

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: P675821

Luminaire Tested: **CCW-SA-1B-730-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675821
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-730-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

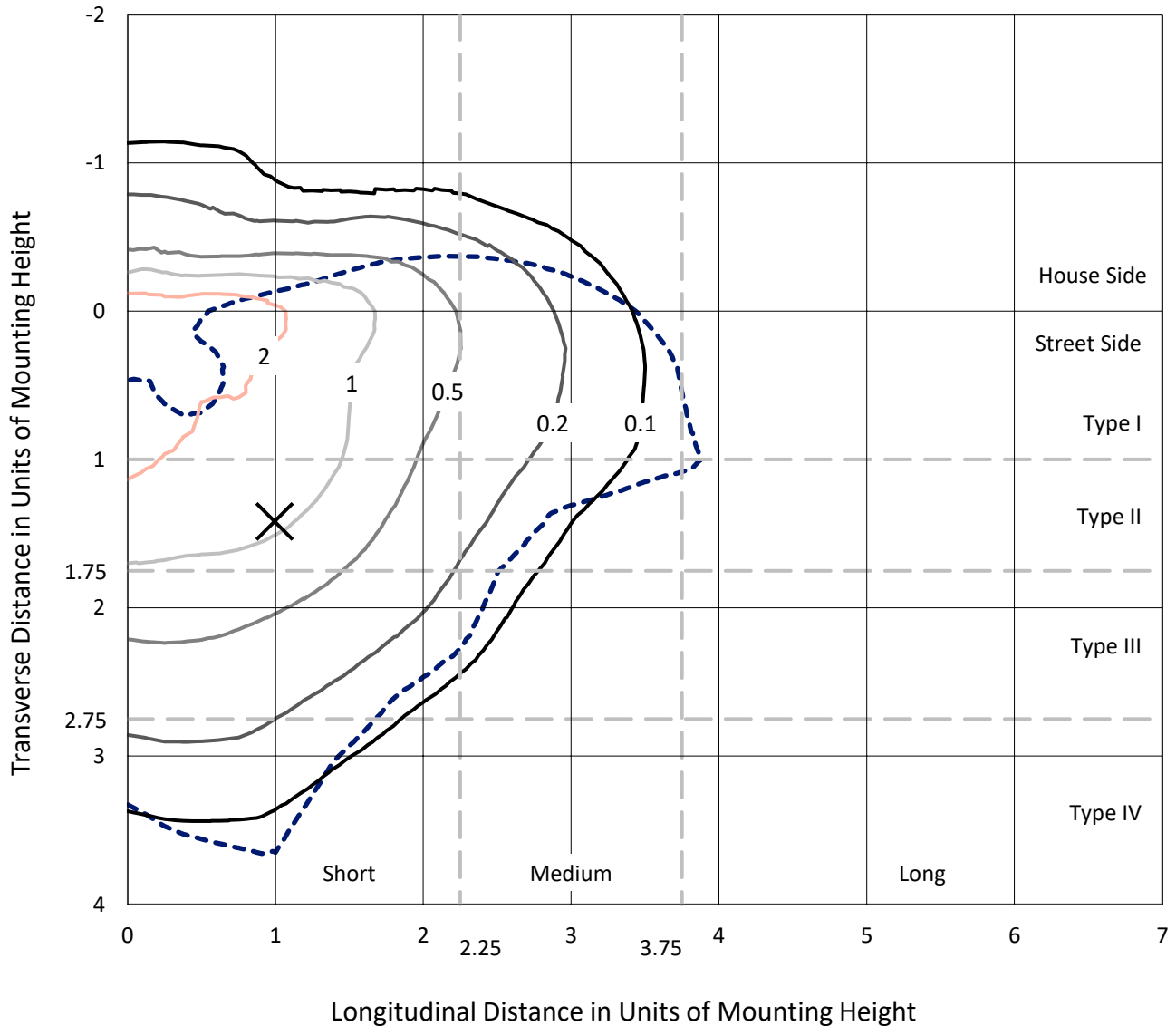
Lumens per Lamp: N/A
Luminaire Lumens: 2609.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

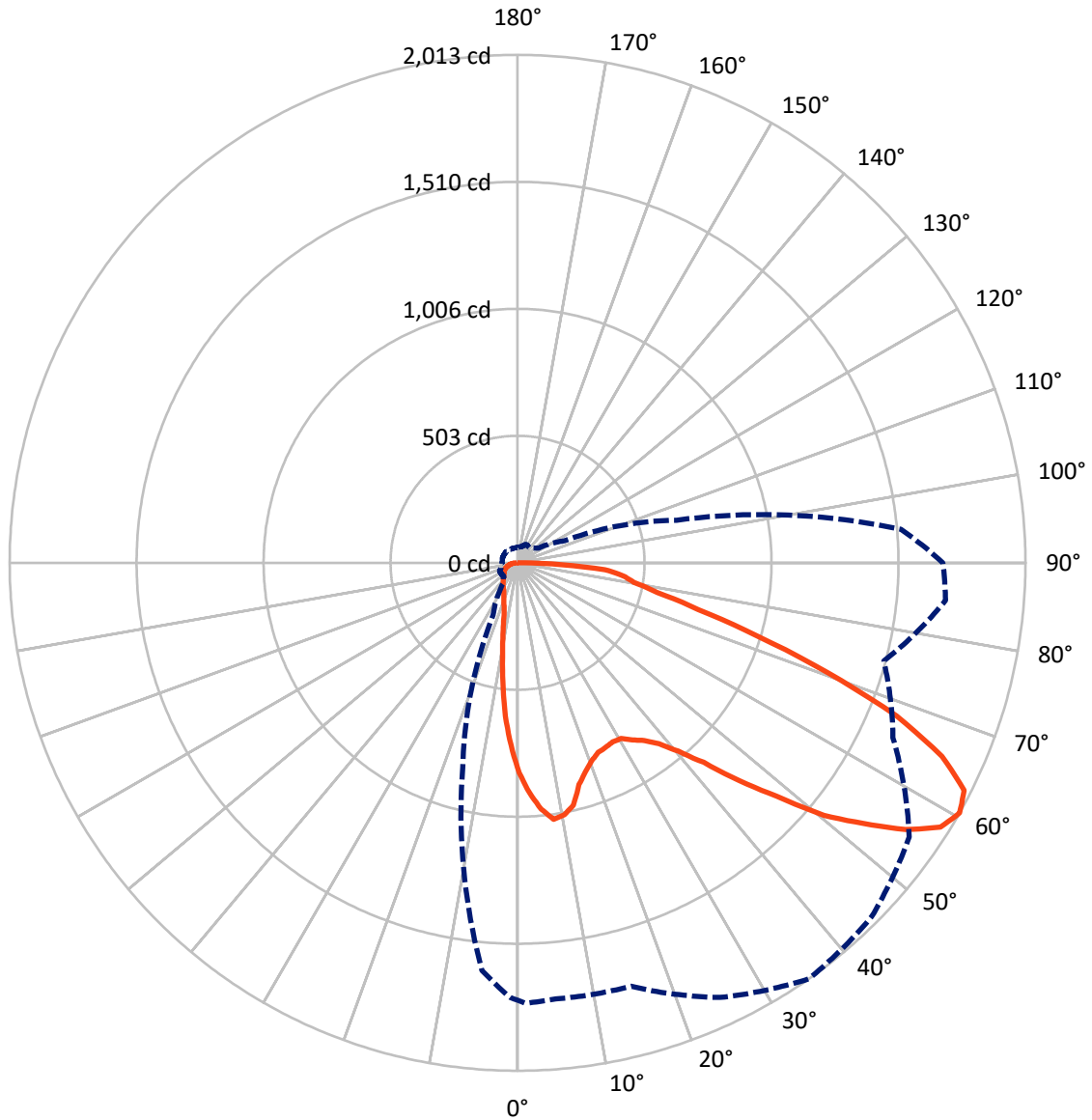
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	496.6	0.0	496.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2112.8	0.0	2112.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	2609.4	0.0	2609.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	2.5
10°-20°	136.7	5.2
20°-30°	200.0	7.7
30°-40°	281.8	10.8
40°-50°	387.3	14.8
50°-60°	527.8	20.2
60°-70°	577.7	22.1
70°-80°	333.5	12.8
80°-90°	99.9	3.8
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°	2609.4	100.0
0°-180°	2609.4	100.0

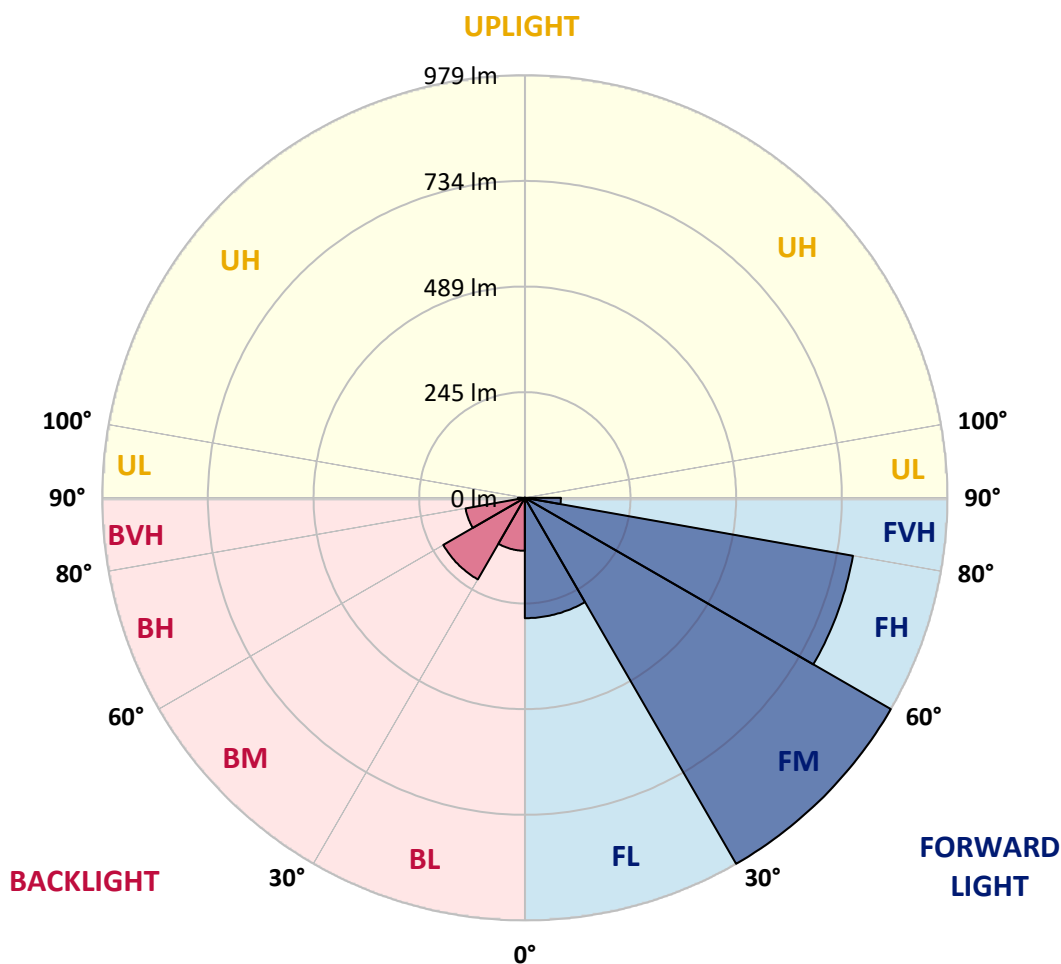


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.8	10.7			
FM (30°-60°)	978.7	37.5			
FH (60°-80°)	771.7	29.6			G1/1800
FVH (80°-90°)	83.6	3.2			G1/100
BL (0°-30°)	122.7	4.7	B1/500		
BM (30°-60°)	218.2	8.4	B0/220		
BH (60°-80°)	139.5	5.3	B1/500		G1/500
BVH (80°-90°)	16.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	892.5	889.0	892.5	905.2	908.7	914.4	914.4	906.3	891.3	884.3	872.8
5°	912.1	906.3	935.3	961.9	982.7	980.4	960.7	944.5	914.4	869.3	826.5
7.5°	872.8	878.6	899.4	968.8	1017.5	1026.7	995.5	963.1	898.2	835.7	777.9
10°	798.7	806.8	851.9	923.7	1000.1	1015.1	995.5	956.1	878.6	801.0	733.9
12.5°	762.8	781.3	808.0	894.8	949.2	985.1	975.8	950.3	863.5	772.1	707.2
15°	762.8	767.4	806.8	879.7	911.0	912.1	915.6	920.2	868.1	784.8	698.0
17.5°	787.1	799.8	833.4	878.6	884.3	870.5	870.5	890.1	877.4	820.7	731.6
20°	846.1	841.5	885.5	904.0	872.8	838.0	834.6	868.1	887.8	858.9	792.9
22.5°	905.2	926.0	961.9	920.2	862.4	816.1	811.4	853.1	919.1	924.9	863.5
25°	994.3	1015.1	1033.7	982.7	861.2	810.3	813.7	846.1	957.3	1018.6	981.6
27.5°	1090.4	1103.1	1129.7	1051.0	889.0	803.3	806.8	855.4	993.2	1080.0	1074.2
30°	1144.8	1158.7	1152.9	1063.8	907.5	808.0	798.7	868.1	973.5	1080.0	1134.4
32.5°	1198.0	1189.9	1186.5	1084.6	930.6	836.9	813.7	894.8	985.1	1097.3	1211.9
35°	1262.9	1251.3	1242.0	1125.1	968.8	864.7	854.3	929.5	1010.5	1133.2	1274.4
37.5°	1334.6	1334.6	1289.5	1155.2	1014.0	909.8	898.2	979.3	1051.0	1155.2	1360.1
40°	1419.1	1422.6	1342.7	1195.7	1064.9	981.6	978.1	1044.1	1090.4	1187.6	1442.3
42.5°	1481.6	1483.9	1389.0	1210.8	1124.0	1081.1	1096.2	1148.3	1135.5	1216.6	1448.1
45°	1524.5	1512.9	1421.4	1253.6	1188.8	1230.4	1235.1	1250.1	1194.6	1233.9	1471.2
47.5°	1545.3	1543.0	1435.3	1303.4	1325.4	1382.1	1408.7	1387.9	1249.0	1215.4	1471.2
50°	1566.1	1546.5	1448.1	1371.7	1458.5	1573.1	1567.3	1529.1	1324.2	1238.5	1449.2
52.5°	1580.0	1562.7	1473.5	1433.0	1585.8	1715.4	1738.6	1668.0	1412.2	1281.4	1459.6
55°	1629.8	1615.9	1549.9	1516.4	1732.8	1865.9	1869.4	1771.0	1504.8	1352.0	1527.9
57.5°	1690.0	1698.1	1655.3	1634.4	1845.1	1975.9	1963.2	1847.4	1583.5	1437.6	1606.6
60°	1732.8	1745.5	1735.1	1737.4	1900.7	2012.9	1984.0	1894.9	1641.4	1502.5	1702.7
62.5°	1709.7	1735.1	1778.0	1768.7	1903.0	1986.3	1945.8	1832.4	1648.3	1587.0	1775.6
65°	1646.0	1648.3	1731.7	1782.6	1798.8	1848.6	1795.3	1701.6	1576.5	1639.1	1765.2
67.5°	1482.8	1501.3	1576.5	1676.1	1607.8	1619.4	1614.7	1479.3	1467.7	1603.2	1685.4
70°	1309.2	1321.9	1404.1	1521.0	1357.8	1303.4	1313.8	1213.1	1260.5	1492.0	1524.5
72.5°	1082.3	1090.4	1184.1	1287.2	1089.2	992.0	1016.3	934.1	1001.3	1305.7	1286.0
75°	817.2	832.3	905.2	1026.7	802.2	739.7	764.0	730.4	792.9	1075.3	997.8
77.5°	581.1	569.5	659.8	803.3	603.1	566.0	568.3	574.1	641.3	906.3	716.5
80°	395.9	399.3	480.4	589.2	473.4	467.6	461.9	508.2	538.2	717.7	520.9
82.5°	235.0	235.0	324.1	419.0	373.9	421.3	394.7	436.4	421.3	527.8	341.5
85°	110.0	110.0	166.7	302.1	289.4	347.3	295.2	329.9	311.4	368.1	154.0
87.5°	18.5	16.2	33.6	148.2	119.2	135.4	53.2	175.9	195.6	257.0	38.2
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°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	860.0	851.9	835.7	814.9	797.5	775.5	768.6	753.5	732.7	730.4	721.1
5°	810.3	782.5	747.8	704.9	676.0	645.9	620.4	605.4	588.0	585.7	581.1
7.5°	755.9	721.1	663.3	612.3	562.6	515.1	491.9	463.0	443.3	428.3	421.3
10°	704.9	672.5	600.8	531.3	487.3	456.1	428.3	398.2	373.9	355.4	348.4
12.5°	671.4	633.2	555.6	489.6	457.2	421.3	390.1	357.7	326.4	302.1	289.4
15°	656.3	620.4	541.7	468.8	421.3	371.6	335.7	303.3	265.1	247.7	241.9
17.5°	692.2	639.0	537.1	444.5	377.4	320.6	276.6	241.9	214.1	196.8	189.8
20°	738.5	672.5	545.2	415.6	335.7	272.0	223.4	186.4	167.8	155.1	154.0
22.5°	797.5	722.3	557.9	394.7	289.4	218.8	174.8	152.8	140.1	138.9	136.6
25°	902.9	812.6	578.8	366.9	252.3	180.6	149.3	136.6	130.8	127.3	129.6
27.5°	993.2	871.6	593.8	349.6	237.3	170.2	144.7	130.8	125.0	123.9	125.0
30°	1046.4	926.0	589.2	317.2	207.2	162.1	154.0	149.3	137.7	128.5	128.5
32.5°	1095.0	960.7	588.0	288.2	177.1	135.4	128.5	125.0	132.0	136.6	133.1
35°	1162.2	1015.1	584.5	272.0	164.4	125.0	113.4	104.2	99.5	97.2	100.7
37.5°	1233.9	1052.2	575.3	269.7	157.4	119.2	110.0	100.7	96.1	93.8	92.6
40°	1312.6	1091.5	564.9	258.1	154.0	115.8	106.5	98.4	92.6	89.1	88.0
42.5°	1363.6	1122.8	554.5	252.3	147.0	113.4	103.0	96.1	90.3	85.7	85.7
45°	1392.5	1159.8	544.0	246.6	138.9	114.6	103.0	93.8	86.8	84.5	82.2
47.5°	1405.2	1187.6	540.6	237.3	132.0	110.0	100.7	91.4	84.5	79.9	78.7
50°	1438.8	1246.7	553.3	230.3	123.9	105.3	106.5	90.3	83.3	77.6	76.4
52.5°	1458.5	1294.1	581.1	219.9	118.1	99.5	104.2	88.0	79.9	74.1	74.1
55°	1530.2	1372.8	611.2	211.8	111.1	91.4	96.1	83.3	74.1	70.6	70.6
57.5°	1621.7	1456.2	636.6	208.4	106.5	85.7	85.7	81.0	70.6	66.0	64.8
60°	1685.4	1524.5	651.7	206.0	101.9	79.9	76.4	81.0	67.1	62.5	61.3
62.5°	1692.3	1485.1	636.6	204.9	100.7	74.1	69.5	77.6	63.7	59.0	56.7
65°	1648.3	1405.2	595.0	200.3	99.5	68.3	64.8	67.1	59.0	55.6	53.2
67.5°	1560.3	1275.6	534.8	197.9	98.4	63.7	59.0	57.9	54.4	50.9	48.6
70°	1355.5	1106.6	464.2	187.5	96.1	60.2	53.2	52.1	48.6	46.3	45.1
72.5°	1137.8	905.2	383.1	173.6	91.4	54.4	48.6	46.3	45.1	41.7	40.5
75°	871.6	696.8	306.7	154.0	79.9	48.6	42.8	40.5	39.4	37.0	35.9
77.5°	612.3	518.6	226.9	125.0	67.1	44.0	38.2	35.9	34.7	31.3	31.3
80°	415.6	363.5	154.0	86.8	52.1	35.9	33.6	31.3	28.9	26.6	26.6
82.5°	258.1	254.7	111.1	56.7	38.2	28.9	26.6	26.6	23.2	20.8	20.8
85°	118.1	156.3	77.6	39.4	28.9	22.0	22.0	20.8	18.5	15.0	15.0
87.5°	37.0	52.1	40.5	17.4	16.2	12.7	12.7	11.6	11.6	9.3	9.3
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°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	730.4	729.2	729.2	724.6	736.2	736.2	743.1	737.3	740.8	742.0	751.2
5°	579.9	589.2	596.1	610.0	618.1	621.6	621.6	630.9	627.4	634.3	648.2
7.5°	424.8	436.4	457.2	474.6	488.5	493.1	491.9	494.3	497.7	489.6	491.9
10°	343.8	335.7	342.6	358.8	371.6	386.6	375.0	373.9	377.4	373.9	380.8
12.5°	287.1	277.8	272.0	272.0	281.3	288.2	284.8	290.5	303.3	306.7	314.8
15°	232.7	224.6	219.9	214.1	223.4	225.7	229.2	237.3	246.6	251.2	260.4
17.5°	186.4	186.4	186.4	181.7	185.2	188.7	189.8	200.3	201.4	206.0	209.5
20°	152.8	156.3	162.1	164.4	167.8	167.8	165.5	171.3	166.7	170.2	172.5
22.5°	137.7	142.4	144.7	145.8	150.5	151.6	145.8	147.0	148.2	144.7	145.8
25°	129.6	132.0	129.6	130.8	132.0	129.6	130.8	133.1	132.0	134.3	133.1
27.5°	126.2	123.9	122.7	121.5	121.5	119.2	120.4	120.4	122.7	123.9	123.9
30°	126.2	122.7	118.1	114.6	114.6	111.1	113.4	115.8	116.9	119.2	119.2
32.5°	129.6	122.7	114.6	111.1	107.6	105.3	107.6	111.1	115.8	116.9	118.1
35°	103.0	106.5	105.3	100.7	99.5	99.5	98.4	98.4	94.9	94.9	93.8
37.5°	92.6	91.4	93.8	94.9	96.1	92.6	92.6	88.0	86.8	88.0	88.0
40°	86.8	86.8	86.8	90.3	91.4	89.1	85.7	83.3	83.3	83.3	84.5
42.5°	84.5	82.2	81.0	83.3	86.8	84.5	81.0	79.9	79.9	81.0	81.0
45°	81.0	79.9	78.7	77.6	82.2	78.7	77.6	76.4	76.4	76.4	77.6
47.5°	77.6	76.4	74.1	74.1	75.2	74.1	72.9	72.9	72.9	75.2	75.2
50°	75.2	74.1	71.8	71.8	71.8	71.8	70.6	70.6	70.6	71.8	72.9
52.5°	71.8	70.6	69.5	68.3	68.3	68.3	68.3	68.3	68.3	69.5	70.6
55°	68.3	67.1	66.0	66.0	67.1	67.1	66.0	67.1	66.0	67.1	68.3
57.5°	64.8	63.7	62.5	63.7	64.8	63.7	63.7	63.7	63.7	63.7	64.8
60°	60.2	60.2	60.2	60.2	62.5	62.5	62.5	62.5	60.2	61.3	62.5
62.5°	57.9	56.7	56.7	57.9	59.0	59.0	60.2	59.0	57.9	59.0	59.0
65°	53.2	53.2	53.2	54.4	54.4	55.6	55.6	55.6	54.4	55.6	55.6
67.5°	49.8	49.8	49.8	49.8	52.1	52.1	52.1	52.1	50.9	50.9	52.1
70°	44.0	45.1	44.0	46.3	48.6	47.5	48.6	48.6	47.5	46.3	48.6
72.5°	40.5	40.5	40.5	40.5	44.0	44.0	44.0	45.1	44.0	42.8	44.0
75°	35.9	35.9	35.9	37.0	39.4	39.4	39.4	39.4	39.4	38.2	38.2
77.5°	31.3	32.4	31.3	32.4	34.7	33.6	34.7	35.9	34.7	33.6	33.6
80°	26.6	26.6	26.6	27.8	28.9	28.9	28.9	30.1	28.9	27.8	27.8
82.5°	20.8	20.8	22.0	22.0	23.2	23.2	23.2	24.3	23.2	22.0	22.0
85°	16.2	16.2	16.2	17.4	17.4	18.5	18.5	19.7	19.7	18.5	18.5
87.5°	10.4	9.3	10.4	10.4	11.6	11.6	10.4	9.3	10.4	9.3	8.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	760.5	781.3	796.4	806.8	821.8	850.8	862.4	883.2	889.0	892.5
5°	654.0	676.0	708.4	731.6	758.2	812.6	854.3	885.5	899.4	912.1
7.5°	512.8	541.7	575.3	605.4	649.4	716.5	770.9	835.7	860.0	872.8
10°	400.5	427.1	464.2	501.2	562.6	619.3	696.8	755.9	789.4	798.7
12.5°	338.0	369.2	413.2	458.4	496.6	561.4	640.1	725.8	757.0	762.8
15°	287.1	329.9	375.0	421.3	465.3	522.0	606.5	710.7	757.0	762.8
17.5°	237.3	275.5	328.7	378.5	429.4	507.0	612.3	723.5	769.8	787.1
20°	188.7	225.7	267.4	329.9	399.3	481.5	625.1	766.3	827.6	846.1
22.5°	156.3	172.5	213.0	273.2	355.4	464.2	637.8	833.4	898.2	905.2
25°	136.6	148.2	173.6	230.3	320.6	452.6	667.9	911.0	994.3	994.3
27.5°	127.3	132.0	149.3	200.3	296.3	442.2	698.0	996.6	1074.2	1090.4
30°	125.0	136.6	145.8	178.3	269.7	413.2	725.8	1063.8	1143.6	1144.8
32.5°	122.7	120.4	127.3	155.1	237.3	383.1	748.9	1132.1	1194.6	1198.0
35°	96.1	100.7	112.3	136.6	213.0	361.1	760.5	1169.1	1259.4	1262.9
37.5°	90.3	96.1	105.3	126.2	196.8	342.6	764.0	1240.9	1327.7	1334.6
40°	88.0	92.6	99.5	116.9	184.0	319.5	770.9	1314.9	1428.4	1419.1
42.5°	83.3	89.1	96.1	112.3	173.6	302.1	772.1	1355.5	1481.6	1481.6
45°	82.2	85.7	93.8	112.3	162.1	287.1	753.5	1396.0	1543.0	1524.5
47.5°	77.6	84.5	91.4	108.8	148.2	272.0	731.6	1416.8	1551.1	1545.3
50°	76.4	83.3	94.9	103.0	140.1	265.1	726.9	1468.9	1567.3	1566.1
52.5°	74.1	81.0	98.4	98.4	129.6	255.8	748.9	1492.0	1570.8	1580.0
55°	70.6	81.0	91.4	90.3	120.4	244.2	773.2	1552.2	1632.1	1629.8
57.5°	68.3	78.7	86.8	82.2	110.0	236.1	809.1	1610.1	1706.2	1690.0
60°	64.8	78.7	77.6	76.4	101.9	229.2	839.2	1621.7	1722.4	1732.8
62.5°	62.5	82.2	68.3	70.6	94.9	225.7	826.5	1534.9	1700.4	1709.7
65°	60.2	70.6	62.5	64.8	92.6	218.8	776.7	1430.7	1605.5	1646.0
67.5°	55.6	57.9	57.9	60.2	90.3	202.6	674.8	1243.2	1460.8	1482.8
70°	50.9	52.1	52.1	55.6	88.0	184.0	556.8	1075.3	1267.5	1309.2
72.5°	46.3	46.3	46.3	50.9	81.0	169.0	458.4	826.5	1053.3	1082.3
75°	40.5	40.5	40.5	45.1	72.9	154.0	361.1	614.6	775.5	817.2
77.5°	35.9	35.9	34.7	40.5	63.7	125.0	260.4	434.1	546.4	581.1
80°	30.1	28.9	28.9	32.4	49.8	90.3	167.8	306.7	380.8	395.9
82.5°	24.3	23.2	22.0	24.3	35.9	56.7	104.2	214.1	244.2	235.0
85°	23.2	24.3	19.7	18.5	25.5	37.0	66.0	132.0	110.0	110.0
87.5°	9.3	8.1	8.1	6.9	12.7	13.9	28.9	24.3	18.5	18.5
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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