

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: P675857

Luminaire Tested: **CCW-SA-1E-750-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675857
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-750-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.8 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

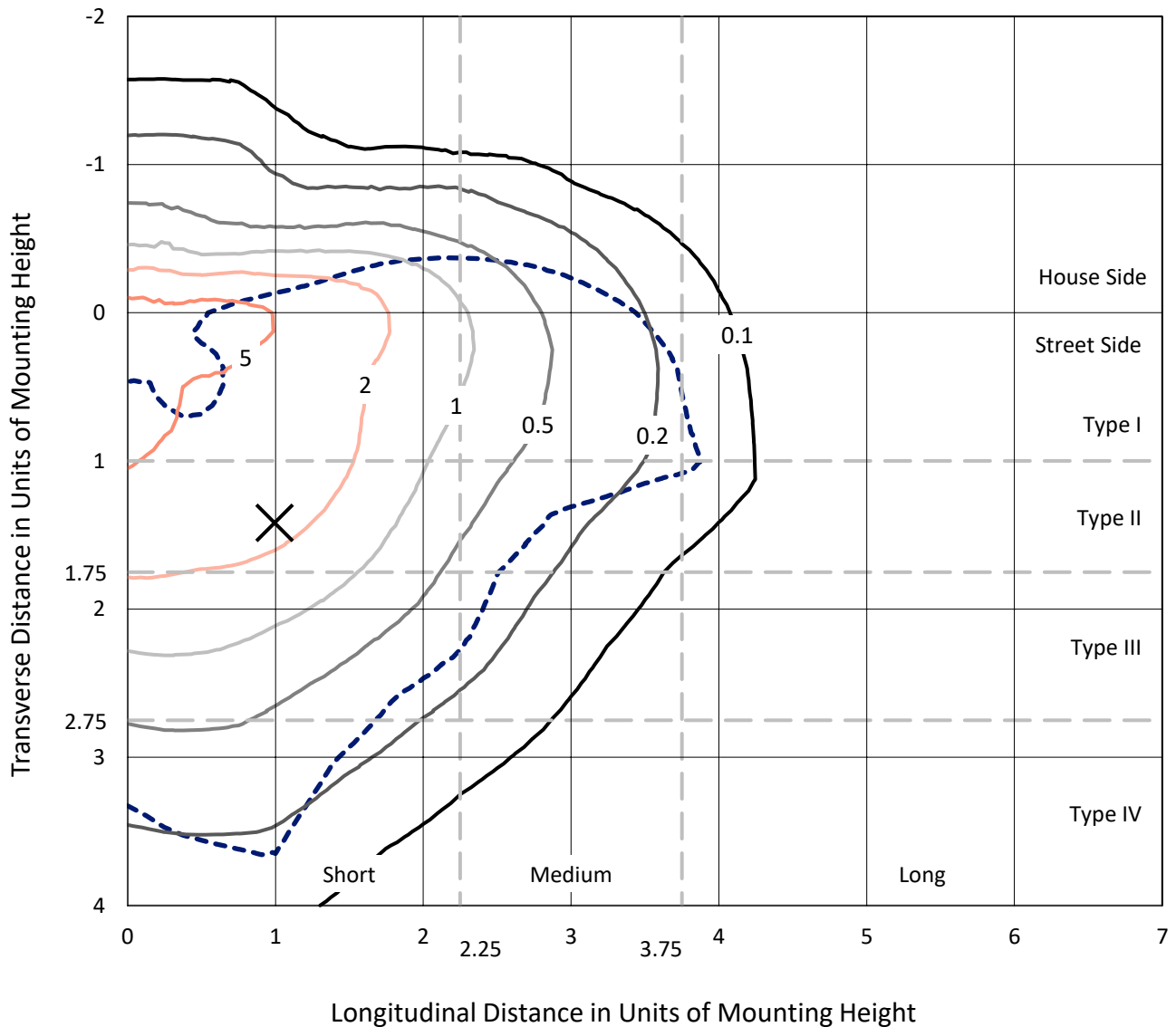
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

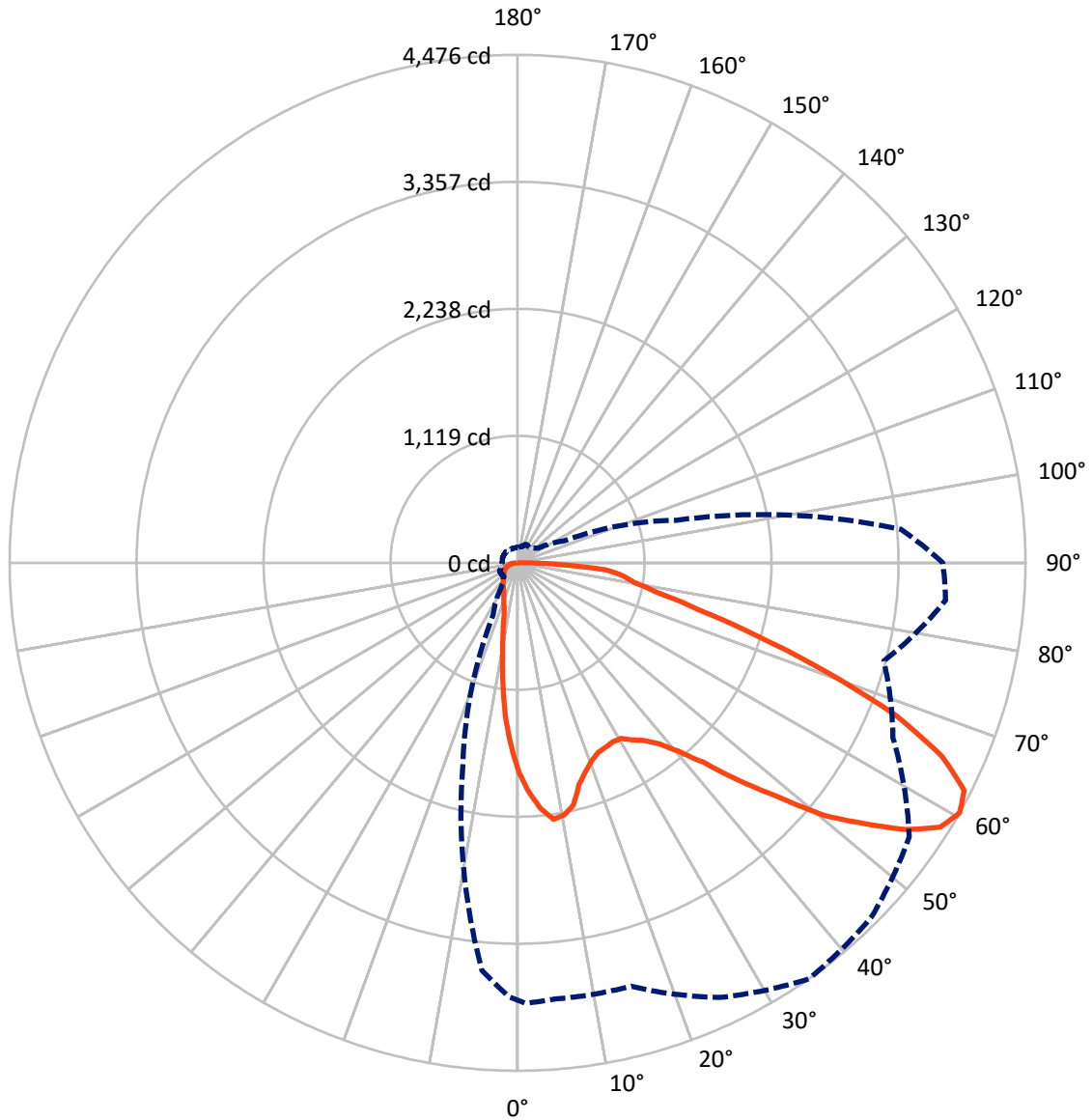
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.4 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	1104.3	0.0	1104.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4698.4	0.0	4698.4
	% Fixture	81.0	0.0	81.0
Total	Lumens	5802.8	0.0	5802.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	2.5
10°-20°	304.0	5.2
20°-30°	444.8	7.7
30°-40°	626.7	10.8
40°-50°	861.2	14.8
50°-60°	1173.8	20.2
60°-70°	1284.6	22.1
70°-80°	741.7	12.8
80°-90°	222.1	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°	5802.8	100.0
0°-180°	5802.8	100.0

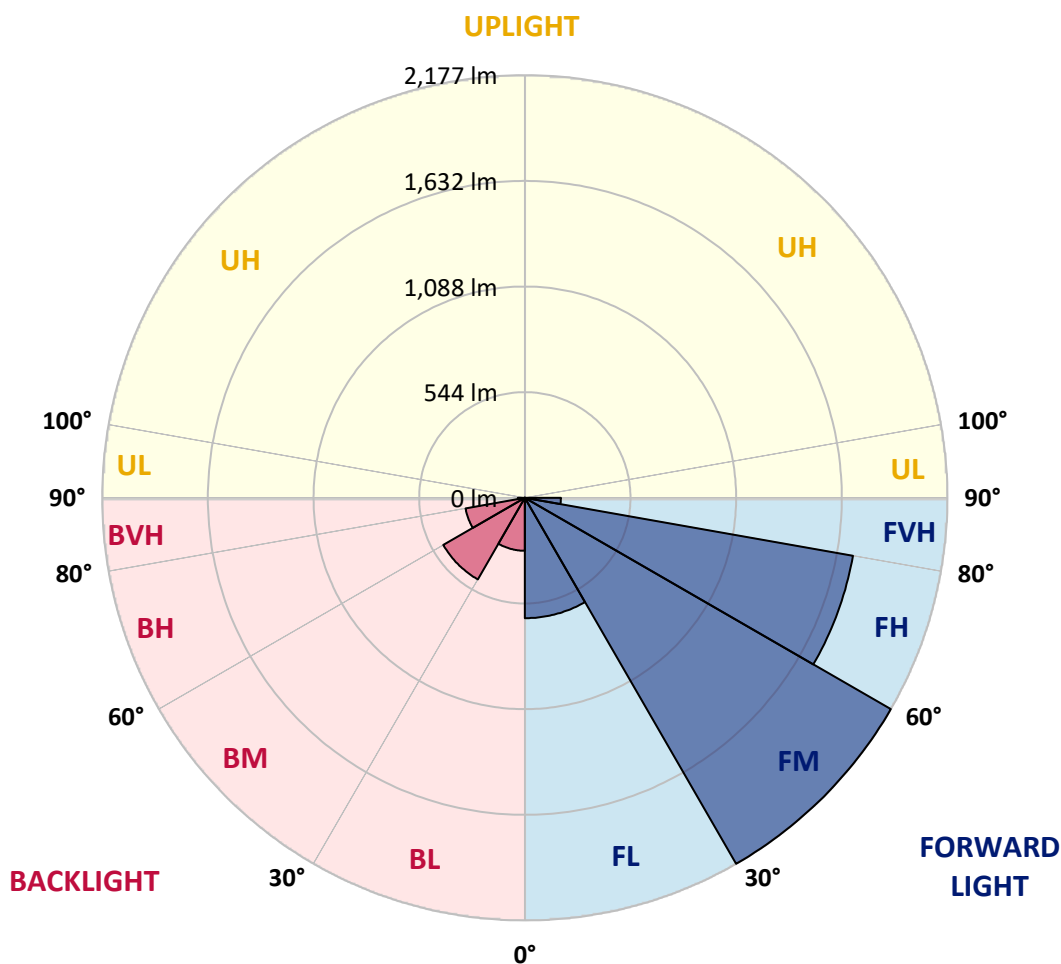


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.9	10.7			
FM (30°-60°)	2176.5	37.5			
FH (60°-80°)	1716.1	29.6			G1/1800
FVH (80°-90°)	185.9	3.2			G2/225
BL (0°-30°)	272.8	4.7	B1/500		
BM (30°-60°)	485.1	8.4	B1/1000		
BH (60°-80°)	310.2	5.3	B1/500		G1/500
BVH (80°-90°)	36.2	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1984.7	1976.9	1984.7	2013.0	2020.7	2033.6	2033.6	2015.5	1982.1	1966.6	1940.9
5°	2028.4	2015.5	2079.9	2139.1	2185.4	2180.3	2136.5	2100.5	2033.6	1933.2	1837.9
7.5°	1940.9	1953.8	2000.1	2154.5	2262.7	2283.3	2213.8	2141.7	1997.5	1858.5	1729.8
10°	1776.1	1794.2	1894.6	2054.2	2224.0	2257.5	2213.8	2126.2	1953.8	1781.3	1632.0
12.5°	1696.4	1737.5	1796.7	1989.8	2110.8	2190.6	2170.0	2113.4	1920.3	1716.9	1572.8
15°	1696.4	1706.6	1794.2	1956.3	2025.8	2028.4	2036.1	2046.4	1930.6	1745.3	1552.2
17.5°	1750.4	1778.7	1853.4	1953.8	1966.6	1935.7	1935.7	1979.5	1951.2	1825.1	1626.8
20°	1881.7	1871.4	1969.2	2010.4	1940.9	1863.7	1855.9	1930.6	1974.4	1910.0	1763.3
22.5°	2013.0	2059.3	2139.1	2046.4	1917.7	1814.8	1804.5	1897.1	2043.9	2056.7	1920.3
25°	2211.2	2257.5	2298.7	2185.4	1915.2	1801.9	1809.6	1881.7	2128.8	2265.2	2182.9
27.5°	2424.8	2453.1	2512.4	2337.3	1976.9	1786.4	1794.2	1902.3	2208.6	2401.7	2388.8
30°	2545.8	2576.7	2563.8	2365.6	2018.1	1796.7	1776.1	1930.6	2164.8	2401.7	2522.6
32.5°	2664.2	2646.2	2638.5	2412.0	2069.6	1861.1	1809.6	1989.8	2190.6	2440.3	2695.1
35°	2808.4	2782.6	2762.0	2502.1	2154.5	1922.9	1899.7	2067.0	2247.2	2520.1	2834.1
37.5°	2968.0	2968.0	2867.6	2569.0	2254.9	2023.3	1997.5	2177.7	2337.3	2569.0	3024.6
40°	3155.9	3163.6	2986.0	2659.1	2368.2	2182.9	2175.1	2321.9	2424.8	2641.1	3207.4
42.5°	3294.9	3300.0	3089.0	2692.5	2499.5	2404.2	2437.7	2553.5	2525.2	2705.4	3220.2
45°	3390.1	3364.4	3161.0	2787.8	2643.6	2736.3	2746.6	2780.1	2656.5	2744.0	3271.7
47.5°	3436.5	3431.3	3191.9	2898.5	2947.4	3073.5	3132.7	3086.4	2777.5	2702.8	3271.7
50°	3482.8	3439.0	3220.2	3050.3	3243.4	3498.2	3485.4	3400.4	2944.8	2754.3	3222.8
52.5°	3513.7	3475.1	3276.9	3186.8	3526.6	3814.9	3866.3	3709.3	3140.4	2849.6	3246.0
55°	3624.4	3593.5	3446.8	3372.1	3853.5	4149.5	4157.2	3938.4	3346.4	3006.6	3397.9
57.5°	3758.2	3776.2	3681.0	3634.7	4103.2	4394.0	4365.7	4108.3	3521.4	3197.1	3572.9
60°	3853.5	3881.8	3858.6	3863.8	4226.7	4476.4	4412.1	4213.8	3650.1	3341.2	3786.5
62.5°	3802.0	3858.6	3953.9	3933.3	4231.9	4417.2	4327.1	4074.8	3665.6	3529.1	3948.7
65°	3660.4	3665.6	3850.9	3964.2	4000.2	4110.9	3992.5	3784.0	3506.0	3645.0	3925.5
67.5°	3297.5	3338.6	3506.0	3727.3	3575.5	3601.2	3590.9	3289.7	3264.0	3565.2	3747.9
70°	2911.3	2939.7	3122.4	3382.4	3019.5	2898.5	2921.6	2697.7	2803.2	3318.1	3390.1
72.5°	2406.8	2424.8	2633.3	2862.4	2422.3	2206.0	2260.1	2077.3	2226.6	2903.6	2859.9
75°	1817.3	1850.8	2013.0	2283.3	1783.9	1644.9	1698.9	1624.3	1763.3	2391.4	2218.9
77.5°	1292.2	1266.5	1467.3	1786.4	1341.1	1258.7	1263.9	1276.8	1426.1	2015.5	1593.4
80°	880.4	888.1	1068.3	1310.2	1052.8	1039.9	1027.1	1130.0	1197.0	1596.0	1158.4
82.5°	522.5	522.5	720.8	931.8	831.4	937.0	877.8	970.4	937.0	1173.8	759.4
85°	244.5	244.5	370.7	671.8	643.5	772.2	656.4	733.6	692.4	818.6	342.4
87.5°	41.2	36.0	74.6	329.5	265.1	301.2	118.4	391.3	435.0	571.5	84.9
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°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1912.6	1894.6	1858.5	1812.2	1773.6	1724.7	1709.2	1675.8	1629.4	1624.3	1603.7
5°	1801.9	1740.1	1662.9	1567.6	1503.3	1436.4	1379.7	1346.3	1307.7	1302.5	1292.2
7.5°	1680.9	1603.7	1475.0	1361.7	1251.0	1145.5	1094.0	1029.7	985.9	952.4	937.0
10°	1567.6	1495.6	1336.0	1181.5	1083.7	1014.2	952.4	885.5	831.4	790.3	774.8
12.5°	1493.0	1408.0	1235.6	1088.9	1016.8	937.0	867.5	795.4	725.9	671.8	643.5
15°	1459.5	1379.7	1204.7	1042.5	937.0	826.3	746.5	674.4	589.5	550.9	538.0
17.5°	1539.3	1420.9	1194.4	988.5	839.2	713.0	615.2	538.0	476.2	437.6	422.2
20°	1642.3	1495.6	1212.4	924.1	746.5	604.9	496.8	414.4	373.2	344.9	342.4
22.5°	1773.6	1606.3	1240.7	877.8	643.5	486.5	388.7	339.8	311.5	308.9	303.7
25°	2007.8	1807.0	1287.1	816.0	561.2	401.6	332.1	303.7	290.9	283.2	288.3
27.5°	2208.6	1938.3	1320.5	777.4	527.7	378.4	321.8	290.9	278.0	275.4	278.0
30°	2327.0	2059.3	1310.2	705.3	460.8	360.4	342.4	332.1	306.3	285.7	285.7
32.5°	2435.1	2136.5	1307.7	641.0	393.8	301.2	285.7	278.0	293.5	303.7	296.0
35°	2584.4	2257.5	1299.9	604.9	365.5	278.0	252.3	231.7	221.4	216.2	223.9
37.5°	2744.0	2339.9	1279.3	599.8	350.1	265.1	244.5	223.9	213.7	208.5	205.9
40°	2919.1	2427.4	1256.2	574.0	342.4	257.4	236.8	218.8	205.9	198.2	195.6
42.5°	3032.3	2496.9	1233.0	561.2	326.9	252.3	229.1	213.7	200.8	190.5	190.5
45°	3096.7	2579.3	1209.8	548.3	308.9	254.8	229.1	208.5	193.1	187.9	182.8
47.5°	3125.0	2641.1	1202.1	527.7	293.5	244.5	223.9	203.4	187.9	177.6	175.0
50°	3199.6	2772.3	1230.4	512.3	275.4	234.2	236.8	200.8	185.3	172.5	169.9
52.5°	3243.4	2877.9	1292.2	489.1	262.6	221.4	231.7	195.6	177.6	164.7	164.7
55°	3403.0	3052.9	1359.1	471.1	247.1	203.4	213.7	185.3	164.7	157.0	157.0
57.5°	3606.4	3238.3	1415.8	463.3	236.8	190.5	190.5	180.2	157.0	146.7	144.2
60°	3747.9	3390.1	1449.2	458.2	226.5	177.6	169.9	180.2	149.3	139.0	136.4
62.5°	3763.4	3302.6	1415.8	455.6	223.9	164.7	154.4	172.5	141.6	131.3	126.1
65°	3665.6	3125.0	1323.1	445.3	221.4	151.9	144.2	149.3	131.3	123.6	118.4
67.5°	3469.9	2836.7	1189.2	440.2	218.8	141.6	131.3	128.7	121.0	113.3	108.1
70°	3014.3	2460.9	1032.2	417.0	213.7	133.9	118.4	115.8	108.1	103.0	100.4
72.5°	2530.4	2013.0	852.0	386.1	203.4	121.0	108.1	103.0	100.4	92.7	90.1
75°	1938.3	1549.6	682.1	342.4	177.6	108.1	95.2	90.1	87.5	82.4	79.8
77.5°	1361.7	1153.2	504.5	278.0	149.3	97.8	84.9	79.8	77.2	69.5	69.5
80°	924.1	808.3	342.4	193.1	115.8	79.8	74.6	69.5	64.4	59.2	59.2
82.5°	574.0	566.3	247.1	126.1	84.9	64.4	59.2	59.2	51.5	46.3	46.3
85°	262.6	347.5	172.5	87.5	64.4	48.9	48.9	46.3	41.2	33.5	33.5
87.5°	82.4	115.8	90.1	38.6	36.0	28.3	28.3	25.7	25.7	20.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1624.3	1621.7	1621.7	1611.4	1637.1	1637.1	1652.6	1639.7	1647.4	1650.0	1670.6
5°	1289.6	1310.2	1325.7	1356.6	1374.6	1382.3	1382.3	1402.9	1395.2	1410.6	1441.5
7.5°	944.7	970.4	1016.8	1055.4	1086.3	1096.6	1094.0	1099.2	1106.9	1088.9	1094.0
10°	764.5	746.5	761.9	798.0	826.3	859.8	834.0	831.4	839.2	831.4	846.9
12.5°	638.4	617.8	604.9	604.9	625.5	641.0	633.2	646.1	674.4	682.1	700.2
15°	517.4	499.4	489.1	476.2	496.8	502.0	509.7	527.7	548.3	558.6	579.2
17.5°	414.4	414.4	414.4	404.1	411.9	419.6	422.2	445.3	447.9	458.2	465.9
20°	339.8	347.5	360.4	365.5	373.2	373.2	368.1	381.0	370.7	378.4	383.5
22.5°	306.3	316.6	321.8	324.3	334.6	337.2	324.3	326.9	329.5	321.8	324.3
25°	288.3	293.5	288.3	290.9	293.5	288.3	290.9	296.0	293.5	298.6	296.0
27.5°	280.6	275.4	272.9	270.3	270.3	265.1	267.7	267.7	272.9	275.4	275.4
30°	280.6	272.9	262.6	254.8	254.8	247.1	252.3	257.4	260.0	265.1	265.1
32.5°	288.3	272.9	254.8	247.1	239.4	234.2	239.4	247.1	257.4	260.0	262.6
35°	229.1	236.8	234.2	223.9	221.4	221.4	218.8	218.8	211.1	211.1	208.5
37.5°	205.9	203.4	208.5	211.1	213.7	205.9	205.9	195.6	193.1	195.6	195.6
40°	193.1	193.1	193.1	200.8	203.4	198.2	190.5	185.3	185.3	185.3	187.9
42.5°	187.9	182.8	180.2	185.3	193.1	187.9	180.2	177.6	177.6	180.2	180.2
45°	180.2	177.6	175.0	172.5	182.8	175.0	172.5	169.9	169.9	169.9	172.5
47.5°	172.5	169.9	164.7	164.7	167.3	164.7	162.2	162.2	162.2	167.3	167.3
50°	167.3	164.7	159.6	159.6	159.6	159.6	157.0	157.0	157.0	159.6	162.2
52.5°	159.6	157.0	154.4	151.9	151.9	151.9	151.9	151.9	151.9	154.4	157.0
55°	151.9	149.3	146.7	146.7	149.3	149.3	146.7	149.3	146.7	149.3	151.9
57.5°	144.2	141.6	139.0	141.6	144.2	141.6	141.6	141.6	141.6	141.6	144.2
60°	133.9	133.9	133.9	133.9	139.0	139.0	139.0	139.0	133.9	136.4	139.0
62.5°	128.7	126.1	126.1	128.7	131.3	131.3	133.9	131.3	128.7	131.3	131.3
65°	118.4	118.4	118.4	121.0	121.0	123.6	123.6	123.6	121.0	123.6	123.6
67.5°	110.7	110.7	110.7	110.7	115.8	115.8	115.8	115.8	113.3	113.3	115.8
70°	97.8	100.4	97.8	103.0	108.1	105.5	108.1	108.1	105.5	103.0	108.1
72.5°	90.1	90.1	90.1	90.1	97.8	97.8	97.8	100.4	97.8	95.2	97.8
75°	79.8	79.8	79.8	82.4	87.5	87.5	87.5	87.5	87.5	84.9	84.9
77.5°	69.5	72.1	69.5	72.1	77.2	74.6	77.2	79.8	77.2	74.6	74.6
80°	59.2	59.2	59.2	61.8	64.4	64.4	64.4	66.9	64.4	61.8	61.8
82.5°	46.3	46.3	48.9	48.9	51.5	51.5	51.5	54.1	51.5	48.9	48.9
85°	36.0	36.0	36.0	38.6	38.6	41.2	41.2	43.8	43.8	41.2	41.2
87.5°	23.2	20.6	23.2	23.2	25.7	25.7	23.2	20.6	23.2	20.6	18.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1691.2	1737.5	1771.0	1794.2	1827.6	1892.0	1917.7	1964.1	1976.9	1984.7
5°	1454.4	1503.3	1575.4	1626.8	1686.1	1807.0	1899.7	1969.2	2000.1	2028.4
7.5°	1140.3	1204.7	1279.3	1346.3	1444.1	1593.4	1714.4	1858.5	1912.6	1940.9
10°	890.6	949.9	1032.2	1114.6	1251.0	1377.2	1549.6	1680.9	1755.6	1776.1
12.5°	751.6	821.1	919.0	1019.4	1104.3	1248.5	1423.5	1614.0	1683.5	1696.4
15°	638.4	733.6	834.0	937.0	1034.8	1160.9	1348.8	1580.5	1683.5	1696.4
17.5°	527.7	612.6	731.1	841.7	955.0	1127.5	1361.7	1608.8	1711.8	1750.4
20°	419.6	502.0	594.6	733.6	888.1	1070.8	1390.0	1704.1	1840.5	1881.7
22.5°	347.5	383.5	473.6	607.5	790.3	1032.2	1418.3	1853.4	1997.5	2013.0
25°	303.7	329.5	386.1	512.3	713.0	1006.5	1485.3	2025.8	2211.2	2211.2
27.5°	283.2	293.5	332.1	445.3	659.0	983.3	1552.2	2216.3	2388.8	2424.8
30°	278.0	303.7	324.3	396.4	599.8	919.0	1614.0	2365.6	2543.2	2545.8
32.5°	272.9	267.7	283.2	344.9	527.7	852.0	1665.5	2517.5	2656.5	2664.2
35°	213.7	223.9	249.7	303.7	473.6	803.1	1691.2	2599.9	2800.7	2808.4
37.5°	200.8	213.7	234.2	280.6	437.6	761.9	1698.9	2759.5	2952.5	2968.0
40°	195.6	205.9	221.4	260.0	409.3	710.5	1714.4	2924.2	3176.5	3155.9
42.5°	185.3	198.2	213.7	249.7	386.1	671.8	1716.9	3014.3	3294.9	3294.9
45°	182.8	190.5	208.5	249.7	360.4	638.4	1675.8	3104.4	3431.3	3390.1
47.5°	172.5	187.9	203.4	242.0	329.5	604.9	1626.8	3150.7	3449.3	3436.5
50°	169.9	185.3	211.1	229.1	311.5	589.5	1616.6	3266.6	3485.4	3482.8
52.5°	164.7	180.2	218.8	218.8	288.3	568.9	1665.5	3318.1	3493.1	3513.7
55°	157.0	180.2	203.4	200.8	267.7	543.1	1719.5	3451.9	3629.5	3624.4
57.5°	151.9	175.0	193.1	182.8	244.5	525.1	1799.3	3580.6	3794.3	3758.2
60°	144.2	175.0	172.5	169.9	226.5	509.7	1866.2	3606.4	3830.3	3853.5
62.5°	139.0	182.8	151.9	157.0	211.1	502.0	1837.9	3413.3	3781.4	3802.0
65°	133.9	157.0	139.0	144.2	205.9	486.5	1727.2	3181.6	3570.3	3660.4
67.5°	123.6	128.7	128.7	133.9	200.8	450.5	1500.7	2764.6	3248.6	3297.5
70°	113.3	115.8	115.8	123.6	195.6	409.3	1238.2	2391.4	2818.7	2911.3
72.5°	103.0	103.0	103.0	113.3	180.2	375.8	1019.4	1837.9	2342.5	2406.8
75°	90.1	90.1	90.1	100.4	162.2	342.4	803.1	1366.9	1724.7	1817.3
77.5°	79.8	79.8	77.2	90.1	141.6	278.0	579.2	965.3	1215.0	1292.2
80°	66.9	64.4	64.4	72.1	110.7	200.8	373.2	682.1	846.9	880.4
82.5°	54.1	51.5	48.9	54.1	79.8	126.1	231.7	476.2	543.1	522.5
85°	51.5	54.1	43.8	41.2	56.6	82.4	146.7	293.5	244.5	244.5
87.5°	20.6	18.0	18.0	15.4	28.3	30.9	64.4	54.1	41.2	41.2
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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