

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: P676250

Luminaire Tested: **CCW-SA-2D-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676250
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

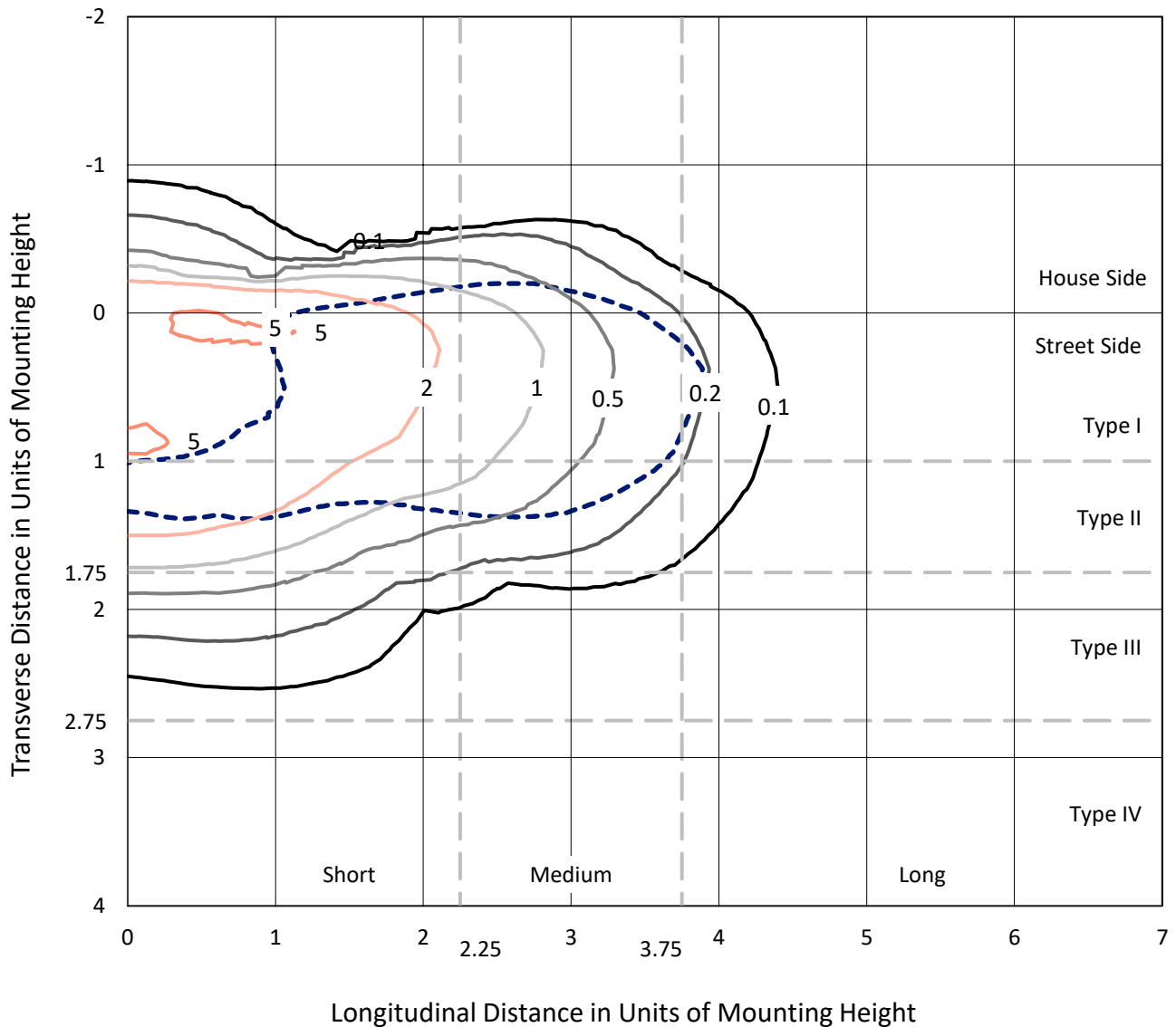
Lumens per Lamp: N/A
Luminaire Lumens: 7200.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

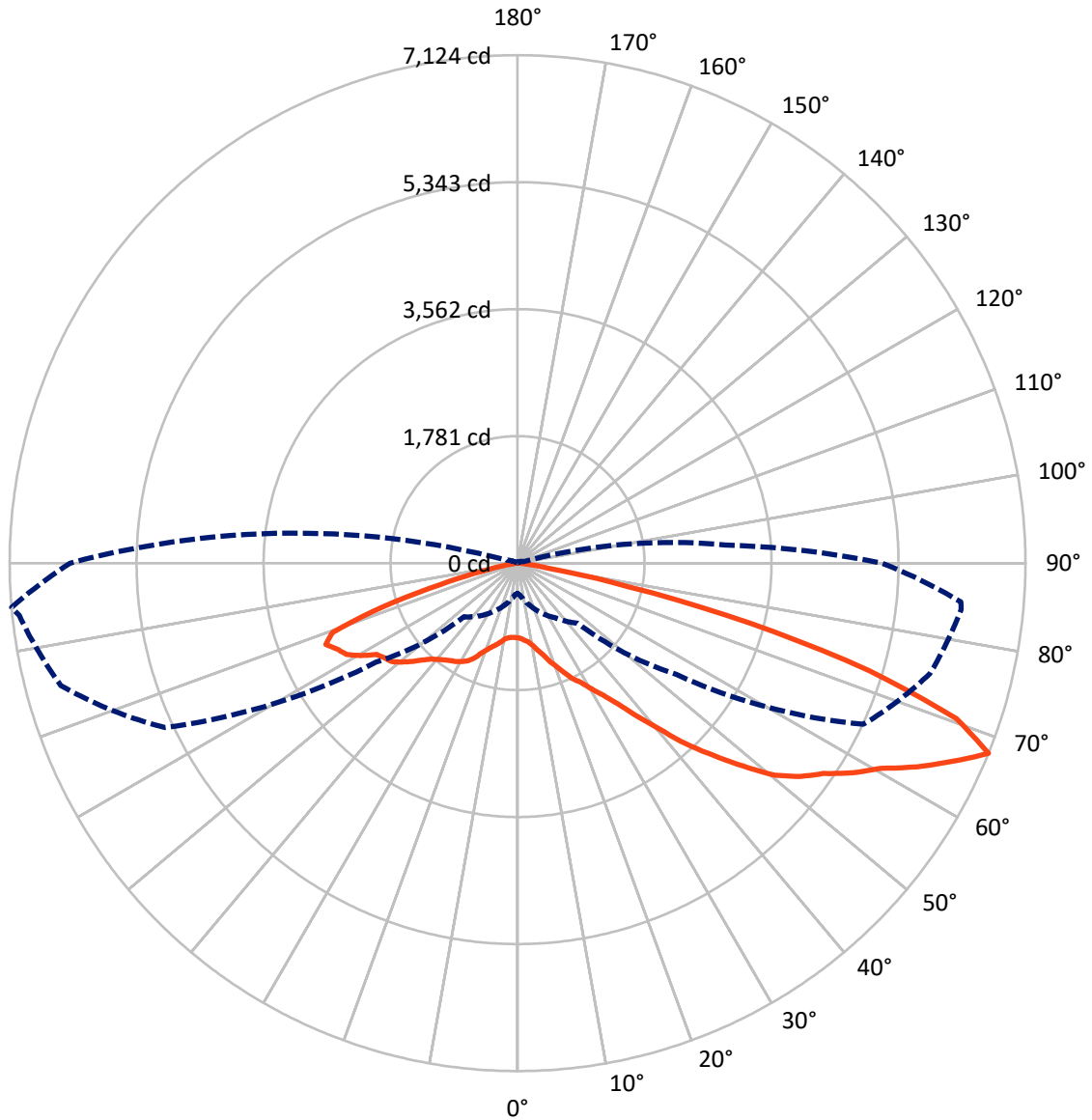
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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	1023.0	0.0	1023.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6177.9	0.0	6177.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	7200.9	0.0	7200.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.3
10°-20°	256.8	3.6
20°-30°	426.4	5.9
30°-40°	733.6	10.2
40°-50°	1318.3	18.3
50°-60°	1876.7	26.1
60°-70°	1710.9	23.8
70°-80°	728.6	10.1
80°-90°	54.2	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°	7200.9	100.0
0°-180°	7200.9	100.0



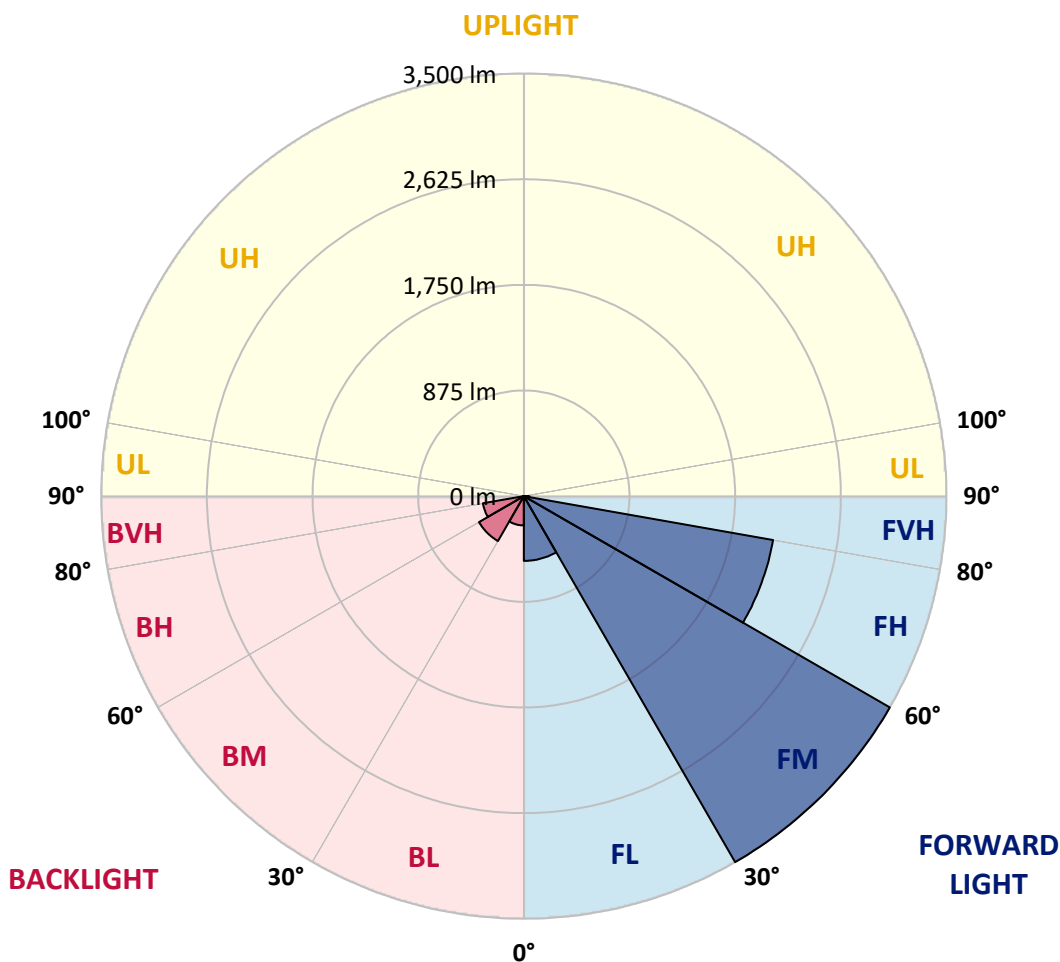
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.4	7.4			
FM (30°-60°)	3499.6	48.6			
FH (60°-80°)	2095.7	29.1			G2/5000
FVH (80°-90°)	46.1	0.6			G1/100
BL (0°-30°)	242.2	3.4	B1/500		
BM (30°-60°)	428.9	6.0	B1/1000		
BH (60°-80°)	343.7	4.8	B1/500		G1/500
BVH (80°-90°)	8.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1084.9	1095.2	1095.2	1091.7	1081.4	1074.6	1071.1	1064.3	1057.4	1057.4	1060.8
5°	1095.2	1084.9	1098.6	1081.4	1081.4	1081.4	1095.2	1088.3	1084.9	1067.7	1067.7
7.5°	1095.2	1084.9	1084.9	1095.2	1084.9	1091.7	1108.9	1102.0	1115.8	1084.9	1091.7
10°	1064.3	1060.8	1067.7	1081.4	1084.9	1098.6	1115.8	1150.1	1153.5	1132.9	1129.5
12.5°	1002.5	999.0	1023.1	1029.9	1071.1	1105.5	1157.0	1184.4	1215.3	1205.0	1184.4
15°	957.8	964.7	981.9	1009.3	1047.1	1108.9	1167.3	1229.1	1284.0	1270.3	1263.4
17.5°	975.0	971.6	975.0	992.2	1040.2	1102.0	1201.6	1273.7	1352.7	1352.7	1359.5
20°	1026.5	1036.8	1033.4	1023.1	1047.1	1098.6	1201.6	1328.6	1459.1	1448.8	1448.8
22.5°	1115.8	1119.2	1098.6	1091.7	1088.3	1119.2	1222.2	1397.3	1548.3	1568.9	1562.1
25°	1208.5	1211.9	1205.0	1184.4	1157.0	1163.8	1260.0	1452.2	1671.9	1706.3	1699.4
27.5°	1363.0	1359.5	1342.4	1318.3	1277.1	1246.2	1318.3	1493.4	1768.1	1826.4	1809.3
30°	1517.5	1507.2	1483.1	1452.2	1414.5	1356.1	1390.4	1572.4	1888.2	1943.2	1905.4
32.5°	1706.3	1685.7	1692.5	1644.5	1565.5	1472.8	1466.0	1644.5	1984.4	2063.3	2032.4
35°	1946.6	1922.6	1888.2	1843.6	1768.1	1644.5	1606.7	1761.2	2145.7	2204.1	2204.1
37.5°	2262.4	2286.5	2245.3	2059.9	1977.5	1860.8	1781.8	1881.4	2286.5	2427.2	2392.9
40°	2585.2	2605.8	2530.2	2392.9	2214.4	2070.2	2022.1	2077.1	2499.3	2667.6	2602.3
42.5°	2846.1	2873.5	2846.1	2667.6	2526.8	2341.4	2255.6	2307.1	2774.0	2976.5	2890.7
45°	3120.7	3148.2	3117.3	3000.6	2863.2	2756.8	2540.5	2605.8	3062.4	3364.5	3268.4
47.5°	3326.7	3361.1	3306.1	3282.1	3172.2	3155.1	2787.7	2859.8	3364.5	3755.9	3635.7
50°	3374.8	3412.5	3460.6	3488.1	3450.3	3491.5	3120.7	3182.5	3680.3	4116.3	3999.6
52.5°	3261.5	3299.3	3405.7	3532.7	3707.8	3831.4	3457.2	3508.7	4009.9	4415.0	4353.2
55°	2928.5	2962.8	3179.1	3350.8	3769.6	3972.2	3779.9	3996.2	4246.8	4727.4	4576.4
57.5°	2368.9	2410.1	2695.0	2959.4	3563.6	3893.2	3972.2	4401.3	4638.2	4957.5	4782.4
60°	1682.2	1706.3	1953.5	2420.4	2993.7	3498.4	3934.4	4703.4	4947.2	5266.4	5173.8
62.5°	968.1	988.7	1246.2	1685.7	2259.0	2921.6	3766.2	4988.4	5280.2	5606.3	5554.8
65°	642.0	648.9	824.0	1064.3	1469.4	2152.6	3340.5	5242.4	5609.8	5877.5	5819.2
67.5°	422.3	460.0	597.4	762.2	940.7	1191.3	2722.5	5348.8	5987.4	6255.2	6241.5
70°	302.1	315.8	429.1	587.1	707.2	669.5	1593.0	4597.0	5970.2	6358.2	6244.9
72.5°	178.5	192.3	285.0	439.4	556.2	425.7	745.0	3251.2	4947.2	5074.2	5043.3
75°	130.5	130.5	175.1	315.8	405.1	305.6	350.2	2056.5	3285.5	3567.0	3563.6
77.5°	92.7	96.1	120.2	188.8	312.4	223.2	192.3	1143.2	1795.5	1963.8	1871.1
80°	54.9	58.4	82.4	113.3	226.6	161.4	127.0	521.8	690.1	696.9	662.6
82.5°	41.2	41.2	54.9	79.0	157.9	109.9	79.0	199.1	223.2	202.6	171.7
85°	24.0	20.6	41.2	58.4	92.7	61.8	54.9	92.7	103.0	75.5	68.7
87.5°	6.9	6.9	17.2	20.6	41.2	34.3	24.0	34.3	48.1	27.5	20.6
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°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1054.0	1043.7	1026.5	1019.6	995.6	985.3	978.4	961.3	964.7	954.4	954.4
5°	1043.7	1043.7	1009.3	971.6	933.8	909.8	882.3	848.0	848.0	834.3	837.7
7.5°	1081.4	1054.0	1009.3	940.7	878.9	824.0	799.9	765.6	745.0	734.7	734.7
10°	1105.5	1078.0	1002.5	920.1	841.1	772.5	721.0	672.9	645.4	645.4	642.0
12.5°	1170.7	1129.5	1029.9	916.7	799.9	696.9	618.0	563.0	525.3	497.8	504.7
15°	1225.6	1181.0	1043.7	889.2	727.8	583.6	487.5	384.5	333.0	305.6	295.3
17.5°	1311.5	1229.1	1074.6	841.1	618.0	456.6	315.8	230.0	209.4	206.0	206.0
20°	1383.6	1287.4	1078.0	748.4	508.1	291.8	202.6	188.8	178.5	175.1	171.7
22.5°	1483.1	1363.0	1064.3	642.0	363.9	195.7	171.7	157.9	151.1	140.8	140.8
25°	1586.1	1462.5	1036.8	542.4	223.2	168.2	151.1	137.3	123.6	116.7	120.2
27.5°	1696.0	1538.0	957.8	422.3	171.7	147.6	123.6	113.3	106.4	103.0	103.0
30°	1785.2	1586.1	841.1	281.5	154.5	130.5	109.9	99.6	92.7	89.3	89.3
32.5°	1850.5	1627.3	710.7	188.8	140.8	116.7	99.6	89.3	82.4	79.0	79.0
35°	1960.3	1658.2	590.5	161.4	127.0	103.0	85.8	79.0	72.1	72.1	72.1
37.5°	2128.6	1699.4	470.3	147.6	116.7	92.7	82.4	72.1	68.7	65.2	65.2
40°	2276.2	1750.9	336.4	133.9	106.4	85.8	72.1	65.2	61.8	58.4	58.4
42.5°	2489.0	1809.3	219.7	120.2	96.1	79.0	65.2	58.4	54.9	51.5	51.5
45°	2760.3	1905.4	171.7	106.4	85.8	72.1	61.8	54.9	48.1	48.1	44.6
47.5°	3048.6	2022.1	154.5	99.6	79.0	65.2	54.9	48.1	44.6	41.2	41.2
50°	3316.4	2135.4	144.2	92.7	72.1	61.8	51.5	44.6	37.8	34.3	34.3
52.5°	3556.7	2241.8	137.3	85.8	68.7	54.9	44.6	37.8	34.3	30.9	30.9
55°	3683.8	2289.9	133.9	82.4	61.8	51.5	41.2	34.3	30.9	27.5	27.5
57.5°	3882.9	2351.7	130.5	79.0	58.4	44.6	37.8	30.9	27.5	24.0	24.0
60°	4205.6	2554.3	127.0	75.5	54.9	44.6	34.3	27.5	20.6	17.2	17.2
62.5°	4473.4	2722.5	113.3	65.2	48.1	37.8	27.5	20.6	13.7	10.3	10.3
65°	4778.9	2801.4	99.6	58.4	41.2	30.9	20.6	13.7	10.3	3.4	3.4
67.5°	5112.0	2921.6	82.4	51.5	37.8	24.0	17.2	10.3	3.4	0.0	0.0
70°	4936.9	2770.5	68.7	44.6	34.3	20.6	13.7	6.9	0.0	0.0	0.0
72.5°	3869.2	1984.4	54.9	41.2	30.9	20.6	13.7	3.4	0.0	0.0	0.0
75°	2585.2	1122.6	48.1	34.3	24.0	17.2	10.3	3.4	0.0	0.0	0.0
77.5°	1404.2	504.7	41.2	30.9	20.6	13.7	10.3	3.4	0.0	0.0	0.0
80°	456.6	199.1	34.3	27.5	20.6	13.7	10.3	3.4	0.0	0.0	0.0
82.5°	123.6	61.8	34.3	27.5	20.6	13.7	10.3	3.4	0.0	0.0	0.0
85°	51.5	41.2	34.3	27.5	20.6	13.7	10.3	3.4	0.0	0.0	0.0
87.5°	20.6	13.7	13.7	17.2	13.7	10.3	6.9	3.4	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°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	957.8	964.7	968.1	968.1	985.3	1002.5	1023.1	1040.2	1040.2	1050.5	1060.8
5°	841.1	848.0	858.3	889.2	923.5	961.3	999.0	1026.5	1064.3	1081.4	1091.7
7.5°	745.0	751.9	779.3	810.2	858.3	923.5	988.7	1050.5	1088.3	1105.5	1119.2
10°	645.4	655.7	686.6	741.6	803.4	882.3	957.8	1064.3	1126.1	1160.4	1174.1
12.5°	501.2	528.7	569.9	628.3	707.2	827.4	968.1	1078.0	1184.4	1225.6	1253.1
15°	315.8	339.9	405.1	497.8	604.2	745.0	940.7	1098.6	1246.2	1287.4	1332.1
17.5°	202.6	206.0	226.6	326.1	463.5	642.0	899.5	1129.5	1314.9	1373.3	1441.9
20°	171.7	178.5	182.0	195.7	309.0	528.7	813.7	1167.3	1397.3	1476.3	1541.5
22.5°	144.2	147.6	154.5	164.8	185.4	384.5	696.9	1167.3	1469.4	1586.1	1661.6
25°	116.7	123.6	130.5	140.8	161.4	240.3	576.8	1146.7	1555.2	1699.4	1795.5
27.5°	103.0	103.0	109.9	120.2	137.3	168.2	456.6	1084.9	1620.4	1768.1	1895.1
30°	89.3	92.7	96.1	106.4	123.6	147.6	315.8	985.3	1689.1	1902.0	2046.2
32.5°	79.0	79.0	85.8	92.7	109.9	133.9	202.6	834.3	1778.4	2005.0	2207.5
35°	72.1	72.1	75.5	82.4	99.6	120.2	157.9	707.2	1884.8	2200.6	2423.8
37.5°	65.2	65.2	68.7	75.5	89.3	106.4	144.2	607.7	1994.7	2396.3	2722.5
40°	58.4	58.4	61.8	68.7	79.0	96.1	130.5	490.9	2132.0	2684.7	3048.6
42.5°	51.5	51.5	54.9	61.8	72.1	85.8	113.3	367.3	2313.9	2997.1	3470.9
45°	44.6	44.6	48.1	54.9	61.8	79.0	103.0	281.5	2513.1	3343.9	3841.7
47.5°	37.8	41.2	44.6	51.5	58.4	72.1	92.7	247.2	2708.8	3711.2	4253.7
50°	34.3	34.3	37.8	44.6	54.9	65.2	85.8	243.8	2907.9	3992.8	4675.9
52.5°	30.9	30.9	34.3	41.2	51.5	61.8	82.4	250.6	3072.7	4253.7	4971.2
55°	27.5	27.5	30.9	34.3	44.6	58.4	75.5	257.5	3189.4	4518.0	5208.1
57.5°	24.0	24.0	27.5	34.3	41.2	51.5	68.7	264.4	3378.2	4778.9	5551.4
60°	17.2	17.2	24.0	30.9	37.8	44.6	65.2	271.2	3680.3	5139.4	5843.2
62.5°	10.3	10.3	13.7	24.0	30.9	41.2	58.4	257.5	3961.9	5602.9	6289.5
65°	3.4	6.9	10.3	13.7	24.0	34.3	48.1	233.5	4198.7	6066.4	6701.5
67.5°	0.0	0.0	3.4	10.3	20.6	27.5	41.2	171.7	4236.5	6275.8	7123.8
70°	0.0	0.0	3.4	10.3	17.2	27.5	37.8	96.1	3608.2	5606.3	6529.8
72.5°	0.0	0.0	0.0	6.9	17.2	24.0	34.3	72.1	2660.7	4226.2	5160.0
75°	0.0	0.0	0.0	3.4	13.7	20.6	30.9	54.9	1617.0	2818.6	3367.9
77.5°	0.0	0.0	0.0	3.4	10.3	20.6	30.9	48.1	569.9	1342.4	1582.7
80°	0.0	0.0	0.0	6.9	13.7	20.6	27.5	41.2	137.3	336.4	453.2
82.5°	0.0	0.0	0.0	3.4	10.3	17.2	24.0	34.3	54.9	99.6	157.9
85°	0.0	0.0	0.0	3.4	6.9	17.2	24.0	30.9	37.8	48.1	68.7
87.5°	0.0	0.0	0.0	0.0	3.4	6.9	10.3	13.7	13.7	13.7	24.0
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):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1057.4	1071.1	1078.0	1091.7	1098.6	1095.2	1091.7	1102.0	1095.2	1084.9
5°	1095.2	1095.2	1105.5	1108.9	1108.9	1098.6	1105.5	1102.0	1095.2	1095.2
7.5°	1136.4	1153.5	1153.5	1132.9	1129.5	1122.6	1122.6	1095.2	1084.9	1095.2
10°	1177.6	1191.3	1194.7	1170.7	1139.8	1126.1	1108.9	1074.6	1057.4	1064.3
12.5°	1263.4	1263.4	1225.6	1198.2	1157.0	1108.9	1067.7	1019.6	995.6	1002.5
15°	1325.2	1338.9	1287.4	1225.6	1153.5	1064.3	1019.6	981.9	968.1	957.8
17.5°	1445.4	1417.9	1335.5	1246.2	1143.2	1050.5	1019.6	985.3	975.0	975.0
20°	1548.3	1534.6	1411.0	1249.7	1139.8	1078.0	1057.4	1040.2	1036.8	1026.5
22.5°	1689.1	1627.3	1469.4	1287.4	1177.6	1122.6	1115.8	1132.9	1122.6	1115.8
25°	1795.5	1744.0	1514.0	1342.4	1235.9	1218.8	1229.1	1246.2	1218.8	1208.5
27.5°	1939.7	1843.6	1599.8	1414.5	1314.9	1332.1	1366.4	1369.8	1352.7	1363.0
30°	2073.6	1970.6	1665.1	1496.9	1448.8	1466.0	1517.5	1555.2	1531.2	1517.5
32.5°	2265.9	2108.0	1795.5	1634.2	1617.0	1661.6	1720.0	1744.0	1713.1	1706.3
35°	2468.4	2265.9	1929.4	1788.7	1819.6	1881.4	1932.9	1974.1	1926.0	1946.6
37.5°	2784.3	2519.9	2156.0	2032.4	2046.2	2070.2	2166.3	2279.6	2303.6	2262.4
40°	3113.9	2794.6	2365.4	2269.3	2300.2	2365.4	2478.7	2585.2	2640.1	2585.2
42.5°	3494.9	3058.9	2688.2	2574.9	2605.8	2698.5	2849.5	2935.3	2928.5	2846.1
45°	3965.3	3426.3	2990.3	2849.5	2962.8	3045.2	3196.3	3206.6	3141.3	3120.7
47.5°	4325.8	3735.3	3316.4	3227.2	3381.6	3385.1	3419.4	3422.8	3350.8	3326.7
50°	4724.0	4092.3	3680.3	3549.9	3810.8	3690.6	3597.9	3536.1	3426.3	3374.8
52.5°	5115.4	4346.4	4016.8	3882.9	4154.1	3834.8	3666.6	3477.8	3316.4	3261.5
55°	5324.8	4765.2	4507.7	4195.3	4229.6	3876.0	3453.7	3216.9	2942.2	2928.5
57.5°	5572.0	5046.7	4923.1	4408.2	4102.6	3587.6	3010.9	2698.5	2403.2	2368.9
60°	5863.8	5493.0	5362.6	4373.8	3652.9	3014.3	2386.0	1984.4	1706.3	1682.2
62.5°	6190.0	6021.7	5633.8	4037.4	2901.0	2121.7	1575.8	1239.4	981.9	968.1
65°	6704.9	6464.6	5778.0	3398.8	1919.1	1359.5	1047.1	803.4	648.9	642.0
67.5°	7027.7	6632.8	5455.3	2423.8	1064.3	899.5	734.7	583.6	449.7	422.3
70°	6571.0	6087.0	4315.5	1387.0	618.0	683.2	566.5	391.4	309.0	302.1
72.5°	5249.3	4518.0	2904.4	652.3	384.5	535.6	412.0	264.4	185.4	178.5
75°	3580.8	2842.6	1823.0	302.1	271.2	391.4	302.1	154.5	130.5	130.5
77.5°	1599.8	1448.8	933.8	185.4	202.6	298.7	175.1	106.4	96.1	92.7
80°	487.5	511.5	381.1	127.0	151.1	226.6	106.4	72.1	58.4	54.9
82.5°	164.8	192.3	171.7	75.5	103.0	161.4	72.1	48.1	41.2	41.2
85°	79.0	96.1	85.8	48.1	54.9	79.0	58.4	37.8	24.0	24.0
87.5°	30.9	44.6	30.9	20.6	30.9	41.2	24.0	17.2	6.9	6.9
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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