

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: P677319

Luminaire Tested: **CCW-SA-1E-827-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677319
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

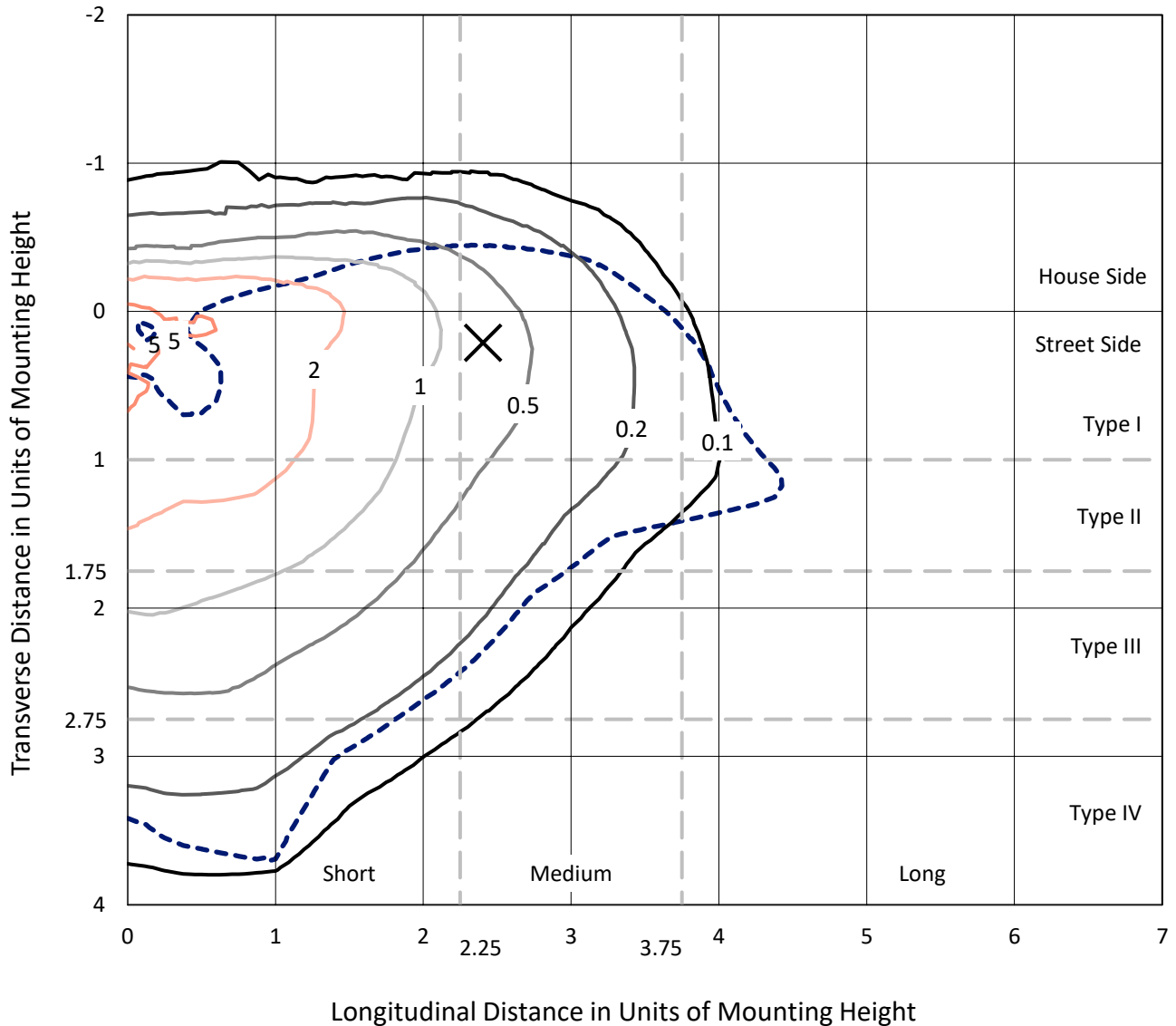
Lumens per Lamp: N/A
Luminaire Lumens: 3646.5 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

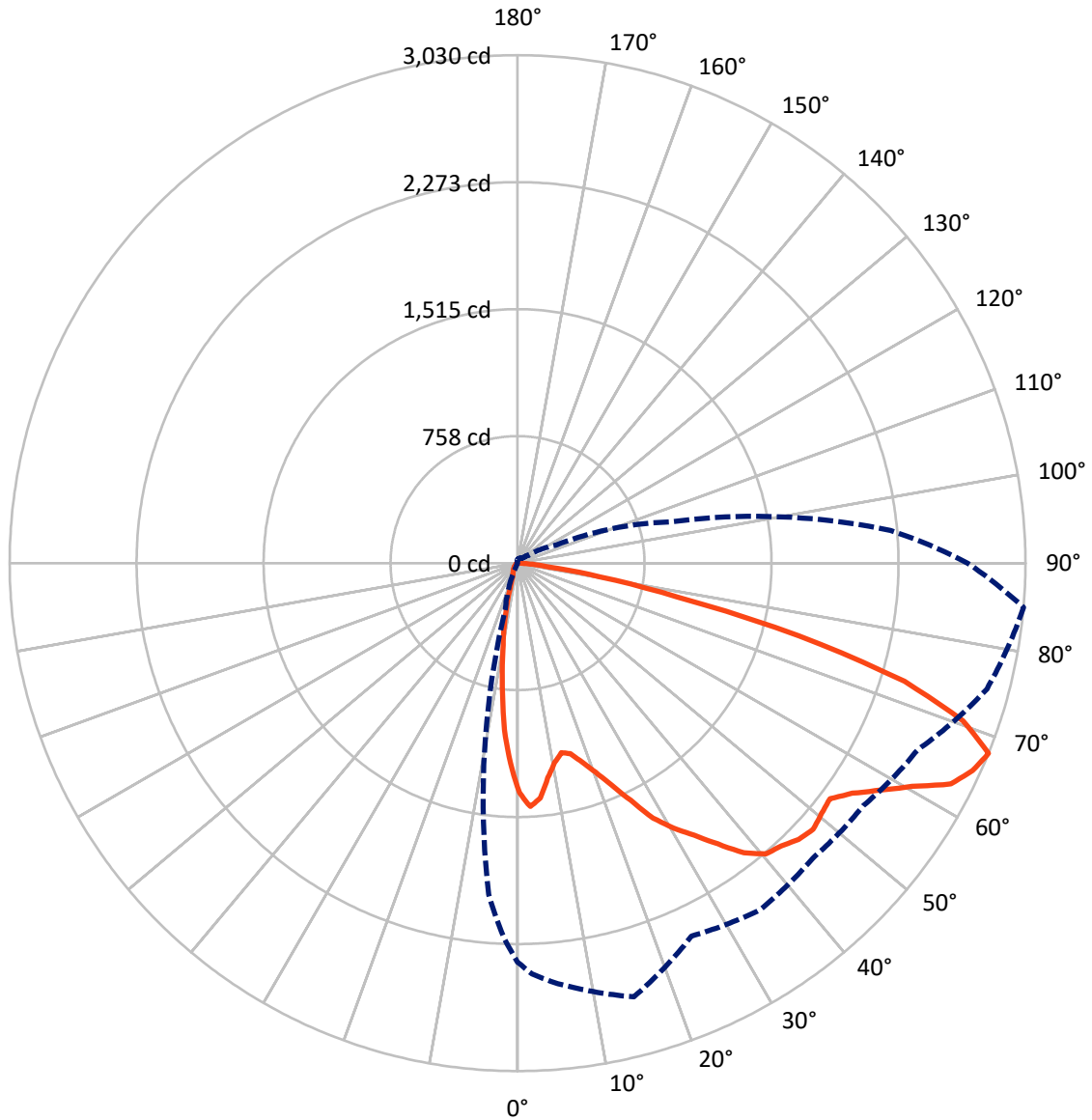
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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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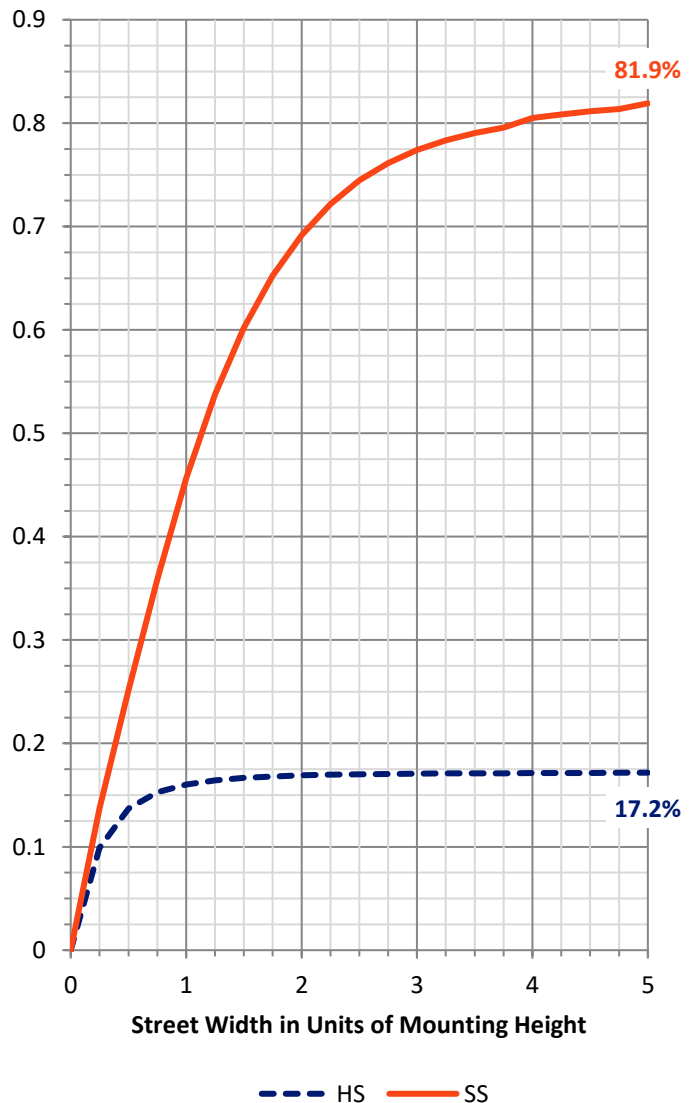
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.1	0.0	633.1
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3013.3	0.0	3013.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	3646.5	0.0	3646.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	2.9
10°-20°	204.2	5.6
20°-30°	282.6	7.8
30°-40°	399.5	11.0
40°-50°	543.9	14.9
50°-60°	720.3	19.8
60°-70°	836.3	22.9
70°-80°	473.6	13.0
80°-90°	81.8	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°	3646.5	100.0
0°-180°	3646.5	100.0



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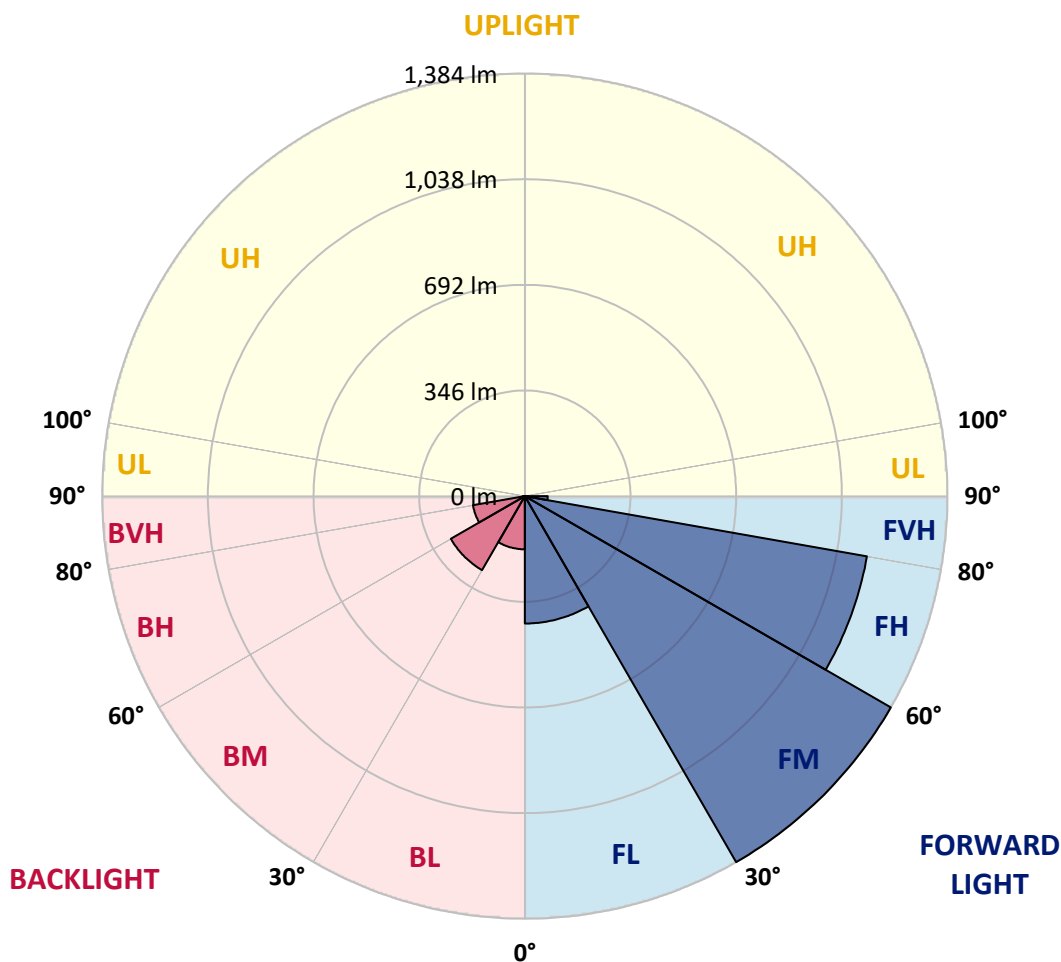
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.0	11.4			
FM (30°-60°)	1383.9	38.0			
FH (60°-80°)	1137.5	31.2			G1/1800
FVH (80°-90°)	74.9	2.1			G1/100
BL (0°-30°)	174.1	4.8	B1/500		
BM (30°-60°)	279.8	7.7	B1/1000		
BH (60°-80°)	172.4	4.7	B1/500		G1/500
BVH (80°-90°)	6.9	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°	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1
2.5°	1424.6	1454.8	1455.8	1469.4	1483.0	1483.0	1515.2	1507.4	1479.1	1474.3	1453.8
5°	1435.3	1446.0	1453.8	1523.0	1581.4	1575.5	1593.1	1581.4	1526.9	1456.7	1409.0
7.5°	1342.8	1354.5	1385.7	1503.5	1582.4	1608.7	1641.8	1568.7	1511.3	1384.7	1293.2
10°	1220.1	1242.5	1300.0	1434.3	1531.7	1615.5	1615.5	1557.0	1446.0	1322.4	1210.4
12.5°	1152.0	1196.8	1227.9	1364.2	1490.8	1548.3	1546.3	1515.2	1443.1	1287.3	1160.7
15°	1163.6	1176.3	1242.5	1348.7	1432.4	1429.5	1464.5	1454.8	1404.2	1318.5	1179.2
17.5°	1217.2	1236.7	1294.1	1348.7	1388.6	1376.9	1375.9	1422.7	1425.6	1371.1	1248.4
20°	1304.8	1362.3	1389.6	1406.1	1357.4	1307.8	1301.9	1367.2	1417.8	1438.2	1331.1
22.5°	1445.1	1483.0	1538.5	1453.8	1327.2	1264.9	1253.2	1325.3	1427.5	1518.1	1438.2
25°	1582.4	1611.6	1665.1	1556.1	1361.3	1256.2	1235.7	1298.0	1464.5	1629.1	1567.8
27.5°	1727.5	1752.8	1758.6	1631.0	1379.8	1238.6	1214.3	1298.0	1495.7	1687.5	1722.6
30°	1816.1	1846.3	1852.1	1697.3	1410.0	1253.2	1241.5	1303.9	1517.1	1737.2	1833.6
32.5°	1915.4	1923.2	1918.3	1709.0	1443.1	1296.1	1247.4	1342.8	1541.5	1796.6	1934.9
35°	2034.2	2047.8	1998.2	1762.5	1517.1	1323.3	1305.8	1390.5	1583.3	1823.9	2057.6
37.5°	2124.7	2167.6	2055.6	1783.0	1531.7	1380.8	1383.7	1489.9	1612.5	1857.0	2192.9
40°	2295.2	2223.1	2153.0	1853.1	1587.2	1478.2	1462.6	1592.1	1710.9	1878.4	2281.5
42.5°	2388.6	2350.7	2191.0	1859.9	1672.9	1612.5	1616.4	1708.0	1762.5	1938.8	2305.9
45°	2412.0	2372.1	2242.6	1864.8	1757.6	1771.3	1838.5	1856.0	1838.5	1978.7	2351.6
47.5°	2471.4	2384.7	2236.7	1930.0	1894.9	1947.5	2033.2	2071.2	1941.7	1964.1	2373.1
50°	2459.7	2410.1	2224.1	1957.3	2062.4	2201.7	2259.1	2243.5	2056.6	1933.9	2349.7
52.5°	2411.0	2357.5	2263.0	2031.3	2219.2	2387.7	2467.5	2428.6	2158.8	2002.1	2334.1
55°	2482.1	2441.2	2313.7	2131.6	2337.0	2551.3	2607.7	2578.5	2284.4	2065.3	2422.7
57.5°	2559.0	2550.3	2451.0	2249.4	2476.3	2719.7	2719.7	2683.7	2393.5	2156.9	2554.2
60°	2670.1	2689.5	2552.2	2327.3	2524.0	2710.0	2851.2	2809.3	2503.5	2317.6	2703.2
62.5°	2634.0	2696.3	2682.7	2494.8	2578.5	2757.7	2834.6	2865.8	2639.9	2513.3	2901.8
65°	2518.1	2584.4	2681.7	2604.8	2537.6	2641.8	2680.8	2775.2	2708.0	2697.3	2983.6
67.5°	2379.9	2451.9	2512.3	2678.8	2454.9	2524.0	2489.9	2520.1	2634.0	2898.9	3030.3
70°	2078.0	2147.1	2242.6	2514.3	2235.8	2173.4	2164.7	2150.1	2327.3	2826.8	2818.1
72.5°	1709.0	1741.1	1898.8	2043.9	1654.4	1642.7	1656.4	1639.8	1845.3	2559.0	2414.0
75°	1279.5	1311.7	1401.2	1569.7	1126.6	1059.5	1137.4	1214.3	1409.0	1986.5	1734.3
77.5°	962.1	1003.0	1059.5	1174.4	826.7	721.6	732.3	805.3	1018.6	1591.1	971.8
80°	624.2	619.3	728.4	808.2	622.2	641.7	614.4	668.0	738.1	851.1	496.6
82.5°	360.3	365.2	410.9	463.5	433.3	495.6	357.4	596.9	526.8	346.7	185.0
85°	202.5	211.3	253.2	321.3	271.7	182.1	149.0	296.0	331.1	142.2	89.6
87.5°	20.4	17.5	34.1	121.7	74.0	30.2	44.8	71.1	79.8	53.6	26.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1
2.5°	1424.6	1424.6	1400.3	1359.4	1342.8	1313.6	1273.7	1286.3	1272.7	1223.0	1210.4
5°	1366.2	1319.4	1268.8	1206.5	1170.5	1096.5	1073.1	1031.2	1038.0	996.2	998.1
7.5°	1244.5	1207.5	1121.8	1040.0	968.9	904.6	814.1	780.0	746.9	730.3	749.8
10°	1173.4	1104.2	987.4	880.3	785.8	728.4	668.0	621.3	578.4	546.3	539.5
12.5°	1121.8	1060.4	919.2	788.7	714.7	668.0	612.5	548.2	506.4	450.9	434.3
15°	1106.2	1031.2	882.2	752.7	680.7	603.7	540.4	477.1	422.6	364.2	343.7
17.5°	1159.7	1073.1	881.3	723.5	622.2	539.5	451.8	380.7	325.2	271.7	259.0
20°	1250.3	1117.9	909.5	706.0	566.7	455.7	356.4	285.3	223.0	187.9	179.2
22.5°	1353.5	1193.8	912.4	659.2	511.2	372.0	260.0	187.9	152.9	136.3	131.5
25°	1480.1	1315.6	947.5	621.3	446.0	282.4	185.0	144.1	123.7	113.9	112.0
27.5°	1584.3	1400.3	985.4	581.3	381.7	209.4	145.1	117.8	107.1	97.4	96.4
30°	1692.4	1497.6	996.2	557.0	326.2	172.4	124.6	104.2	92.5	87.6	86.7
32.5°	1786.9	1603.8	1030.2	517.1	273.6	151.9	113.0	93.5	85.7	77.9	76.9
35°	1908.6	1665.1	1046.8	495.6	254.2	137.3	103.2	85.7	74.0	69.1	67.2
37.5°	2039.1	1724.5	1057.5	479.1	237.6	128.5	97.4	80.8	70.1	63.3	61.3
40°	2160.8	1808.3	1041.9	458.6	224.9	117.8	93.5	75.0	65.2	58.4	55.5
42.5°	2254.3	1890.1	1037.1	439.2	211.3	113.9	88.6	72.1	61.3	53.6	52.6
45°	2306.8	1945.6	1003.0	423.6	200.6	115.9	86.7	68.2	58.4	51.6	47.7
47.5°	2294.2	1988.4	1011.7	418.7	186.0	108.1	85.7	65.2	53.6	47.7	44.8
50°	2364.3	2075.1	997.1	403.1	175.3	97.4	93.5	65.2	52.6	45.8	42.8
52.5°	2376.0	2154.0	1028.3	374.9	158.7	89.6	92.5	64.3	50.6	43.8	39.9
55°	2473.4	2245.5	1088.7	359.3	145.1	77.9	84.7	62.3	45.8	39.9	38.0
57.5°	2605.8	2435.4	1127.6	344.7	126.6	68.2	71.1	61.3	41.9	37.0	34.1
60°	2733.3	2511.3	1130.5	318.4	109.1	61.3	55.5	61.3	39.0	33.1	30.2
62.5°	2828.8	2511.3	1111.1	296.0	95.4	54.5	48.7	58.4	35.1	29.2	27.3
65°	2777.2	2444.1	1060.4	277.5	86.7	47.7	41.9	44.8	31.2	25.3	23.4
67.5°	2684.7	2234.8	948.4	255.1	85.7	41.9	36.0	33.1	27.3	22.4	20.4
70°	2536.6	1952.4	789.7	229.8	83.7	38.0	32.1	28.2	24.3	19.5	17.5
72.5°	2043.9	1612.5	648.5	215.2	81.8	33.1	27.3	24.3	20.4	16.6	14.6
75°	1415.8	1030.2	499.5	184.0	79.8	30.2	25.3	21.4	17.5	13.6	12.7
77.5°	849.1	688.4	322.3	138.3	52.6	24.3	21.4	16.6	14.6	11.7	10.7
80°	397.3	325.2	130.5	53.6	25.3	17.5	14.6	12.7	11.7	9.7	8.8
82.5°	155.8	137.3	63.3	31.2	20.4	13.6	11.7	10.7	9.7	7.8	6.8
85°	83.7	74.0	30.2	21.4	14.6	9.7	9.7	8.8	7.8	6.8	5.8
87.5°	18.5	13.6	12.7	12.7	10.7	7.8	7.8	6.8	5.8	4.9	3.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1
2.5°	1203.6	1218.2	1194.8	1209.4	1189.0	1204.5	1206.5	1191.9	1195.8	1215.3	1224.0
5°	1025.4	1015.6	994.2	987.4	988.4	975.7	980.6	987.4	998.1	1003.9	1021.5
7.5°	739.1	761.5	760.5	777.1	778.0	776.1	762.5	733.2	743.0	735.2	744.9
10°	528.8	538.5	557.0	567.7	587.2	576.5	545.3	533.6	527.8	526.8	536.5
12.5°	422.6	399.2	397.3	401.2	410.9	398.3	382.7	369.1	375.9	389.5	400.2
15°	327.2	307.7	282.4	278.5	280.4	274.6	258.0	240.5	245.4	259.0	266.8
17.5°	251.2	228.8	211.3	199.6	195.7	175.3	150.9	136.3	132.4	131.5	138.3
20°	169.4	165.5	162.6	148.0	148.0	118.8	98.3	87.6	87.6	89.6	90.6
22.5°	126.6	121.7	122.7	119.8	112.0	88.6	77.9	75.0	75.0	76.9	76.9
25°	110.0	103.2	101.3	100.3	92.5	76.0	68.2	65.2	65.2	67.2	67.2
27.5°	93.5	91.5	88.6	84.7	77.9	65.2	60.4	57.5	58.4	59.4	58.4
30°	85.7	80.8	76.9	76.9	69.1	58.4	54.5	52.6	50.6	52.6	53.6
32.5°	76.0	73.0	71.1	68.2	59.4	51.6	47.7	45.8	44.8	44.8	45.8
35°	65.2	65.2	63.3	59.4	51.6	46.7	41.9	39.9	39.0	39.9	39.9
37.5°	58.4	55.5	56.5	52.6	45.8	40.9	36.0	34.1	34.1	33.1	34.1
40°	54.5	49.7	46.7	44.8	40.9	35.1	31.2	29.2	28.2	28.2	28.2
42.5°	48.7	44.8	39.0	38.0	37.0	30.2	25.3	24.3	23.4	22.4	22.4
45°	45.8	39.9	35.1	30.2	30.2	25.3	21.4	19.5	18.5	17.5	18.5
47.5°	41.9	36.0	30.2	25.3	24.3	20.4	16.6	14.6	13.6	13.6	13.6
50°	39.9	32.1	26.3	21.4	18.5	16.6	12.7	10.7	9.7	9.7	9.7
52.5°	37.0	30.2	23.4	18.5	14.6	12.7	9.7	7.8	6.8	6.8	6.8
55°	33.1	27.3	20.4	15.6	12.7	9.7	6.8	4.9	3.9	3.9	3.9
57.5°	31.2	24.3	17.5	13.6	9.7	6.8	3.9	2.9	2.9	1.9	2.9
60°	28.2	21.4	14.6	10.7	7.8	4.9	2.9	1.0	1.0	1.0	1.0
62.5°	24.3	18.5	12.7	8.8	5.8	2.9	1.0	0.0	0.0	0.0	0.0
65°	20.4	14.6	9.7	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.5	12.7	7.8	4.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.6	10.7	5.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.7	8.8	4.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.7	6.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	4.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	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°	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1	1371.1
2.5°	1236.7	1230.8	1260.0	1307.8	1332.1	1379.8	1391.5	1421.7	1413.9	1424.6
5°	1023.4	1035.1	1078.0	1148.1	1173.4	1242.5	1307.8	1373.0	1414.9	1435.3
7.5°	759.5	798.5	851.1	915.3	980.6	1071.1	1182.1	1258.1	1299.0	1342.8
10°	565.8	607.6	668.0	731.3	837.4	938.7	1049.7	1144.2	1179.2	1220.1
12.5°	445.0	510.3	580.4	648.5	711.8	808.2	945.5	1082.8	1120.8	1152.0
15°	309.7	389.5	489.8	578.4	667.0	750.8	892.9	1059.5	1111.1	1163.6
17.5°	171.4	234.7	349.6	474.2	604.7	733.2	910.5	1102.3	1180.2	1217.2
20°	99.3	124.6	206.4	354.4	526.8	695.3	919.2	1183.1	1286.3	1304.8
22.5°	81.8	90.6	116.9	222.0	431.4	670.9	964.0	1296.1	1401.2	1445.1
25°	70.1	76.9	90.6	133.4	326.2	619.3	992.3	1437.3	1534.6	1582.4
27.5°	62.3	69.1	79.8	98.3	222.0	548.2	1039.0	1564.8	1662.2	1727.5
30°	54.5	60.4	71.1	83.7	153.9	468.4	1078.9	1658.3	1795.6	1816.1
32.5°	48.7	53.6	61.3	72.1	113.9	355.4	1111.1	1754.7	1870.6	1915.4
35°	41.9	47.7	52.6	61.3	86.7	267.8	1091.6	1829.7	1980.6	2034.2
37.5°	37.0	40.9	45.8	51.6	73.0	209.4	1051.7	1919.3	2075.1	2124.7
40°	31.2	34.1	39.9	45.8	66.2	161.6	1005.9	2027.4	2207.5	2295.2
42.5°	26.3	29.2	33.1	42.8	54.5	119.8	913.4	2111.1	2314.6	2388.6
45°	20.4	24.3	30.2	42.8	43.8	88.6	818.0	2173.4	2375.0	2412.0
47.5°	15.6	19.5	29.2	37.0	35.1	61.3	705.0	2244.5	2437.3	2471.4
50°	11.7	15.6	33.1	32.1	29.2	46.7	633.9	2294.2	2441.2	2459.7
52.5°	7.8	11.7	27.3	24.3	24.3	40.9	614.4	2292.2	2451.0	2411.0
55°	5.8	8.8	15.6	17.5	21.4	36.0	596.9	2365.3	2453.9	2482.1
57.5°	3.9	6.8	10.7	13.6	18.5	31.2	560.9	2452.9	2544.4	2559.0
60°	1.9	4.9	7.8	10.7	15.6	27.3	510.3	2517.2	2654.5	2670.1
62.5°	1.0	2.9	5.8	8.8	12.7	21.4	457.7	2414.9	2606.8	2634.0
65°	0.0	1.9	3.9	5.8	7.8	15.6	372.0	2180.3	2417.8	2518.1
67.5°	0.0	0.0	1.9	3.9	4.9	11.7	280.4	1983.6	2243.5	2379.9
70°	0.0	0.0	1.0	1.0	2.9	8.8	179.2	1642.7	2003.0	2078.0
72.5°	0.0	0.0	0.0	0.0	1.0	5.8	104.2	1220.1	1569.7	1709.0
75°	0.0	0.0	0.0	0.0	0.0	4.9	52.6	784.9	1092.6	1279.5
77.5°	0.0	0.0	0.0	0.0	0.0	3.9	28.2	506.4	805.3	962.1
80°	0.0	0.0	0.0	0.0	0.0	1.0	16.6	294.1	515.1	624.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	144.1	307.7	360.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	76.9	153.9	202.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	10.7	20.4
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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