

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: P677261

Luminaire Tested: **CCW-SA-1B-730-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677261
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-730-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

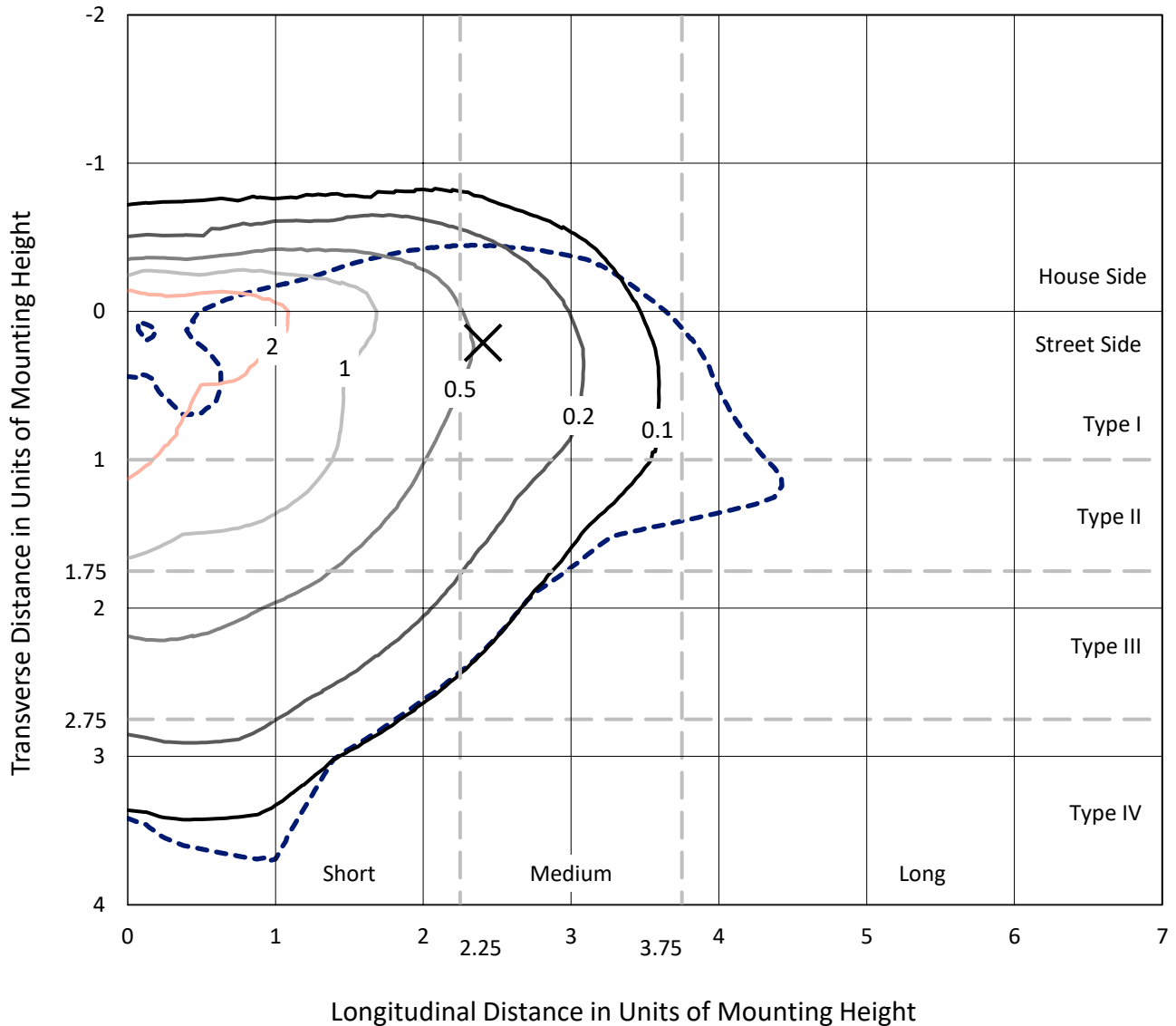
Lumens per Lamp: N/A
Luminaire Lumens: 2281.7 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

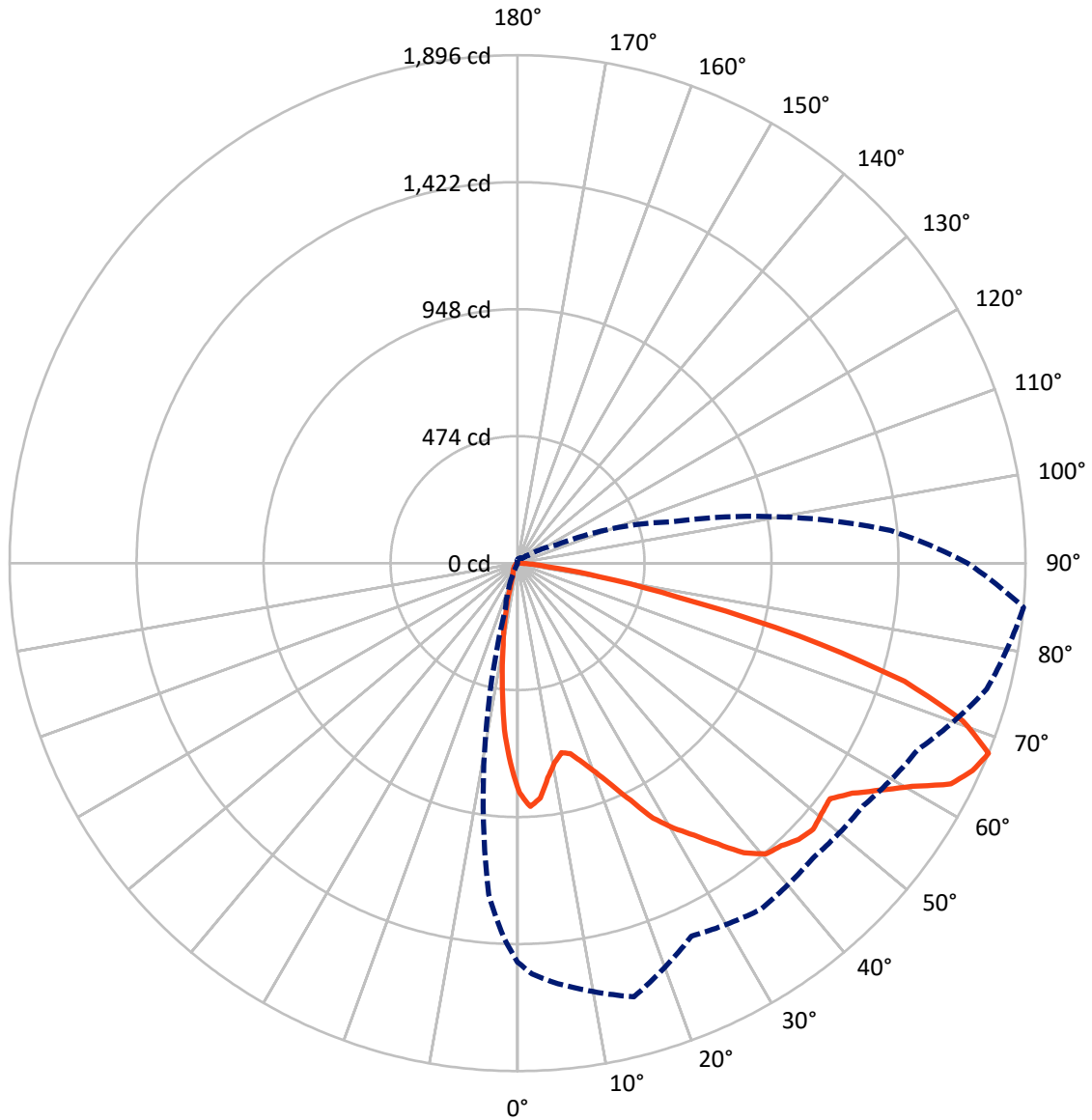
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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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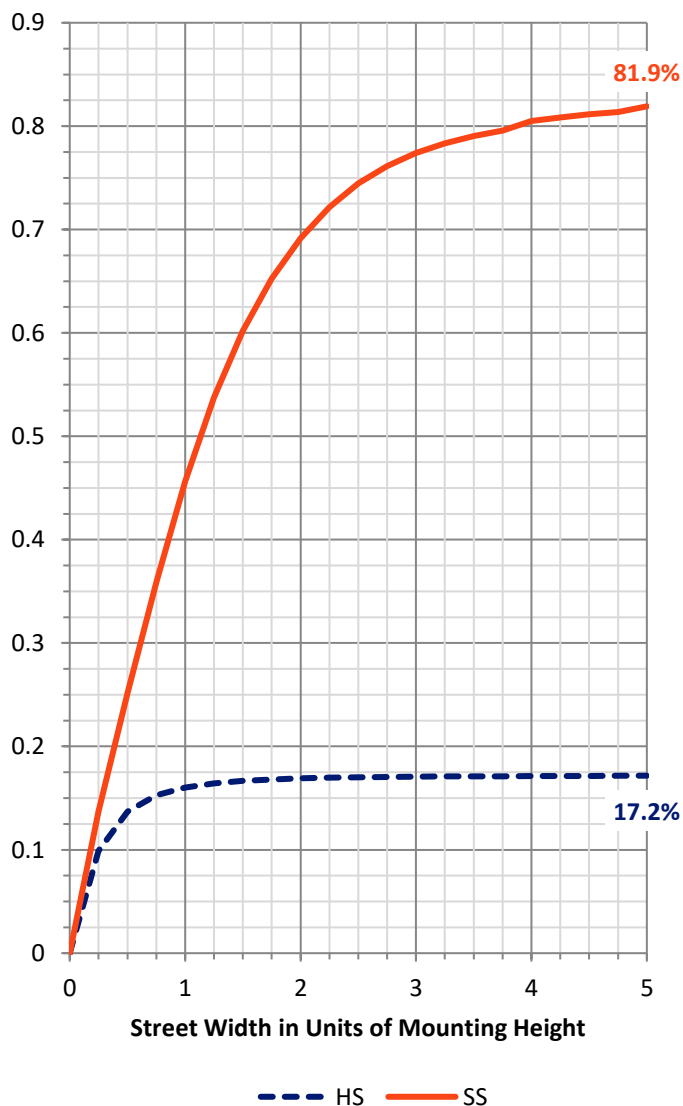
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	396.2	0.0	396.2
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1885.5	0.0	1885.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	2281.7	0.0	2281.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	2.9
10°-20°	127.8	5.6
20°-30°	176.9	7.8
30°-40°	249.9	11.0
40°-50°	340.3	14.9
50°-60°	450.7	19.8
60°-70°	523.3	22.9
70°-80°	296.4	13.0
80°-90°	51.2	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°	2281.7	100.0
0°-180°	2281.7	100.0

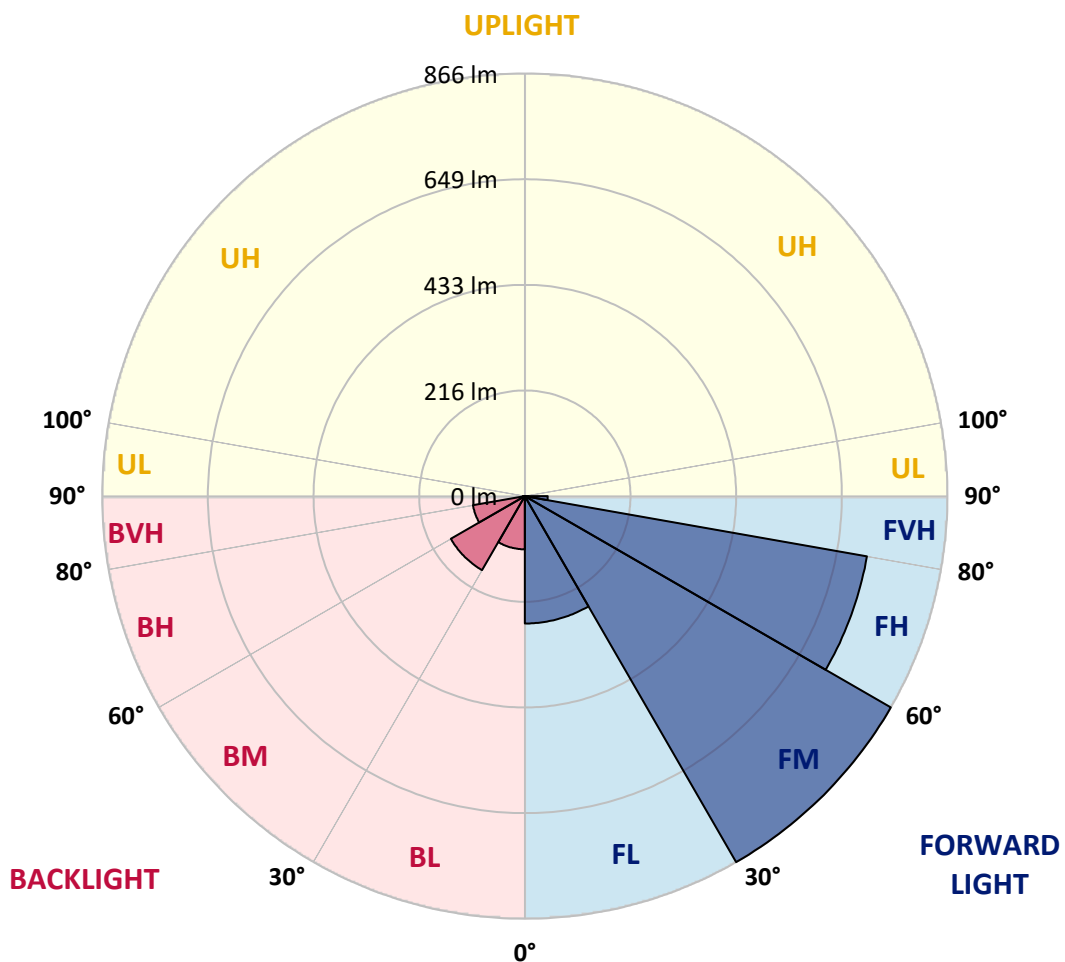


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.9	11.4			
FM (30°-60°)	865.9	38.0			
FH (60°-80°)	711.8	31.2			G1/1800
FVH (80°-90°)	46.9	2.1			G1/100
BL (0°-30°)	108.9	4.8	B0/110		
BM (30°-60°)	175.1	7.7	B0/220		
BH (60°-80°)	107.9	4.7	B0/110		G0/110
BVH (80°-90°)	4.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9
2.5°	891.4	910.3	910.9	919.4	928.0	928.0	948.1	943.2	925.5	922.5	909.7
5°	898.1	904.8	909.7	953.0	989.5	985.9	996.8	989.5	955.4	911.5	881.7
7.5°	840.2	847.6	867.0	940.8	990.1	1006.6	1027.3	981.6	945.6	866.4	809.2
10°	763.5	777.5	813.4	897.5	958.4	1010.8	1010.8	974.3	904.8	827.4	757.4
12.5°	720.8	748.8	768.3	853.6	932.9	968.8	967.6	948.1	903.0	805.5	726.3
15°	728.1	736.0	777.5	843.9	896.3	894.5	916.4	910.3	878.6	825.0	737.9
17.5°	761.6	773.8	809.8	843.9	868.9	861.6	861.0	890.2	892.0	857.9	781.1
20°	816.5	852.4	869.5	879.8	849.4	818.3	814.6	855.5	887.2	900.0	832.9
22.5°	904.2	928.0	962.7	909.7	830.5	791.5	784.2	829.3	893.2	949.9	900.0
25°	990.1	1008.4	1041.9	973.7	851.8	786.0	773.2	812.2	916.4	1019.4	981.0
27.5°	1080.9	1096.8	1100.4	1020.6	863.4	775.0	759.8	812.2	935.9	1055.9	1077.9
30°	1136.4	1155.3	1158.9	1062.0	882.3	784.2	776.9	815.9	949.3	1087.0	1147.3
32.5°	1198.5	1203.4	1200.3	1069.3	903.0	811.0	780.5	840.2	964.5	1124.2	1210.7
35°	1272.8	1281.4	1250.3	1102.9	949.3	828.1	817.1	870.1	990.7	1141.2	1287.5
37.5°	1329.5	1356.3	1286.3	1115.6	958.4	864.0	865.8	932.2	1009.0	1162.0	1372.2
40°	1436.1	1391.1	1347.2	1159.5	993.2	924.9	915.2	996.2	1070.6	1175.4	1427.6
42.5°	1494.6	1470.9	1370.9	1163.8	1046.8	1009.0	1011.5	1068.7	1102.9	1213.1	1442.8
45°	1509.3	1484.3	1403.2	1166.8	1099.8	1108.3	1150.4	1161.3	1150.4	1238.1	1471.5
47.5°	1546.4	1492.2	1399.6	1207.7	1185.7	1218.6	1272.2	1296.0	1215.0	1229.0	1484.9
50°	1539.1	1508.0	1391.7	1224.7	1290.5	1377.7	1413.6	1403.9	1286.9	1210.1	1470.3
52.5°	1508.7	1475.1	1416.0	1271.0	1388.6	1494.0	1544.0	1519.6	1350.8	1252.7	1460.5
55°	1553.1	1527.5	1447.7	1333.8	1462.3	1596.4	1631.7	1613.5	1429.4	1292.3	1516.0
57.5°	1601.3	1595.8	1533.6	1407.5	1549.5	1701.8	1701.8	1679.3	1497.7	1349.6	1598.2
60°	1670.7	1682.9	1597.0	1456.3	1579.3	1695.7	1784.1	1757.9	1566.5	1450.2	1691.4
62.5°	1648.2	1687.2	1678.6	1561.1	1613.5	1725.6	1773.7	1793.2	1651.8	1572.6	1815.7
65°	1575.7	1617.1	1678.0	1629.9	1587.9	1653.1	1677.4	1736.5	1694.5	1687.8	1866.9
67.5°	1489.2	1534.2	1572.0	1676.2	1536.1	1579.3	1558.0	1576.9	1648.2	1813.9	1896.2
70°	1300.3	1343.5	1403.2	1573.2	1399.0	1360.0	1354.5	1345.4	1456.3	1768.8	1763.3
72.5°	1069.3	1089.4	1188.2	1278.9	1035.2	1027.9	1036.4	1026.1	1154.6	1601.3	1510.5
75°	800.6	820.7	876.8	982.2	705.0	662.9	711.7	759.8	881.7	1243.0	1085.2
77.5°	602.0	627.6	662.9	734.8	517.3	451.5	458.2	503.9	637.3	995.6	608.1
80°	390.6	387.5	455.8	505.7	389.3	401.5	384.5	418.0	461.9	532.5	310.7
82.5°	225.4	228.5	257.1	290.0	271.1	310.1	223.6	373.5	329.6	216.9	115.8
85°	126.7	132.2	158.4	201.1	170.0	113.9	93.2	185.2	207.2	89.0	56.1
87.5°	12.8	11.0	21.3	76.2	46.3	18.9	28.0	44.5	50.0	33.5	16.5
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°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9
2.5°	891.4	891.4	876.2	850.6	840.2	822.0	797.0	804.9	796.4	765.3	757.4
5°	854.9	825.6	793.9	754.9	732.4	686.1	671.5	645.3	649.5	623.3	624.5
7.5°	778.7	755.5	701.9	650.7	606.3	566.0	509.4	488.1	467.3	457.0	469.2
10°	734.2	691.0	617.8	550.8	491.7	455.8	418.0	388.7	361.9	341.8	337.6
12.5°	701.9	663.5	575.2	493.5	447.2	418.0	383.3	343.0	316.8	282.1	271.8
15°	692.2	645.3	552.0	471.0	425.9	377.8	338.2	298.6	264.4	227.9	215.1
17.5°	725.7	671.5	551.4	452.7	389.3	337.6	282.7	238.2	203.5	170.0	162.1
20°	782.4	699.5	569.1	441.7	354.6	285.2	223.0	178.5	139.5	117.6	112.1
22.5°	846.9	747.0	570.9	412.5	319.9	232.8	162.7	117.6	95.7	85.3	82.3
25°	926.2	823.2	592.9	388.7	279.1	176.7	115.8	90.2	77.4	71.3	70.1
27.5°	991.3	876.2	616.6	363.8	238.8	131.0	90.8	73.7	67.0	60.9	60.3
30°	1059.0	937.1	623.3	348.5	204.1	107.8	78.0	65.2	57.9	54.8	54.2
32.5°	1118.1	1003.5	644.7	323.5	171.2	95.1	70.7	58.5	53.6	48.7	48.1
35°	1194.2	1041.9	655.0	310.1	159.0	85.9	64.6	53.6	46.3	43.3	42.0
37.5°	1275.9	1079.1	661.7	299.8	148.7	80.4	60.9	50.6	43.9	39.6	38.4
40°	1352.1	1131.5	652.0	287.0	140.8	73.7	58.5	46.9	40.8	36.6	34.7
42.5°	1410.6	1182.7	648.9	274.8	132.2	71.3	55.4	45.1	38.4	33.5	32.9
45°	1443.5	1217.4	627.6	265.0	125.5	72.5	54.2	42.7	36.6	32.3	29.9
47.5°	1435.5	1244.2	633.1	262.0	116.4	67.6	53.6	40.8	33.5	29.9	28.0
50°	1479.4	1298.4	623.9	252.3	109.7	60.9	58.5	40.8	32.9	28.6	26.8
52.5°	1486.7	1347.8	643.4	234.6	99.3	56.1	57.9	40.2	31.7	27.4	25.0
55°	1547.6	1405.1	681.2	224.8	90.8	48.7	53.0	39.0	28.6	25.0	23.8
57.5°	1630.5	1523.9	705.6	215.7	79.2	42.7	44.5	38.4	26.2	23.2	21.3
60°	1710.3	1571.4	707.4	199.2	68.2	38.4	34.7	38.4	24.4	20.7	18.9
62.5°	1770.0	1571.4	695.2	185.2	59.7	34.1	30.5	36.6	21.9	18.3	17.1
65°	1737.8	1529.4	663.5	173.7	54.2	29.9	26.2	28.0	19.5	15.8	14.6
67.5°	1679.9	1398.4	593.5	159.6	53.6	26.2	22.5	20.7	17.1	14.0	12.8
70°	1587.3	1221.7	494.2	143.8	52.4	23.8	20.1	17.7	15.2	12.2	11.0
72.5°	1278.9	1009.0	405.8	134.7	51.2	20.7	17.1	15.2	12.8	10.4	9.1
75°	885.9	644.7	312.6	115.2	50.0	18.9	15.8	13.4	11.0	8.5	7.9
77.5°	531.3	430.8	201.7	86.5	32.9	15.2	13.4	10.4	9.1	7.3	6.7
80°	248.6	203.5	81.6	33.5	15.8	11.0	9.1	7.9	7.3	6.1	5.5
82.5°	97.5	85.9	39.6	19.5	12.8	8.5	7.3	6.7	6.1	4.9	4.3
85°	52.4	46.3	18.9	13.4	9.1	6.1	6.1	5.5	4.9	4.3	3.7
87.5°	11.6	8.5	7.9	7.9	6.7	4.9	4.9	4.3	3.7	3.0	2.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9
2.5°	753.1	762.2	747.6	756.8	744.0	753.7	754.9	745.8	748.2	760.4	765.9
5°	641.6	635.5	622.1	617.8	618.4	610.5	613.6	617.8	624.5	628.2	639.2
7.5°	462.5	476.5	475.9	486.2	486.8	485.6	477.1	458.8	464.9	460.0	466.1
10°	330.9	336.9	348.5	355.2	367.4	360.7	341.2	333.9	330.2	329.6	335.7
12.5°	264.4	249.8	248.6	251.0	257.1	249.2	239.5	230.9	235.2	243.7	250.4
15°	204.7	192.5	176.7	174.3	175.5	171.8	161.5	150.5	153.5	162.1	167.0
17.5°	157.2	143.2	132.2	124.9	122.5	109.7	94.4	85.3	82.9	82.3	86.5
20°	106.0	103.6	101.8	92.6	92.6	74.3	61.5	54.8	54.8	56.1	56.7
22.5°	79.2	76.2	76.8	74.9	70.1	55.4	48.7	46.9	46.9	48.1	48.1
25°	68.9	64.6	63.4	62.8	57.9	47.5	42.7	40.8	40.8	42.0	42.0
27.5°	58.5	57.3	55.4	53.0	48.7	40.8	37.8	35.9	36.6	37.2	36.6
30°	53.6	50.6	48.1	48.1	43.3	36.6	34.1	32.9	31.7	32.9	33.5
32.5°	47.5	45.7	44.5	42.7	37.2	32.3	29.9	28.6	28.0	28.0	28.6
35°	40.8	40.8	39.6	37.2	32.3	29.2	26.2	25.0	24.4	25.0	25.0
37.5°	36.6	34.7	35.3	32.9	28.6	25.6	22.5	21.3	21.3	20.7	21.3
40°	34.1	31.1	29.2	28.0	25.6	21.9	19.5	18.3	17.7	17.7	17.7
42.5°	30.5	28.0	24.4	23.8	23.2	18.9	15.8	15.2	14.6	14.0	14.0
45°	28.6	25.0	21.9	18.9	18.9	15.8	13.4	12.2	11.6	11.0	11.6
47.5°	26.2	22.5	18.9	15.8	15.2	12.8	10.4	9.1	8.5	8.5	8.5
50°	25.0	20.1	16.5	13.4	11.6	10.4	7.9	6.7	6.1	6.1	6.1
52.5°	23.2	18.9	14.6	11.6	9.1	7.9	6.1	4.9	4.3	4.3	4.3
55°	20.7	17.1	12.8	9.7	7.9	6.1	4.3	3.0	2.4	2.4	2.4
57.5°	19.5	15.2	11.0	8.5	6.1	4.3	2.4	1.8	1.8	1.2	1.8
60°	17.7	13.4	9.1	6.7	4.9	3.0	1.8	0.6	0.6	0.6	0.6
62.5°	15.2	11.6	7.9	5.5	3.7	1.8	0.6	0.0	0.0	0.0	0.0
65°	12.8	9.1	6.1	4.3	2.4	0.6	0.0	0.0	0.0	0.0	0.0
67.5°	11.0	7.9	4.9	3.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.7	6.7	3.7	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.9	5.5	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.7	4.3	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.5	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.3	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	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°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9
2.5°	773.8	770.2	788.4	818.3	833.5	863.4	870.7	889.6	884.7	891.4
5°	640.4	647.7	674.5	718.4	734.2	777.5	818.3	859.1	885.3	898.1
7.5°	475.3	499.6	532.5	572.8	613.6	670.2	739.7	787.2	812.8	840.2
10°	354.0	380.2	418.0	457.6	524.0	587.4	656.8	715.9	737.9	763.5
12.5°	278.5	319.3	363.1	405.8	445.4	505.7	591.6	677.6	701.3	720.8
15°	193.8	243.7	306.5	361.9	417.4	469.8	558.7	662.9	695.2	728.1
17.5°	107.2	146.8	218.7	296.7	378.4	458.8	569.7	689.7	738.5	761.6
20°	62.1	78.0	129.2	221.8	329.6	435.0	575.2	740.3	804.9	816.5
22.5°	51.2	56.7	73.1	138.9	269.9	419.8	603.2	811.0	876.8	904.2
25°	43.9	48.1	56.7	83.5	204.1	387.5	620.9	899.3	960.3	990.1
27.5°	39.0	43.3	50.0	61.5	138.9	343.0	650.1	979.2	1040.1	1080.9
30°	34.1	37.8	44.5	52.4	96.3	293.1	675.1	1037.7	1123.6	1136.4
32.5°	30.5	33.5	38.4	45.1	71.3	222.4	695.2	1098.0	1170.5	1198.5
35°	26.2	29.9	32.9	38.4	54.2	167.6	683.0	1144.9	1239.3	1272.8
37.5°	23.2	25.6	28.6	32.3	45.7	131.0	658.1	1201.0	1298.4	1329.5
40°	19.5	21.3	25.0	28.6	41.4	101.1	629.4	1268.6	1381.3	1436.1
42.5°	16.5	18.3	20.7	26.8	34.1	74.9	571.5	1321.0	1448.3	1494.6
45°	12.8	15.2	18.9	26.8	27.4	55.4	511.8	1360.0	1486.1	1509.3
47.5°	9.7	12.2	18.3	23.2	21.9	38.4	441.1	1404.5	1525.1	1546.4
50°	7.3	9.7	20.7	20.1	18.3	29.2	396.7	1435.5	1527.5	1539.1
52.5°	4.9	7.3	17.1	15.2	15.2	25.6	384.5	1434.3	1533.6	1508.7
55°	3.7	5.5	9.7	11.0	13.4	22.5	373.5	1480.0	1535.5	1553.1
57.5°	2.4	4.3	6.7	8.5	11.6	19.5	351.0	1534.9	1592.1	1601.3
60°	1.2	3.0	4.9	6.7	9.7	17.1	319.3	1575.1	1661.0	1670.7
62.5°	0.6	1.8	3.7	5.5	7.9	13.4	286.4	1511.1	1631.1	1648.2
65°	0.0	1.2	2.4	3.7	4.9	9.7	232.8	1364.2	1512.9	1575.7
67.5°	0.0	0.0	1.2	2.4	3.0	7.3	175.5	1241.2	1403.9	1489.2
70°	0.0	0.0	0.6	0.6	1.8	5.5	112.1	1027.9	1253.4	1300.3
72.5°	0.0	0.0	0.0	0.0	0.6	3.7	65.2	763.5	982.2	1069.3
75°	0.0	0.0	0.0	0.0	0.0	3.0	32.9	491.1	683.6	800.6
77.5°	0.0	0.0	0.0	0.0	0.0	2.4	17.7	316.8	503.9	602.0
80°	0.0	0.0	0.0	0.0	0.0	0.6	10.4	184.0	322.3	390.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	90.2	192.5	225.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	48.1	96.3	126.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.7	12.8
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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