

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: P676330

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676330
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

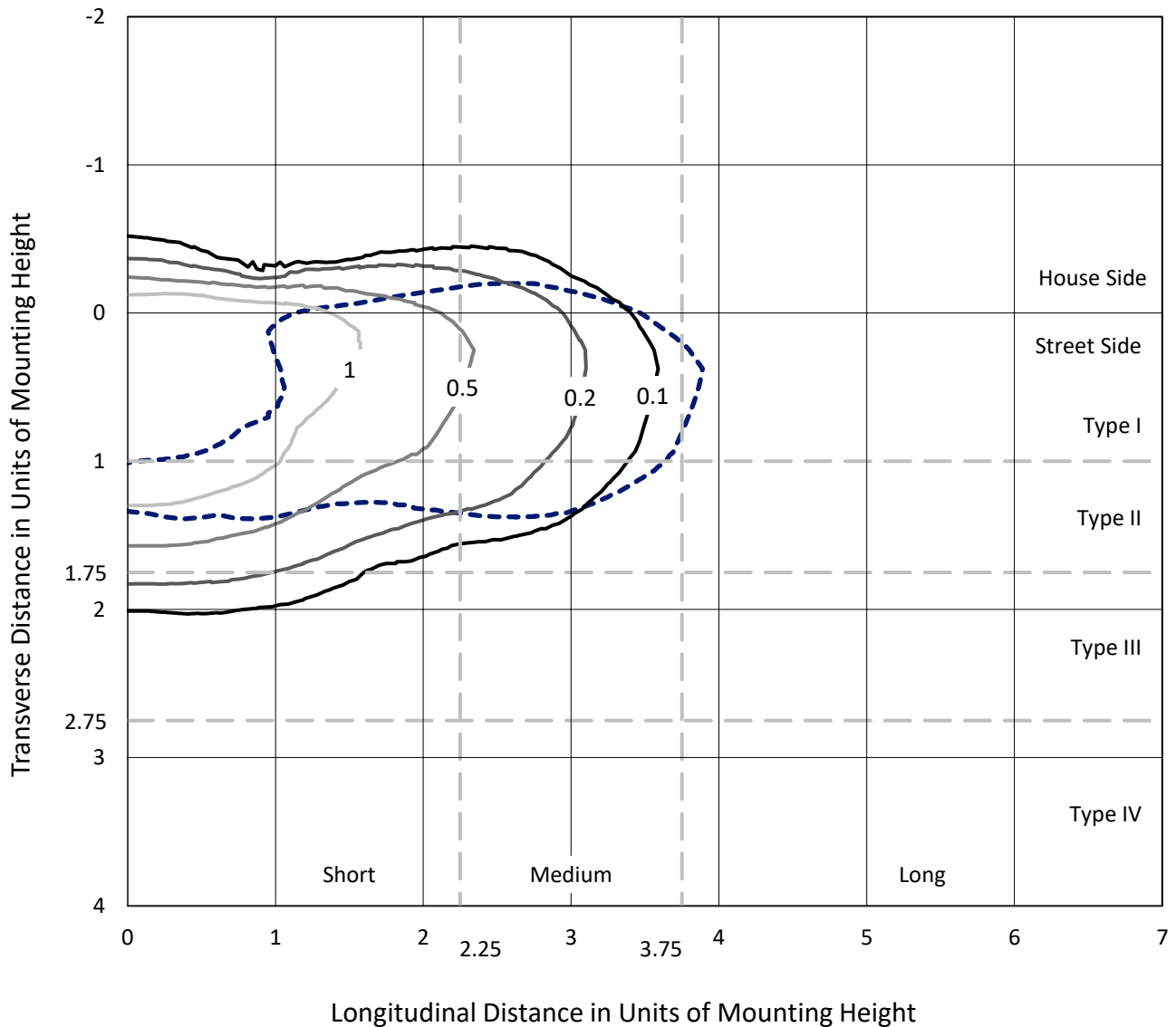
Lumens per Lamp: N/A
Luminaire Lumens: 2197 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

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

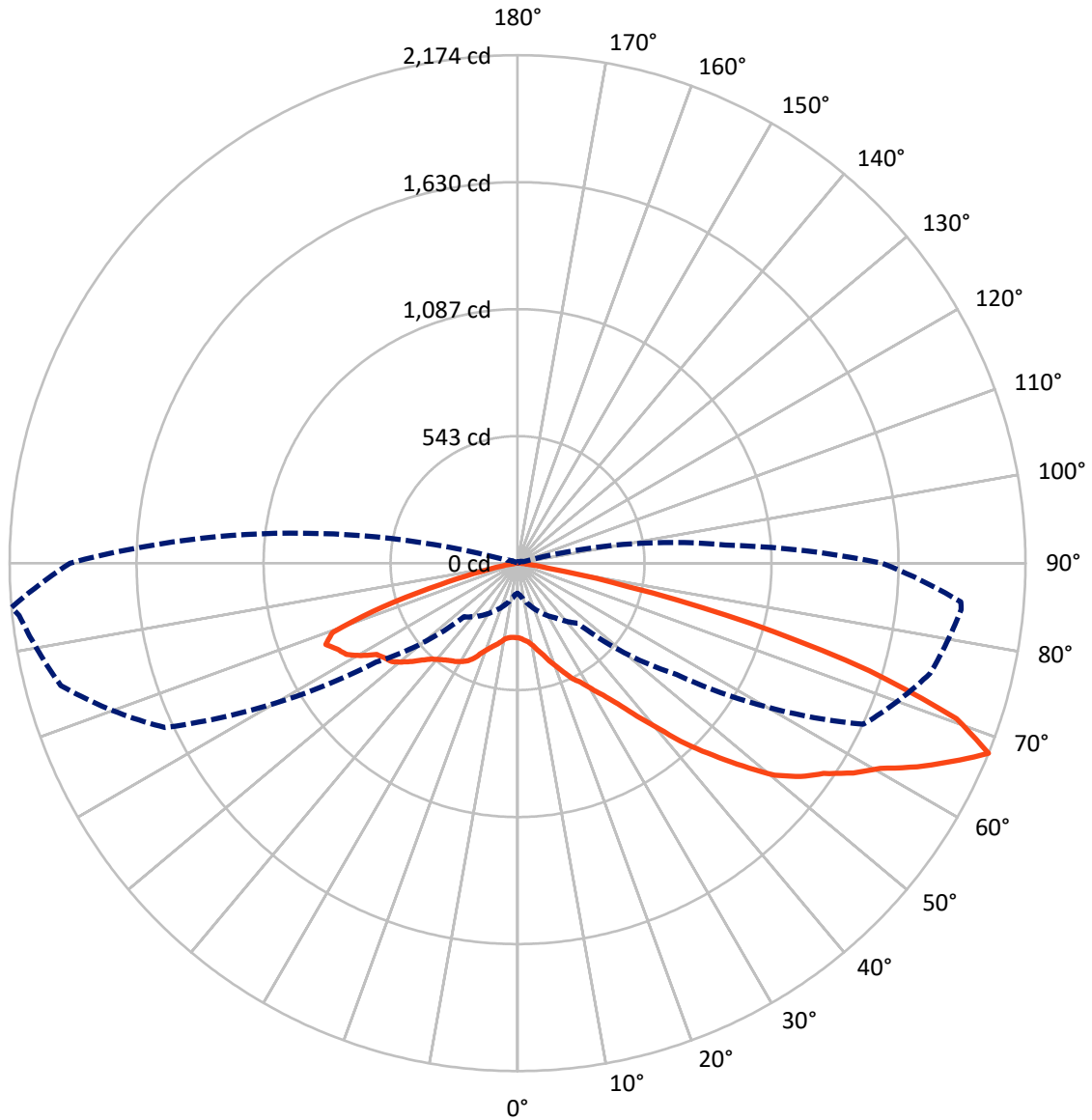
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 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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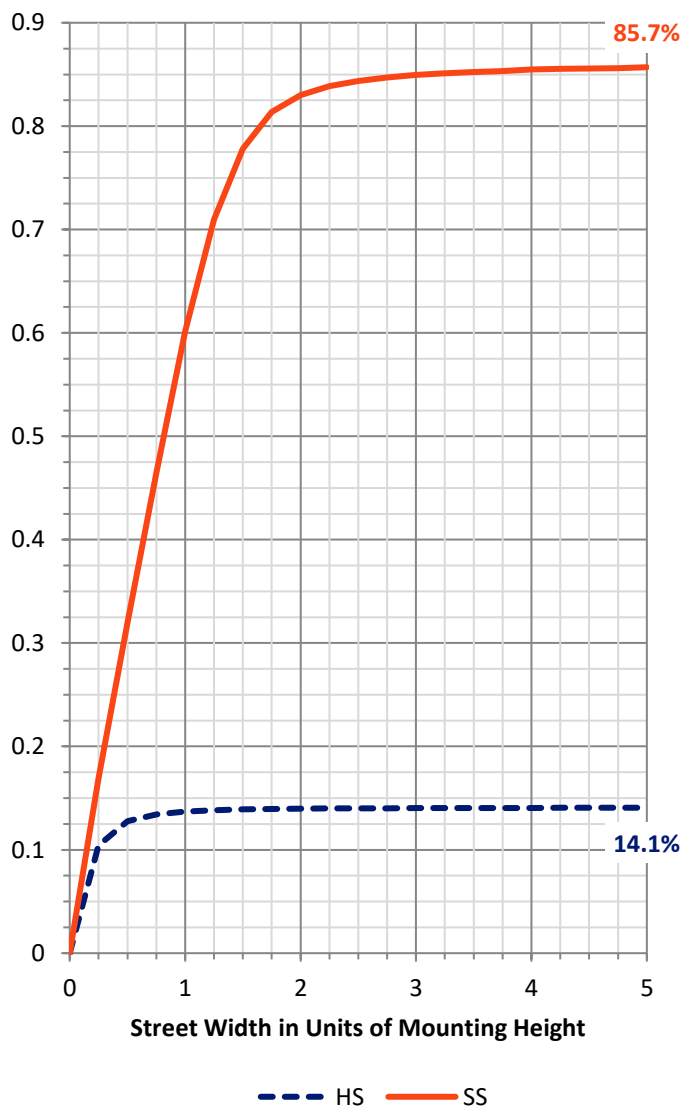
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	312.1	0.0	312.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1884.9	0.0	1884.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	2197.0	0.0	2197.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.3
10°-20°	78.3	3.6
20°-30°	130.1	5.9
30°-40°	223.8	10.2
40°-50°	402.2	18.3
50°-60°	572.6	26.1
60°-70°	522.0	23.8
70°-80°	222.3	10.1
80°-90°	16.5	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°	2197.0	100.0
0°-180°	2197.0	100.0



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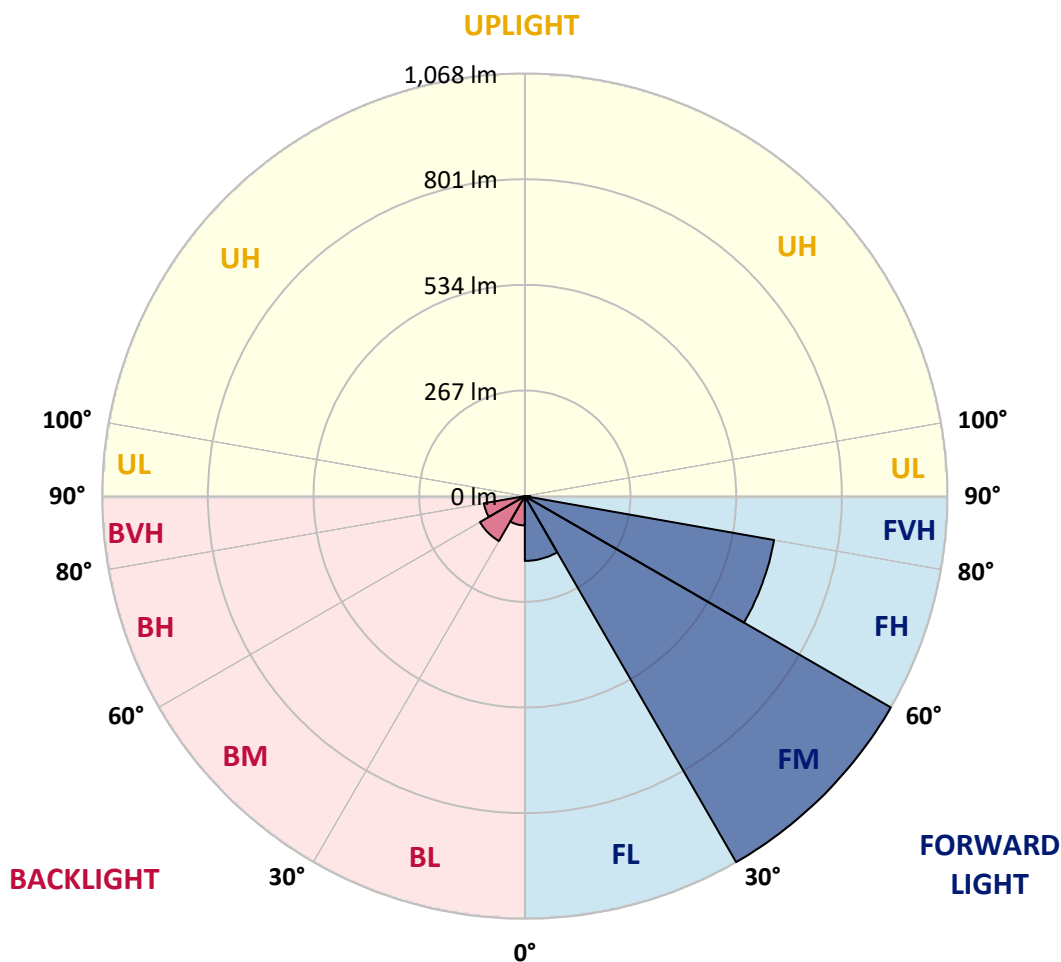
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.7	7.4			
FM (30°-60°)	1067.8	48.6			
FH (60°-80°)	639.4	29.1			G0/660
FVH (80°-90°)	14.1	0.6			G1/100
BL (0°-30°)	73.9	3.4	B0/110		
BM (30°-60°)	130.9	6.0	B0/220		
BH (60°-80°)	104.9	4.8	B0/110		G0/110
BVH (80°-90°)	2.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
2.5°	331.0	334.1	334.1	333.1	330.0	327.9	326.8	324.7	322.6	322.6	323.7
5°	334.1	331.0	335.2	330.0	330.0	330.0	334.1	332.1	331.0	325.8	325.8
7.5°	334.1	331.0	331.0	334.1	331.0	333.1	338.3	336.2	340.4	331.0	333.1
10°	324.7	323.7	325.8	330.0	331.0	335.2	340.4	350.9	352.0	345.7	344.6
12.5°	305.9	304.8	312.1	314.2	326.8	337.3	353.0	361.4	370.8	367.7	361.4
15°	292.2	294.3	299.6	308.0	319.5	338.3	356.1	375.0	391.8	387.6	385.5
17.5°	297.5	296.4	297.5	302.7	317.4	336.2	366.6	388.6	412.7	412.7	414.8
20°	313.2	316.3	315.3	312.1	319.5	335.2	366.6	405.4	445.2	442.0	442.0
22.5°	340.4	341.5	335.2	333.1	332.1	341.5	372.9	426.3	472.4	478.7	476.6
25°	368.7	369.8	367.7	361.4	353.0	355.1	384.4	443.1	510.1	520.6	518.5
27.5°	415.9	414.8	409.6	402.2	389.7	380.2	402.2	455.7	539.5	557.3	552.0
30°	463.0	459.8	452.5	443.1	431.6	413.8	424.2	479.7	576.1	592.9	581.4
32.5°	520.6	514.3	516.4	501.7	477.7	449.4	447.3	501.7	605.4	629.5	620.1
35°	593.9	586.6	576.1	562.5	539.5	501.7	490.2	537.4	654.7	672.5	672.5
37.5°	690.3	697.6	685.1	628.5	603.3	567.7	543.6	574.0	697.6	740.6	730.1
40°	788.8	795.0	772.0	730.1	675.6	631.6	617.0	633.7	762.6	813.9	794.0
42.5°	868.4	876.7	868.4	813.9	770.9	714.4	688.2	703.9	846.4	908.2	882.0
45°	952.2	960.5	951.1	915.5	873.6	841.1	775.1	795.0	934.4	1026.5	997.2
47.5°	1015.0	1025.5	1008.7	1001.4	967.9	962.6	850.6	872.6	1026.5	1145.9	1109.3
50°	1029.7	1041.2	1055.9	1064.2	1052.7	1065.3	952.2	971.0	1122.9	1255.9	1220.3
52.5°	995.1	1006.6	1039.1	1077.9	1131.3	1169.0	1054.8	1070.5	1223.5	1347.1	1328.2
55°	893.5	904.0	970.0	1022.3	1150.1	1211.9	1153.3	1219.3	1295.7	1442.4	1396.3
57.5°	722.8	735.3	822.3	902.9	1087.3	1187.8	1211.9	1342.9	1415.1	1512.6	1459.1
60°	513.3	520.6	596.0	738.5	913.4	1067.4	1200.4	1435.1	1509.4	1606.8	1578.6
62.5°	295.4	301.7	380.2	514.3	689.2	891.4	1149.1	1522.0	1611.0	1710.5	1694.8
65°	195.9	198.0	251.4	324.7	448.3	656.8	1019.2	1599.5	1711.6	1793.3	1775.5
67.5°	128.8	140.4	182.3	232.5	287.0	363.5	830.7	1632.0	1826.8	1908.5	1904.3
70°	92.2	96.4	130.9	179.1	215.8	204.3	486.0	1402.6	1821.6	1939.9	1905.4
72.5°	54.5	58.7	86.9	134.1	169.7	129.9	227.3	992.0	1509.4	1548.2	1538.8
75°	39.8	39.8	53.4	96.4	123.6	93.2	106.8	627.4	1002.4	1088.3	1087.3
77.5°	28.3	29.3	36.7	57.6	95.3	68.1	58.7	348.8	547.8	599.2	570.9
80°	16.8	17.8	25.1	34.6	69.1	49.2	38.8	159.2	210.5	212.6	202.2
82.5°	12.6	12.6	16.8	24.1	48.2	33.5	24.1	60.8	68.1	61.8	52.4
85°	7.3	6.3	12.6	17.8	28.3	18.9	16.8	28.3	31.4	23.0	20.9
87.5°	2.1	2.1	5.2	6.3	12.6	10.5	7.3	10.5	14.7	8.4	6.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
2.5°	321.6	318.4	313.2	311.1	303.8	300.6	298.5	293.3	294.3	291.2	291.2
5°	318.4	318.4	308.0	296.4	284.9	277.6	269.2	258.7	258.7	254.5	255.6
7.5°	330.0	321.6	308.0	287.0	268.2	251.4	244.1	233.6	227.3	224.2	224.2
10°	337.3	328.9	305.9	280.7	256.6	235.7	220.0	205.3	196.9	196.9	195.9
12.5°	357.2	344.6	314.2	279.7	244.1	212.6	188.5	171.8	160.3	151.9	154.0
15°	374.0	360.3	318.4	271.3	222.1	178.1	148.7	117.3	101.6	93.2	90.1
17.5°	400.1	375.0	327.9	256.6	188.5	139.3	96.4	70.2	63.9	62.8	62.8
20°	422.1	392.8	328.9	228.4	155.0	89.0	61.8	57.6	54.5	53.4	52.4
22.5°	452.5	415.9	324.7	195.9	111.0	59.7	52.4	48.2	46.1	42.9	42.9
25°	483.9	446.2	316.3	165.5	68.1	51.3	46.1	41.9	37.7	35.6	36.7
27.5°	517.5	469.3	292.2	128.8	52.4	45.0	37.7	34.6	32.5	31.4	31.4
30°	544.7	483.9	256.6	85.9	47.1	39.8	33.5	30.4	28.3	27.2	27.2
32.5°	564.6	496.5	216.8	57.6	42.9	35.6	30.4	27.2	25.1	24.1	24.1
35°	598.1	505.9	180.2	49.2	38.8	31.4	26.2	24.1	22.0	22.0	22.0
37.5°	649.4	518.5	143.5	45.0	35.6	28.3	25.1	22.0	20.9	19.9	19.9
40°	694.5	534.2	102.7	40.9	32.5	26.2	22.0	19.9	18.9	17.8	17.8
42.5°	759.4	552.0	67.0	36.7	29.3	24.1	19.9	17.8	16.8	15.7	15.7
45°	842.2	581.4	52.4	32.5	26.2	22.0	18.9	16.8	14.7	14.7	13.6
47.5°	930.2	617.0	47.1	30.4	24.1	19.9	16.8	14.7	13.6	12.6	12.6
50°	1011.9	651.5	44.0	28.3	22.0	18.9	15.7	13.6	11.5	10.5	10.5
52.5°	1085.2	684.0	41.9	26.2	20.9	16.8	13.6	11.5	10.5	9.4	9.4
55°	1123.9	698.7	40.9	25.1	18.9	15.7	12.6	10.5	9.4	8.4	8.4
57.5°	1184.7	717.5	39.8	24.1	17.8	13.6	11.5	9.4	8.4	7.3	7.3
60°	1283.2	779.3	38.8	23.0	16.8	13.6	10.5	8.4	6.3	5.2	5.2
62.5°	1364.9	830.7	34.6	19.9	14.7	11.5	8.4	6.3	4.2	3.1	3.1
65°	1458.1	854.7	30.4	17.8	12.6	9.4	6.3	4.2	3.1	1.0	1.0
67.5°	1559.7	891.4	25.1	15.7	11.5	7.3	5.2	3.1	1.0	0.0	0.0
70°	1506.3	845.3	20.9	13.6	10.5	6.3	4.2	2.1	0.0	0.0	0.0
72.5°	1180.5	605.4	16.8	12.6	9.4	6.3	4.2	1.0	0.0	0.0	0.0
75°	788.8	342.5	14.7	10.5	7.3	5.2	3.1	1.0	0.0	0.0	0.0
77.5°	428.4	154.0	12.6	9.4	6.3	4.2	3.1	1.0	0.0	0.0	0.0
80°	139.3	60.8	10.5	8.4	6.3	4.2	3.1	1.0	0.0	0.0	0.0
82.5°	37.7	18.9	10.5	8.4	6.3	4.2	3.1	1.0	0.0	0.0	0.0
85°	15.7	12.6	10.5	8.4	6.3	4.2	3.1	1.0	0.0	0.0	0.0
87.5°	6.3	4.2	4.2	5.2	4.2	3.1	2.1	1.0	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°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
2.5°	292.2	294.3	295.4	295.4	300.6	305.9	312.1	317.4	317.4	320.5	323.7
5°	256.6	258.7	261.9	271.3	281.8	293.3	304.8	313.2	324.7	330.0	333.1
7.5°	227.3	229.4	237.8	247.2	261.9	281.8	301.7	320.5	332.1	337.3	341.5
10°	196.9	200.1	209.5	226.3	245.1	269.2	292.2	324.7	343.6	354.0	358.2
12.5°	152.9	161.3	173.9	191.7	215.8	252.4	295.4	328.9	361.4	374.0	382.3
15°	96.4	103.7	123.6	151.9	184.4	227.3	287.0	335.2	380.2	392.8	406.4
17.5°	61.8	62.8	69.1	99.5	141.4	195.9	274.4	344.6	401.2	419.0	439.9
20°	52.4	54.5	55.5	59.7	94.3	161.3	248.3	356.1	426.3	450.4	470.3
22.5°	44.0	45.0	47.1	50.3	56.6	117.3	212.6	356.1	448.3	483.9	507.0
25°	35.6	37.7	39.8	42.9	49.2	73.3	176.0	349.9	474.5	518.5	547.8
27.5°	31.4	31.4	33.5	36.7	41.9	51.3	139.3	331.0	494.4	539.5	578.2
30°	27.2	28.3	29.3	32.5	37.7	45.0	96.4	300.6	515.4	580.3	624.3
32.5°	24.1	24.1	26.2	28.3	33.5	40.9	61.8	254.5	542.6	611.7	673.5
35°	22.0	22.0	23.0	25.1	30.4	36.7	48.2	215.8	575.1	671.4	739.5
37.5°	19.9	19.9	20.9	23.0	27.2	32.5	44.0	185.4	608.6	731.1	830.7
40°	17.8	17.8	18.9	20.9	24.1	29.3	39.8	149.8	650.5	819.1	930.2
42.5°	15.7	15.7	16.8	18.9	22.0	26.2	34.6	112.1	706.0	914.5	1059.0
45°	13.6	13.6	14.7	16.8	18.9	24.1	31.4	85.9	766.8	1020.2	1172.1
47.5°	11.5	12.6	13.6	15.7	17.8	22.0	28.3	75.4	826.5	1132.3	1297.8
50°	10.5	10.5	11.5	13.6	16.8	19.9	26.2	74.4	887.2	1218.2	1426.7
52.5°	9.4	9.4	10.5	12.6	15.7	18.9	25.1	76.5	937.5	1297.8	1516.8
55°	8.4	8.4	9.4	10.5	13.6	17.8	23.0	78.6	973.1	1378.5	1589.0
57.5°	7.3	7.3	8.4	10.5	12.6	15.7	20.9	80.7	1030.7	1458.1	1693.8
60°	5.2	5.2	7.3	9.4	11.5	13.6	19.9	82.8	1122.9	1568.1	1782.8
62.5°	3.1	3.1	4.2	7.3	9.4	12.6	17.8	78.6	1208.8	1709.5	1919.0
65°	1.0	2.1	3.1	4.2	7.3	10.5	14.7	71.2	1281.1	1850.9	2044.7
67.5°	0.0	0.0	1.0	3.1	6.3	8.4	12.6	52.4	1292.6	1914.8	2173.5
70°	0.0	0.0	1.0	3.1	5.2	8.4	11.5	29.3	1100.9	1710.5	1992.3
72.5°	0.0	0.0	0.0	2.1	5.2	7.3	10.5	22.0	811.8	1289.5	1574.4
75°	0.0	0.0	0.0	1.0	4.2	6.3	9.4	16.8	493.4	860.0	1027.6
77.5°	0.0	0.0	0.0	1.0	3.1	6.3	9.4	14.7	173.9	409.6	482.9
80°	0.0	0.0	0.0	2.1	4.2	6.3	8.4	12.6	41.9	102.7	138.3
82.5°	0.0	0.0	0.0	1.0	3.1	5.2	7.3	10.5	16.8	30.4	48.2
85°	0.0	0.0	0.0	1.0	2.1	5.2	7.3	9.4	11.5	14.7	20.9
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	3.1	4.2	4.2	4.2	7.3
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5
2.5°	322.6	326.8	328.9	333.1	335.2	334.1	333.1	336.2	334.1	331.0
5°	334.1	334.1	337.3	338.3	338.3	335.2	337.3	336.2	334.1	334.1
7.5°	346.7	352.0	352.0	345.7	344.6	342.5	342.5	334.1	331.0	334.1
10°	359.3	363.5	364.5	357.2	347.8	343.6	338.3	327.9	322.6	324.7
12.5°	385.5	385.5	374.0	365.6	353.0	338.3	325.8	311.1	303.8	305.9
15°	404.3	408.5	392.8	374.0	352.0	324.7	311.1	299.6	295.4	292.2
17.5°	441.0	432.6	407.5	380.2	348.8	320.5	311.1	300.6	297.5	297.5
20°	472.4	468.2	430.5	381.3	347.8	328.9	322.6	317.4	316.3	313.2
22.5°	515.4	496.5	448.3	392.8	359.3	342.5	340.4	345.7	342.5	340.4
25°	547.8	532.1	461.9	409.6	377.1	371.9	375.0	380.2	371.9	368.7
27.5°	591.8	562.5	488.1	431.6	401.2	406.4	416.9	417.9	412.7	415.9
30°	632.7	601.3	508.0	456.7	442.0	447.3	463.0	474.5	467.2	463.0
32.5°	691.3	643.2	547.8	498.6	493.4	507.0	524.8	532.1	522.7	520.6
35°	753.1	691.3	588.7	545.7	555.2	574.0	589.7	602.3	587.6	593.9
37.5°	849.5	768.9	657.8	620.1	624.3	631.6	661.0	695.5	702.9	690.3
40°	950.1	852.7	721.7	692.4	701.8	721.7	756.3	788.8	805.5	788.8
42.5°	1066.3	933.3	820.2	785.6	795.0	823.3	869.4	895.6	893.5	868.4
45°	1209.8	1045.4	912.4	869.4	904.0	929.1	975.2	978.3	958.4	952.2
47.5°	1319.8	1139.7	1011.9	984.6	1031.8	1032.8	1043.3	1044.3	1022.3	1015.0
50°	1441.3	1248.6	1122.9	1083.1	1162.7	1126.0	1097.8	1078.9	1045.4	1029.7
52.5°	1560.7	1326.1	1225.6	1184.7	1267.5	1170.0	1118.7	1061.1	1011.9	995.1
55°	1624.6	1453.9	1375.3	1280.0	1290.5	1182.6	1053.8	981.5	897.7	893.5
57.5°	1700.1	1539.8	1502.1	1345.0	1251.7	1094.6	918.6	823.3	733.2	722.8
60°	1789.1	1676.0	1636.2	1334.5	1114.5	919.7	728.0	605.4	520.6	513.3
62.5°	1888.6	1837.3	1718.9	1231.8	885.1	647.3	480.8	378.1	299.6	295.4
65°	2045.7	1972.4	1762.9	1037.0	585.5	414.8	319.5	245.1	198.0	195.9
67.5°	2144.2	2023.7	1664.4	739.5	324.7	274.4	224.2	178.1	137.2	128.8
70°	2004.9	1857.2	1316.7	423.2	188.5	208.4	172.8	119.4	94.3	92.2
72.5°	1601.6	1378.5	886.2	199.0	117.3	163.4	125.7	80.7	56.6	54.5
75°	1092.5	867.3	556.2	92.2	82.8	119.4	92.2	47.1	39.8	39.8
77.5°	488.1	442.0	284.9	56.6	61.8	91.1	53.4	32.5	29.3	28.3
80°	148.7	156.1	116.3	38.8	46.1	69.1	32.5	22.0	17.8	16.8
82.5°	50.3	58.7	52.4	23.0	31.4	49.2	22.0	14.7	12.6	12.6
85°	24.1	29.3	26.2	14.7	16.8	24.1	17.8	11.5	7.3	7.3
87.5°	9.4	13.6	9.4	6.3	9.4	12.6	7.3	5.2	2.1	2.1
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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