

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: P677277

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677277
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

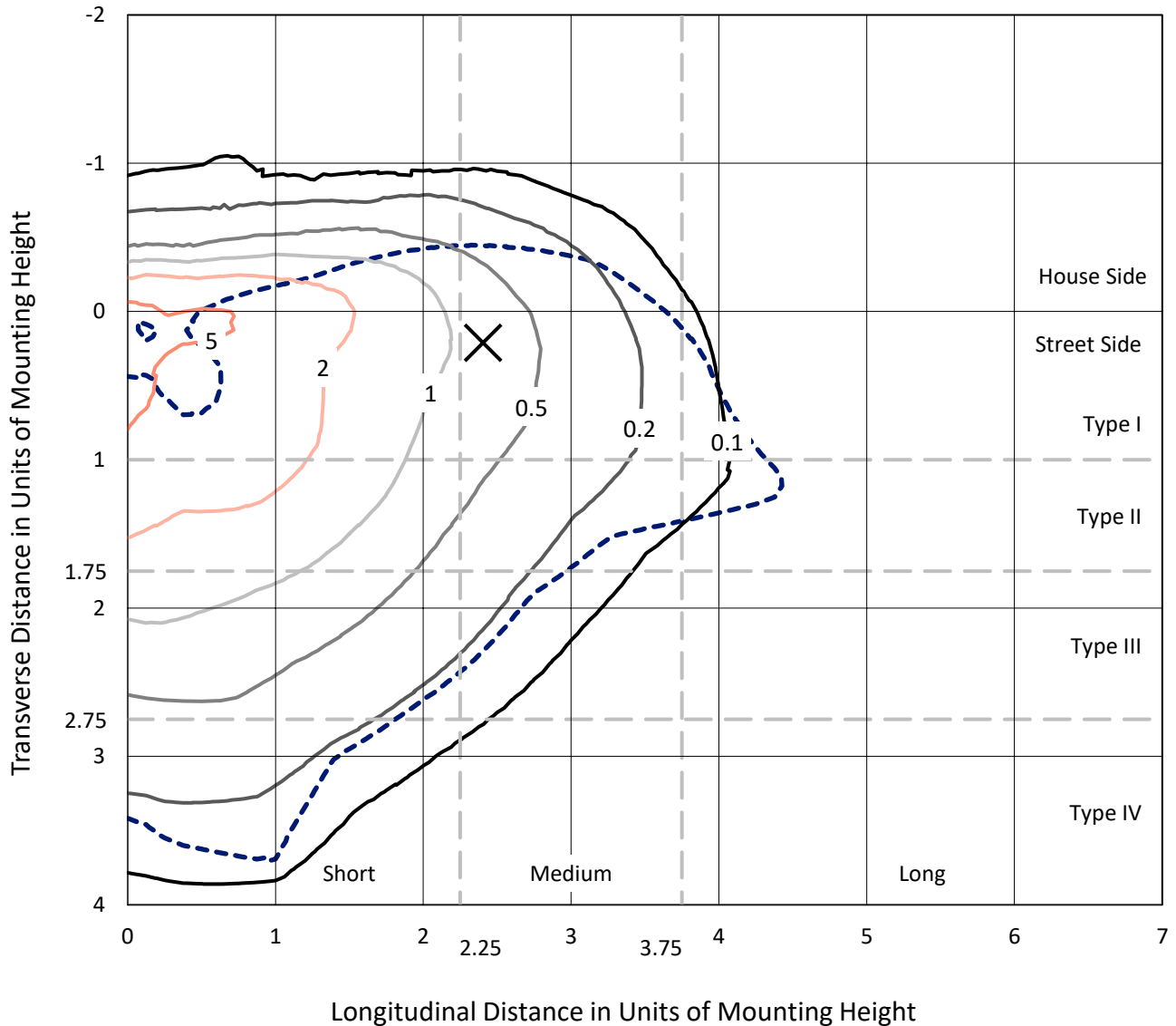
Lumens per Lamp: N/A
Luminaire Lumens: 3915.5 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

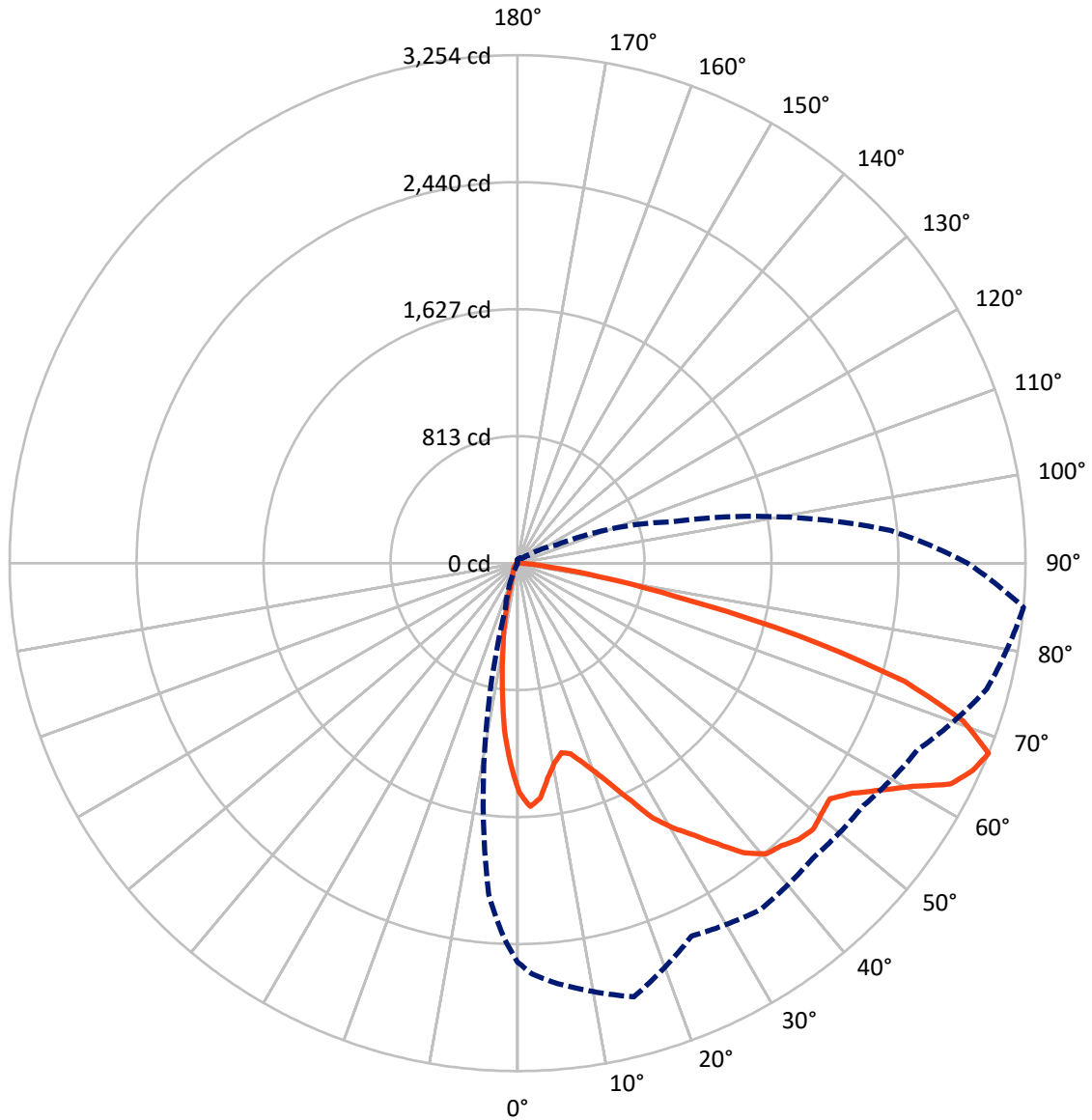
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 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	679.9	0.0	679.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3235.6	0.0	3235.6
	% Fixture	82.6	0.0	82.6
Total	Lumens	3915.5	0.0	3915.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	2.9
10°-20°	219.3	5.6
20°-30°	303.5	7.8
30°-40°	428.9	11.0
40°-50°	584.0	14.9
50°-60°	773.5	19.8
60°-70°	898.0	22.9
70°-80°	508.6	13.0
80°-90°	87.9	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°	3915.5	100.0
0°-180°	3915.5	100.0



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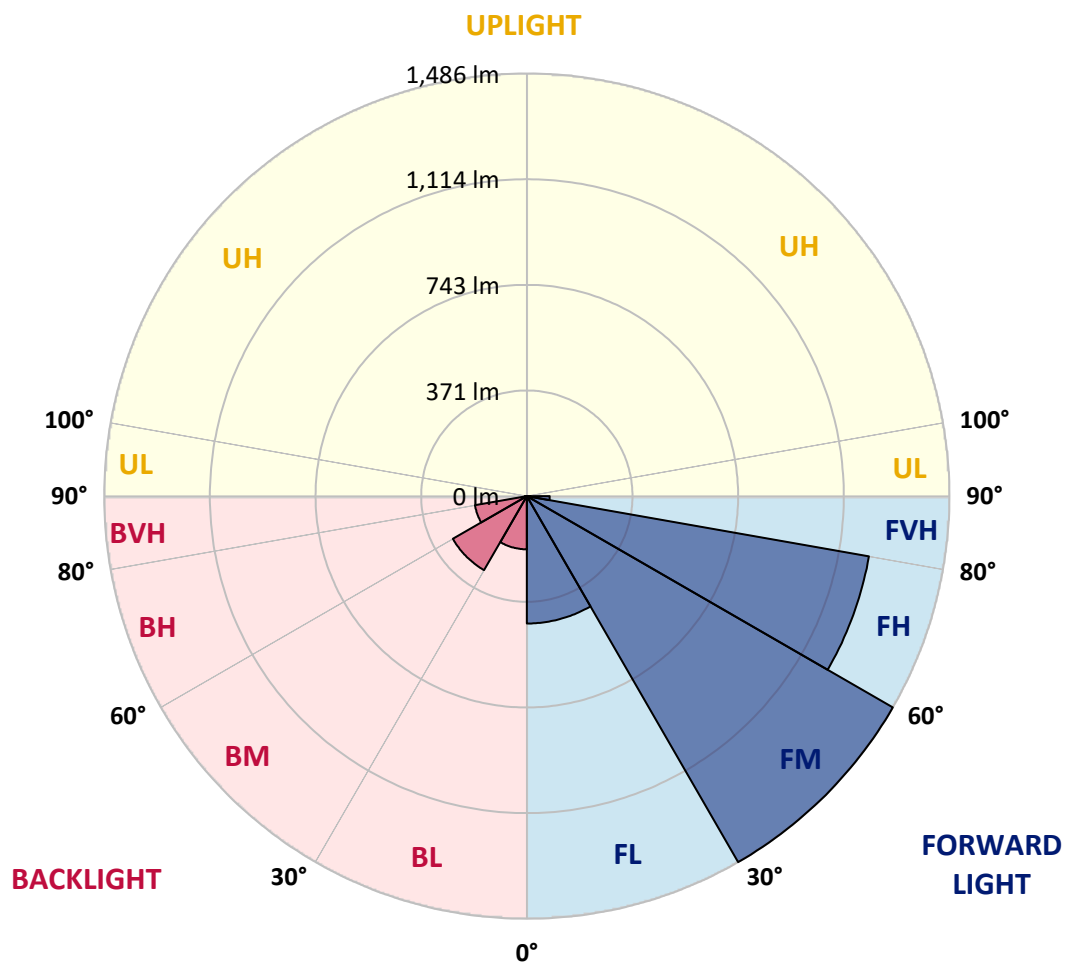
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.8	11.4			
FM (30°-60°)	1486.0	38.0			
FH (60°-80°)	1221.4	31.2			G1/1800
FVH (80°-90°)	80.5	2.1			G1/100
BL (0°-30°)	186.9	4.8	B1/500		
BM (30°-60°)	300.4	7.7	B1/1000		
BH (60°-80°)	185.2	4.7	B1/500		G1/500
BVH (80°-90°)	7.4	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1529.7	1562.1	1563.2	1577.8	1592.4	1592.4	1626.9	1618.6	1588.3	1583.0	1561.1
5°	1541.2	1552.7	1561.1	1635.3	1698.0	1691.8	1710.6	1698.0	1639.5	1564.2	1513.0
7.5°	1441.9	1454.4	1487.9	1614.4	1699.1	1727.3	1762.9	1684.5	1622.8	1486.8	1388.6
10°	1310.1	1334.2	1395.9	1540.2	1644.7	1734.6	1734.6	1671.9	1552.7	1419.9	1299.7
12.5°	1236.9	1285.0	1318.5	1464.9	1600.8	1662.5	1660.4	1626.9	1549.6	1382.3	1246.4
15°	1249.5	1263.1	1334.2	1448.2	1538.1	1534.9	1572.6	1562.1	1507.7	1415.7	1266.2
17.5°	1307.0	1327.9	1389.6	1448.2	1491.0	1478.5	1477.4	1527.6	1530.8	1472.2	1340.5
20°	1401.1	1462.8	1492.1	1509.8	1457.6	1404.2	1398.0	1468.0	1522.4	1544.3	1429.3
22.5°	1551.7	1592.4	1652.0	1561.1	1425.1	1358.2	1345.7	1423.1	1532.8	1630.1	1544.3
25°	1699.1	1730.5	1788.0	1670.9	1461.7	1348.8	1326.9	1393.8	1572.6	1749.3	1683.4
27.5°	1854.9	1882.1	1888.3	1751.4	1481.6	1330.0	1303.9	1393.8	1606.0	1812.0	1849.7
30°	1950.0	1982.5	1988.7	1822.5	1514.0	1345.7	1333.1	1400.1	1629.0	1865.3	1968.9
32.5°	2056.7	2065.1	2059.8	1835.0	1549.6	1391.7	1339.4	1441.9	1655.2	1929.1	2077.6
35°	2184.3	2198.9	2145.6	1892.5	1629.0	1421.0	1402.1	1493.1	1700.1	1958.4	2209.3
37.5°	2281.5	2327.5	2207.3	1914.5	1644.7	1482.7	1485.8	1599.8	1731.5	1994.0	2354.7
40°	2464.5	2387.1	2311.8	1989.8	1704.3	1587.2	1570.5	1709.5	1837.1	2017.0	2449.8
42.5°	2564.8	2524.1	2352.6	1997.1	1796.3	1731.5	1735.7	1834.0	1892.5	2081.8	2476.0
45°	2589.9	2547.1	2408.0	2002.3	1887.3	1901.9	1974.1	1992.9	1974.1	2124.7	2525.1
47.5°	2653.7	2560.7	2401.7	2072.4	2034.7	2091.2	2183.2	2224.0	2084.9	2109.0	2548.1
50°	2641.2	2587.9	2388.1	2101.6	2214.6	2364.1	2425.8	2409.1	2208.3	2076.6	2523.0
52.5°	2588.9	2531.4	2430.0	2181.1	2382.9	2563.8	2649.5	2607.7	2318.1	2149.7	2506.3
55°	2665.2	2621.3	2484.3	2288.8	2509.4	2739.5	2800.1	2768.7	2453.0	2217.7	2601.4
57.5°	2747.8	2738.4	2631.8	2415.3	2659.0	2920.4	2920.4	2881.7	2570.1	2316.0	2742.6
60°	2867.0	2887.9	2740.5	2499.0	2710.2	2909.9	3061.5	3016.5	2688.2	2488.5	2902.6
62.5°	2828.3	2895.3	2880.6	2678.8	2768.7	2961.1	3043.7	3077.2	2834.6	2698.7	3115.9
65°	2703.9	2775.0	2879.6	2797.0	2724.8	2836.7	2878.5	2979.9	2907.8	2896.3	3203.7
67.5°	2555.4	2632.8	2697.6	2876.4	2635.9	2710.2	2673.6	2706.0	2828.3	3112.7	3253.9
70°	2231.3	2305.5	2408.0	2699.7	2400.7	2333.8	2324.4	2308.7	2499.0	3035.4	3026.0
72.5°	1835.0	1869.5	2038.9	2194.7	1776.5	1763.9	1778.6	1760.8	1981.4	2747.8	2592.0
75°	1373.9	1408.4	1504.6	1685.5	1209.8	1137.6	1221.3	1303.9	1513.0	2133.0	1862.2
77.5°	1033.0	1077.0	1137.6	1261.0	887.7	774.8	786.3	864.7	1093.7	1708.5	1043.5
80°	670.2	665.0	782.1	867.8	668.1	689.0	659.8	717.3	792.6	913.9	533.3
82.5°	386.9	392.1	441.2	497.7	465.3	532.2	383.7	641.0	565.7	372.2	198.7
85°	217.5	226.9	271.9	345.0	291.7	195.5	160.0	317.9	355.5	152.7	96.2
87.5°	22.0	18.8	36.6	130.7	79.5	32.4	48.1	76.3	85.7	57.5	28.2
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°	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1529.7	1529.7	1503.6	1459.7	1441.9	1410.5	1367.6	1381.2	1366.6	1313.3	1299.7
5°	1467.0	1416.8	1362.4	1295.5	1256.8	1177.3	1152.2	1107.3	1114.6	1069.6	1071.7
7.5°	1336.3	1296.5	1204.5	1116.7	1040.4	971.4	874.1	837.5	802.0	784.2	805.1
10°	1259.9	1185.7	1060.2	945.2	843.8	782.1	717.3	667.1	621.1	586.6	579.3
12.5°	1204.5	1138.7	987.0	846.9	767.5	717.3	657.7	588.7	543.7	484.1	466.3
15°	1187.8	1107.3	947.3	808.2	730.9	648.3	580.3	512.3	453.8	391.1	369.1
17.5°	1245.3	1152.2	946.3	776.9	668.1	579.3	485.2	408.8	349.2	291.7	278.1
20°	1342.5	1200.3	976.6	758.1	608.5	489.3	382.7	306.4	239.4	201.8	192.4
22.5°	1453.4	1281.9	979.7	707.9	548.9	399.4	279.2	201.8	164.2	146.4	141.2
25°	1589.3	1412.6	1017.4	667.1	478.9	303.2	198.7	154.7	132.8	122.3	120.2
27.5°	1701.2	1503.6	1058.1	624.2	409.9	224.8	155.8	126.5	115.0	104.6	103.5
30°	1817.2	1608.1	1069.6	598.1	350.3	185.1	133.8	111.9	99.3	94.1	93.1
32.5°	1918.7	1722.1	1106.2	555.2	293.8	163.1	121.3	100.4	92.0	83.6	82.6
35°	2049.4	1788.0	1124.0	532.2	272.9	147.4	110.8	92.0	79.5	74.2	72.1
37.5°	2189.5	1851.8	1135.5	514.4	255.1	138.0	104.6	86.8	75.3	68.0	65.9
40°	2320.2	1941.7	1118.8	492.5	241.5	126.5	100.4	80.5	70.1	62.7	59.6
42.5°	2420.6	2029.5	1113.6	471.6	226.9	122.3	95.1	77.4	65.9	57.5	56.5
45°	2477.0	2089.1	1077.0	454.8	215.4	124.4	93.1	73.2	62.7	55.4	51.2
47.5°	2463.4	2135.1	1086.4	449.6	199.7	116.1	92.0	70.1	57.5	51.2	48.1
50°	2538.7	2228.2	1070.7	432.9	188.2	104.6	100.4	70.1	56.5	49.1	46.0
52.5°	2551.3	2312.9	1104.1	402.6	170.4	96.2	99.3	69.0	54.4	47.1	42.9
55°	2655.8	2411.1	1169.0	385.8	155.8	83.6	91.0	66.9	49.1	42.9	40.8
57.5°	2798.0	2615.0	1210.8	370.1	135.9	73.2	76.3	65.9	45.0	39.7	36.6
60°	2935.0	2696.6	1213.9	341.9	117.1	65.9	59.6	65.9	41.8	35.6	32.4
62.5°	3037.5	2696.6	1193.0	317.9	102.5	58.6	52.3	62.7	37.6	31.4	29.3
65°	2982.0	2624.4	1138.7	298.0	93.1	51.2	45.0	48.1	33.5	27.2	25.1
67.5°	2882.7	2399.6	1018.4	273.9	92.0	45.0	38.7	35.6	29.3	24.0	22.0
70°	2723.8	2096.4	848.0	246.8	89.9	40.8	34.5	30.3	26.1	20.9	18.8
72.5°	2194.7	1731.5	696.4	231.1	87.8	35.6	29.3	26.1	22.0	17.8	15.7
75°	1520.3	1106.2	536.4	197.6	85.7	32.4	27.2	23.0	18.8	14.6	13.6
77.5°	911.8	739.2	346.1	148.5	56.5	26.1	23.0	17.8	15.7	12.5	11.5
80°	426.6	349.2	140.1	57.5	27.2	18.8	15.7	13.6	12.5	10.5	9.4
82.5°	167.3	147.4	68.0	33.5	22.0	14.6	12.5	11.5	10.5	8.4	7.3
85°	89.9	79.5	32.4	23.0	15.7	10.5	10.5	9.4	8.4	7.3	6.3
87.5°	19.9	14.6	13.6	13.6	11.5	8.4	8.4	7.3	6.3	5.2	4.2
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°	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1292.4	1308.0	1282.9	1298.6	1276.7	1293.4	1295.5	1279.8	1284.0	1304.9	1314.3
5°	1101.0	1090.6	1067.6	1060.2	1061.3	1047.7	1052.9	1060.2	1071.7	1078.0	1096.8
7.5°	793.6	817.7	816.6	834.4	835.4	833.3	818.7	787.3	797.8	789.4	799.9
10°	567.8	578.2	598.1	609.6	630.5	619.0	585.5	573.0	566.7	565.7	576.1
12.5°	453.8	428.7	426.6	430.8	441.2	427.6	410.9	396.3	403.6	418.2	429.7
15°	351.3	330.4	303.2	299.0	301.1	294.9	277.1	258.3	263.5	278.1	286.5
17.5°	269.8	245.7	226.9	214.3	210.2	188.2	162.1	146.4	142.2	141.2	148.5
20°	181.9	177.8	174.6	158.9	158.9	127.6	105.6	94.1	94.1	96.2	97.2
22.5°	135.9	130.7	131.7	128.6	120.2	95.1	83.6	80.5	80.5	82.6	82.6
25°	118.2	110.8	108.7	107.7	99.3	81.6	73.2	70.1	70.1	72.1	72.1
27.5°	100.4	98.3	95.1	91.0	83.6	70.1	64.8	61.7	62.7	63.8	62.7
30°	92.0	86.8	82.6	82.6	74.2	62.7	58.6	56.5	54.4	56.5	57.5
32.5°	81.6	78.4	76.3	73.2	63.8	55.4	51.2	49.1	48.1	48.1	49.1
35°	70.1	70.1	68.0	63.8	55.4	50.2	45.0	42.9	41.8	42.9	42.9
37.5°	62.7	59.6	60.6	56.5	49.1	43.9	38.7	36.6	36.6	35.6	36.6
40°	58.6	53.3	50.2	48.1	43.9	37.6	33.5	31.4	30.3	30.3	30.3
42.5°	52.3	48.1	41.8	40.8	39.7	32.4	27.2	26.1	25.1	24.0	24.0
45°	49.1	42.9	37.6	32.4	32.4	27.2	23.0	20.9	19.9	18.8	19.9
47.5°	45.0	38.7	32.4	27.2	26.1	22.0	17.8	15.7	14.6	14.6	14.6
50°	42.9	34.5	28.2	23.0	19.9	17.8	13.6	11.5	10.5	10.5	10.5
52.5°	39.7	32.4	25.1	19.9	15.7	13.6	10.5	8.4	7.3	7.3	7.3
55°	35.6	29.3	22.0	16.7	13.6	10.5	7.3	5.2	4.2	4.2	4.2
57.5°	33.5	26.1	18.8	14.6	10.5	7.3	4.2	3.1	3.1	2.1	3.1
60°	30.3	23.0	15.7	11.5	8.4	5.2	3.1	1.0	1.0	1.0	1.0
62.5°	26.1	19.9	13.6	9.4	6.3	3.1	1.0	0.0	0.0	0.0	0.0
65°	22.0	15.7	10.5	7.3	4.2	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	18.8	13.6	8.4	5.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	16.7	11.5	6.3	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.6	9.4	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.5	7.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.3	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1327.9	1321.6	1353.0	1404.2	1430.4	1481.6	1494.2	1526.6	1518.2	1529.7
5°	1098.9	1111.5	1157.5	1232.8	1259.9	1334.2	1404.2	1474.3	1519.3	1541.2
7.5°	815.6	857.4	913.9	982.9	1052.9	1150.2	1269.4	1350.9	1394.8	1441.9
10°	607.5	652.5	717.3	785.2	899.2	1008.0	1127.2	1228.6	1266.2	1310.1
12.5°	477.8	547.9	623.2	696.4	764.3	867.8	1015.3	1162.7	1203.5	1236.9
15°	332.5	418.2	525.9	621.1	716.2	806.2	958.8	1137.6	1193.0	1249.5
17.5°	184.0	252.0	375.4	509.2	649.3	787.3	977.6	1183.6	1267.3	1307.0
20°	106.7	133.8	221.7	380.6	565.7	746.6	987.0	1270.4	1381.2	1401.1
22.5°	87.8	97.2	125.5	238.4	463.2	720.4	1035.1	1391.7	1504.6	1551.7
25°	75.3	82.6	97.2	143.2	350.3	665.0	1065.5	1543.3	1647.9	1699.1
27.5°	66.9	74.2	85.7	105.6	238.4	588.7	1115.7	1680.3	1784.8	1854.9
30°	58.6	64.8	76.3	89.9	165.2	502.9	1158.5	1780.7	1928.1	1950.0
32.5°	52.3	57.5	65.9	77.4	122.3	381.6	1193.0	1884.2	2008.6	2056.7
35°	45.0	51.2	56.5	65.9	93.1	287.5	1172.1	1964.7	2126.7	2184.3
37.5°	39.7	43.9	49.1	55.4	78.4	224.8	1129.2	2060.9	2228.2	2281.5
40°	33.5	36.6	42.9	49.1	71.1	173.6	1080.1	2176.9	2370.4	2464.5
42.5°	28.2	31.4	35.6	46.0	58.6	128.6	980.8	2266.9	2485.4	2564.8
45°	22.0	26.1	32.4	46.0	47.1	95.1	878.3	2333.8	2550.2	2589.9
47.5°	16.7	20.9	31.4	39.7	37.6	65.9	757.0	2410.1	2617.1	2653.7
50°	12.5	16.7	35.6	34.5	31.4	50.2	680.7	2463.4	2621.3	2641.2
52.5°	8.4	12.5	29.3	26.1	26.1	43.9	659.8	2461.3	2631.8	2588.9
55°	6.3	9.4	16.7	18.8	23.0	38.7	641.0	2539.8	2634.9	2665.2
57.5°	4.2	7.3	11.5	14.6	19.9	33.5	602.3	2633.9	2732.1	2747.8
60°	2.1	5.2	8.4	11.5	16.7	29.3	547.9	2702.9	2850.3	2867.0
62.5°	1.0	3.1	6.3	9.4	13.6	23.0	491.4	2593.1	2799.1	2828.3
65°	0.0	2.1	4.2	6.3	8.4	16.7	399.4	2341.1	2596.2	2703.9
67.5°	0.0	0.0	2.1	4.2	5.2	12.5	301.1	2129.9	2409.1	2555.4
70°	0.0	0.0	1.0	1.0	3.1	9.4	192.4	1763.9	2150.8	2231.3
72.5°	0.0	0.0	0.0	0.0	1.0	6.3	111.9	1310.1	1685.5	1835.0
75°	0.0	0.0	0.0	0.0	0.0	5.2	56.5	842.8	1173.2	1373.9
77.5°	0.0	0.0	0.0	0.0	0.0	4.2	30.3	543.7	864.7	1033.0
80°	0.0	0.0	0.0	0.0	0.0	1.0	17.8	315.8	553.1	670.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	154.7	330.4	386.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	82.6	165.2	217.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	11.5	22.0
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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