

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: P675849

Luminaire Tested: **CCW-SA-2B-740-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675849
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

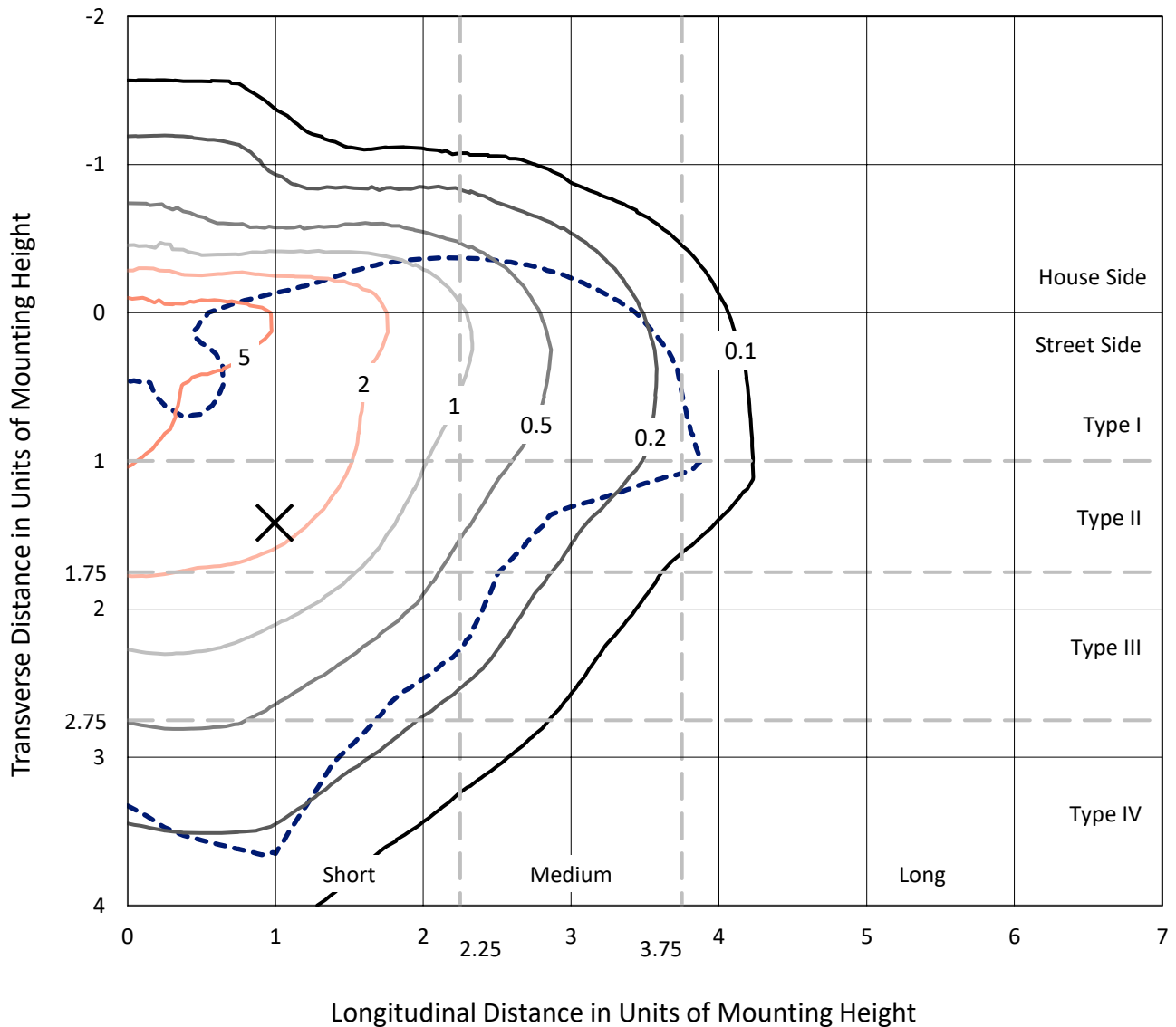
Lumens per Lamp: N/A
Luminaire Lumens: 5730.3 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

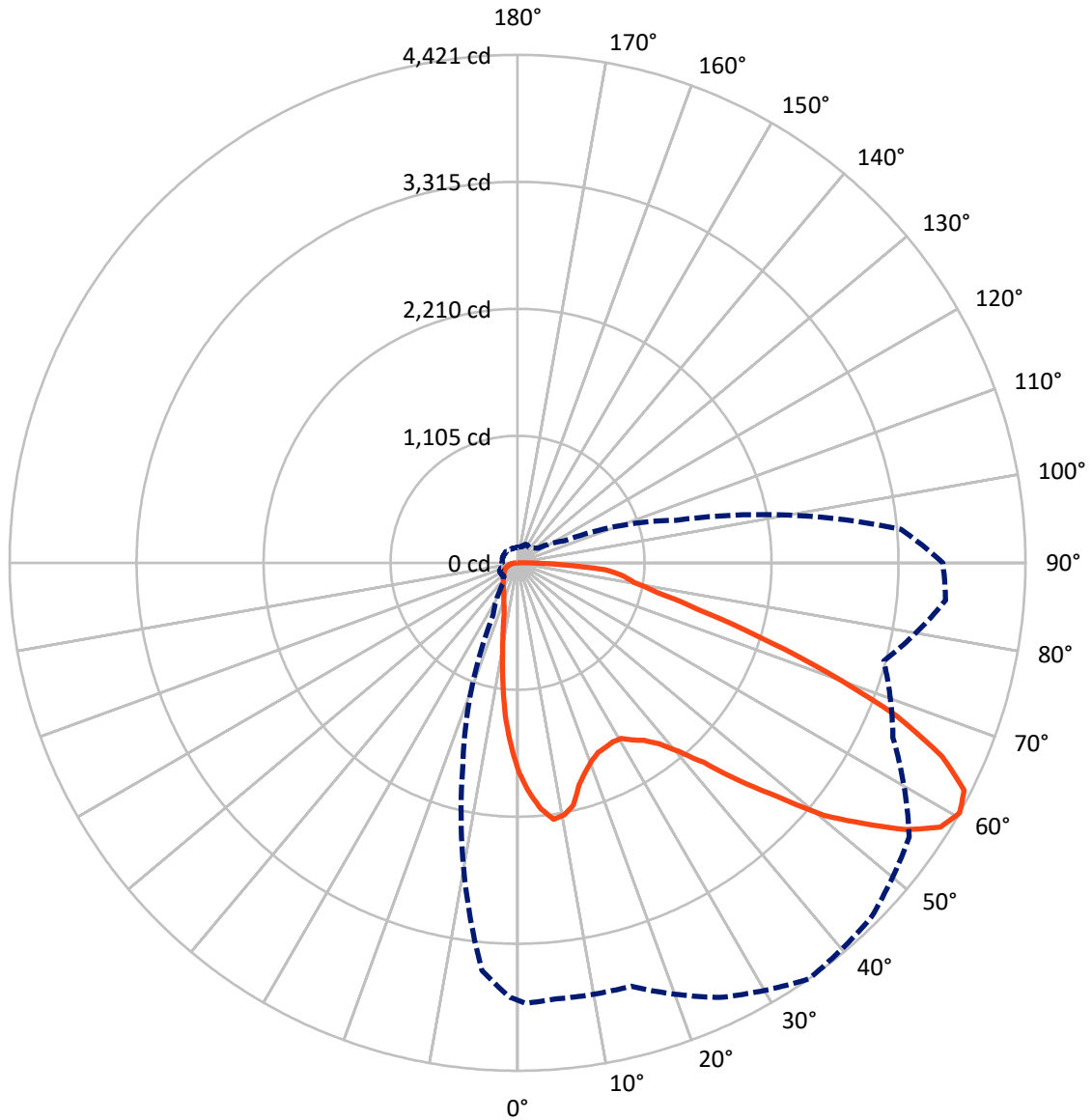
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.3 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	1090.5	0.0	1090.5
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4639.7	0.0	4639.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	5730.3	0.0	5730.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	2.5
10°-20°	300.2	5.2
20°-30°	439.2	7.7
30°-40°	618.8	10.8
40°-50°	850.5	14.8
50°-60°	1159.1	20.2
60°-70°	1268.6	22.1
70°-80°	732.4	12.8
80°-90°	219.3	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°	5730.3	100.0
0°-180°	5730.3	100.0

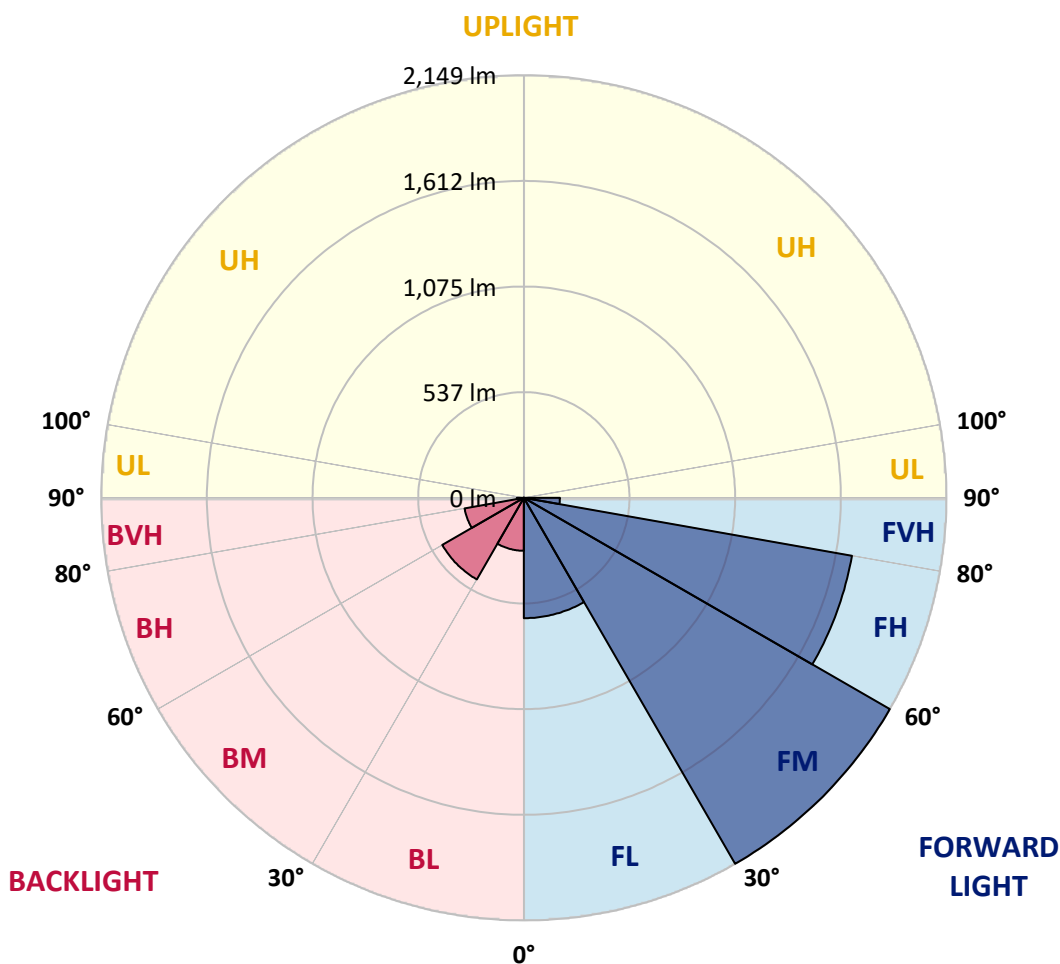


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.2	10.7			
FM (30°-60°)	2149.3	37.5			
FH (60°-80°)	1694.7	29.6			G1/1800
FVH (80°-90°)	183.6	3.2			G2/225
BL (0°-30°)	269.4	4.7	B1/500		
BM (30°-60°)	479.1	8.4	B1/1000		
BH (60°-80°)	306.3	5.3	B1/500		G1/500
BVH (80°-90°)	35.7	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°	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1959.9	1952.2	1959.9	1987.8	1995.4	2008.1	2008.1	1990.4	1957.3	1942.1	1916.6
5°	2003.1	1990.4	2053.9	2112.4	2158.1	2153.0	2109.8	2074.2	2008.1	1909.0	1815.0
7.5°	1916.6	1929.3	1975.1	2127.6	2234.4	2254.7	2186.1	2114.9	1972.6	1835.3	1708.2
10°	1754.0	1771.7	1870.9	2028.5	2196.3	2229.3	2186.1	2099.7	1929.3	1759.0	1611.6
12.5°	1675.2	1715.8	1774.3	1964.9	2084.4	2163.2	2142.9	2087.0	1896.3	1695.5	1553.1
15°	1675.2	1685.3	1771.7	1931.9	2000.5	2003.1	2010.7	2020.9	1906.5	1723.4	1532.8
17.5°	1728.5	1756.5	1830.2	1929.3	1942.1	1911.6	1911.6	1954.8	1926.8	1802.3	1606.5
20°	1858.2	1848.0	1944.6	1985.3	1916.6	1840.4	1832.8	1906.5	1949.7	1886.1	1741.2
22.5°	1987.8	2033.6	2112.4	2020.9	1893.8	1792.1	1781.9	1873.4	2018.3	2031.0	1896.3
25°	2183.5	2229.3	2270.0	2158.1	1891.2	1779.4	1787.0	1858.2	2102.2	2236.9	2155.6
27.5°	2394.5	2422.5	2481.0	2308.1	1952.2	1764.1	1771.7	1878.5	2181.0	2371.7	2358.9
30°	2514.0	2544.5	2531.8	2336.1	1992.9	1774.3	1754.0	1906.5	2137.8	2371.7	2491.1
32.5°	2630.9	2613.1	2605.5	2381.8	2043.7	1837.8	1787.0	1964.9	2163.2	2409.8	2661.4
35°	2773.3	2747.9	2727.5	2470.8	2127.6	1898.8	1876.0	2041.2	2219.1	2488.6	2798.7
37.5°	2930.9	2930.9	2831.7	2536.9	2226.8	1998.0	1972.6	2150.5	2308.1	2536.9	2986.8
40°	3116.4	3124.1	2948.7	2625.8	2338.6	2155.6	2148.0	2292.8	2394.5	2608.1	3167.3
42.5°	3253.7	3258.8	3050.4	2658.9	2468.2	2374.2	2407.2	2521.6	2493.7	2671.6	3180.0
45°	3347.8	3322.3	3121.5	2752.9	2610.6	2702.1	2712.3	2745.3	2623.3	2709.7	3230.8
47.5°	3393.5	3388.4	3152.0	2862.2	2910.5	3035.1	3093.6	3047.8	2742.8	2669.1	3230.8
50°	3439.3	3396.1	3180.0	3012.2	3202.9	3454.5	3441.8	3357.9	2908.0	2719.9	3182.5
52.5°	3469.8	3431.6	3235.9	3146.9	3482.5	3767.2	3818.0	3663.0	3101.2	2814.0	3205.4
55°	3579.1	3548.6	3403.7	3330.0	3805.3	4097.6	4105.3	3889.2	3304.5	2969.0	3355.4
57.5°	3711.3	3729.1	3635.0	3589.2	4051.9	4339.1	4311.2	4057.0	3477.4	3157.1	3528.2
60°	3805.3	3833.3	3810.4	3815.5	4173.9	4420.5	4356.9	4161.2	3604.5	3299.5	3739.2
62.5°	3754.5	3810.4	3904.5	3884.1	4179.0	4362.0	4273.0	4023.9	3619.8	3485.0	3899.4
65°	3614.7	3619.8	3802.8	3914.6	3950.2	4059.5	3942.6	3736.7	3462.2	3599.4	3876.5
67.5°	3256.3	3296.9	3462.2	3680.8	3530.8	3556.2	3546.0	3248.6	3223.2	3520.6	3701.1
70°	2875.0	2902.9	3083.4	3340.1	2981.7	2862.2	2885.1	2664.0	2768.2	3276.6	3347.8
72.5°	2376.7	2394.5	2600.4	2826.7	2392.0	2178.5	2231.8	2051.4	2198.8	2867.3	2824.1
75°	1794.6	1827.7	1987.8	2254.7	1761.6	1624.3	1677.7	1604.0	1741.2	2361.5	2191.2
77.5°	1276.1	1250.6	1448.9	1764.1	1324.4	1243.0	1248.1	1260.8	1408.2	1990.4	1573.5
80°	869.4	877.0	1054.9	1293.9	1039.7	1027.0	1014.2	1115.9	1182.0	1576.0	1143.9
82.5°	516.0	516.0	711.7	920.2	821.1	925.3	866.8	958.3	925.3	1159.1	749.9
85°	241.5	241.5	366.0	663.5	635.5	762.6	648.2	724.5	683.8	808.3	338.1
87.5°	40.7	35.6	73.7	325.4	261.8	297.4	116.9	386.4	429.6	564.3	83.9
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°	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1888.7	1870.9	1835.3	1789.5	1751.4	1703.1	1687.9	1654.8	1609.1	1604.0	1583.6
5°	1779.4	1718.4	1642.1	1548.1	1484.5	1418.4	1362.5	1329.4	1291.3	1286.2	1276.1
7.5°	1659.9	1583.6	1456.5	1344.7	1235.4	1131.2	1080.3	1016.8	973.6	940.5	925.3
10°	1548.1	1476.9	1319.3	1166.8	1070.2	1001.5	940.5	874.4	821.1	780.4	765.1
12.5°	1474.3	1390.5	1220.1	1075.2	1004.1	925.3	856.6	785.5	716.8	663.5	635.5
15°	1441.3	1362.5	1189.6	1029.5	925.3	816.0	737.2	666.0	582.1	544.0	531.3
17.5°	1520.1	1403.2	1179.5	976.1	828.7	704.1	607.5	531.3	470.3	432.1	416.9
20°	1621.8	1476.9	1197.3	912.6	737.2	597.4	490.6	409.3	368.6	340.6	338.1
22.5°	1751.4	1586.2	1225.2	866.8	635.5	480.4	383.8	335.5	307.6	305.0	300.0
25°	1982.7	1784.5	1271.0	805.8	554.1	396.5	327.9	300.0	287.2	279.6	284.7
27.5°	2181.0	1914.1	1304.0	767.7	521.1	373.7	317.7	287.2	274.5	272.0	274.5
30°	2297.9	2033.6	1293.9	696.5	455.0	355.9	338.1	327.9	302.5	282.2	282.2
32.5°	2404.7	2109.8	1291.3	632.9	388.9	297.4	282.2	274.5	289.8	300.0	292.3
35°	2552.1	2229.3	1283.7	597.4	361.0	274.5	249.1	228.8	218.6	213.5	221.2
37.5°	2709.7	2310.6	1263.4	592.3	345.7	261.8	241.5	221.2	211.0	205.9	203.4
40°	2882.6	2397.1	1240.5	566.9	338.1	254.2	233.9	216.1	203.4	195.7	193.2
42.5°	2994.4	2465.7	1217.6	554.1	322.8	249.1	226.2	211.0	198.3	188.1	188.1
45°	3058.0	2547.0	1194.7	541.4	305.0	251.7	226.2	205.9	190.6	185.6	180.5
47.5°	3085.9	2608.1	1187.1	521.1	289.8	241.5	221.2	200.8	185.6	175.4	172.9
50°	3159.7	2737.7	1215.1	505.9	272.0	231.3	233.9	198.3	183.0	170.3	167.8
52.5°	3202.9	2841.9	1276.1	483.0	259.3	218.6	228.8	193.2	175.4	162.7	162.7
55°	3360.5	3014.8	1342.2	465.2	244.0	200.8	211.0	183.0	162.7	155.1	155.1
57.5°	3561.3	3197.8	1398.1	457.6	233.9	188.1	188.1	177.9	155.1	144.9	142.3
60°	3701.1	3347.8	1431.1	452.5	223.7	175.4	167.8	177.9	147.4	137.3	134.7
62.5°	3716.3	3261.3	1398.1	449.9	221.2	162.7	152.5	170.3	139.8	129.6	124.6
65°	3619.8	3085.9	1306.6	439.8	218.6	150.0	142.3	147.4	129.6	122.0	116.9
67.5°	3426.6	2801.2	1174.4	434.7	216.1	139.8	129.6	127.1	119.5	111.8	106.8
70°	2976.6	2430.1	1019.3	411.8	211.0	132.2	116.9	114.4	106.8	101.7	99.1
72.5°	2498.7	1987.8	841.4	381.3	200.8	119.5	106.8	101.7	99.1	91.5	89.0
75°	1914.1	1530.3	673.6	338.1	175.4	106.8	94.1	89.0	86.4	81.3	78.8
77.5°	1344.7	1138.8	498.2	274.5	147.4	96.6	83.9	78.8	76.3	68.6	68.6
80°	912.6	798.2	338.1	190.6	114.4	78.8	73.7	68.6	63.5	58.5	58.5
82.5°	566.9	559.2	244.0	124.6	83.9	63.5	58.5	58.5	50.8	45.8	45.8
85°	259.3	343.2	170.3	86.4	63.5	48.3	48.3	45.8	40.7	33.0	33.0
87.5°	81.3	114.4	89.0	38.1	35.6	28.0	28.0	25.4	25.4	20.3	20.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1604.0	1601.4	1601.4	1591.3	1616.7	1616.7	1631.9	1619.2	1626.9	1629.4	1649.7
5°	1273.5	1293.9	1309.1	1339.6	1357.4	1365.0	1365.0	1385.4	1377.7	1393.0	1423.5
7.5°	932.9	958.3	1004.1	1042.2	1072.7	1082.9	1080.3	1085.4	1093.0	1075.2	1080.3
10°	755.0	737.2	752.4	788.0	816.0	849.0	823.6	821.1	828.7	821.1	836.3
12.5°	630.4	610.1	597.4	597.4	617.7	632.9	625.3	638.0	666.0	673.6	691.4
15°	510.9	493.1	483.0	470.3	490.6	495.7	503.3	521.1	541.4	551.6	571.9
17.5°	409.3	409.3	409.3	399.1	406.7	414.3	416.9	439.8	442.3	452.5	460.1
20°	335.5	343.2	355.9	361.0	368.6	368.6	363.5	376.2	366.0	373.7	378.8
22.5°	302.5	312.7	317.7	320.3	330.5	333.0	320.3	322.8	325.4	317.7	320.3
25°	284.7	289.8	284.7	287.2	289.8	284.7	287.2	292.3	289.8	294.9	292.3
27.5°	277.1	272.0	269.4	266.9	266.9	261.8	264.4	264.4	269.4	272.0	272.0
30°	277.1	269.4	259.3	251.7	251.7	244.0	249.1	254.2	256.7	261.8	261.8
32.5°	284.7	269.4	251.7	244.0	236.4	231.3	236.4	244.0	254.2	256.7	259.3
35°	226.2	233.9	231.3	221.2	218.6	218.6	216.1	216.1	208.4	208.4	205.9
37.5°	203.4	200.8	205.9	208.4	211.0	203.4	203.4	193.2	190.6	193.2	193.2
40°	190.6	190.6	190.6	198.3	200.8	195.7	188.1	183.0	183.0	183.0	185.6
42.5°	185.6	180.5	177.9	183.0	190.6	185.6	177.9	175.4	175.4	177.9	177.9
45°	177.9	175.4	172.9	170.3	180.5	172.9	170.3	167.8	167.8	167.8	170.3
47.5°	170.3	167.8	162.7	162.7	165.2	162.7	160.1	160.1	160.1	165.2	165.2
50°	165.2	162.7	157.6	157.6	157.6	157.6	155.1	155.1	155.1	157.6	160.1
52.5°	157.6	155.1	152.5	150.0	150.0	150.0	150.0	150.0	150.0	152.5	155.1
55°	150.0	147.4	144.9	144.9	147.4	147.4	144.9	147.4	144.9	147.4	150.0
57.5°	142.3	139.8	137.3	139.8	142.3	139.8	139.8	139.8	139.8	139.8	142.3
60°	132.2	132.2	132.2	132.2	137.3	137.3	137.3	137.3	132.2	134.7	137.3
62.5°	127.1	124.6	124.6	127.1	129.6	129.6	132.2	129.6	127.1	129.6	129.6
65°	116.9	116.9	116.9	119.5	119.5	122.0	122.0	122.0	119.5	122.0	122.0
67.5°	109.3	109.3	109.3	109.3	114.4	114.4	114.4	114.4	111.8	111.8	114.4
70°	96.6	99.1	96.6	101.7	106.8	104.2	106.8	106.8	104.2	101.7	106.8
72.5°	89.0	89.0	89.0	89.0	96.6	96.6	96.6	99.1	96.6	94.1	96.6
75°	78.8	78.8	78.8	81.3	86.4	86.4	86.4	86.4	86.4	83.9	83.9
77.5°	68.6	71.2	68.6	71.2	76.3	73.7	76.3	78.8	76.3	73.7	73.7
80°	58.5	58.5	58.5	61.0	63.5	63.5	63.5	66.1	63.5	61.0	61.0
82.5°	45.8	45.8	48.3	48.3	50.8	50.8	50.8	53.4	50.8	48.3	48.3
85°	35.6	35.6	35.6	38.1	38.1	40.7	40.7	43.2	43.2	40.7	40.7
87.5°	22.9	20.3	22.9	22.9	25.4	25.4	22.9	20.3	22.9	20.3	17.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1670.1	1715.8	1748.9	1771.7	1804.8	1868.3	1893.8	1939.5	1952.2	1959.9
5°	1436.2	1484.5	1555.7	1606.5	1665.0	1784.5	1876.0	1944.6	1975.1	2003.1
7.5°	1126.1	1189.6	1263.4	1329.4	1426.0	1573.5	1692.9	1835.3	1888.7	1916.6
10°	879.5	938.0	1019.3	1100.7	1235.4	1359.9	1530.3	1659.9	1733.6	1754.0
12.5°	742.3	810.9	907.5	1006.6	1090.5	1232.9	1405.7	1593.8	1662.4	1675.2
15°	630.4	724.5	823.6	925.3	1021.9	1146.4	1332.0	1560.8	1662.4	1675.2
17.5°	521.1	605.0	721.9	831.2	943.1	1113.4	1344.7	1588.7	1690.4	1728.5
20°	414.3	495.7	587.2	724.5	877.0	1057.5	1372.7	1682.8	1817.5	1858.2
22.5°	343.2	378.8	467.7	599.9	780.4	1019.3	1400.6	1830.2	1972.6	1987.8
25°	300.0	325.4	381.3	505.9	704.1	993.9	1466.7	2000.5	2183.5	2183.5
27.5°	279.6	289.8	327.9	439.8	650.7	971.0	1532.8	2188.6	2358.9	2394.5
30°	274.5	300.0	320.3	391.5	592.3	907.5	1593.8	2336.1	2511.5	2514.0
32.5°	269.4	264.4	279.6	340.6	521.1	841.4	1644.6	2486.0	2623.3	2630.9
35°	211.0	221.2	246.6	300.0	467.7	793.1	1670.1	2567.4	2765.7	2773.3
37.5°	198.3	211.0	231.3	277.1	432.1	752.4	1677.7	2725.0	2915.6	2930.9
40°	193.2	203.4	218.6	256.7	404.2	701.6	1692.9	2887.7	3136.8	3116.4
42.5°	183.0	195.7	211.0	246.6	381.3	663.5	1695.5	2976.6	3253.7	3253.7
45°	180.5	188.1	205.9	246.6	355.9	630.4	1654.8	3065.6	3388.4	3347.8
47.5°	170.3	185.6	200.8	238.9	325.4	597.4	1606.5	3111.4	3406.2	3393.5
50°	167.8	183.0	208.4	226.2	307.6	582.1	1596.4	3225.7	3441.8	3439.3
52.5°	162.7	177.9	216.1	216.1	284.7	561.8	1644.6	3276.6	3449.4	3469.8
55°	155.1	177.9	200.8	198.3	264.4	536.4	1698.0	3408.8	3584.2	3579.1
57.5°	150.0	172.9	190.6	180.5	241.5	518.6	1776.8	3535.9	3746.9	3711.3
60°	142.3	172.9	170.3	167.8	223.7	503.3	1842.9	3561.3	3782.4	3805.3
62.5°	137.3	180.5	150.0	155.1	208.4	495.7	1815.0	3370.6	3734.1	3754.5
65°	132.2	155.1	137.3	142.3	203.4	480.4	1705.7	3141.9	3525.7	3614.7
67.5°	122.0	127.1	127.1	132.2	198.3	444.8	1482.0	2730.1	3208.0	3256.3
70°	111.8	114.4	114.4	122.0	193.2	404.2	1222.7	2361.5	2783.4	2875.0
72.5°	101.7	101.7	101.7	111.8	177.9	371.1	1006.6	1815.0	2313.2	2376.7
75°	89.0	89.0	89.0	99.1	160.1	338.1	793.1	1349.8	1703.1	1794.6
77.5°	78.8	78.8	76.3	89.0	139.8	274.5	571.9	953.2	1199.8	1276.1
80°	66.1	63.5	63.5	71.2	109.3	198.3	368.6	673.6	836.3	869.4
82.5°	53.4	50.8	48.3	53.4	78.8	124.6	228.8	470.3	536.4	516.0
85°	50.8	53.4	43.2	40.7	55.9	81.3	144.9	289.8	241.5	241.5
87.5°	20.3	17.8	17.8	15.3	28.0	30.5	63.5	53.4	40.7	40.7
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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