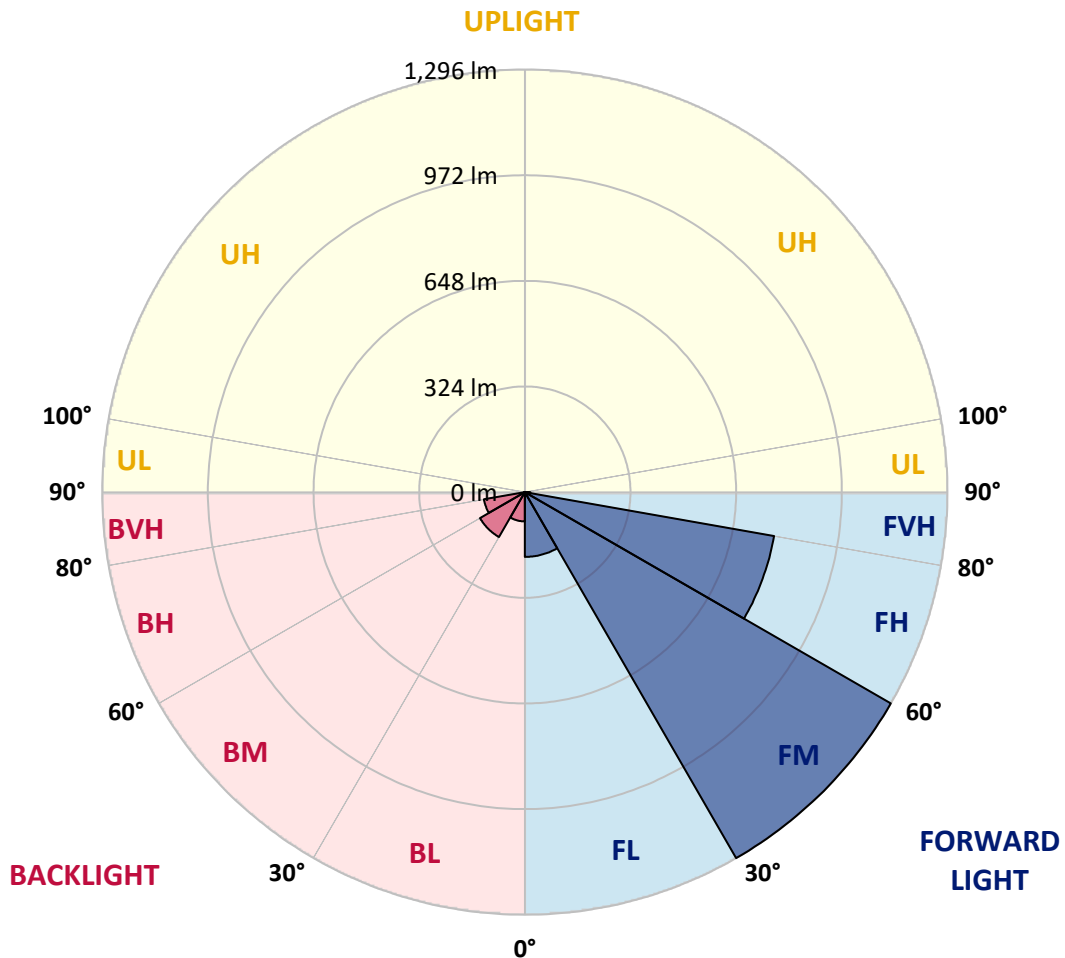
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.6	7.4			
FM (30°-60°)	1295.8	48.6			
FH (60°-80°)	776.0	29.1			G1/1800
FVH (80°-90°)	17.1	0.6			G1/100
BL (0°-30°)	89.7	3.4	B0/110		
BM (30°-60°)	158.8	6.0	B0/220		
BH (60°-80°)	127.3	4.8	B1/500		G1/500
BVH (80°-90°)	3.0	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°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
2.5°	401.7	405.5	405.5	404.2	400.4	397.9	396.6	394.1	391.5	391.5	392.8
5°	405.5	401.7	406.8	400.4	400.4	400.4	405.5	403.0	401.7	395.3	395.3
7.5°	405.5	401.7	401.7	405.5	401.7	404.2	410.6	408.1	413.1	401.7	404.2
10°	394.1	392.8	395.3	400.4	401.7	406.8	413.1	425.9	427.1	419.5	418.2
12.5°	371.2	369.9	378.8	381.4	396.6	409.3	428.4	438.6	450.0	446.2	438.6
15°	354.7	357.2	363.6	373.7	387.7	410.6	432.2	455.1	475.4	470.4	467.8
17.5°	361.0	359.8	361.0	367.4	385.2	408.1	444.9	471.6	500.9	500.9	503.4
20°	380.1	383.9	382.6	378.8	387.7	406.8	444.9	492.0	540.3	536.5	536.5
22.5°	413.1	414.4	406.8	404.2	403.0	414.4	452.6	517.4	573.3	580.9	578.4
25°	447.5	448.7	446.2	438.6	428.4	430.9	466.5	537.7	619.1	631.8	629.3
27.5°	504.7	503.4	497.0	488.1	472.9	461.5	488.1	553.0	654.7	676.3	669.9
30°	561.9	558.1	549.2	537.7	523.7	502.1	514.8	582.2	699.2	719.5	705.5
32.5°	631.8	624.2	626.7	608.9	579.7	545.4	542.8	608.9	734.8	764.0	752.6
35°	720.8	711.9	699.2	682.6	654.7	608.9	594.9	652.1	794.5	816.1	816.1
37.5°	837.7	846.6	831.4	762.7	732.2	689.0	659.8	696.6	846.6	898.8	886.0
40°	957.2	964.9	936.9	886.0	819.9	766.5	748.7	769.1	925.4	987.7	963.6
42.5°	1053.8	1064.0	1053.8	987.7	935.6	867.0	835.2	854.3	1027.1	1102.1	1070.4
45°	1155.5	1165.7	1154.3	1111.0	1060.2	1020.8	940.7	964.9	1133.9	1245.8	1210.2
47.5°	1231.8	1244.5	1224.2	1215.3	1174.6	1168.2	1032.2	1058.9	1245.8	1390.7	1346.2
50°	1249.6	1263.6	1281.4	1291.6	1277.6	1292.8	1155.5	1178.4	1362.7	1524.2	1481.0
52.5°	1207.7	1221.6	1261.0	1308.1	1372.9	1418.7	1280.1	1299.2	1484.8	1634.8	1611.9
55°	1084.3	1097.1	1177.1	1240.7	1395.8	1470.8	1399.6	1479.7	1572.5	1750.5	1694.5
57.5°	877.1	892.4	997.9	1095.8	1319.5	1441.6	1470.8	1629.7	1717.4	1835.6	1770.8
60°	622.9	631.8	723.3	896.2	1108.5	1295.4	1456.8	1741.6	1831.8	1950.0	1915.7
62.5°	358.5	366.1	461.5	624.2	836.5	1081.8	1394.5	1847.1	1955.1	2075.9	2056.8
65°	237.7	240.3	305.1	394.1	544.1	797.1	1236.9	1941.1	2077.2	2176.3	2154.7
67.5°	156.4	170.3	221.2	282.2	348.3	441.1	1008.1	1980.6	2217.0	2316.2	2311.1
70°	111.9	117.0	158.9	217.4	261.9	247.9	589.8	1702.2	2210.6	2354.3	2312.3
72.5°	66.1	71.2	105.5	162.7	205.9	157.6	275.9	1203.8	1831.8	1878.9	1867.4
75°	48.3	48.3	64.8	117.0	150.0	113.1	129.7	761.5	1216.6	1320.8	1319.5
77.5°	34.3	35.6	44.5	69.9	115.7	82.6	71.2	423.3	664.8	727.1	692.8
80°	20.3	21.6	30.5	42.0	83.9	59.7	47.0	193.2	255.5	258.1	245.3
82.5°	15.3	15.3	20.3	29.2	58.5	40.7	29.2	73.7	82.6	75.0	63.6
85°	8.9	7.6	15.3	21.6	34.3	22.9	20.3	34.3	38.1	28.0	25.4
87.5°	2.5	2.5	6.4	7.6	15.3	12.7	8.9	12.7	17.8	10.2	7.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
2.5°	390.3	386.4	380.1	377.6	368.7	364.8	362.3	355.9	357.2	353.4	353.4
5°	386.4	386.4	373.7	359.8	345.8	336.9	326.7	314.0	314.0	308.9	310.2
7.5°	400.4	390.3	373.7	348.3	325.4	305.1	296.2	283.5	275.9	272.0	272.0
10°	409.3	399.2	371.2	340.7	311.4	286.0	267.0	249.2	239.0	239.0	237.7
12.5°	433.5	418.2	381.4	339.4	296.2	258.1	228.8	208.5	194.5	184.3	186.9
15°	453.8	437.3	386.4	329.2	269.5	216.1	180.5	142.4	123.3	113.1	109.3
17.5°	485.6	455.1	397.9	311.4	228.8	169.1	117.0	85.2	77.5	76.3	76.3
20°	512.3	476.7	399.2	277.1	188.1	108.1	75.0	69.9	66.1	64.8	63.6
22.5°	549.2	504.7	394.1	237.7	134.7	72.5	63.6	58.5	55.9	52.1	52.1
25°	587.3	541.5	383.9	200.9	82.6	62.3	55.9	50.8	45.8	43.2	44.5
27.5°	628.0	569.5	354.7	156.4	63.6	54.7	45.8	42.0	39.4	38.1	38.1
30°	661.0	587.3	311.4	104.2	57.2	48.3	40.7	36.9	34.3	33.1	33.1
32.5°	685.2	602.6	263.1	69.9	52.1	43.2	36.9	33.1	30.5	29.2	29.2
35°	725.9	614.0	218.6	59.7	47.0	38.1	31.8	29.2	26.7	26.7	26.7
37.5°	788.2	629.3	174.2	54.7	43.2	34.3	30.5	26.7	25.4	24.2	24.2
40°	842.8	648.3	124.6	49.6	39.4	31.8	26.7	24.2	22.9	21.6	21.6
42.5°	921.6	669.9	81.4	44.5	35.6	29.2	24.2	21.6	20.3	19.1	19.1
45°	1022.1	705.5	63.6	39.4	31.8	26.7	22.9	20.3	17.8	17.8	16.5
47.5°	1128.8	748.7	57.2	36.9	29.2	24.2	20.3	17.8	16.5	15.3	15.3
50°	1228.0	790.7	53.4	34.3	26.7	22.9	19.1	16.5	14.0	12.7	12.7
52.5°	1317.0	830.1	50.8	31.8	25.4	20.3	16.5	14.0	12.7	11.4	11.4
55°	1364.0	847.9	49.6	30.5	22.9	19.1	15.3	12.7	11.4	10.2	10.2
57.5°	1437.7	870.8	48.3	29.2	21.6	16.5	14.0	11.4	10.2	8.9	8.9
60°	1557.2	945.8	47.0	28.0	20.3	16.5	12.7	10.2	7.6	6.4	6.4
62.5°	1656.4	1008.1	42.0	24.2	17.8	14.0	10.2	7.6	5.1	3.8	3.8
65°	1769.5	1037.3	36.9	21.6	15.3	11.4	7.6	5.1	3.8	1.3	1.3
67.5°	1892.8	1081.8	30.5	19.1	14.0	8.9	6.4	3.8	1.3	0.0	0.0
70°	1828.0	1025.9	25.4	16.5	12.7	7.6	5.1	2.5	0.0	0.0	0.0
72.5°	1432.7	734.8	20.3	15.3	11.4	7.6	5.1	1.3	0.0	0.0	0.0
75°	957.2	415.7	17.8	12.7	8.9	6.4	3.8	1.3	0.0	0.0	0.0
77.5°	519.9	186.9	15.3	11.4	7.6	5.1	3.8	1.3	0.0	0.0	0.0
80°	169.1	73.7	12.7	10.2	7.6	5.1	3.8	1.3	0.0	0.0	0.0
82.5°	45.8	22.9	12.7	10.2	7.6	5.1	3.8	1.3	0.0	0.0	0.0
85°	19.1	15.3	12.7	10.2	7.6	5.1	3.8	1.3	0.0	0.0	0.0
87.5°	7.6	5.1	5.1	6.4	5.1	3.8	2.5	1.3	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°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
2.5°	354.7	357.2	358.5	358.5	364.8	371.2	378.8	385.2	385.2	389.0	392.8
5°	311.4	314.0	317.8	329.2	342.0	355.9	369.9	380.1	394.1	400.4	404.2
7.5°	275.9	278.4	288.6	300.0	317.8	342.0	366.1	389.0	403.0	409.3	414.4
10°	239.0	242.8	254.2	274.6	297.5	326.7	354.7	394.1	417.0	429.7	434.8
12.5°	185.6	195.8	211.0	232.6	261.9	306.4	358.5	399.2	438.6	453.8	464.0
15°	117.0	125.9	150.0	184.3	223.7	275.9	348.3	406.8	461.5	476.7	493.2
17.5°	75.0	76.3	83.9	120.8	171.6	237.7	333.1	418.2	486.9	508.5	533.9
20°	63.6	66.1	67.4	72.5	114.4	195.8	301.3	432.2	517.4	546.6	570.8
22.5°	53.4	54.7	57.2	61.0	68.6	142.4	258.1	432.2	544.1	587.3	615.3
25°	43.2	45.8	48.3	52.1	59.7	89.0	213.6	424.6	575.9	629.3	664.8
27.5°	38.1	38.1	40.7	44.5	50.8	62.3	169.1	401.7	600.0	654.7	701.7
30°	33.1	34.3	35.6	39.4	45.8	54.7	117.0	364.8	625.4	704.3	757.6
32.5°	29.2	29.2	31.8	34.3	40.7	49.6	75.0	308.9	658.5	742.4	817.4
35°	26.7	26.7	28.0	30.5	36.9	44.5	58.5	261.9	697.9	814.8	897.5
37.5°	24.2	24.2	25.4	28.0	33.1	39.4	53.4	225.0	738.6	887.3	1008.1
40°	21.6	21.6	22.9	25.4	29.2	35.6	48.3	181.8	789.4	994.1	1128.8
42.5°	19.1	19.1	20.3	22.9	26.7	31.8	42.0	136.0	856.8	1109.8	1285.2
45°	16.5	16.5	17.8	20.3	22.9	29.2	38.1	104.2	930.5	1238.2	1422.5
47.5°	14.0	15.3	16.5	19.1	21.6	26.7	34.3	91.5	1003.0	1374.2	1575.0
50°	12.7	12.7	14.0	16.5	20.3	24.2	31.8	90.3	1076.7	1478.4	1731.4
52.5°	11.4	11.4	12.7	15.3	19.1	22.9	30.5	92.8	1137.7	1575.0	1840.7
55°	10.2	10.2	11.4	12.7	16.5	21.6	28.0	95.3	1181.0	1672.9	1928.4
57.5°	8.9	8.9	10.2	12.7	15.3	19.1	25.4	97.9	1250.9	1769.5	2055.6
60°	6.4	6.4	8.9	11.4	14.0	16.5	24.2	100.4	1362.7	1903.0	2163.6
62.5°	3.8	3.8	5.1	8.9	11.4	15.3	21.6	95.3	1467.0	2074.6	2328.9
65°	1.3	2.5	3.8	5.1	8.9	12.7	17.8	86.4	1554.7	2246.2	2481.4
67.5°	0.0	0.0	1.3	3.8	7.6	10.2	15.3	63.6	1568.7	2323.8	2637.8
70°	0.0	0.0	1.3	3.8	6.4	10.2	14.0	35.6	1336.0	2075.9	2417.9
72.5°	0.0	0.0	0.0	2.5	6.4	8.9	12.7	26.7	985.2	1564.9	1910.6
75°	0.0	0.0	0.0	1.3	5.1	7.6	11.4	20.3	598.7	1043.7	1247.1
77.5°	0.0	0.0	0.0	1.3	3.8	7.6	11.4	17.8	211.0	497.0	586.0
80°	0.0	0.0	0.0	2.5	5.1	7.6	10.2	15.3	50.8	124.6	167.8
82.5°	0.0	0.0	0.0	1.3	3.8	6.4	8.9	12.7	20.3	36.9	58.5
85°	0.0	0.0	0.0	1.3	2.5	6.4	8.9	11.4	14.0	17.8	25.4
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	3.8	5.1	5.1	5.1	8.9
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°	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7	387.7
2.5°	391.5	396.6	399.2	404.2	406.8	405.5	404.2	408.1	405.5	401.7
5°	405.5	405.5	409.3	410.6	410.6	406.8	409.3	408.1	405.5	405.5
7.5°	420.8	427.1	427.1	419.5	418.2	415.7	415.7	405.5	401.7	405.5
10°	436.0	441.1	442.4	433.5	422.0	417.0	410.6	397.9	391.5	394.1
12.5°	467.8	467.8	453.8	443.7	428.4	410.6	395.3	377.6	368.7	371.2
15°	490.7	495.8	476.7	453.8	427.1	394.1	377.6	363.6	358.5	354.7
17.5°	535.2	525.0	494.5	461.5	423.3	389.0	377.6	364.8	361.0	361.0
20°	573.3	568.2	522.5	462.7	422.0	399.2	391.5	385.2	383.9	380.1
22.5°	625.4	602.6	544.1	476.7	436.0	415.7	413.1	419.5	415.7	413.1
25°	664.8	645.8	560.6	497.0	457.6	451.3	455.1	461.5	451.3	447.5
27.5°	718.2	682.6	592.4	523.7	486.9	493.2	505.9	507.2	500.9	504.7
30°	767.8	729.7	616.5	554.3	536.5	542.8	561.9	575.9	567.0	561.9
32.5°	839.0	780.5	664.8	605.1	598.7	615.3	636.9	645.8	634.3	631.8
35°	914.0	839.0	714.4	662.3	673.7	696.6	715.7	730.9	713.2	720.8
37.5°	1031.0	933.1	798.3	752.6	757.6	766.5	802.1	844.1	853.0	837.7
40°	1153.0	1034.8	875.9	840.3	851.7	875.9	917.8	957.2	977.6	957.2
42.5°	1294.1	1132.7	995.4	953.4	964.9	999.2	1055.1	1086.9	1084.3	1053.8
45°	1468.3	1268.7	1107.2	1055.1	1097.1	1127.6	1183.5	1187.3	1163.2	1155.5
47.5°	1601.7	1383.1	1228.0	1194.9	1252.1	1253.4	1266.1	1267.4	1240.7	1231.8
50°	1749.2	1515.3	1362.7	1314.4	1411.1	1366.6	1332.2	1309.4	1268.7	1249.6
52.5°	1894.1	1609.4	1487.3	1437.7	1538.2	1419.9	1357.7	1287.7	1228.0	1207.7
55°	1971.7	1764.4	1669.1	1553.4	1566.1	1435.2	1278.8	1191.1	1089.4	1084.3
57.5°	2063.2	1868.7	1822.9	1632.2	1519.1	1328.4	1114.9	999.2	889.9	877.1
60°	2171.2	2033.9	1985.6	1619.5	1352.6	1116.1	883.5	734.8	631.8	622.9
62.5°	2292.0	2229.7	2086.1	1495.0	1074.2	785.6	583.5	458.9	363.6	358.5
65°	2482.7	2393.7	2139.5	1258.5	710.6	503.4	387.7	297.5	240.3	237.7
67.5°	2602.2	2456.0	2020.0	897.5	394.1	333.1	272.0	216.1	166.5	156.4
70°	2433.1	2253.9	1597.9	513.6	228.8	253.0	209.8	144.9	114.4	111.9
72.5°	1943.7	1672.9	1075.4	241.5	142.4	198.3	152.5	97.9	68.6	66.1
75°	1325.9	1052.6	675.0	111.9	100.4	144.9	111.9	57.2	48.3	48.3
77.5°	592.4	536.5	345.8	68.6	75.0	110.6	64.8	39.4	35.6	34.3
80°	180.5	189.4	141.1	47.0	55.9	83.9	39.4	26.7	21.6	20.3
82.5°	61.0	71.2	63.6	28.0	38.1	59.7	26.7	17.8	15.3	15.3
85°	29.2	35.6	31.8	17.8	20.3	29.2	21.6	14.0	8.9	8.9
87.5°	11.4	16.5	11.4	7.6	11.4	15.3	8.9	6.4	2.5	2.5
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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