

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: P677430

Luminaire Tested: **CCW-SA-1E-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677430
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

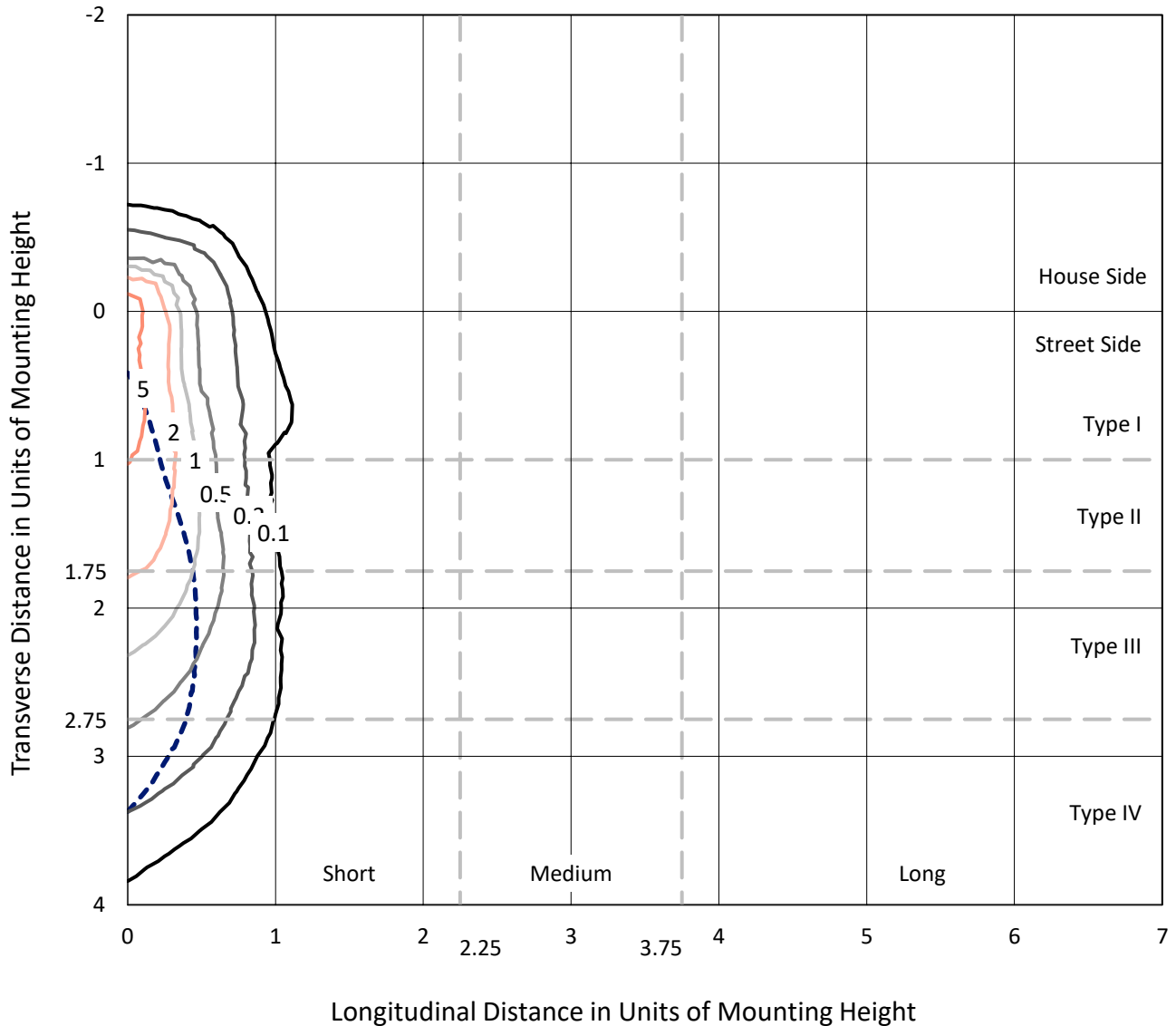
Lumens per Lamp: N/A
Luminaire Lumens: 4913.3 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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

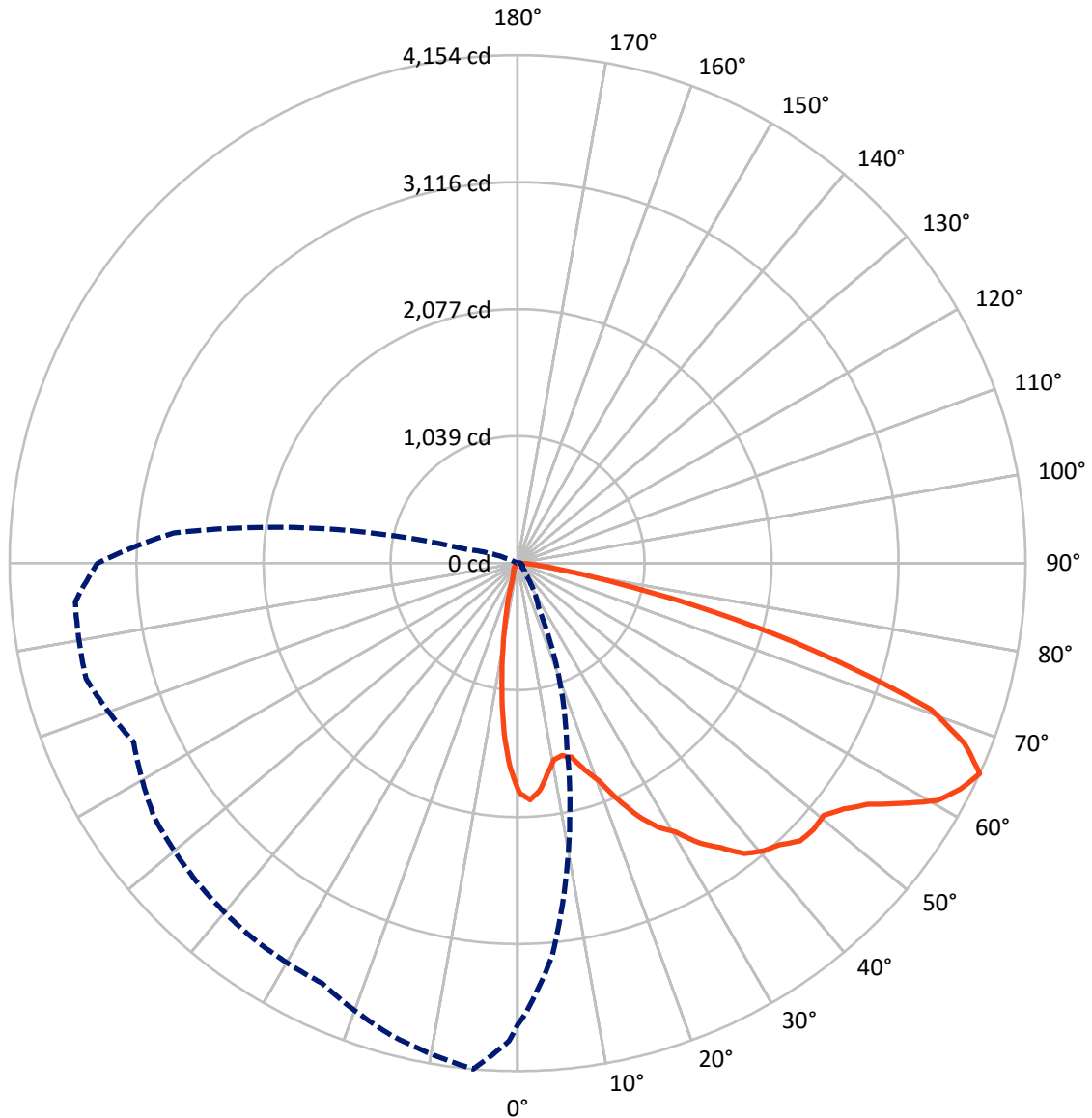
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.9	0.0	637.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4275.4	0.0	4275.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	4913.3	0.0	4913.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	2.9
10°-20°	275.5	5.6
20°-30°	383.7	7.8
30°-40°	545.2	11.1
40°-50°	756.1	15.4
50°-60°	1030.2	21.0
60°-70°	1132.6	23.1
70°-80°	556.7	11.3
80°-90°	90.9	1.9
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°	4913.3	100.0
0°-180°	4913.3	100.0



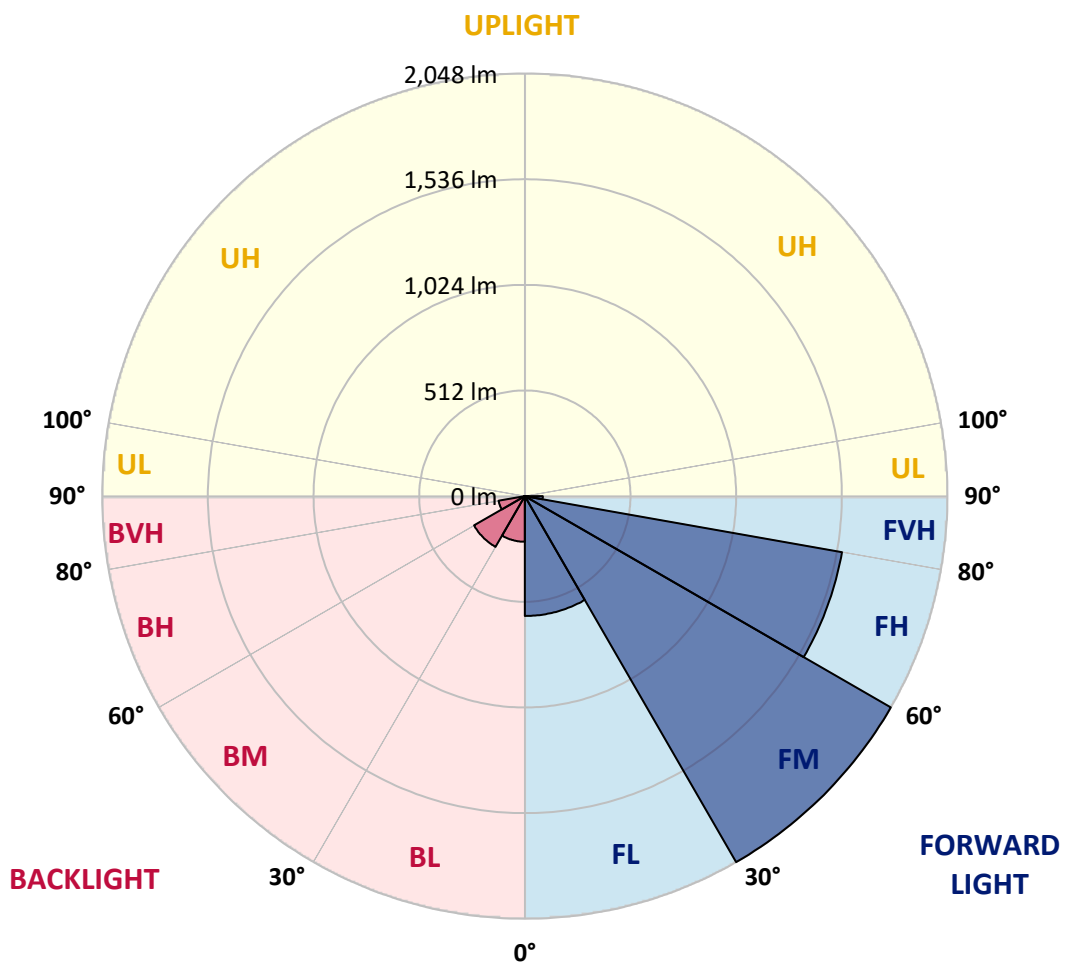
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.7	11.8			
FM (30°-60°)	2047.5	41.7			
FH (60°-80°)	1560.4	31.8			G1/1800
FVH (80°-90°)	86.8	1.8			G1/100
BL (0°-30°)	220.9	4.5	B1/500		
BM (30°-60°)	284.0	5.8	B1/1000		
BH (60°-80°)	128.9	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1916.8	1939.3	1918.1	1843.9	1830.7	1794.9	1740.6	1736.6	1679.7	1686.3	1655.8
5°	1801.5	1824.0	1779.0	1681.0	1589.6	1516.7	1473.0	1394.9	1377.6	1339.2	1339.2
7.5°	1683.6	1682.3	1605.5	1523.3	1386.9	1253.1	1192.2	1079.6	1013.4	977.6	943.2
10°	1585.6	1564.4	1516.7	1347.2	1198.8	1059.7	984.2	910.0	841.2	781.5	721.9
12.5°	1516.7	1530.0	1454.5	1270.3	1078.3	981.6	900.8	822.6	740.5	672.9	606.7
15°	1552.5	1531.3	1442.5	1253.1	1058.4	925.9	818.6	723.3	631.9	543.1	492.8
17.5°	1663.8	1609.5	1504.8	1253.1	1017.3	841.2	711.3	598.7	500.7	421.2	359.0
20°	1813.4	1751.2	1638.6	1299.5	986.9	778.9	601.4	459.7	357.7	283.5	235.8
22.5°	1967.1	1918.1	1748.5	1318.0	951.1	695.4	474.2	332.5	238.4	190.7	166.9
25°	2151.2	2082.4	1896.9	1392.2	898.1	614.6	373.6	231.8	177.5	152.3	137.8
27.5°	2298.3	2286.3	2036.0	1437.2	858.4	548.4	295.4	184.1	147.0	128.5	119.2
30°	2483.7	2418.8	2205.5	1527.3	813.3	472.9	246.4	165.6	135.1	115.2	108.6
32.5°	2595.0	2564.5	2294.3	1577.7	763.0	410.6	211.9	145.7	123.2	108.6	102.0
35°	2756.6	2695.7	2421.5	1609.5	736.5	374.9	190.7	132.5	103.3	88.8	80.8
37.5°	2936.7	2914.2	2573.8	1608.1	698.1	353.7	176.2	123.2	98.0	82.1	72.9
40°	3120.9	3029.5	2666.5	1645.2	678.2	337.8	165.6	117.9	92.7	78.2	66.2
42.5°	3258.6	3154.0	2773.8	1632.0	654.4	310.0	161.6	109.9	88.8	71.5	60.9
45°	3295.7	3258.6	2870.5	1628.0	637.2	287.4	155.0	108.6	86.1	67.6	57.0
47.5°	3367.3	3342.1	2989.7	1634.6	623.9	270.2	139.1	111.3	82.1	63.6	54.3
50°	3399.1	3354.0	3086.4	1650.5	593.4	249.0	124.5	116.6	80.8	62.3	51.7
52.5°	3530.2	3490.5	3218.9	1695.6	568.3	221.2	109.9	111.3	83.5	58.3	49.0
55°	3658.7	3613.6	3422.9	1798.9	532.5	198.7	94.1	98.0	79.5	53.0	43.7
57.5°	3834.9	3760.7	3559.3	1841.3	500.7	168.2	83.5	80.8	74.2	47.7	38.4
60°	3861.4	3891.8	3539.5	1814.8	467.6	148.4	72.9	62.3	79.5	42.4	33.1
62.5°	3950.1	3822.9	3446.7	1753.8	443.8	136.4	64.9	51.7	68.9	37.1	27.8
65°	3779.2	3685.2	3229.5	1557.8	413.3	137.8	57.0	42.4	43.7	30.5	22.5
67.5°	3528.9	3454.7	2869.2	1344.5	382.8	135.1	50.3	37.1	33.1	26.5	19.9
70°	3097.0	2936.7	2437.4	1091.5	337.8	125.8	42.4	33.1	27.8	21.2	14.6
72.5°	2253.2	2188.3	1748.5	843.8	303.3	113.9	39.7	27.8	23.8	15.9	11.9
75°	1516.7	1409.4	1103.4	553.7	243.7	99.3	33.1	25.2	18.5	11.9	9.3
77.5°	801.4	757.7	625.2	263.6	135.1	46.4	18.5	14.6	10.6	9.3	5.3
80°	347.1	308.6	270.2	107.3	47.7	21.2	11.9	7.9	6.6	5.3	2.6
82.5°	177.5	169.6	140.4	46.4	27.8	15.9	6.6	5.3	4.0	2.6	1.3
85°	87.4	90.1	74.2	14.6	15.9	9.3	1.3	1.3	0.0	0.0	0.0
87.5°	6.6	6.6	5.3	2.6	4.0	1.3	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1643.9	1662.4	1630.6	1650.5	1641.2	1645.2	1649.2	1638.6	1641.2	1678.3	1679.7
5°	1316.7	1352.5	1339.2	1357.8	1389.6	1373.7	1388.2	1385.6	1388.2	1393.5	1417.4
7.5°	939.2	928.6	953.7	1002.8	1059.7	1094.2	1076.9	1067.7	1062.4	1049.1	1065.0
10°	708.7	703.4	696.8	711.3	748.4	786.8	808.0	772.3	752.4	727.2	718.0
12.5°	588.1	555.0	536.5	514.0	524.6	559.0	560.3	525.9	494.1	480.8	495.4
15°	463.6	441.1	408.0	376.2	360.3	386.8	364.3	331.2	290.1	284.8	283.5
17.5°	331.2	317.9	294.1	280.8	262.3	255.7	231.8	181.5	152.3	144.4	147.0
20°	225.2	214.6	213.3	201.3	193.4	188.1	149.7	116.6	107.3	108.6	109.9
22.5°	166.9	161.6	155.0	153.7	147.0	140.4	109.9	98.0	91.4	91.4	95.4
25°	136.4	133.8	127.2	124.5	121.9	112.6	92.7	83.5	80.8	78.2	82.1
27.5°	116.6	115.2	111.3	107.3	104.6	95.4	80.8	72.9	70.2	70.2	70.2
30°	104.6	104.6	99.3	91.4	91.4	80.8	68.9	63.6	60.9	60.9	59.6
32.5°	98.0	95.4	88.8	83.5	79.5	68.9	60.9	55.6	51.7	51.7	53.0
35°	79.5	79.5	78.2	74.2	68.9	58.3	51.7	46.4	43.7	42.4	43.7
37.5°	70.2	66.2	60.9	62.3	59.6	50.3	43.7	39.7	35.8	35.8	35.8
40°	63.6	59.6	54.3	50.3	49.0	45.0	38.4	31.8	27.8	26.5	26.5
42.5°	57.0	54.3	46.4	39.7	38.4	38.4	29.1	23.8	19.9	19.9	19.9
45°	53.0	49.0	42.4	34.4	27.8	29.1	23.8	17.2	14.6	13.2	13.2
47.5°	50.3	46.4	37.1	29.1	21.2	21.2	17.2	11.9	9.3	7.9	7.9
50°	46.4	42.4	33.1	23.8	15.9	13.2	10.6	6.6	4.0	2.6	2.6
52.5°	43.7	39.7	29.1	19.9	13.2	9.3	6.6	1.3	0.0	0.0	0.0
55°	39.7	34.4	25.2	15.9	10.6	5.3	1.3	0.0	0.0	0.0	0.0
57.5°	34.4	30.5	19.9	11.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0
60°	29.1	25.2	15.9	9.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23.8	21.2	11.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19.9	15.9	9.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.2	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.2	9.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.3	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	1685.0	1724.7	1761.8	1772.4	1801.5	1882.3	1882.3	1920.7	1989.6	2014.8	2020.1
5°	1421.3	1463.7	1471.7	1553.8	1592.2	1674.4	1728.7	1858.5	1936.6	1985.7	2016.1
7.5°	1080.9	1095.5	1126.0	1202.8	1278.3	1377.6	1481.0	1646.5	1784.3	1839.9	1943.3
10°	743.1	786.8	853.1	922.0	1039.9	1149.8	1283.6	1439.9	1609.5	1678.3	1767.1
12.5°	500.7	561.7	667.6	765.6	874.3	985.5	1112.7	1322.0	1514.1	1609.5	1698.2
15°	292.7	366.9	458.3	617.3	761.7	886.2	1013.4	1225.3	1458.4	1581.6	1690.3
17.5°	148.4	170.9	246.4	384.1	574.9	778.9	968.3	1238.5	1500.8	1651.8	1741.9
20°	111.3	117.9	139.1	204.0	393.4	643.8	925.9	1258.4	1618.7	1802.8	1851.9
22.5°	96.7	102.0	111.3	132.5	221.2	492.8	866.3	1307.4	1779.0	1952.5	2055.9
25°	82.1	87.4	95.4	108.6	141.7	335.1	793.5	1359.1	1922.1	2140.6	2237.3
27.5°	71.5	75.5	83.5	94.1	115.2	213.3	667.6	1428.0	2140.6	2368.5	2393.6
30°	60.9	64.9	71.5	83.5	98.0	151.0	490.1	1437.2	2261.2	2467.8	2538.0
32.5°	53.0	54.3	62.3	72.9	82.1	119.2	344.4	1446.5	2349.9	2596.3	2610.9
35°	43.7	46.4	54.3	60.9	71.5	94.1	261.0	1400.2	2465.2	2728.8	2724.8
37.5°	35.8	39.7	45.0	50.3	58.3	79.5	208.0	1314.1	2609.6	2934.1	2809.6
40°	27.8	31.8	37.1	43.7	49.0	71.5	156.3	1184.2	2760.6	3034.8	2902.3
42.5°	19.9	22.5	27.8	34.4	43.7	59.6	112.6	1030.6	2820.2	3152.7	3013.6
45°	14.6	17.2	21.2	29.1	45.0	47.7	78.2	890.2	2883.8	3204.3	2988.4
47.5°	7.9	10.6	15.9	25.2	39.7	35.8	55.6	764.3	2956.6	3250.7	3008.3
50°	2.6	4.0	9.3	26.5	31.8	27.8	43.7	696.8	3028.2	3260.0	3048.0
52.5°	0.0	0.0	5.3	27.8	23.8	21.2	38.4	670.3	3009.6	3289.1	3022.9
55°	0.0	0.0	1.3	11.9	13.2	15.9	31.8	668.9	3140.7	3298.4	3160.6
57.5°	0.0	0.0	0.0	4.0	7.9	13.2	27.8	626.6	3224.2	3528.9	3346.1
60°	0.0	0.0	0.0	1.3	5.3	9.3	21.2	589.5	3309.0	3632.2	3544.8
62.5°	0.0	0.0	0.0	0.0	1.3	4.0	14.6	532.5	3138.1	3624.2	3736.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.3	421.2	2822.8	3434.8	3630.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	291.4	2471.8	3196.4	3436.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.2	1994.9	2803.0	2914.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.5	1424.0	2225.4	2391.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	880.9	1626.7	1830.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	570.9	1231.9	1389.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	304.7	772.3	898.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.5	468.9	540.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	284.8	324.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7	58.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4	1878.4
2.5°	2022.7	2061.2	2075.7	2053.2	2055.9	2009.5	2002.9	1938.0	1911.5	1916.8
5°	2115.5	2171.1	2201.6	2176.4	2119.4	2030.7	1949.9	1873.1	1825.4	1801.5
7.5°	2094.3	2156.5	2194.9	2218.8	2153.9	2010.8	1887.6	1743.2	1682.3	1683.6
10°	1977.7	2107.5	2185.7	2155.2	2124.7	1981.7	1790.9	1634.6	1580.3	1585.6
12.5°	1883.7	2028.0	2074.4	2098.2	2036.0	1922.1	1793.6	1614.7	1553.8	1516.7
15°	1825.4	1932.7	1935.3	1972.4	1947.2	1947.2	1821.4	1646.5	1593.6	1552.5
17.5°	1825.4	1849.2	1846.6	1859.8	1902.2	1952.5	1891.6	1775.0	1670.4	1663.8
20°	1866.4	1792.3	1775.0	1780.3	1816.1	1965.8	2046.6	1900.9	1834.6	1813.4
22.5°	1961.8	1798.9	1694.2	1675.7	1785.6	1964.5	2145.9	2099.6	1984.3	1967.1
25°	2092.9	1787.0	1673.0	1649.2	1732.6	2012.1	2282.4	2291.6	2187.0	2151.2
27.5°	2217.5	1839.9	1670.4	1665.1	1775.0	2001.5	2376.4	2445.3	2327.4	2298.3
30°	2259.9	1892.9	1719.4	1649.2	1790.9	2040.0	2373.8	2553.9	2477.1	2483.7
32.5°	2310.2	1945.9	1724.7	1696.9	1858.5	2102.2	2449.3	2728.8	2673.1	2595.0
35°	2384.4	2017.4	1775.0	1749.9	1906.2	2157.9	2465.2	2857.3	2848.0	2756.6
37.5°	2448.0	2087.6	1879.7	1883.7	2051.9	2247.9	2535.4	3014.9	2999.0	2936.7
40°	2493.0	2185.7	2042.6	2053.2	2179.0	2348.6	2659.9	3094.4	3212.3	3120.9
42.5°	2499.6	2273.1	2229.4	2314.2	2432.1	2504.9	2710.2	3148.7	3318.2	3258.6
45°	2524.8	2412.2	2534.1	2596.3	2693.0	2642.7	2707.6	3241.4	3326.2	3295.7
47.5°	2622.8	2665.2	2818.9	3008.3	3042.7	2877.1	2771.2	3256.0	3371.2	3367.3
50°	2724.8	2936.7	3152.7	3278.5	3322.2	3038.7	2830.8	3244.1	3430.8	3399.1
52.5°	2838.7	3172.5	3483.8	3638.8	3615.0	3217.6	2898.3	3340.8	3540.8	3530.2
55°	2910.3	3278.5	3697.1	3913.0	3894.5	3417.6	3112.9	3479.9	3685.2	3658.7
57.5°	3099.7	3450.7	3909.0	4009.7	4058.7	3679.9	3262.6	3707.7	3805.7	3834.9
60°	3256.0	3563.3	3964.7	4110.4	4127.6	3836.2	3524.9	3942.2	3959.4	3861.4
62.5°	3485.2	3607.0	3846.8	3977.9	4066.7	3924.9	3760.7	4068.0	3956.7	3950.1
65°	3653.4	3464.0	3626.9	3699.7	3756.7	3789.8	3997.8	4154.1	3907.7	3779.2
67.5°	3559.3	3193.7	3163.3	3167.2	3184.5	3384.5	3918.3	3943.5	3634.8	3528.9
70°	3132.8	2620.2	2579.1	2610.9	2524.8	2765.9	3596.4	3584.5	3207.0	3097.0
72.5°	2534.1	1910.1	1839.9	1883.7	1903.5	2159.2	3025.5	2718.2	2339.3	2253.2
75°	2013.5	1400.2	1181.6	1287.6	1355.1	1572.4	2363.2	1846.6	1633.3	1516.7
77.5°	1581.6	1059.7	919.3	876.9	939.2	1143.2	1719.4	969.6	855.7	801.4
80°	1002.8	778.9	845.1	784.2	810.7	816.0	895.5	441.1	351.0	347.1
82.5°	604.0	532.5	633.2	348.4	634.5	567.0	372.2	200.0	177.5	177.5
85°	427.9	329.8	218.6	141.7	282.2	311.3	144.4	103.3	90.1	87.4
87.5°	214.6	102.0	49.0	31.8	35.8	58.3	17.2	7.9	7.9	6.6
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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