

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: P676343

Luminaire Tested: **CCW-SA-1D-840-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676343
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

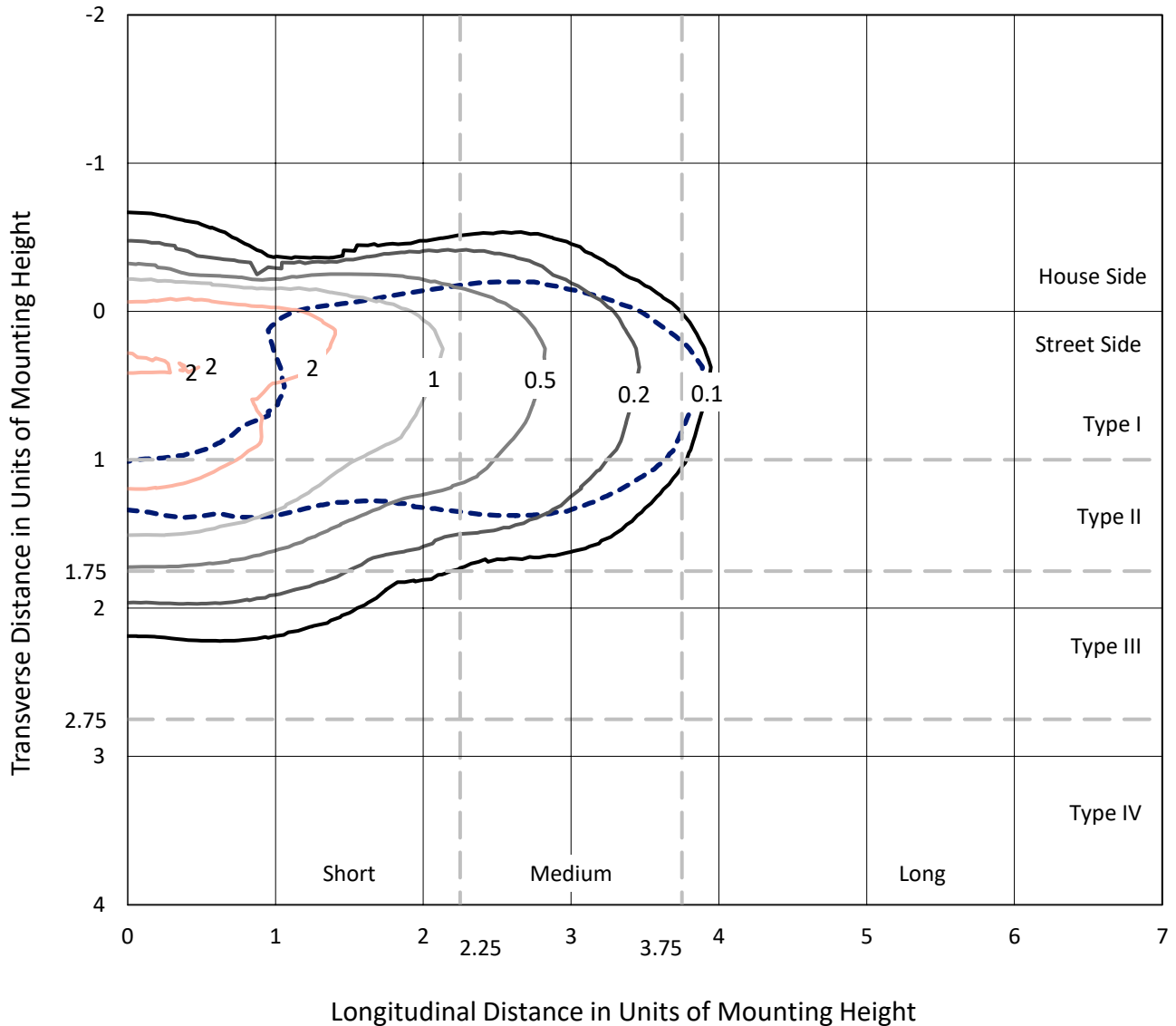
Lumens per Lamp: N/A
Luminaire Lumens: 3671 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

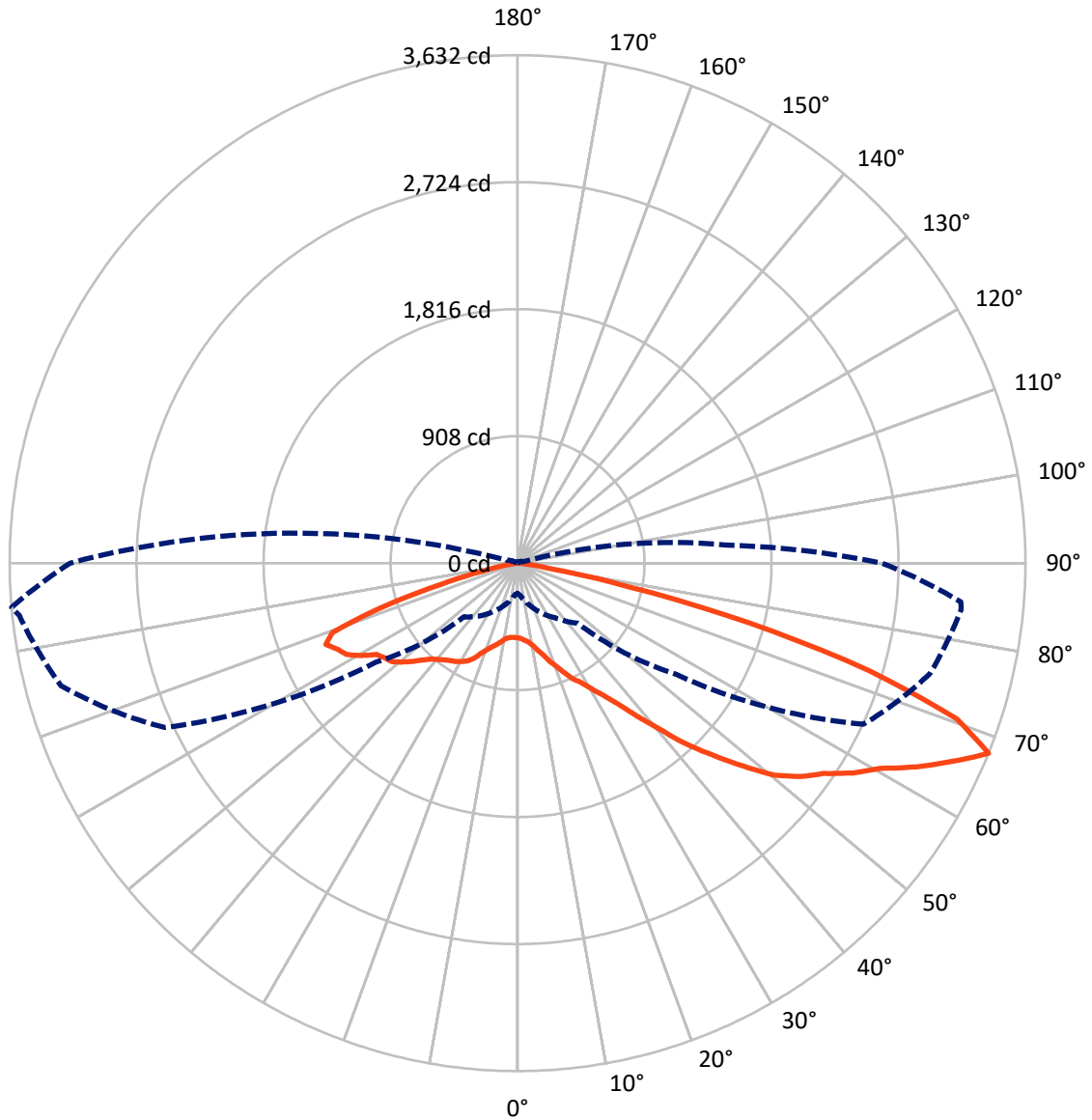
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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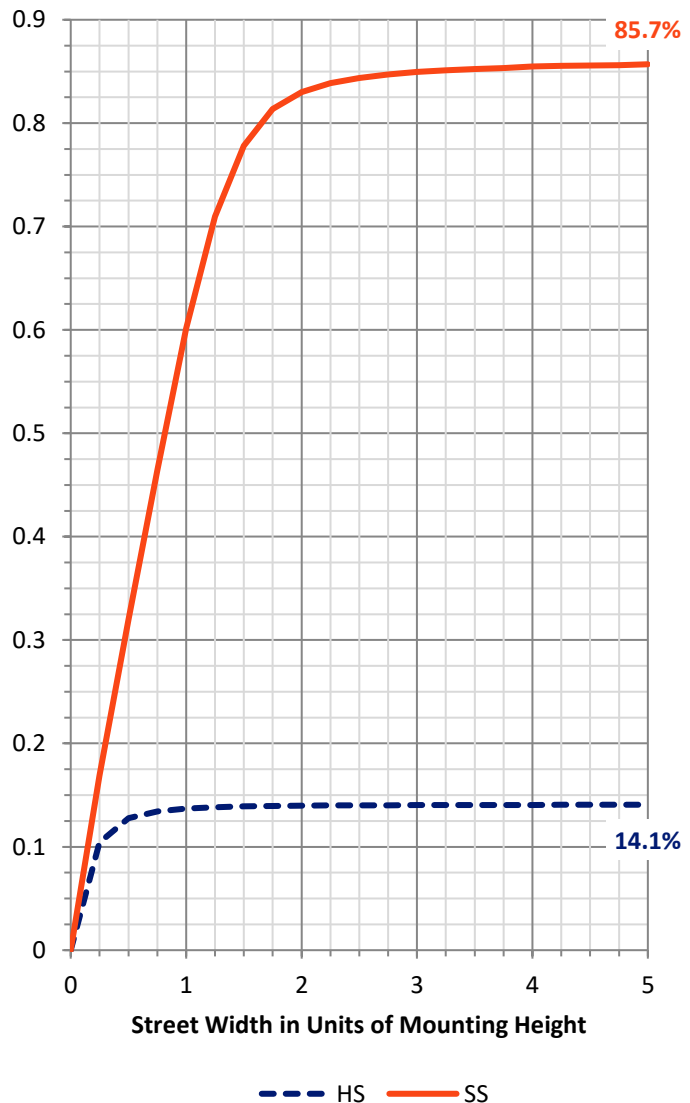
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	521.6	0.0	521.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3149.4	0.0	3149.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	3671.0	0.0	3671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.3
10°-20°	130.9	3.6
20°-30°	217.4	5.9
30°-40°	374.0	10.2
40°-50°	672.0	18.3
50°-60°	956.7	26.1
60°-70°	872.2	23.8
70°-80°	371.4	10.1
80°-90°	27.7	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°	3671.0	100.0
0°-180°	3671.0	100.0



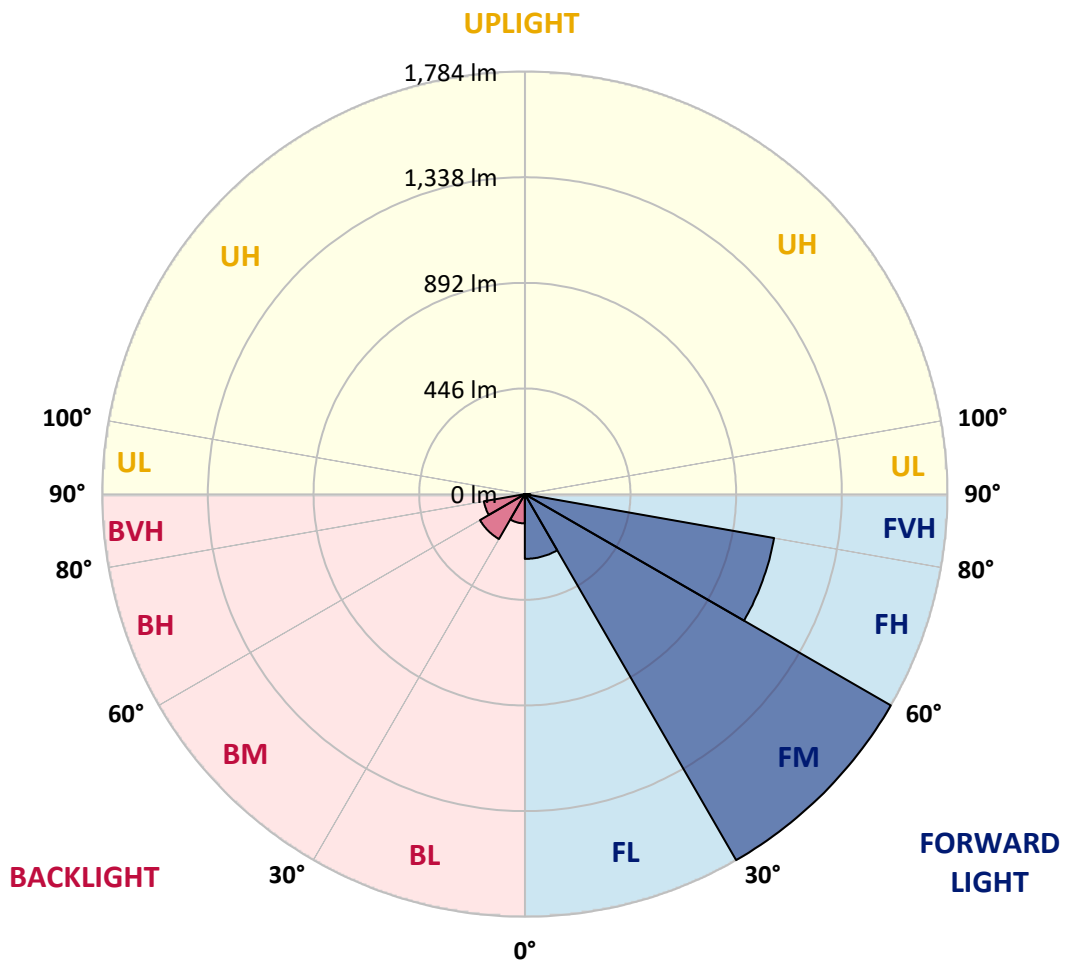
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.5	7.4			
FM (30°-60°)	1784.1	48.6			
FH (60°-80°)	1068.4	29.1			G1/1800
FVH (80°-90°)	23.5	0.6			G1/100
BL (0°-30°)	123.5	3.4	B1/500		
BM (30°-60°)	218.7	6.0	B0/220		
BH (60°-80°)	175.3	4.8	B1/500		G1/500
BVH (80°-90°)	4.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8
2.5°	553.1	558.3	558.3	556.6	551.3	547.8	546.1	542.6	539.1	539.1	540.8
5°	558.3	553.1	560.1	551.3	551.3	551.3	558.3	554.8	553.1	544.3	544.3
7.5°	558.3	553.1	553.1	558.3	553.1	556.6	565.3	561.8	568.8	553.1	556.6
10°	542.6	540.8	544.3	551.3	553.1	560.1	568.8	586.3	588.1	577.6	575.8
12.5°	511.1	509.3	521.6	525.1	546.1	563.6	589.8	603.8	619.6	614.3	603.8
15°	488.3	491.8	500.6	514.6	533.8	565.3	595.1	626.6	654.6	647.6	644.1
17.5°	497.1	495.3	497.1	505.8	530.3	561.8	612.6	649.3	689.6	689.6	693.1
20°	523.3	528.6	526.8	521.6	533.8	560.1	612.6	677.3	743.8	738.6	738.6
22.5°	568.8	570.6	560.1	556.6	554.8	570.6	623.1	712.3	789.3	799.8	796.3
25°	616.1	617.8	614.3	603.8	589.8	593.3	642.3	740.3	852.3	869.8	866.3
27.5°	694.8	693.1	684.3	672.1	651.1	635.3	672.1	761.3	901.3	931.1	922.3
30°	773.6	768.3	756.1	740.3	721.1	691.3	708.8	801.6	962.6	990.6	971.4
32.5°	869.8	859.3	862.8	838.3	798.1	750.8	747.3	838.3	1011.6	1051.9	1036.1
35°	992.4	980.1	962.6	939.9	901.3	838.3	819.1	897.8	1093.9	1123.6	1123.6
37.5°	1153.4	1165.6	1144.6	1050.1	1008.1	948.6	908.3	959.1	1165.6	1237.4	1219.9
40°	1317.9	1328.4	1289.9	1219.9	1128.9	1055.4	1030.9	1058.9	1274.1	1359.9	1326.6
42.5°	1450.9	1464.9	1450.9	1359.9	1288.1	1193.6	1149.9	1176.1	1414.2	1517.4	1473.7
45°	1590.9	1604.9	1589.2	1529.7	1459.7	1405.4	1295.1	1328.4	1561.2	1715.2	1666.2
47.5°	1695.9	1713.4	1685.4	1673.2	1617.2	1608.4	1421.2	1457.9	1715.2	1914.7	1853.4
50°	1720.4	1739.7	1764.2	1778.2	1758.9	1779.9	1590.9	1622.4	1876.2	2098.5	2039.0
52.5°	1662.7	1681.9	1736.2	1800.9	1890.2	1953.2	1762.4	1788.7	2044.2	2250.7	2219.2
55°	1492.9	1510.4	1620.7	1708.2	1921.7	2025.0	1927.0	2037.2	2165.0	2410.0	2333.0
57.5°	1207.6	1228.6	1373.9	1508.7	1816.7	1984.7	2025.0	2243.7	2364.5	2527.3	2438.0
60°	857.6	869.8	995.9	1233.9	1526.2	1783.4	2005.7	2397.8	2522.0	2684.8	2637.5
62.5°	493.6	504.1	635.3	859.3	1151.6	1489.4	1920.0	2543.0	2691.8	2858.1	2831.8
65°	327.3	330.8	420.0	542.6	749.1	1097.4	1702.9	2672.5	2859.8	2996.3	2966.6
67.5°	215.3	234.5	304.5	388.5	479.6	607.3	1387.9	2726.8	3052.3	3188.8	3181.8
70°	154.0	161.0	218.8	299.3	360.5	341.3	812.1	2343.5	3043.6	3241.3	3183.6
72.5°	91.0	98.0	145.3	224.0	283.5	217.0	379.8	1657.4	2522.0	2586.8	2571.0
75°	66.5	66.5	89.3	161.0	206.5	155.8	178.5	1048.4	1674.9	1818.4	1816.7
77.5°	47.3	49.0	61.3	96.3	159.3	113.8	98.0	582.8	915.3	1001.1	953.9
80°	28.0	29.8	42.0	57.8	115.5	82.3	64.8	266.0	351.8	355.3	337.8
82.5°	21.0	21.0	28.0	40.3	80.5	56.0	40.3	101.5	113.8	103.3	87.5
85°	12.3	10.5	21.0	29.8	47.3	31.5	28.0	47.3	52.5	38.5	35.0
87.5°	3.5	3.5	8.8	10.5	21.0	17.5	12.3	17.5	24.5	14.0	10.5
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°	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8
2.5°	537.3	532.1	523.3	519.8	507.6	502.3	498.8	490.1	491.8	486.6	486.6
5°	532.1	532.1	514.6	495.3	476.1	463.8	449.8	432.3	432.3	425.3	427.0
7.5°	551.3	537.3	514.6	479.6	448.0	420.0	407.8	390.3	379.8	374.5	374.5
10°	563.6	549.6	511.1	469.1	428.8	393.8	367.5	343.0	329.0	329.0	327.3
12.5°	596.8	575.8	525.1	467.3	407.8	355.3	315.0	287.0	267.8	253.8	257.3
15°	624.8	602.1	532.1	453.3	371.0	297.5	248.5	196.0	169.8	155.8	150.5
17.5°	668.6	626.6	547.8	428.8	315.0	232.8	161.0	117.3	106.8	105.0	105.0
20°	705.3	656.3	549.6	381.5	259.0	148.8	103.3	96.3	91.0	89.3	87.5
22.5°	756.1	694.8	542.6	327.3	185.5	99.8	87.5	80.5	77.0	71.8	71.8
25°	808.6	745.6	528.6	276.5	113.8	85.8	77.0	70.0	63.0	59.5	61.3
27.5°	864.6	784.1	488.3	215.3	87.5	75.3	63.0	57.8	54.3	52.5	52.5
30°	910.1	808.6	428.8	143.5	78.8	66.5	56.0	50.8	47.3	45.5	45.5
32.5°	943.4	829.6	362.3	96.3	71.8	59.5	50.8	45.5	42.0	40.3	40.3
35°	999.4	845.3	301.0	82.3	64.8	52.5	43.8	40.3	36.8	36.8	36.8
37.5°	1085.1	866.3	239.8	75.3	59.5	47.3	42.0	36.8	35.0	33.3	33.3
40°	1160.4	892.6	171.5	68.3	54.3	43.8	36.8	33.3	31.5	29.8	29.8
42.5°	1268.9	922.3	112.0	61.3	49.0	40.3	33.3	29.8	28.0	26.3	26.3
45°	1407.2	971.4	87.5	54.3	43.8	36.8	31.5	28.0	24.5	24.5	22.8
47.5°	1554.2	1030.9	78.8	50.8	40.3	33.3	28.0	24.5	22.8	21.0	21.0
50°	1690.7	1088.6	73.5	47.3	36.8	31.5	26.3	22.8	19.3	17.5	17.5
52.5°	1813.2	1142.9	70.0	43.8	35.0	28.0	22.8	19.3	17.5	15.8	15.8
55°	1878.0	1167.4	68.3	42.0	31.5	26.3	21.0	17.5	15.8	14.0	14.0
57.5°	1979.5	1198.9	66.5	40.3	29.8	22.8	19.3	15.8	14.0	12.3	12.3
60°	2144.0	1302.1	64.8	38.5	28.0	22.8	17.5	14.0	10.5	8.8	8.8
62.5°	2280.5	1387.9	57.8	33.3	24.5	19.3	14.0	10.5	7.0	5.3	5.3
65°	2436.3	1428.2	50.8	29.8	21.0	15.8	10.5	7.0	5.3	1.8	1.8
67.5°	2606.0	1489.4	42.0	26.3	19.3	12.3	8.8	5.3	1.8	0.0	0.0
70°	2516.8	1412.4	35.0	22.8	17.5	10.5	7.0	3.5	0.0	0.0	0.0
72.5°	1972.5	1011.6	28.0	21.0	15.8	10.5	7.0	1.8	0.0	0.0	0.0
75°	1317.9	572.3	24.5	17.5	12.3	8.8	5.3	1.8	0.0	0.0	0.0
77.5°	715.8	257.3	21.0	15.8	10.5	7.0	5.3	1.8	0.0	0.0	0.0
80°	232.8	101.5	17.5	14.0	10.5	7.0	5.3	1.8	0.0	0.0	0.0
82.5°	63.0	31.5	17.5	14.0	10.5	7.0	5.3	1.8	0.0	0.0	0.0
85°	26.3	21.0	17.5	14.0	10.5	7.0	5.3	1.8	0.0	0.0	0.0
87.5°	10.5	7.0	7.0	8.8	7.0	5.3	3.5	1.8	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°	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8
2.5°	488.3	491.8	493.6	493.6	502.3	511.1	521.6	530.3	530.3	535.6	540.8
5°	428.8	432.3	437.5	453.3	470.8	490.1	509.3	523.3	542.6	551.3	556.6
7.5°	379.8	383.3	397.3	413.0	437.5	470.8	504.1	535.6	554.8	563.6	570.6
10°	329.0	334.3	350.0	378.0	409.5	449.8	488.3	542.6	574.1	591.6	598.6
12.5°	255.5	269.5	290.5	320.3	360.5	421.8	493.6	549.6	603.8	624.8	638.8
15°	161.0	173.3	206.5	253.8	308.0	379.8	479.6	560.1	635.3	656.3	679.1
17.5°	103.3	105.0	115.5	166.3	236.3	327.3	458.5	575.8	670.3	700.1	735.1
20°	87.5	91.0	92.8	99.8	157.5	269.5	414.8	595.1	712.3	752.6	785.8
22.5°	73.5	75.3	78.8	84.0	94.5	196.0	355.3	595.1	749.1	808.6	847.1
25°	59.5	63.0	66.5	71.8	82.3	122.5	294.0	584.6	792.8	866.3	915.3
27.5°	52.5	52.5	56.0	61.3	70.0	85.8	232.8	553.1	826.1	901.3	966.1
30°	45.5	47.3	49.0	54.3	63.0	75.3	161.0	502.3	861.1	969.6	1043.1
32.5°	40.3	40.3	43.8	47.3	56.0	68.3	103.3	425.3	906.6	1022.1	1125.4
35°	36.8	36.8	38.5	42.0	50.8	61.3	80.5	360.5	960.9	1121.9	1235.6
37.5°	33.3	33.3	35.0	38.5	45.5	54.3	73.5	309.8	1016.9	1221.6	1387.9
40°	29.8	29.8	31.5	35.0	40.3	49.0	66.5	250.3	1086.9	1368.6	1554.2
42.5°	26.3	26.3	28.0	31.5	36.8	43.8	57.8	187.3	1179.6	1527.9	1769.4
45°	22.8	22.8	24.5	28.0	31.5	40.3	52.5	143.5	1281.1	1704.7	1958.5
47.5°	19.3	21.0	22.8	26.3	29.8	36.8	47.3	126.0	1380.9	1892.0	2168.5
50°	17.5	17.5	19.3	22.8	28.0	33.3	43.8	124.3	1482.4	2035.5	2383.8
52.5°	15.8	15.8	17.5	21.0	26.3	31.5	42.0	127.8	1566.4	2168.5	2534.3
55°	14.0	14.0	15.8	17.5	22.8	29.8	38.5	131.3	1625.9	2303.2	2655.0
57.5°	12.3	12.3	14.0	17.5	21.0	26.3	35.0	134.8	1722.2	2436.3	2830.1
60°	8.8	8.8	12.3	15.8	19.3	22.8	33.3	138.3	1876.2	2620.0	2978.8
62.5°	5.3	5.3	7.0	12.3	15.8	21.0	29.8	131.3	2019.7	2856.3	3206.3
65°	1.8	3.5	5.3	7.0	12.3	17.5	24.5	119.0	2140.5	3092.6	3416.4
67.5°	0.0	0.0	1.8	5.3	10.5	14.0	21.0	87.5	2159.7	3199.3	3631.6
70°	0.0	0.0	1.8	5.3	8.8	14.0	19.3	49.0	1839.4	2858.1	3328.9
72.5°	0.0	0.0	0.0	3.5	8.8	12.3	17.5	36.8	1356.4	2154.5	2630.5
75°	0.0	0.0	0.0	1.8	7.0	10.5	15.8	28.0	824.3	1436.9	1716.9
77.5°	0.0	0.0	0.0	1.8	5.3	10.5	15.8	24.5	290.5	684.3	806.8
80°	0.0	0.0	0.0	3.5	7.0	10.5	14.0	21.0	70.0	171.5	231.0
82.5°	0.0	0.0	0.0	1.8	5.3	8.8	12.3	17.5	28.0	50.8	80.5
85°	0.0	0.0	0.0	1.8	3.5	8.8	12.3	15.8	19.3	24.5	35.0
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	5.3	7.0	7.0	7.0	12.3
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°	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8	533.8
2.5°	539.1	546.1	549.6	556.6	560.1	558.3	556.6	561.8	558.3	553.1
5°	558.3	558.3	563.6	565.3	565.3	560.1	563.6	561.8	558.3	558.3
7.5°	579.3	588.1	588.1	577.6	575.8	572.3	572.3	558.3	553.1	558.3
10°	600.3	607.3	609.1	596.8	581.1	574.1	565.3	547.8	539.1	542.6
12.5°	644.1	644.1	624.8	610.8	589.8	565.3	544.3	519.8	507.6	511.1
15°	675.6	682.6	656.3	624.8	588.1	542.6	519.8	500.6	493.6	488.3
17.5°	736.8	722.8	680.8	635.3	582.8	535.6	519.8	502.3	497.1	497.1
20°	789.3	782.3	719.3	637.1	581.1	549.6	539.1	530.3	528.6	523.3
22.5°	861.1	829.6	749.1	656.3	600.3	572.3	568.8	577.6	572.3	568.8
25°	915.3	889.1	771.8	684.3	630.1	621.3	626.6	635.3	621.3	616.1
27.5°	988.9	939.9	815.6	721.1	670.3	679.1	696.6	698.3	689.6	694.8
30°	1057.1	1004.6	848.8	763.1	738.6	747.3	773.6	792.8	780.6	773.6
32.5°	1155.1	1074.6	915.3	833.1	824.3	847.1	876.8	889.1	873.3	869.8
35°	1258.4	1155.1	983.6	911.8	927.6	959.1	985.4	1006.4	981.9	992.4
37.5°	1419.4	1284.6	1099.1	1036.1	1043.1	1055.4	1104.4	1162.1	1174.4	1153.4
40°	1587.4	1424.7	1205.9	1156.9	1172.6	1205.9	1263.6	1317.9	1345.9	1317.9
42.5°	1781.7	1559.4	1370.4	1312.6	1328.4	1375.6	1452.7	1496.4	1492.9	1450.9
45°	2021.5	1746.7	1524.4	1452.7	1510.4	1552.4	1629.4	1634.7	1601.4	1590.9
47.5°	2205.2	1904.2	1690.7	1645.2	1723.9	1725.7	1743.2	1744.9	1708.2	1695.9
50°	2408.3	2086.2	1876.2	1809.7	1942.7	1881.5	1834.2	1802.7	1746.7	1720.4
52.5°	2607.8	2215.7	2047.7	1979.5	2117.7	1955.0	1869.2	1772.9	1690.7	1662.7
55°	2714.5	2429.3	2298.0	2138.7	2156.2	1976.0	1760.7	1639.9	1499.9	1492.9
57.5°	2840.6	2572.8	2509.8	2247.2	2091.5	1828.9	1534.9	1375.6	1225.1	1207.6
60°	2989.3	2800.3	2733.8	2229.7	1862.2	1536.7	1216.4	1011.6	869.8	857.6
62.5°	3155.6	3069.8	2872.1	2058.2	1478.9	1081.6	803.3	631.8	500.6	493.6
65°	3418.1	3295.6	2945.6	1732.7	978.4	693.1	533.8	409.5	330.8	327.3
67.5°	3582.6	3381.4	2781.0	1235.6	542.6	458.5	374.5	297.5	229.3	215.3
70°	3349.9	3103.1	2200.0	707.1	315.0	348.3	288.8	199.5	157.5	154.0
72.5°	2676.0	2303.2	1480.7	332.5	196.0	273.0	210.0	134.8	94.5	91.0
75°	1825.4	1449.2	929.3	154.0	138.3	199.5	154.0	78.8	66.5	66.5
77.5°	815.6	738.6	476.1	94.5	103.3	152.3	89.3	54.3	49.0	47.3
80°	248.5	260.8	194.3	64.8	77.0	115.5	54.3	36.8	29.8	28.0
82.5°	84.0	98.0	87.5	38.5	52.5	82.3	36.8	24.5	21.0	21.0
85°	40.3	49.0	43.8	24.5	28.0	40.3	29.8	19.3	12.3	12.3
87.5°	15.8	22.8	15.8	10.5	15.8	21.0	12.3	8.8	3.5	3.5
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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