

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: P676332

Luminaire Tested: **CCW-SA-1D-835-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676332
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-835-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

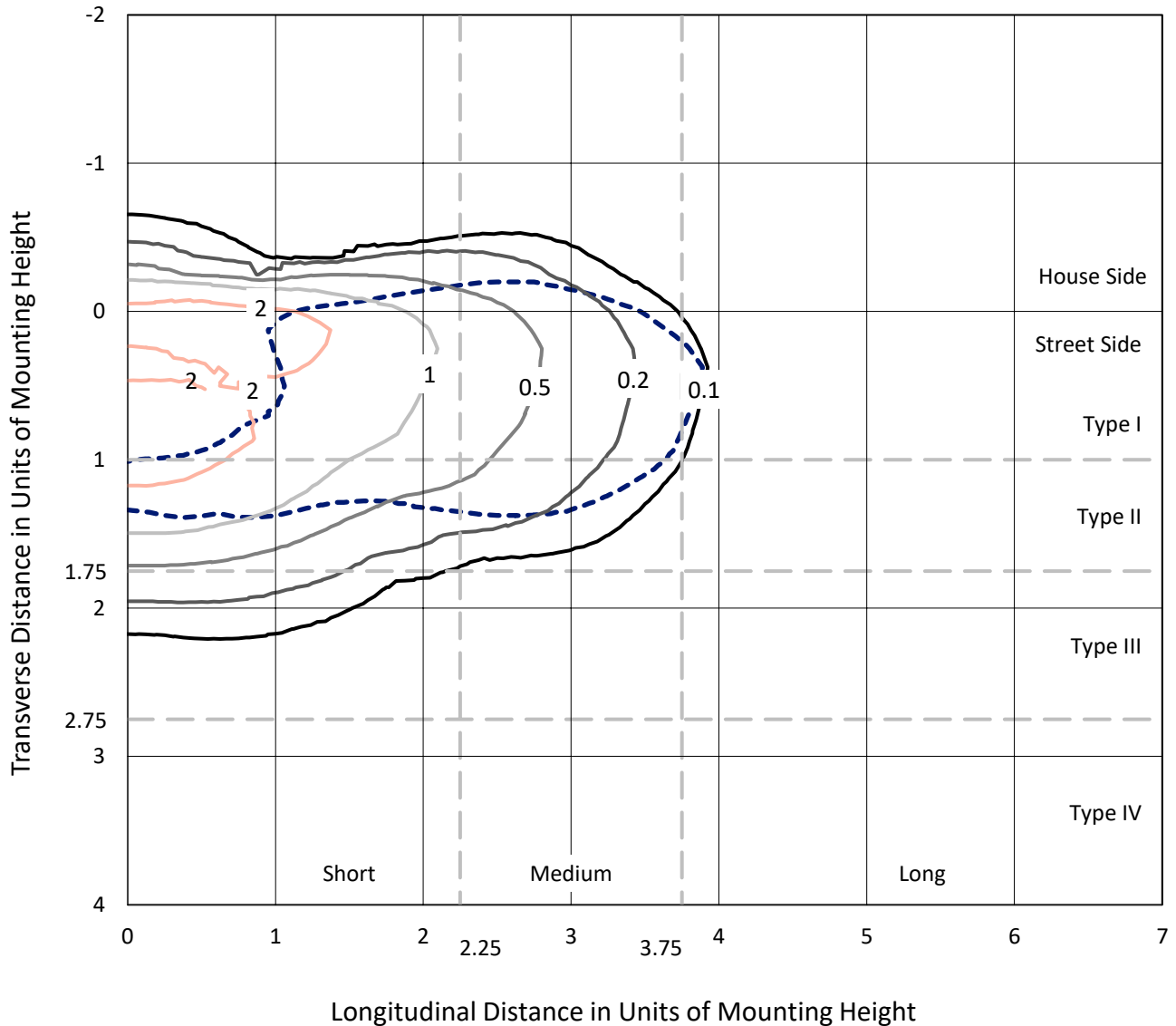
Lumens per Lamp: N/A
Luminaire Lumens: 3547.8 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

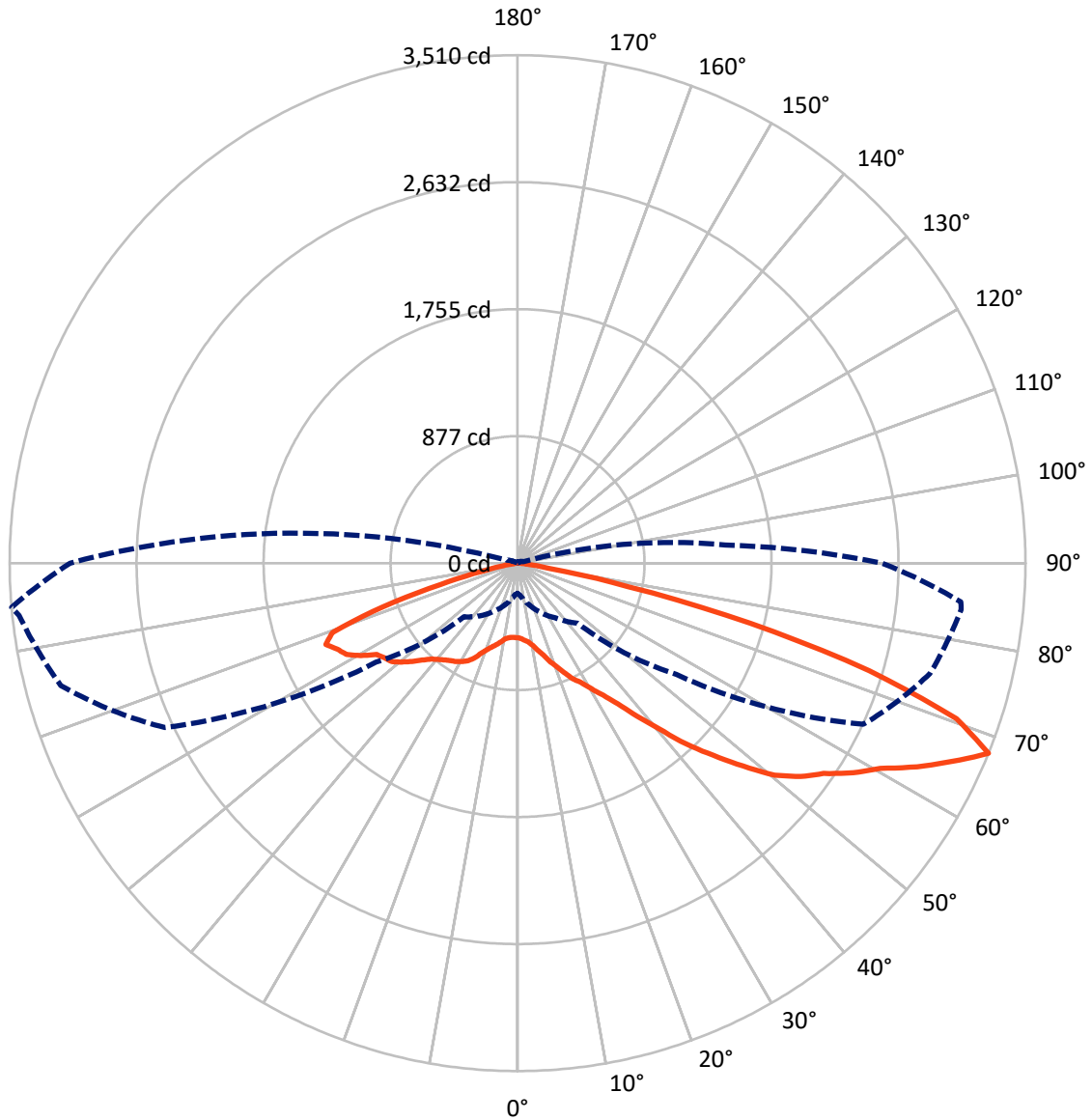
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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	504.0	0.0	504.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3043.8	0.0	3043.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	3547.8	0.0	3547.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.3
10°-20°	126.5	3.6
20°-30°	210.1	5.9
30°-40°	361.4	10.2
40°-50°	649.5	18.3
50°-60°	924.6	26.1
60°-70°	843.0	23.8
70°-80°	358.9	10.1
80°-90°	26.7	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°	3547.8	100.0
0°-180°	3547.8	100.0

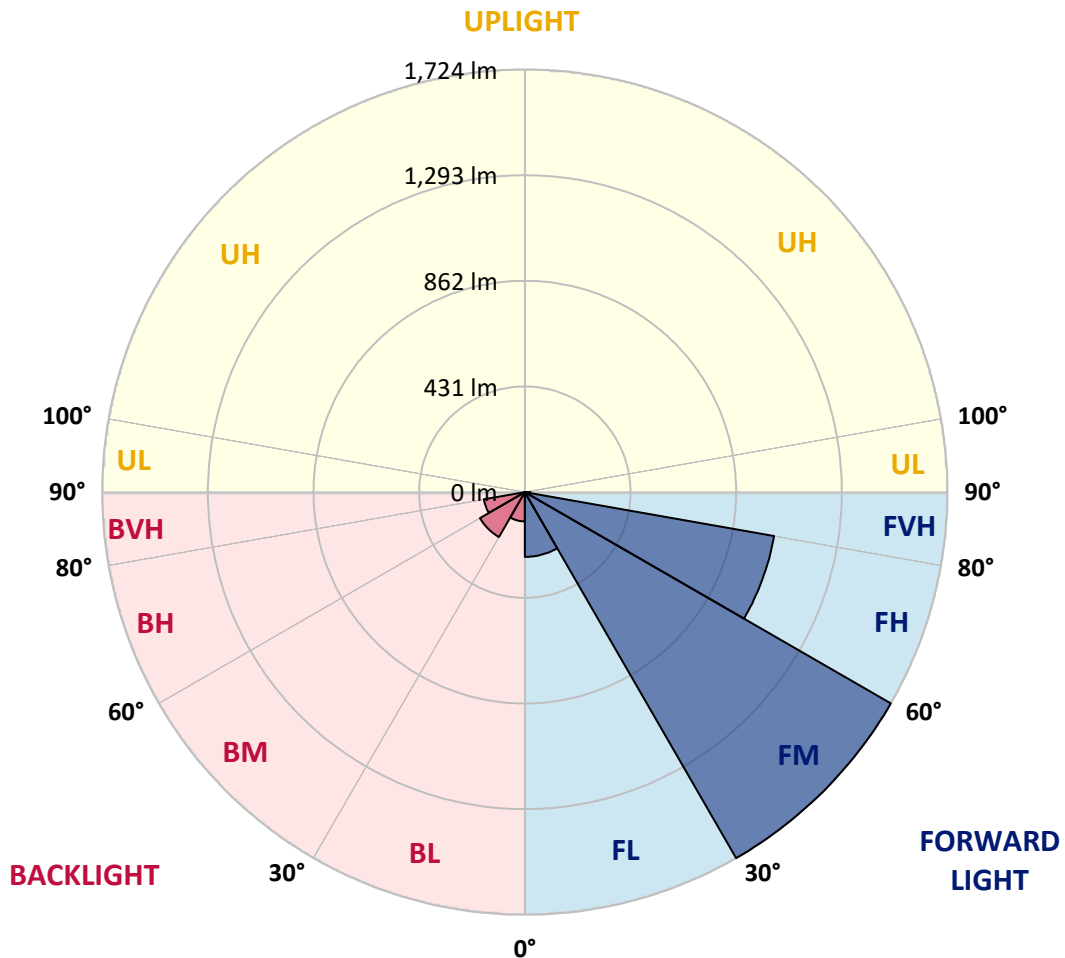


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.3	7.4			
FM (30°-60°)	1724.2	48.6			
FH (60°-80°)	1032.6	29.1			G1/1800
FVH (80°-90°)	22.7	0.6			G1/100
BL (0°-30°)	119.3	3.4	B1/500		
BM (30°-60°)	211.3	6.0	B0/220		
BH (60°-80°)	169.4	4.8	B1/500		G1/500
BVH (80°-90°)	4.0	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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	534.5	539.6	539.6	537.9	532.8	529.4	527.7	524.4	521.0	521.0	522.7
5°	539.6	534.5	541.3	532.8	532.8	532.8	539.6	536.2	534.5	526.0	526.0
7.5°	539.6	534.5	534.5	539.6	534.5	537.9	546.3	543.0	549.7	534.5	537.9
10°	524.4	522.7	526.0	532.8	534.5	541.3	549.7	566.6	568.3	558.2	556.5
12.5°	493.9	492.2	504.1	507.4	527.7	544.7	570.0	583.6	598.8	593.7	583.6
15°	471.9	475.3	483.8	497.3	515.9	546.3	575.1	605.5	632.6	625.8	622.5
17.5°	480.4	478.7	480.4	488.8	512.5	543.0	592.0	627.5	666.4	666.4	669.8
20°	505.8	510.8	509.1	504.1	515.9	541.3	592.0	654.6	718.9	713.8	713.8
22.5°	549.7	551.4	541.3	537.9	536.2	551.4	602.2	688.4	762.9	773.0	769.6
25°	595.4	597.1	593.7	583.6	570.0	573.4	620.8	715.5	823.8	840.7	837.3
27.5°	671.5	669.8	661.4	649.5	629.2	614.0	649.5	735.8	871.1	899.9	891.4
30°	747.6	742.6	730.7	715.5	696.9	668.1	685.0	774.7	930.3	957.4	938.8
32.5°	840.7	830.5	833.9	810.2	771.3	725.6	722.3	810.2	977.7	1016.6	1001.4
35°	959.1	947.2	930.3	908.3	871.1	810.2	791.6	867.7	1057.2	1085.9	1085.9
37.5°	1114.7	1126.5	1106.2	1014.9	974.3	916.8	877.9	926.9	1126.5	1195.9	1179.0
40°	1273.7	1283.8	1246.6	1179.0	1091.0	1020.0	996.3	1023.3	1231.4	1314.3	1282.1
42.5°	1402.2	1415.8	1402.2	1314.3	1244.9	1153.6	1111.3	1136.7	1366.7	1466.5	1424.2
45°	1537.6	1551.1	1535.9	1478.4	1410.7	1358.3	1251.7	1283.8	1508.8	1657.6	1610.3
47.5°	1639.0	1656.0	1628.9	1617.1	1562.9	1554.5	1373.5	1409.0	1657.6	1850.5	1791.3
50°	1662.7	1681.3	1705.0	1718.5	1699.9	1720.2	1537.6	1568.0	1813.3	2028.1	1970.6
52.5°	1606.9	1625.5	1677.9	1740.5	1826.8	1887.7	1703.3	1728.7	1975.6	2175.2	2144.8
55°	1442.8	1459.7	1566.3	1650.9	1857.2	1957.0	1862.3	1968.9	2092.4	2329.2	2254.7
57.5°	1167.1	1187.4	1327.8	1458.1	1755.8	1918.1	1957.0	2168.5	2285.2	2442.5	2356.2
60°	828.8	840.7	962.5	1192.5	1475.0	1723.6	1938.4	2317.3	2437.4	2594.7	2549.1
62.5°	477.0	487.1	614.0	830.5	1113.0	1439.4	1855.6	2457.7	2601.5	2762.2	2736.8
65°	316.3	319.7	406.0	524.4	724.0	1060.6	1645.8	2582.9	2763.9	2895.8	2867.1
67.5°	208.1	226.7	294.3	375.5	463.5	586.9	1341.3	2635.3	2949.9	3081.9	3075.1
70°	148.9	155.6	211.4	289.2	348.4	329.8	784.8	2264.9	2941.5	3132.6	3076.8
72.5°	88.0	94.7	140.4	216.5	274.0	209.7	367.1	1601.8	2437.4	2500.0	2484.8
75°	64.3	64.3	86.3	155.6	199.6	150.5	172.5	1013.2	1618.7	1757.4	1755.8
77.5°	45.7	47.4	59.2	93.0	153.9	109.9	94.7	563.3	884.6	967.5	921.9
80°	27.1	28.8	40.6	55.8	111.6	79.5	62.6	257.1	340.0	343.4	326.5
82.5°	20.3	20.3	27.1	38.9	77.8	54.1	38.9	98.1	109.9	99.8	84.6
85°	11.8	10.1	20.3	28.8	45.7	30.4	27.1	45.7	50.7	37.2	33.8
87.5°	3.4	3.4	8.5	10.1	20.3	16.9	11.8	16.9	23.7	13.5	10.1
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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	519.3	514.2	505.8	502.4	490.5	485.5	482.1	473.6	475.3	470.2	470.2
5°	514.2	514.2	497.3	478.7	460.1	448.2	434.7	417.8	417.8	411.0	412.7
7.5°	532.8	519.3	497.3	463.5	433.0	406.0	394.1	377.2	367.1	362.0	362.0
10°	544.7	531.1	493.9	453.3	414.4	380.6	355.2	331.5	318.0	318.0	316.3
12.5°	576.8	556.5	507.4	451.6	394.1	343.4	304.5	277.4	258.8	245.3	248.6
15°	603.9	581.9	514.2	438.1	358.6	287.6	240.2	189.4	164.1	150.5	145.5
17.5°	646.1	605.5	529.4	414.4	304.5	225.0	155.6	113.3	103.2	101.5	101.5
20°	681.7	634.3	531.1	368.7	250.3	143.8	99.8	93.0	88.0	86.3	84.6
22.5°	730.7	671.5	524.4	316.3	179.3	96.4	84.6	77.8	74.4	69.4	69.4
25°	781.5	720.6	510.8	267.3	109.9	82.9	74.4	67.7	60.9	57.5	59.2
27.5°	835.6	757.8	471.9	208.1	84.6	72.7	60.9	55.8	52.4	50.7	50.7
30°	879.6	781.5	414.4	138.7	76.1	64.3	54.1	49.1	45.7	44.0	44.0
32.5°	911.7	801.8	350.1	93.0	69.4	57.5	49.1	44.0	40.6	38.9	38.9
35°	965.8	817.0	290.9	79.5	62.6	50.7	42.3	38.9	35.5	35.5	35.5
37.5°	1048.7	837.3	231.7	72.7	57.5	45.7	40.6	35.5	33.8	32.1	32.1
40°	1121.5	862.7	165.8	66.0	52.4	42.3	35.5	32.1	30.4	28.8	28.8
42.5°	1226.3	891.4	108.3	59.2	47.4	38.9	32.1	28.8	27.1	25.4	25.4
45°	1359.9	938.8	84.6	52.4	42.3	35.5	30.4	27.1	23.7	23.7	22.0
47.5°	1502.0	996.3	76.1	49.1	38.9	32.1	27.1	23.7	22.0	20.3	20.3
50°	1634.0	1052.1	71.0	45.7	35.5	30.4	25.4	22.0	18.6	16.9	16.9
52.5°	1752.4	1104.5	67.7	42.3	33.8	27.1	22.0	18.6	16.9	15.2	15.2
55°	1815.0	1128.2	66.0	40.6	30.4	25.4	20.3	16.9	15.2	13.5	13.5
57.5°	1913.1	1158.7	64.3	38.9	28.8	22.0	18.6	15.2	13.5	11.8	11.8
60°	2072.1	1258.5	62.6	37.2	27.1	22.0	16.9	13.5	10.1	8.5	8.5
62.5°	2204.0	1341.3	55.8	32.1	23.7	18.6	13.5	10.1	6.8	5.1	5.1
65°	2354.5	1380.2	49.1	28.8	20.3	15.2	10.1	6.8	5.1	1.7	1.7
67.5°	2518.6	1439.4	40.6	25.4	18.6	11.8	8.5	5.1	1.7	0.0	0.0
70°	2432.3	1365.0	33.8	22.0	16.9	10.1	6.8	3.4	0.0	0.0	0.0
72.5°	1906.3	977.7	27.1	20.3	15.2	10.1	6.8	1.7	0.0	0.0	0.0
75°	1273.7	553.1	23.7	16.9	11.8	8.5	5.1	1.7	0.0	0.0	0.0
77.5°	691.8	248.6	20.3	15.2	10.1	6.8	5.1	1.7	0.0	0.0	0.0
80°	225.0	98.1	16.9	13.5	10.1	6.8	5.1	1.7	0.0	0.0	0.0
82.5°	60.9	30.4	16.9	13.5	10.1	6.8	5.1	1.7	0.0	0.0	0.0
85°	25.4	20.3	16.9	13.5	10.1	6.8	5.1	1.7	0.0	0.0	0.0
87.5°	10.1	6.8	6.8	8.5	6.8	5.1	3.4	1.7	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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	471.9	475.3	477.0	477.0	485.5	493.9	504.1	512.5	512.5	517.6	522.7
5°	414.4	417.8	422.9	438.1	455.0	473.6	492.2	505.8	524.4	532.8	537.9
7.5°	367.1	370.4	384.0	399.2	422.9	455.0	487.1	517.6	536.2	544.7	551.4
10°	318.0	323.1	338.3	365.4	395.8	434.7	471.9	524.4	554.8	571.7	578.5
12.5°	247.0	260.5	280.8	309.5	348.4	407.6	477.0	531.1	583.6	603.9	617.4
15°	155.6	167.5	199.6	245.3	297.7	367.1	463.5	541.3	614.0	634.3	656.3
17.5°	99.8	101.5	111.6	160.7	228.3	316.3	443.2	556.5	647.8	676.6	710.4
20°	84.6	88.0	89.6	96.4	152.2	260.5	400.9	575.1	688.4	727.3	759.5
22.5°	71.0	72.7	76.1	81.2	91.3	189.4	343.4	575.1	724.0	781.5	818.7
25°	57.5	60.9	64.3	69.4	79.5	118.4	284.2	565.0	766.2	837.3	884.6
27.5°	50.7	50.7	54.1	59.2	67.7	82.9	225.0	534.5	798.4	871.1	933.7
30°	44.0	45.7	47.4	52.4	60.9	72.7	155.6	485.5	832.2	937.1	1008.1
32.5°	38.9	38.9	42.3	45.7	54.1	66.0	99.8	411.0	876.2	987.8	1087.6
35°	35.5	35.5	37.2	40.6	49.1	59.2	77.8	348.4	928.6	1084.2	1194.2
37.5°	32.1	32.1	33.8	37.2	44.0	52.4	71.0	299.4	982.7	1180.7	1341.3
40°	28.8	28.8	30.4	33.8	38.9	47.4	64.3	241.9	1050.4	1322.7	1502.0
42.5°	25.4	25.4	27.1	30.4	35.5	42.3	55.8	181.0	1140.1	1476.7	1710.1
45°	22.0	22.0	23.7	27.1	30.4	38.9	50.7	138.7	1238.2	1647.5	1892.8
47.5°	18.6	20.3	22.0	25.4	28.8	35.5	45.7	121.8	1334.6	1828.5	2095.7
50°	16.9	16.9	18.6	22.0	27.1	32.1	42.3	120.1	1432.7	1967.2	2303.8
52.5°	15.2	15.2	16.9	20.3	25.4	30.4	40.6	123.5	1513.9	2095.7	2449.3
55°	13.5	13.5	15.2	16.9	22.0	28.8	37.2	126.9	1571.4	2226.0	2566.0
57.5°	11.8	11.8	13.5	16.9	20.3	25.4	33.8	130.2	1664.4	2354.5	2735.1
60°	8.5	8.5	11.8	15.2	18.6	22.0	32.1	133.6	1813.3	2532.1	2878.9
62.5°	5.1	5.1	6.8	11.8	15.2	20.3	28.8	126.9	1952.0	2760.5	3098.8
65°	1.7	3.4	5.1	6.8	11.8	16.9	23.7	115.0	2068.7	2988.8	3301.8
67.5°	0.0	0.0	1.7	5.1	10.1	13.5	20.3	84.6	2087.3	3092.0	3509.8
70°	0.0	0.0	1.7	5.1	8.5	13.5	18.6	47.4	1777.7	2762.2	3217.2
72.5°	0.0	0.0	0.0	3.4	8.5	11.8	16.9	35.5	1310.9	2082.2	2542.3
75°	0.0	0.0	0.0	1.7	6.8	10.1	15.2	27.1	796.7	1388.7	1659.3
77.5°	0.0	0.0	0.0	1.7	5.1	10.1	15.2	23.7	280.8	661.4	779.8
80°	0.0	0.0	0.0	3.4	6.8	10.1	13.5	20.3	67.7	165.8	223.3
82.5°	0.0	0.0	0.0	1.7	5.1	8.5	11.8	16.9	27.1	49.1	77.8
85°	0.0	0.0	0.0	1.7	3.4	8.5	11.8	15.2	18.6	23.7	33.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	5.1	6.8	6.8	6.8	11.8
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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	521.0	527.7	531.1	537.9	541.3	539.6	537.9	543.0	539.6	534.5
5°	539.6	539.6	544.7	546.3	546.3	541.3	544.7	543.0	539.6	539.6
7.5°	559.9	568.3	568.3	558.2	556.5	553.1	553.1	539.6	534.5	539.6
10°	580.2	586.9	588.6	576.8	561.6	554.8	546.3	529.4	521.0	524.4
12.5°	622.5	622.5	603.9	590.3	570.0	546.3	526.0	502.4	490.5	493.9
15°	652.9	659.7	634.3	603.9	568.3	524.4	502.4	483.8	477.0	471.9
17.5°	712.1	698.6	658.0	614.0	563.3	517.6	502.4	485.5	480.4	480.4
20°	762.9	756.1	695.2	615.7	561.6	531.1	521.0	512.5	510.8	505.8
22.5°	832.2	801.8	724.0	634.3	580.2	553.1	549.7	558.2	553.1	549.7
25°	884.6	859.3	745.9	661.4	608.9	600.5	605.5	614.0	600.5	595.4
27.5°	955.7	908.3	788.2	696.9	647.8	656.3	673.2	674.9	666.4	671.5
30°	1021.7	970.9	820.4	737.5	713.8	722.3	747.6	766.2	754.4	747.6
32.5°	1116.4	1038.6	884.6	805.1	796.7	818.7	847.4	859.3	844.0	840.7
35°	1216.2	1116.4	950.6	881.3	896.5	926.9	952.3	972.6	948.9	959.1
37.5°	1371.8	1241.5	1062.2	1001.4	1008.1	1020.0	1067.3	1123.1	1135.0	1114.7
40°	1534.2	1376.9	1165.4	1118.1	1133.3	1165.4	1221.2	1273.7	1300.7	1273.7
42.5°	1721.9	1507.1	1324.4	1268.6	1283.8	1329.5	1403.9	1446.2	1442.8	1402.2
45°	1953.7	1688.1	1473.3	1403.9	1459.7	1500.3	1574.8	1579.8	1547.7	1537.6
47.5°	2131.3	1840.3	1634.0	1590.0	1666.1	1667.8	1684.7	1686.4	1650.9	1639.0
50°	2327.5	2016.2	1813.3	1749.0	1877.5	1818.3	1772.7	1742.2	1688.1	1662.7
52.5°	2520.3	2141.4	1979.0	1913.1	2046.7	1889.4	1806.5	1713.5	1634.0	1606.9
55°	2623.5	2347.8	2220.9	2067.0	2083.9	1909.7	1701.6	1584.9	1449.6	1442.8
57.5°	2745.3	2486.5	2425.6	2171.9	2021.3	1767.6	1483.4	1329.5	1184.0	1167.1
60°	2889.0	2706.4	2642.1	2154.9	1799.7	1485.1	1175.6	977.7	840.7	828.8
62.5°	3049.7	2966.9	2775.7	1989.2	1429.3	1045.3	776.4	610.6	483.8	477.0
65°	3303.5	3185.1	2846.8	1674.6	945.5	669.8	515.9	395.8	319.7	316.3
67.5°	3462.5	3267.9	2687.8	1194.2	524.4	443.2	362.0	287.6	221.6	208.1
70°	3237.5	2999.0	2126.2	683.4	304.5	336.6	279.1	192.8	152.2	148.9
72.5°	2586.3	2226.0	1431.0	321.4	189.4	263.9	203.0	130.2	91.3	88.0
75°	1764.2	1400.5	898.2	148.9	133.6	192.8	148.9	76.1	64.3	64.3
77.5°	788.2	713.8	460.1	91.3	99.8	147.2	86.3	52.4	47.4	45.7
80°	240.2	252.0	187.8	62.6	74.4	111.6	52.4	35.5	28.8	27.1
82.5°	81.2	94.7	84.6	37.2	50.7	79.5	35.5	23.7	20.3	20.3
85°	38.9	47.4	42.3	23.7	27.1	38.9	28.8	18.6	11.8	11.8
87.5°	15.2	22.0	15.2	10.1	15.2	20.3	11.8	8.5	3.4	3.4
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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