

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: P677278

Luminaire Tested: **CCW-SA-2B-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677278
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

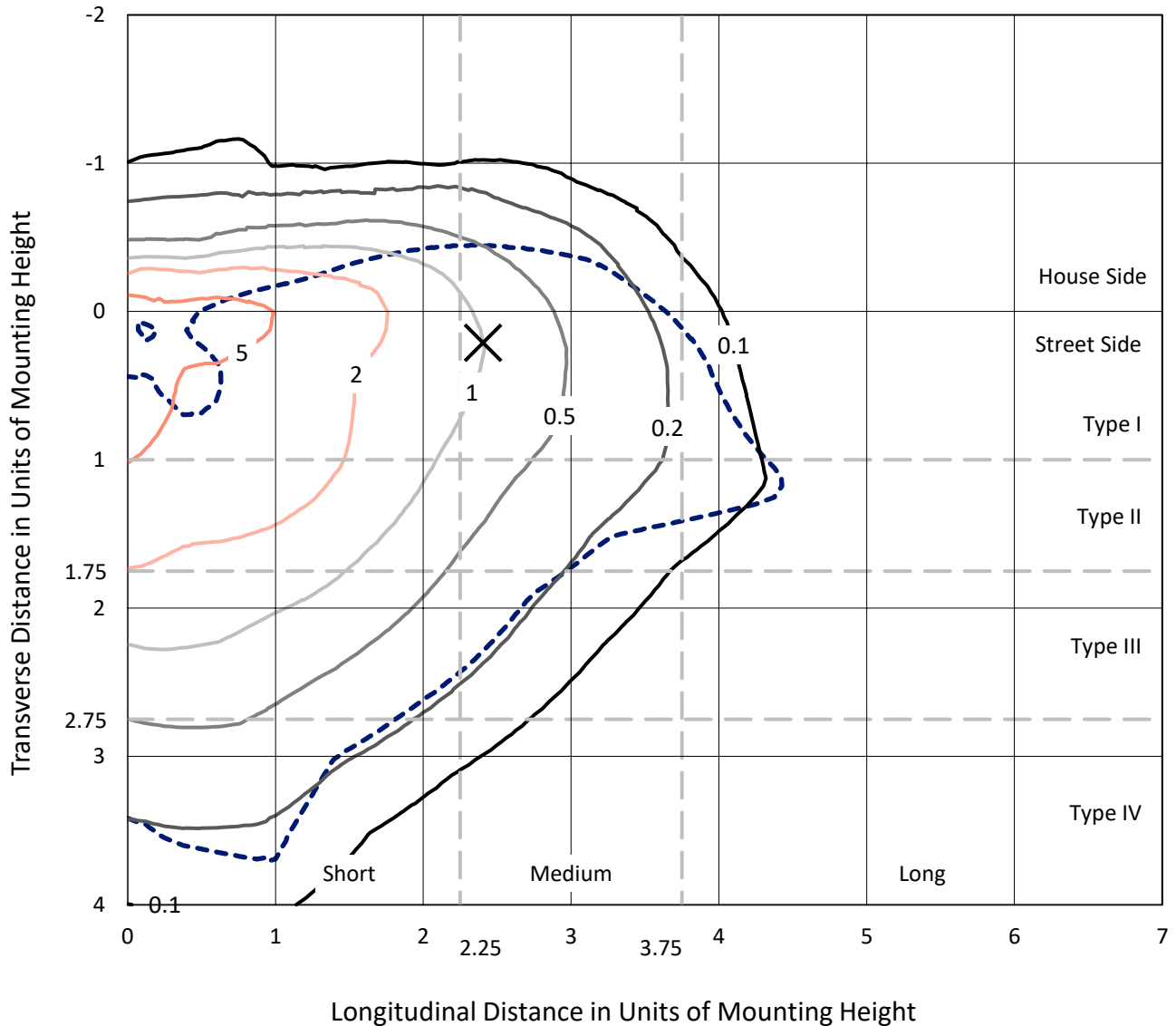
Lumens per Lamp: N/A
Luminaire Lumens: 4942.1 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

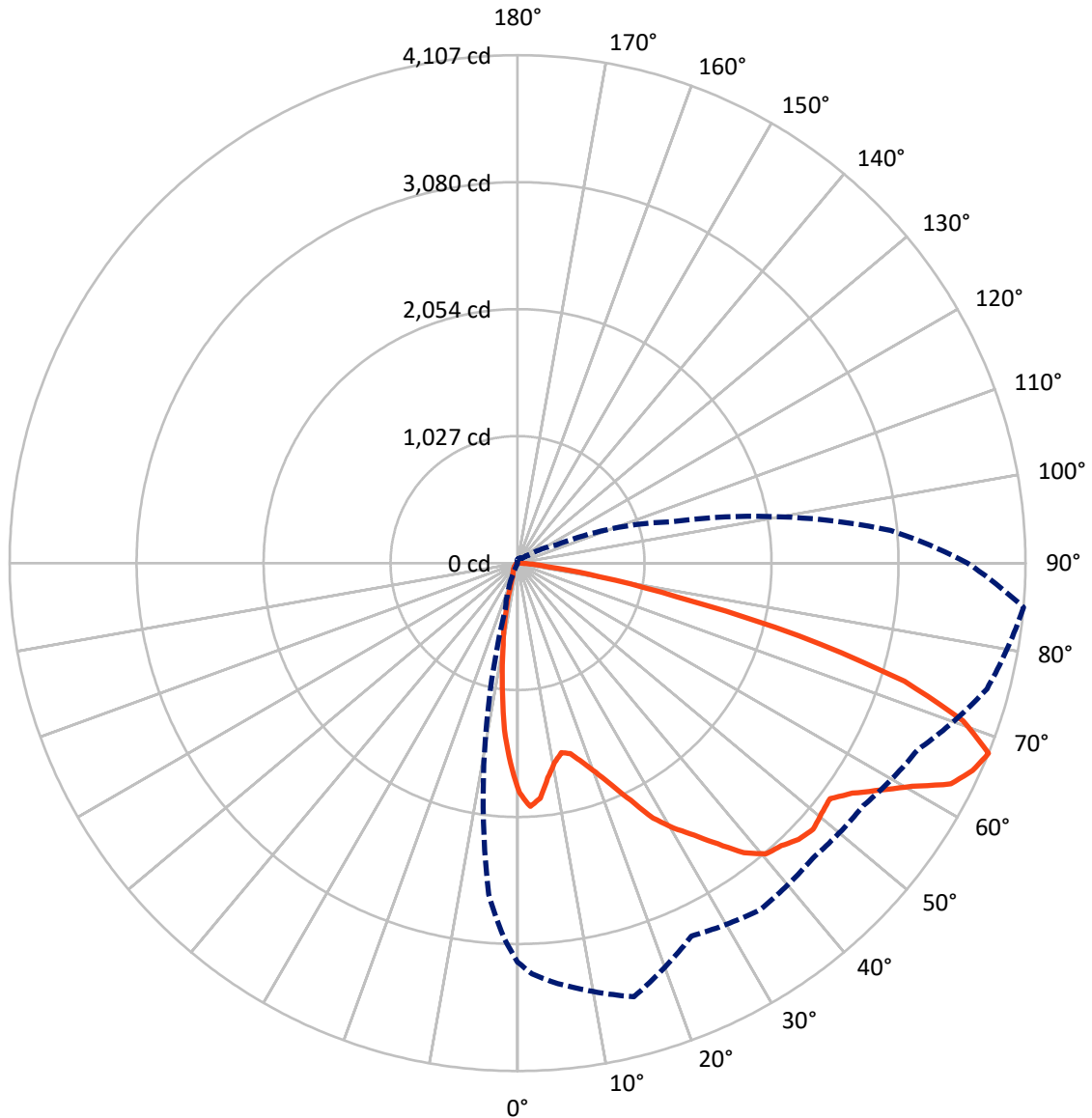
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.1	0.0	858.1
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4084.0	0.0	4084.0
	% Fixture	82.6	0.0	82.6
Total	Lumens	4942.1	0.0	4942.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	2.9
10°-20°	276.8	5.6
20°-30°	383.1	7.8
30°-40°	541.4	11.0
40°-50°	737.1	14.9
50°-60°	976.2	19.8
60°-70°	1133.5	22.9
70°-80°	641.9	13.0
80°-90°	110.9	2.2
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°	4942.1	100.0
0°-180°	4942.1	100.0



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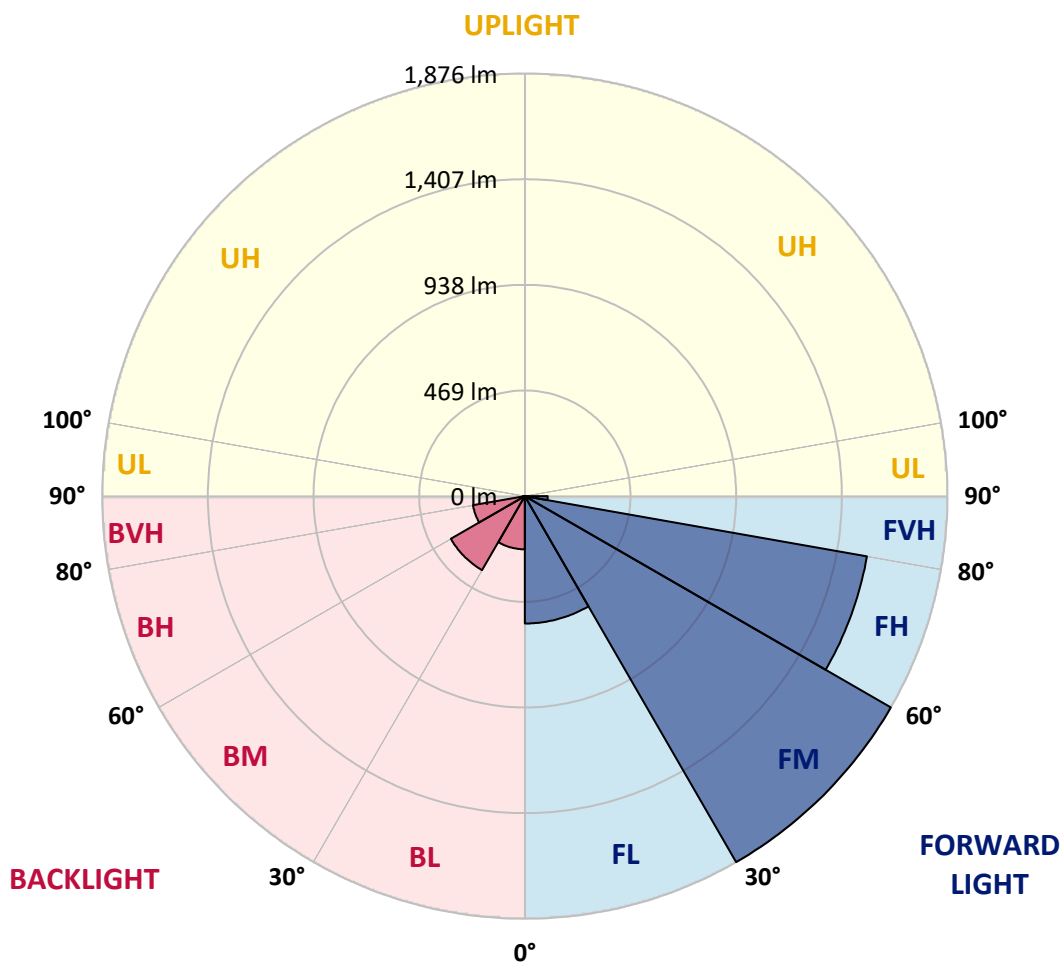
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.2	11.4			
FM (30°-60°)	1875.6	38.0			
FH (60°-80°)	1541.7	31.2			G1/1800
FVH (80°-90°)	101.6	2.1			G2/225
BL (0°-30°)	235.9	4.8	B1/500		
BM (30°-60°)	379.2	7.7	B1/1000		
BH (60°-80°)	233.7	4.7	B1/500		G1/500
BVH (80°-90°)	9.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1930.8	1971.7	1973.0	1991.5	2010.0	2010.0	2053.5	2042.9	2004.7	1998.1	1970.4
5°	1945.3	1959.8	1970.4	2064.1	2143.2	2135.3	2159.1	2143.2	2069.3	1974.3	1909.7
7.5°	1819.9	1835.8	1878.0	2037.7	2144.6	2180.2	2225.1	2126.1	2048.2	1876.7	1752.6
10°	1653.6	1684.0	1761.8	1944.0	2075.9	2189.4	2189.4	2110.3	1959.8	1792.2	1640.4
12.5°	1561.2	1622.0	1664.2	1848.9	2020.5	2098.4	2095.7	2053.5	1955.8	1744.7	1573.1
15°	1577.1	1594.2	1684.0	1827.8	1941.3	1937.4	1984.9	1971.7	1903.1	1786.9	1598.2
17.5°	1649.7	1676.1	1753.9	1827.8	1881.9	1866.1	1864.8	1928.1	1932.1	1858.2	1691.9
20°	1768.4	1846.3	1883.3	1905.7	1839.7	1772.4	1764.5	1852.9	1921.5	1949.2	1804.1
22.5°	1958.5	2010.0	2085.2	1970.4	1798.8	1714.3	1698.5	1796.2	1934.7	2057.5	1949.2
25°	2144.6	2184.2	2256.7	2108.9	1845.0	1702.5	1674.7	1759.2	1984.9	2207.9	2124.8
27.5°	2341.2	2375.5	2383.4	2210.6	1870.1	1678.7	1645.7	1759.2	2027.1	2287.1	2334.6
30°	2461.3	2502.2	2510.1	2300.3	1911.0	1698.5	1682.7	1767.1	2056.1	2354.4	2485.1
32.5°	2595.9	2606.5	2599.9	2316.1	1955.8	1756.6	1690.6	1819.9	2089.1	2434.9	2622.3
35°	2756.9	2775.4	2708.1	2388.7	2056.1	1793.5	1769.8	1884.6	2145.9	2471.9	2788.6
37.5°	2879.7	2937.7	2786.0	2416.4	2075.9	1871.4	1875.3	2019.2	2185.5	2516.7	2972.0
40°	3110.6	3013.0	2917.9	2511.5	2151.2	2003.4	1982.2	2157.8	2318.8	2545.8	3092.1
42.5°	3237.3	3185.8	2969.4	2520.7	2267.3	2185.5	2190.8	2314.8	2388.7	2627.6	3125.1
45°	3269.0	3214.9	3039.3	2527.3	2382.1	2400.6	2491.7	2515.4	2491.7	2681.7	3187.2
47.5°	3349.5	3232.0	3031.4	2615.7	2568.2	2639.5	2755.6	2807.1	2631.6	2661.9	3216.2
50°	3333.7	3266.3	3014.3	2652.7	2795.2	2983.9	3061.8	3040.7	2787.3	2621.0	3184.5
52.5°	3267.7	3195.1	3067.1	2753.0	3007.7	3236.0	3344.2	3291.4	2925.9	2713.4	3163.4
55°	3364.0	3308.6	3135.7	2888.9	3167.4	3457.7	3534.2	3494.7	3096.1	2799.2	3283.5
57.5°	3468.3	3456.4	3321.8	3048.6	3356.1	3686.0	3686.0	3637.2	3243.9	2923.2	3461.7
60°	3618.7	3645.1	3459.0	3154.2	3420.8	3672.8	3864.2	3807.4	3393.0	3141.0	3663.6
62.5°	3569.9	3654.3	3635.9	3381.2	3494.7	3737.5	3841.7	3884.0	3577.8	3406.2	3932.8
65°	3412.8	3502.6	3634.5	3530.3	3439.2	3580.4	3633.2	3761.2	3670.2	3655.7	4043.7
67.5°	3225.4	3323.1	3404.9	3630.6	3327.1	3420.8	3374.6	3415.5	3569.9	3928.9	4107.0
70°	2816.3	2910.0	3039.3	3407.6	3030.1	2945.6	2933.8	2914.0	3154.2	3831.2	3819.3
72.5°	2316.1	2359.7	2573.5	2770.1	2242.2	2226.4	2244.9	2222.4	2500.9	3468.3	3271.6
75°	1734.1	1777.7	1899.1	2127.4	1526.9	1435.9	1541.5	1645.7	1909.7	2692.3	2350.4
77.5°	1303.9	1359.3	1435.9	1591.6	1120.5	977.9	992.4	1091.4	1380.4	2156.4	1317.1
80°	846.0	839.4	987.2	1095.4	843.3	869.7	832.8	905.3	1000.4	1153.4	673.1
82.5°	488.3	494.9	556.9	628.2	587.3	671.7	484.3	809.0	714.0	469.8	250.7
85°	274.5	286.4	343.1	435.5	368.2	246.8	201.9	401.2	448.7	192.7	121.4
87.5°	27.7	23.8	46.2	165.0	100.3	40.9	60.7	96.3	108.2	72.6	35.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1930.8	1930.8	1897.8	1842.3	1819.9	1780.3	1726.2	1743.4	1724.9	1657.6	1640.4
5°	1851.6	1788.2	1719.6	1635.2	1586.3	1486.0	1454.3	1397.6	1406.8	1350.1	1352.7
7.5°	1686.6	1636.5	1520.3	1409.5	1313.1	1226.0	1103.3	1057.1	1012.2	989.8	1016.2
10°	1590.3	1496.6	1338.2	1193.0	1065.0	987.2	905.3	842.0	783.9	740.4	731.1
12.5°	1520.3	1437.2	1245.8	1069.0	968.7	905.3	830.1	743.0	686.3	611.0	588.6
15°	1499.2	1397.6	1195.7	1020.2	922.5	818.2	732.5	646.7	572.8	493.6	465.9
17.5°	1571.8	1454.3	1194.4	980.6	843.3	731.1	612.4	516.0	440.8	368.2	351.0
20°	1694.5	1515.1	1232.6	956.8	768.1	617.6	483.0	386.7	302.2	254.7	242.8
22.5°	1834.4	1618.0	1236.6	893.5	692.9	504.1	352.4	254.7	207.2	184.8	178.2
25°	2006.0	1783.0	1284.1	842.0	604.4	382.7	250.7	195.3	167.6	154.4	151.8
27.5°	2147.2	1897.8	1335.6	787.9	517.3	283.7	196.6	159.7	145.2	132.0	130.7
30°	2293.7	2029.8	1350.1	754.9	442.1	233.6	168.9	141.2	125.4	118.8	117.5
32.5°	2421.7	2173.6	1396.3	700.8	370.8	205.9	153.1	126.7	116.1	105.6	104.3
35°	2586.7	2256.7	1418.7	671.7	344.5	186.1	139.9	116.1	100.3	93.7	91.1
37.5°	2763.5	2337.3	1433.2	649.3	322.0	174.2	132.0	109.5	95.0	85.8	83.1
40°	2928.5	2450.7	1412.1	621.6	304.9	159.7	126.7	101.6	88.4	79.2	75.2
42.5°	3055.2	2561.6	1405.5	595.2	286.4	154.4	120.1	97.7	83.1	72.6	71.3
45°	3126.5	2636.8	1359.3	574.1	271.9	157.0	117.5	92.4	79.2	69.9	64.7
47.5°	3109.3	2694.9	1371.2	567.5	252.1	146.5	116.1	88.4	72.6	64.7	60.7
50°	3204.3	2812.4	1351.4	546.4	237.6	132.0	126.7	88.4	71.3	62.0	58.1
52.5°	3220.2	2919.3	1393.6	508.1	215.1	121.4	125.4	87.1	68.6	59.4	54.1
55°	3352.1	3043.3	1475.5	487.0	196.6	105.6	114.8	84.5	62.0	54.1	51.5
57.5°	3531.6	3300.7	1528.3	467.2	171.6	92.4	96.3	83.1	56.7	50.1	46.2
60°	3704.5	3403.6	1532.2	431.6	147.8	83.1	75.2	83.1	52.8	44.9	40.9
62.5°	3833.8	3403.6	1505.8	401.2	129.3	73.9	66.0	79.2	47.5	39.6	37.0
65°	3763.9	3312.5	1437.2	376.1	117.5	64.7	56.7	60.7	42.2	34.3	31.7
67.5°	3638.5	3028.8	1285.4	345.8	116.1	56.7	48.8	44.9	37.0	30.4	27.7
70°	3437.9	2646.1	1070.3	311.5	113.5	51.5	43.6	38.3	33.0	26.4	23.8
72.5°	2770.1	2185.5	878.9	291.7	110.9	44.9	37.0	33.0	27.7	22.4	19.8
75°	1918.9	1396.3	677.0	249.4	108.2	40.9	34.3	29.0	23.8	18.5	17.2
77.5°	1150.8	933.1	436.8	187.4	71.3	33.0	29.0	22.4	19.8	15.8	14.5
80°	538.5	440.8	176.8	72.6	34.3	23.8	19.8	17.2	15.8	13.2	11.9
82.5°	211.2	186.1	85.8	42.2	27.7	18.5	15.8	14.5	13.2	10.6	9.2
85°	113.5	100.3	40.9	29.0	19.8	13.2	13.2	11.9	10.6	9.2	7.9
87.5°	25.1	18.5	17.2	17.2	14.5	10.6	10.6	9.2	7.9	6.6	5.3
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°	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1631.2	1651.0	1619.3	1639.1	1611.4	1632.5	1635.2	1615.4	1620.6	1647.0	1658.9
5°	1389.7	1376.5	1347.4	1338.2	1339.5	1322.4	1329.0	1338.2	1352.7	1360.6	1384.4
7.5°	1001.7	1032.0	1030.7	1053.1	1054.5	1051.8	1033.4	993.8	1007.0	996.4	1009.6
10°	716.6	729.8	754.9	769.4	795.8	781.3	739.1	723.2	715.3	714.0	727.2
12.5°	572.8	541.1	538.5	543.7	556.9	539.8	518.7	500.2	509.4	527.9	542.4
15°	443.4	417.0	382.7	377.4	380.1	372.2	349.7	326.0	332.6	351.0	361.6
17.5°	340.5	310.1	286.4	270.5	265.3	237.6	204.6	184.8	179.5	178.2	187.4
20°	229.6	224.4	220.4	200.6	200.6	161.0	133.3	118.8	118.8	121.4	122.7
22.5°	171.6	165.0	166.3	162.3	151.8	120.1	105.6	101.6	101.6	104.3	104.3
25°	149.1	139.9	137.3	135.9	125.4	102.9	92.4	88.4	88.4	91.1	91.1
27.5°	126.7	124.1	120.1	114.8	105.6	88.4	81.8	77.9	79.2	80.5	79.2
30°	116.1	109.5	104.3	104.3	93.7	79.2	73.9	71.3	68.6	71.3	72.6
32.5°	102.9	99.0	96.3	92.4	80.5	69.9	64.7	62.0	60.7	60.7	62.0
35°	88.4	88.4	85.8	80.5	69.9	63.3	56.7	54.1	52.8	54.1	54.1
37.5°	79.2	75.2	76.5	71.3	62.0	55.4	48.8	46.2	46.2	44.9	46.2
40°	73.9	67.3	63.3	60.7	55.4	47.5	42.2	39.6	38.3	38.3	38.3
42.5°	66.0	60.7	52.8	51.5	50.1	40.9	34.3	33.0	31.7	30.4	30.4
45°	62.0	54.1	47.5	40.9	40.9	34.3	29.0	26.4	25.1	23.8	25.1
47.5°	56.7	48.8	40.9	34.3	33.0	27.7	22.4	19.8	18.5	18.5	18.5
50°	54.1	43.6	35.6	29.0	25.1	22.4	17.2	14.5	13.2	13.2	13.2
52.5°	50.1	40.9	31.7	25.1	19.8	17.2	13.2	10.6	9.2	9.2	9.2
55°	44.9	37.0	27.7	21.1	17.2	13.2	9.2	6.6	5.3	5.3	5.3
57.5°	42.2	33.0	23.8	18.5	13.2	9.2	5.3	4.0	4.0	2.6	4.0
60°	38.3	29.0	19.8	14.5	10.6	6.6	4.0	1.3	1.3	1.3	1.3
62.5°	33.0	25.1	17.2	11.9	7.9	4.0	1.3	0.0	0.0	0.0	0.0
65°	27.7	19.8	13.2	9.2	5.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.8	17.2	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.1	14.5	7.9	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.2	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.5	9.2	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.2	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.3	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1676.1	1668.1	1707.7	1772.4	1805.4	1870.1	1885.9	1926.8	1916.3	1930.8
5°	1387.0	1402.9	1460.9	1556.0	1590.3	1684.0	1772.4	1860.8	1917.6	1945.3
7.5°	1029.4	1082.2	1153.4	1240.6	1329.0	1451.7	1602.2	1705.1	1760.5	1819.9
10°	766.8	823.5	905.3	991.1	1135.0	1272.2	1422.7	1550.7	1598.2	1653.6
12.5°	603.1	691.5	786.6	878.9	964.7	1095.4	1281.5	1467.5	1519.0	1561.2
15°	419.7	527.9	663.8	783.9	904.0	1017.5	1210.2	1435.9	1505.8	1577.1
17.5°	232.3	318.1	473.8	642.7	819.6	993.8	1234.0	1493.9	1599.5	1649.7
20°	134.6	168.9	279.8	480.4	714.0	942.3	1245.8	1603.5	1743.4	1768.4
22.5°	110.9	122.7	158.4	300.9	584.6	909.3	1306.5	1756.6	1899.1	1958.5
25°	95.0	104.3	122.7	180.8	442.1	839.4	1344.8	1947.9	2079.9	2144.6
27.5°	84.5	93.7	108.2	133.3	300.9	743.0	1408.2	2120.8	2252.8	2341.2
30°	73.9	81.8	96.3	113.5	208.5	634.8	1462.3	2247.5	2433.6	2461.3
32.5°	66.0	72.6	83.1	97.7	154.4	481.7	1505.8	2378.2	2535.2	2595.9
35°	56.7	64.7	71.3	83.1	117.5	362.9	1479.4	2479.8	2684.3	2756.9
37.5°	50.1	55.4	62.0	69.9	99.0	283.7	1425.3	2601.2	2812.4	2879.7
40°	42.2	46.2	54.1	62.0	89.7	219.1	1363.3	2747.7	2991.8	3110.6
42.5°	35.6	39.6	44.9	58.1	73.9	162.3	1237.9	2861.2	3137.0	3237.3
45°	27.7	33.0	40.9	58.1	59.4	120.1	1108.6	2945.6	3218.8	3269.0
47.5°	21.1	26.4	39.6	50.1	47.5	83.1	955.5	3042.0	3303.3	3349.5
50°	15.8	21.1	44.9	43.6	39.6	63.3	859.1	3109.3	3308.6	3333.7
52.5°	10.6	15.8	37.0	33.0	33.0	55.4	832.8	3106.7	3321.8	3267.7
55°	7.9	11.9	21.1	23.8	29.0	48.8	809.0	3205.6	3325.7	3364.0
57.5°	5.3	9.2	14.5	18.5	25.1	42.2	760.2	3324.4	3448.5	3468.3
60°	2.6	6.6	10.6	14.5	21.1	37.0	691.5	3411.5	3597.6	3618.7
62.5°	1.3	4.0	7.9	11.9	17.2	29.0	620.3	3272.9	3532.9	3569.9
65°	0.0	2.6	5.3	7.9	10.6	21.1	504.1	2954.9	3276.9	3412.8
67.5°	0.0	0.0	2.6	5.3	6.6	15.8	380.1	2688.3	3040.7	3225.4
70°	0.0	0.0	1.3	1.3	4.0	11.9	242.8	2226.4	2714.7	2816.3
72.5°	0.0	0.0	0.0	0.0	1.3	7.9	141.2	1653.6	2127.4	2316.1
75°	0.0	0.0	0.0	0.0	0.0	6.6	71.3	1063.7	1480.7	1734.1
77.5°	0.0	0.0	0.0	0.0	0.0	5.3	38.3	686.3	1091.4	1303.9
80°	0.0	0.0	0.0	0.0	0.0	1.3	22.4	398.6	698.1	846.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.2	195.3	417.0	488.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	104.3	208.5	274.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	14.5	27.7
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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