

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: P675923

Luminaire Tested: **CCW-SA-1E-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675923
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

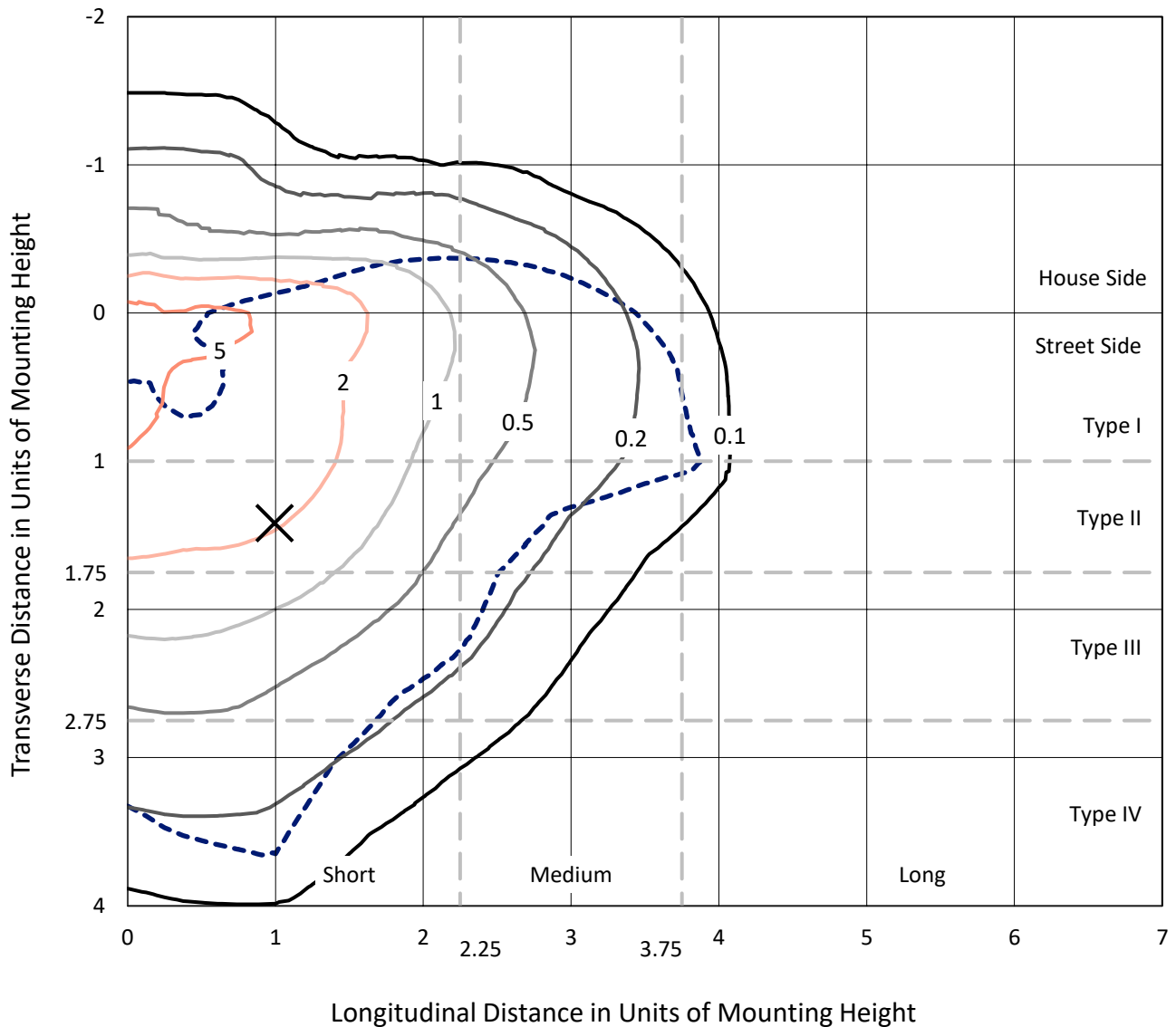
Lumens per Lamp: N/A
Luminaire Lumens: 4950.1 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

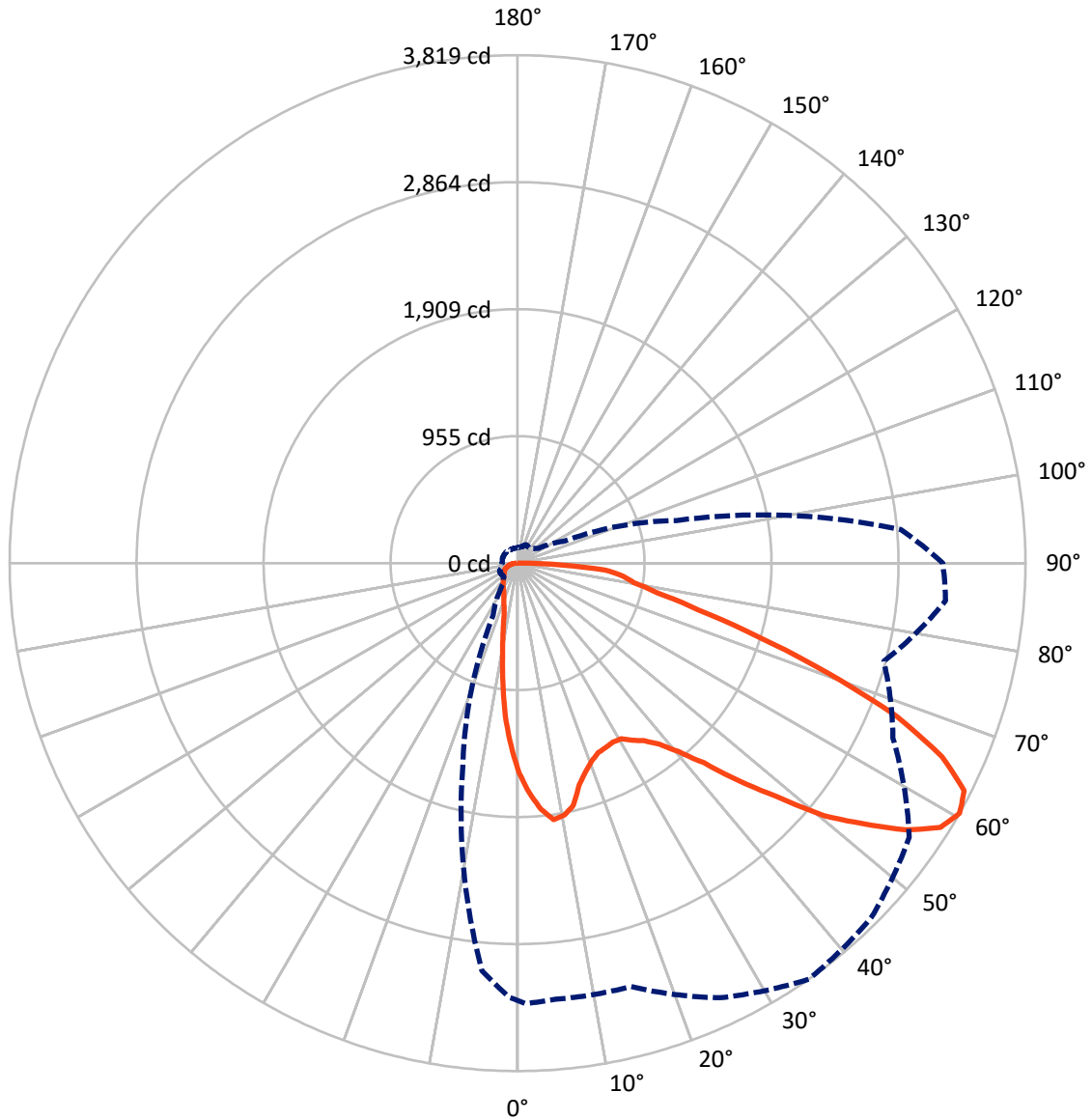
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 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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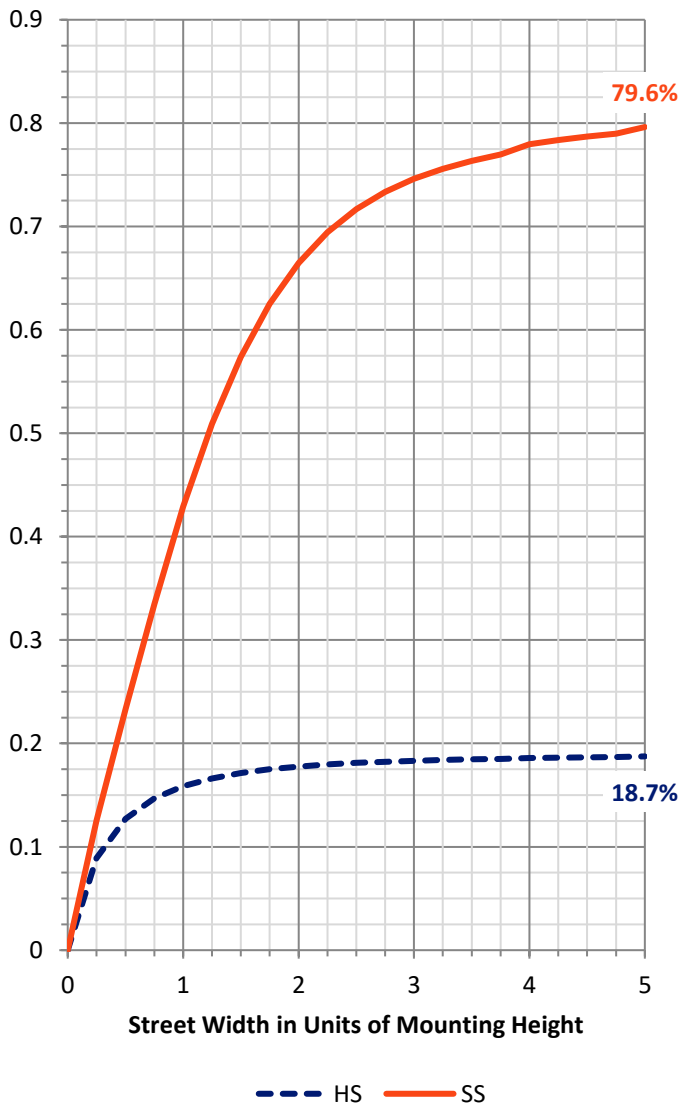
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.1	0.0	942.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	4008.1	0.0	4008.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	4950.1	0.0	4950.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	2.5
10°-20°	259.3	5.2
20°-30°	379.4	7.7
30°-40°	534.6	10.8
40°-50°	734.7	14.8
50°-60°	1001.3	20.2
60°-70°	1095.9	22.1
70°-80°	632.7	12.8
80°-90°	189.5	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°	4950.1	100.0
0°-180°	4950.1	100.0



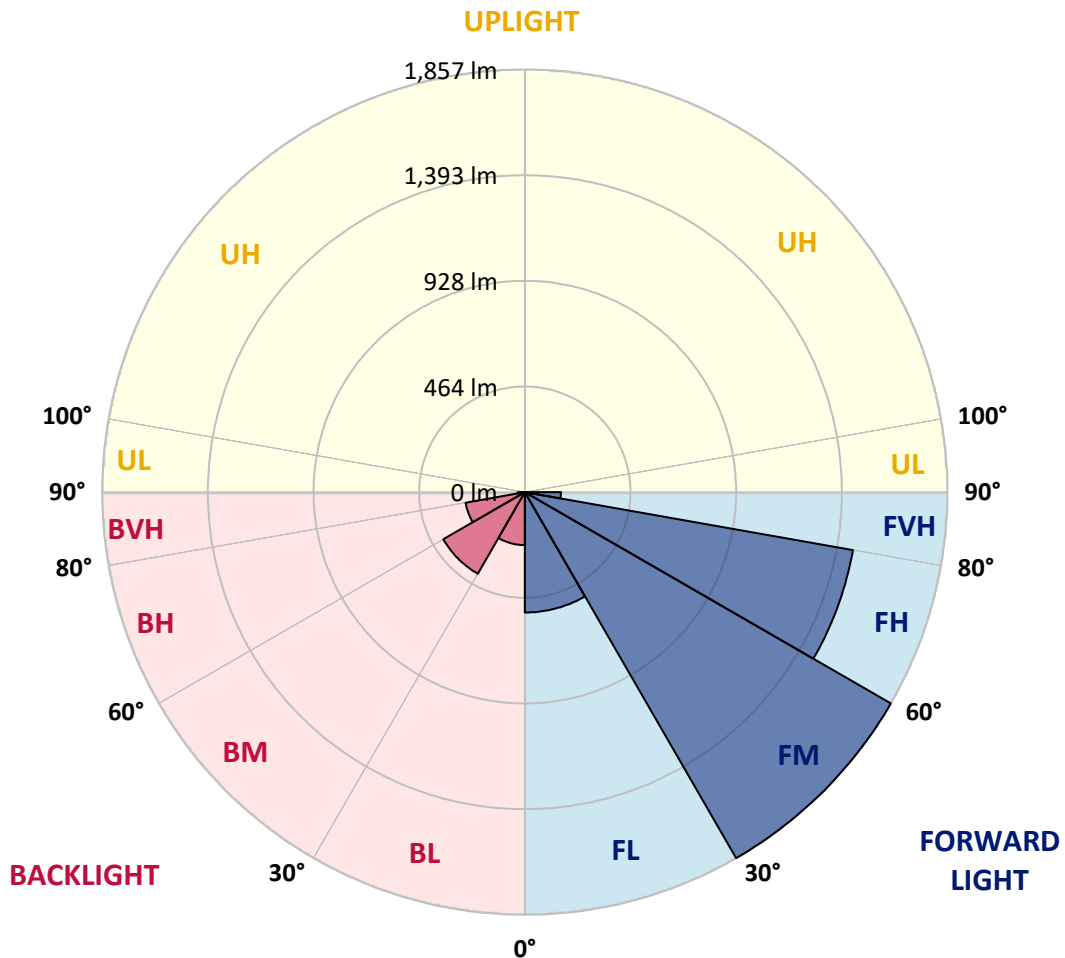
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.8	10.7			
FM (30°-60°)	1856.7	37.5			
FH (60°-80°)	1463.9	29.6			G1/1800
FVH (80°-90°)	158.6	3.2			G2/225
BL (0°-30°)	232.8	4.7	B1/500		
BM (30°-60°)	413.8	8.4	B1/1000		
BH (60°-80°)	264.6	5.3	B1/500		G1/500
BVH (80°-90°)	30.9	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°	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0
2.5°	1693.0	1686.5	1693.0	1717.2	1723.8	1734.8	1734.8	1719.4	1690.8	1677.7	1655.7
5°	1730.4	1719.4	1774.3	1824.8	1864.3	1859.9	1822.6	1791.9	1734.8	1649.1	1567.9
7.5°	1655.7	1666.7	1706.2	1838.0	1930.2	1947.8	1888.5	1827.0	1704.0	1585.4	1475.6
10°	1515.2	1530.5	1616.2	1752.3	1897.3	1925.8	1888.5	1813.8	1666.7	1519.6	1392.2
12.5°	1447.1	1482.2	1532.7	1697.4	1800.6	1868.7	1851.1	1802.8	1638.1	1464.7	1341.7
15°	1447.1	1455.9	1530.5	1668.9	1728.2	1730.4	1737.0	1745.7	1646.9	1488.8	1324.1
17.5°	1493.2	1517.4	1581.0	1666.7	1677.7	1651.3	1651.3	1688.6	1664.5	1556.9	1387.8
20°	1605.2	1596.4	1679.9	1715.0	1655.7	1589.8	1583.2	1646.9	1684.3	1629.4	1504.2
22.5°	1717.2	1756.7	1824.8	1745.7	1635.9	1548.1	1539.3	1618.4	1743.5	1754.5	1638.1
25°	1886.3	1925.8	1960.9	1864.3	1633.7	1537.1	1543.7	1605.2	1816.0	1932.4	1862.1
27.5°	2068.5	2092.7	2143.2	1993.9	1686.5	1524.0	1530.5	1622.8	1884.1	2048.8	2037.8
30°	2171.7	2198.1	2187.1	2018.0	1721.6	1532.7	1515.2	1646.9	1846.8	2048.8	2152.0
32.5°	2272.8	2257.4	2250.8	2057.6	1765.5	1587.6	1543.7	1697.4	1868.7	2081.7	2299.1
35°	2395.7	2373.8	2356.2	2134.4	1838.0	1640.3	1620.6	1763.3	1917.0	2149.8	2417.7
37.5°	2531.9	2531.9	2446.2	2191.5	1923.6	1726.0	1704.0	1857.7	1993.9	2191.5	2580.2
40°	2692.2	2698.8	2547.2	2268.4	2020.2	1862.1	1855.5	1980.7	2068.5	2253.0	2736.1
42.5°	2810.8	2815.1	2635.1	2296.9	2132.2	2051.0	2079.5	2178.3	2154.2	2307.9	2747.1
45°	2892.0	2870.0	2696.6	2378.2	2255.2	2334.2	2343.0	2371.6	2266.2	2340.8	2791.0
47.5°	2931.5	2927.1	2722.9	2472.6	2514.3	2621.9	2672.4	2632.9	2369.4	2305.7	2791.0
50°	2971.1	2933.7	2747.1	2602.1	2766.8	2984.2	2973.2	2900.8	2512.1	2349.6	2749.3
52.5°	2997.4	2964.5	2795.4	2718.5	3008.4	3254.3	3298.2	3164.3	2679.0	2430.9	2769.0
55°	3091.8	3065.5	2940.3	2876.6	3287.3	3539.8	3546.4	3359.7	2854.7	2564.8	2898.6
57.5°	3206.0	3221.4	3140.1	3100.6	3500.3	3748.4	3724.2	3504.7	3004.0	2727.3	3047.9
60°	3287.3	3311.4	3291.7	3296.0	3605.7	3818.7	3763.8	3594.7	3113.8	2850.3	3230.2
62.5°	3243.3	3291.7	3372.9	3355.3	3610.1	3768.2	3691.3	3476.1	3127.0	3010.6	3368.5
65°	3122.6	3127.0	3285.1	3381.7	3412.4	3506.9	3405.8	3228.0	2990.8	3109.4	3348.7
67.5°	2812.9	2848.1	2990.8	3179.7	3050.1	3072.1	3063.3	2806.4	2784.4	3041.3	3197.2
70°	2483.6	2507.7	2663.6	2885.4	2575.8	2472.6	2492.3	2301.3	2391.3	2830.5	2892.0
72.5°	2053.2	2068.5	2246.4	2441.8	2066.3	1881.9	1928.0	1772.1	1899.5	2477.0	2439.6
75°	1550.3	1578.9	1717.2	1947.8	1521.8	1403.2	1449.3	1385.6	1504.2	2040.0	1892.9
77.5°	1102.3	1080.4	1251.7	1524.0	1144.1	1073.8	1078.2	1089.2	1216.5	1719.4	1359.3
80°	751.0	757.6	911.3	1117.7	898.1	887.1	876.2	964.0	1021.1	1361.5	988.2
82.5°	445.8	445.8	614.9	794.9	709.3	799.3	748.8	827.9	799.3	1001.3	647.8
85°	208.6	208.6	316.2	573.1	549.0	658.8	560.0	625.8	590.7	698.3	292.1
87.5°	35.1	30.7	63.7	281.1	226.2	256.9	101.0	333.8	371.1	487.5	72.5
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°	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0
2.5°	1631.6	1616.2	1585.4	1545.9	1513.0	1471.3	1458.1	1429.5	1390.0	1385.6	1368.0
5°	1537.1	1484.4	1418.6	1337.3	1282.4	1225.3	1177.0	1148.5	1115.5	1111.1	1102.3
7.5°	1433.9	1368.0	1258.3	1161.6	1067.2	977.2	933.3	878.4	841.0	812.5	799.3
10°	1337.3	1275.8	1139.7	1007.9	924.5	865.2	812.5	755.4	709.3	674.1	661.0
12.5°	1273.6	1201.2	1054.0	928.9	867.4	799.3	740.0	678.5	619.2	573.1	549.0
15°	1245.1	1177.0	1027.7	889.3	799.3	704.9	636.8	575.3	502.9	469.9	458.9
17.5°	1313.1	1212.1	1018.9	843.2	715.9	608.3	524.8	458.9	406.2	373.3	360.1
20°	1401.0	1275.8	1034.3	788.3	636.8	516.0	423.8	353.5	318.4	294.3	292.1
22.5°	1513.0	1370.2	1058.4	748.8	549.0	415.0	331.6	289.9	265.7	263.5	259.1
25°	1712.8	1541.5	1097.9	696.1	478.7	342.6	283.3	259.1	248.1	241.5	245.9
27.5°	1884.1	1653.5	1126.5	663.2	450.2	322.8	274.5	248.1	237.2	235.0	237.2
30°	1985.1	1756.7	1117.7	601.7	393.1	307.4	292.1	283.3	261.3	243.7	243.7
32.5°	2077.3	1822.6	1115.5	546.8	336.0	256.9	243.7	237.2	250.3	259.1	252.5
35°	2204.7	1925.8	1108.9	516.0	311.8	237.2	215.2	197.6	188.8	184.5	191.0
37.5°	2340.8	1996.1	1091.4	511.6	298.6	226.2	208.6	191.0	182.3	177.9	175.7
40°	2490.1	2070.7	1071.6	489.7	292.1	219.6	202.0	186.7	175.7	169.1	166.9
42.5°	2586.8	2130.0	1051.8	478.7	278.9	215.2	195.4	182.3	171.3	162.5	162.5
45°	2641.7	2200.3	1032.1	467.7	263.5	217.4	195.4	177.9	164.7	160.3	155.9
47.5°	2665.8	2253.0	1025.5	450.2	250.3	208.6	191.0	173.5	160.3	151.5	149.3
50°	2729.5	2365.0	1049.6	437.0	235.0	199.8	202.0	171.3	158.1	147.1	144.9
52.5°	2766.8	2455.0	1102.3	417.2	224.0	188.8	197.6	166.9	151.5	140.5	140.5
55°	2903.0	2604.3	1159.4	401.8	210.8	173.5	182.3	158.1	140.5	133.9	133.9
57.5°	3076.5	2762.4	1207.7	395.3	202.0	162.5	162.5	153.7	133.9	125.2	123.0
60°	3197.2	2892.0	1236.3	390.9	193.2	151.5	144.9	153.7	127.4	118.6	116.4
62.5°	3210.4	2817.3	1207.7	388.7	191.0	140.5	131.8	147.1	120.8	112.0	107.6
65°	3127.0	2665.8	1128.7	379.9	188.8	129.6	123.0	127.4	112.0	105.4	101.0
67.5°	2960.1	2419.9	1014.5	375.5	186.7	120.8	112.0	109.8	103.2	96.6	92.2
70°	2571.4	2099.3	880.6	355.7	182.3	114.2	101.0	98.8	92.2	87.8	85.6
72.5°	2158.6	1717.2	726.8	329.4	173.5	103.2	92.2	87.8	85.6	79.1	76.9
75°	1653.5	1321.9	581.9	292.1	151.5	92.2	81.2	76.9	74.7	70.3	68.1
77.5°	1161.6	983.8	430.4	237.2	127.4	83.4	72.5	68.1	65.9	59.3	59.3
80°	788.3	689.5	292.1	164.7	98.8	68.1	63.7	59.3	54.9	50.5	50.5
82.5°	489.7	483.1	210.8	107.6	72.5	54.9	50.5	50.5	43.9	39.5	39.5
85°	224.0	296.4	147.1	74.7	54.9	41.7	41.7	39.5	35.1	28.5	28.5
87.5°	70.3	98.8	76.9	32.9	30.7	24.2	24.2	22.0	22.0	17.6	17.6
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°	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0
2.5°	1385.6	1383.4	1383.4	1374.6	1396.6	1396.6	1409.8	1398.8	1405.4	1407.6	1425.1
5°	1100.1	1117.7	1130.9	1157.2	1172.6	1179.2	1179.2	1196.8	1190.2	1203.4	1229.7
7.5°	805.9	827.9	867.4	900.3	926.7	935.5	933.3	937.6	944.2	928.9	933.3
10°	652.2	636.8	650.0	680.7	704.9	733.4	711.5	709.3	715.9	709.3	722.5
12.5°	544.6	527.0	516.0	516.0	533.6	546.8	540.2	551.2	575.3	581.9	597.3
15°	441.4	426.0	417.2	406.2	423.8	428.2	434.8	450.2	467.7	476.5	494.1
17.5°	353.5	353.5	353.5	344.8	351.3	357.9	360.1	379.9	382.1	390.9	397.5
20°	289.9	296.4	307.4	311.8	318.4	318.4	314.0	325.0	316.2	322.8	327.2
22.5°	261.3	270.1	274.5	276.7	285.5	287.7	276.7	278.9	281.1	274.5	276.7
25°	245.9	250.3	245.9	248.1	250.3	245.9	248.1	252.5	250.3	254.7	252.5
27.5°	239.4	235.0	232.8	230.6	230.6	226.2	228.4	228.4	232.8	235.0	235.0
30°	239.4	232.8	224.0	217.4	217.4	210.8	215.2	219.6	221.8	226.2	226.2
32.5°	245.9	232.8	217.4	210.8	204.2	199.8	204.2	210.8	219.6	221.8	224.0
35°	195.4	202.0	199.8	191.0	188.8	188.8	186.7	186.7	180.1	180.1	177.9
37.5°	175.7	173.5	177.9	180.1	182.3	175.7	175.7	166.9	164.7	166.9	166.9
40°	164.7	164.7	164.7	171.3	173.5	169.1	162.5	158.1	158.1	158.1	160.3
42.5°	160.3	155.9	153.7	158.1	164.7	160.3	153.7	151.5	151.5	153.7	153.7
45°	153.7	151.5	149.3	147.1	155.9	149.3	147.1	144.9	144.9	144.9	147.1
47.5°	147.1	144.9	140.5	140.5	142.7	140.5	138.3	138.3	138.3	142.7	142.7
50°	142.7	140.5	136.1	136.1	136.1	136.1	133.9	133.9	133.9	136.1	138.3
52.5°	136.1	133.9	131.8	129.6	129.6	129.6	129.6	129.6	129.6	131.8	133.9
55°	129.6	127.4	125.2	125.2	127.4	127.4	125.2	127.4	125.2	127.4	129.6
57.5°	123.0	120.8	118.6	120.8	123.0	120.8	120.8	120.8	120.8	120.8	123.0
60°	114.2	114.2	114.2	114.2	118.6	118.6	118.6	118.6	114.2	116.4	118.6
62.5°	109.8	107.6	107.6	109.8	112.0	112.0	114.2	112.0	109.8	112.0	112.0
65°	101.0	101.0	101.0	103.2	103.2	105.4	105.4	105.4	103.2	105.4	105.4
67.5°	94.4	94.4	94.4	94.4	98.8	98.8	98.8	98.8	96.6	96.6	98.8
70°	83.4	85.6	83.4	87.8	92.2	90.0	92.2	92.2	90.0	87.8	92.2
72.5°	76.9	76.9	76.9	76.9	83.4	83.4	83.4	85.6	83.4	81.2	83.4
75°	68.1	68.1	68.1	70.3	74.7	74.7	74.7	74.7	74.7	72.5	72.5
77.5°	59.3	61.5	59.3	61.5	65.9	63.7	65.9	68.1	65.9	63.7	63.7
80°	50.5	50.5	50.5	52.7	54.9	54.9	54.9	57.1	54.9	52.7	52.7
82.5°	39.5	39.5	41.7	41.7	43.9	43.9	43.9	46.1	43.9	41.7	41.7
85°	30.7	30.7	30.7	32.9	32.9	35.1	35.1	37.3	37.3	35.1	35.1
87.5°	19.8	17.6	19.8	19.8	22.0	22.0	19.8	17.6	19.8	17.6	15.4
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°	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0	1581.0
2.5°	1442.7	1482.2	1510.8	1530.5	1559.1	1614.0	1635.9	1675.5	1686.5	1693.0
5°	1240.7	1282.4	1343.9	1387.8	1438.3	1541.5	1620.6	1679.9	1706.2	1730.4
7.5°	972.8	1027.7	1091.4	1148.5	1231.9	1359.3	1462.5	1585.4	1631.6	1655.7
10°	759.8	810.3	880.6	950.8	1067.2	1174.8	1321.9	1433.9	1497.6	1515.2
12.5°	641.2	700.5	783.9	869.6	942.0	1065.0	1214.3	1376.8	1436.1	1447.1
15°	544.6	625.8	711.5	799.3	882.8	990.4	1150.7	1348.3	1436.1	1447.1
17.5°	450.2	522.6	623.6	718.1	814.7	961.8	1161.6	1372.4	1460.3	1493.2
20°	357.9	428.2	507.3	625.8	757.6	913.5	1185.8	1453.7	1570.1	1605.2
22.5°	296.4	327.2	404.0	518.2	674.1	880.6	1209.9	1581.0	1704.0	1717.2
25°	259.1	281.1	329.4	437.0	608.3	858.6	1267.0	1728.2	1886.3	1886.3
27.5°	241.5	250.3	283.3	379.9	562.2	838.8	1324.1	1890.7	2037.8	2068.5
30°	237.2	259.1	276.7	338.2	511.6	783.9	1376.8	2018.0	2169.5	2171.7
32.5°	232.8	228.4	241.5	294.3	450.2	726.8	1420.7	2147.6	2266.2	2272.8
35°	182.3	191.0	213.0	259.1	404.0	685.1	1442.7	2217.9	2389.1	2395.7
37.5°	171.3	182.3	199.8	239.4	373.3	650.0	1449.3	2354.0	2518.7	2531.9
40°	166.9	175.7	188.8	221.8	349.1	606.1	1462.5	2494.5	2709.7	2692.2
42.5°	158.1	169.1	182.3	213.0	329.4	573.1	1464.7	2571.4	2810.8	2810.8
45°	155.9	162.5	177.9	213.0	307.4	544.6	1429.5	2648.3	2927.1	2892.0
47.5°	147.1	160.3	173.5	206.4	281.1	516.0	1387.8	2687.8	2942.5	2931.5
50°	144.9	158.1	180.1	195.4	265.7	502.9	1379.0	2786.6	2973.2	2971.1
52.5°	140.5	153.7	186.7	186.7	245.9	485.3	1420.7	2830.5	2979.8	2997.4
55°	133.9	153.7	173.5	171.3	228.4	463.3	1466.9	2944.7	3096.2	3091.8
57.5°	129.6	149.3	164.7	155.9	208.6	448.0	1534.9	3054.5	3236.8	3206.0
60°	123.0	149.3	147.1	144.9	193.2	434.8	1592.0	3076.5	3267.5	3287.3
62.5°	118.6	155.9	129.6	133.9	180.1	428.2	1567.9	2911.8	3225.8	3243.3
65°	114.2	133.9	118.6	123.0	175.7	415.0	1473.4	2714.1	3045.7	3122.6
67.5°	105.4	109.8	109.8	114.2	171.3	384.3	1280.2	2358.4	2771.2	2812.9
70°	96.6	98.8	98.8	105.4	166.9	349.1	1056.2	2040.0	2404.5	2483.6
72.5°	87.8	87.8	87.8	96.6	153.7	320.6	869.6	1567.9	1998.3	2053.2
75°	76.9	76.9	76.9	85.6	138.3	292.1	685.1	1166.0	1471.3	1550.3
77.5°	68.1	68.1	65.9	76.9	120.8	237.2	494.1	823.5	1036.5	1102.3
80°	57.1	54.9	54.9	61.5	94.4	171.3	318.4	581.9	722.5	751.0
82.5°	46.1	43.9	41.7	46.1	68.1	107.6	197.6	406.2	463.3	445.8
85°	43.9	46.1	37.3	35.1	48.3	70.3	125.2	250.3	208.6	208.6
87.5°	17.6	15.4	15.4	13.2	24.2	26.4	54.9	46.1	35.1	35.1
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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