

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: P674094

Luminaire Tested: **CCP-SA-1B-727-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674094
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-727-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SLL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

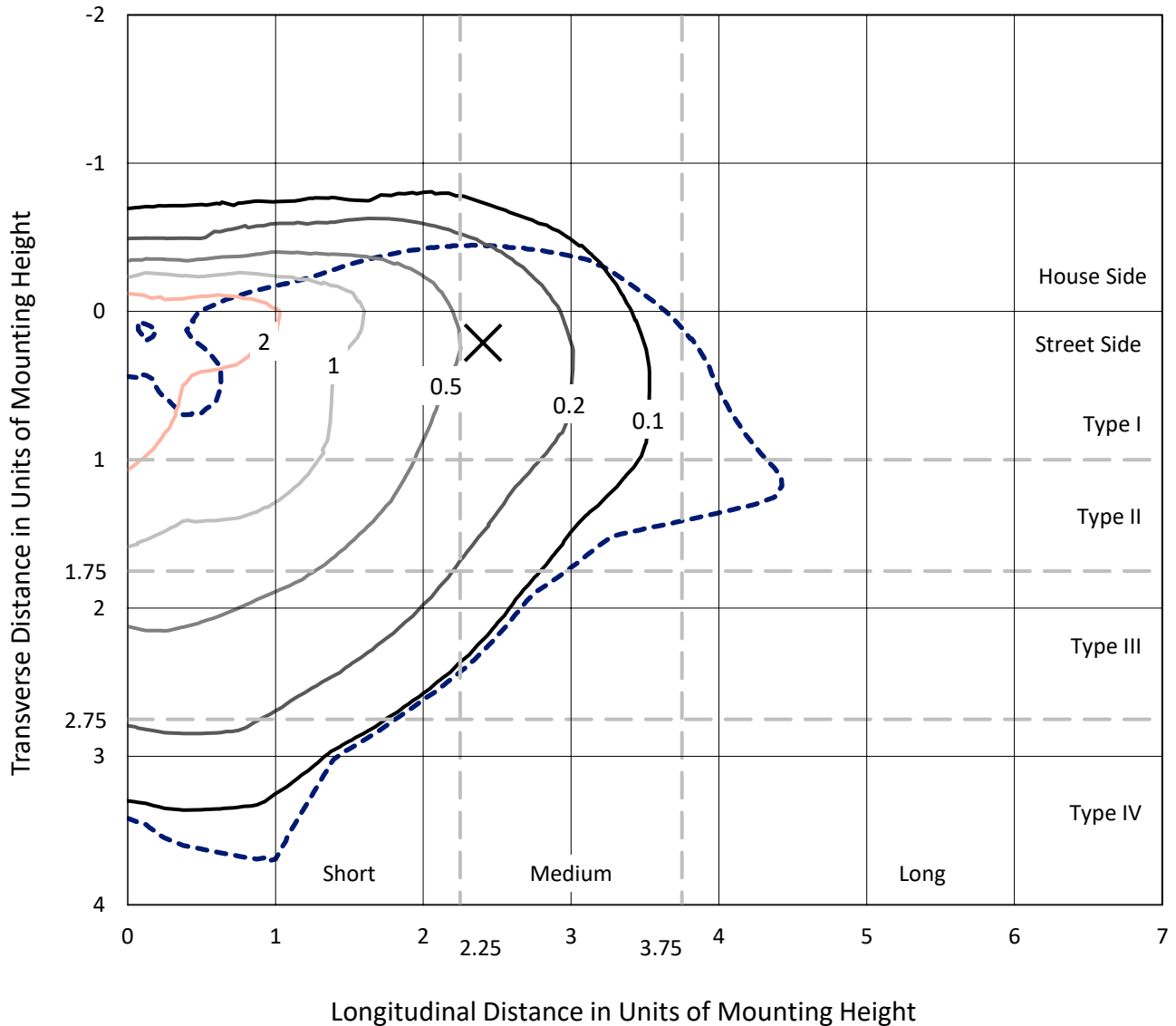
Lumens per Lamp: N/A
Luminaire Lumens: 2095.5 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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

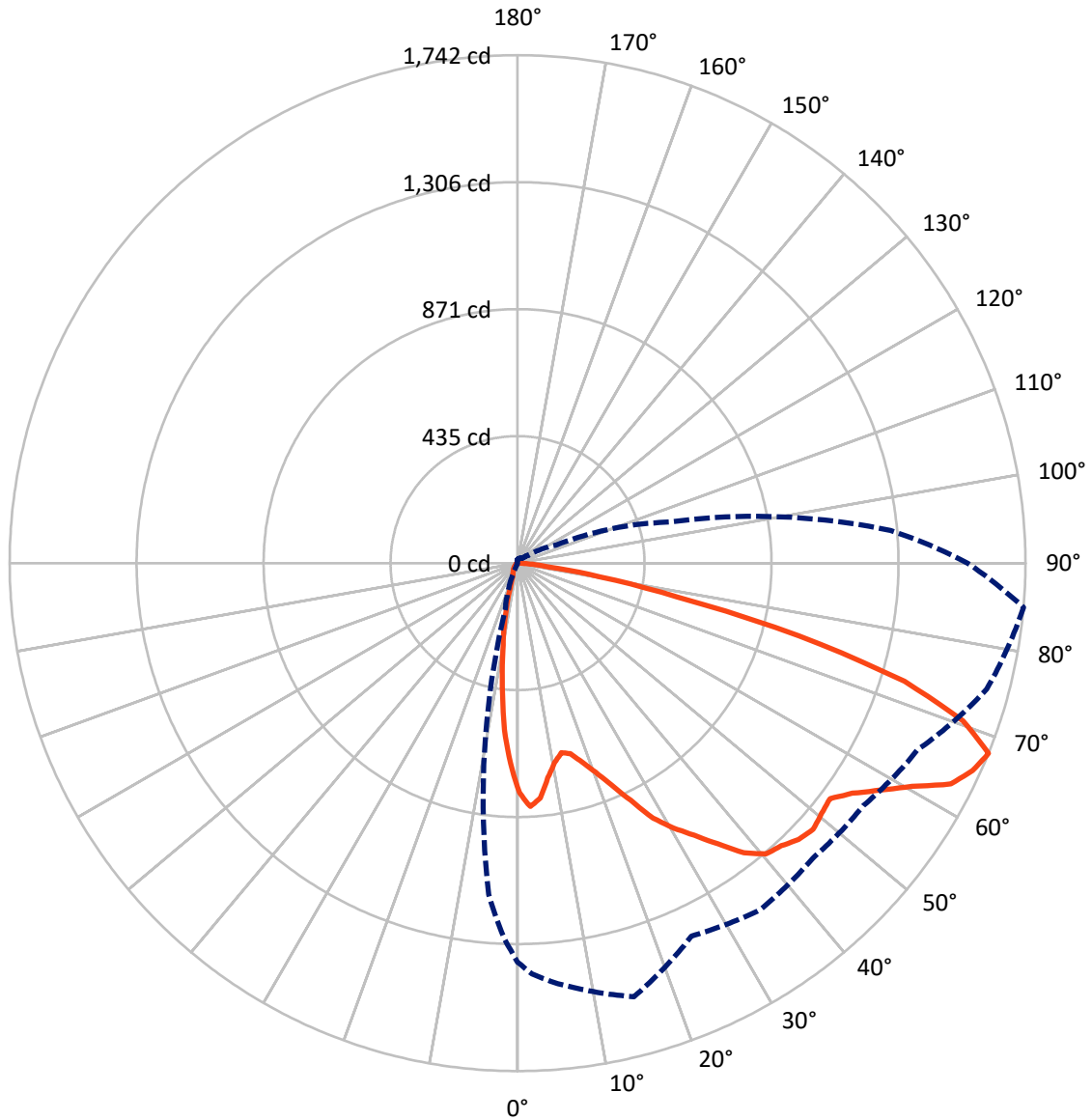
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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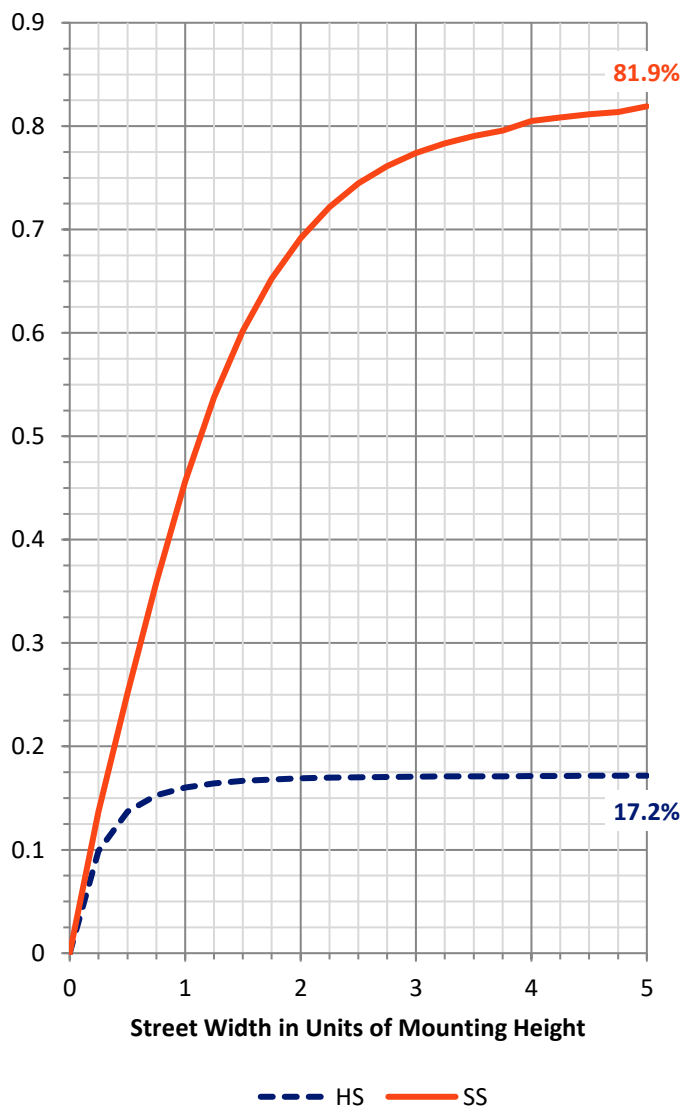
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.9	0.0	363.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1731.7	0.0	1731.7
	% Fixture	82.6	0.0	82.6
Total	Lumens	2095.5	0.0	2095.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	2.9
10°-20°	117.4	5.6
20°-30°	162.4	7.8
30°-40°	229.6	11.0
40°-50°	312.5	14.9
50°-60°	413.9	19.8
60°-70°	480.6	22.9
70°-80°	272.2	13.0
80°-90°	47.0	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°	2095.5	100.0
0°-180°	2095.5	100.0



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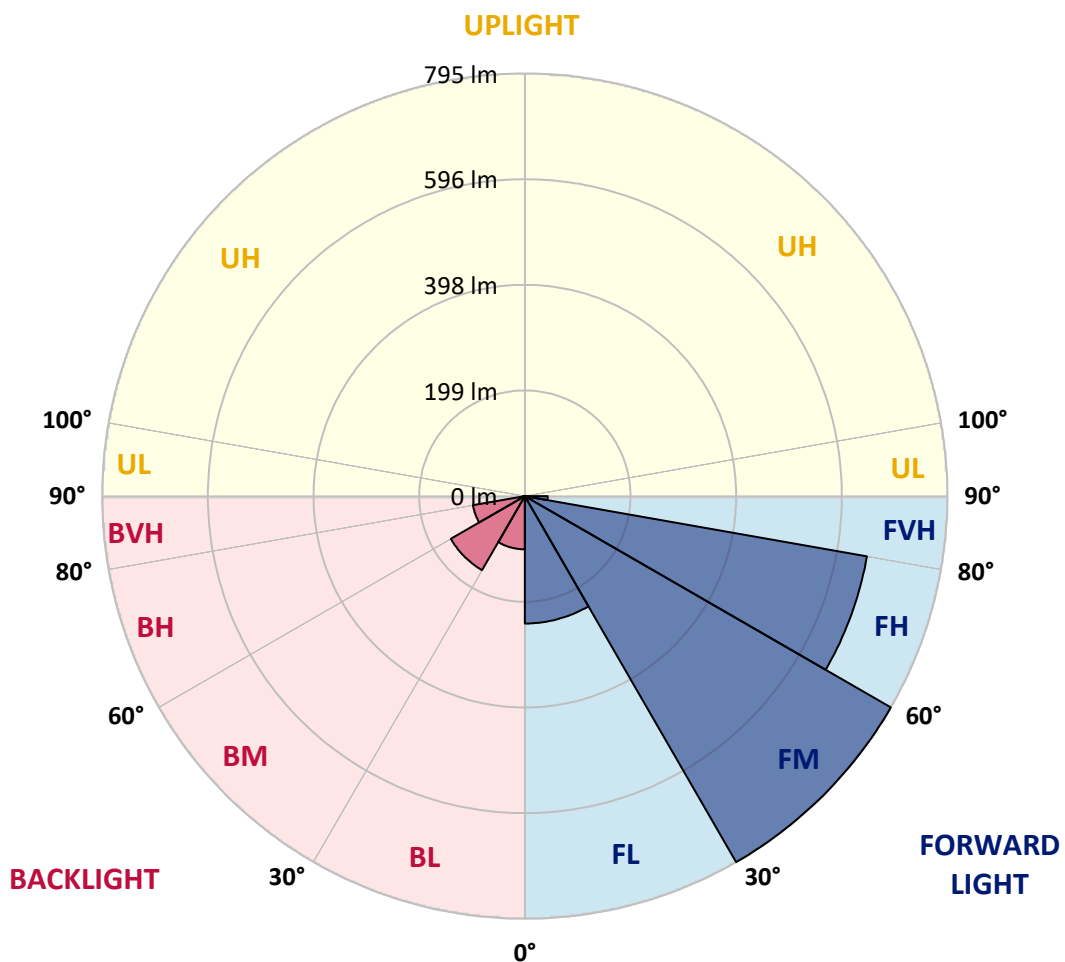
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.6	11.4			
FM (30°-60°)	795.3	38.0			
FH (60°-80°)	653.7	31.2			G0/660
FVH (80°-90°)	43.1	2.1			G1/100
BL (0°-30°)	100.0	4.8	B0/110		
BM (30°-60°)	160.8	7.7	B0/220		
BH (60°-80°)	99.1	4.7	B0/110		G0/110
BVH (80°-90°)	4.0	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°	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9
2.5°	818.7	836.0	836.6	844.4	852.3	852.3	870.7	866.3	850.0	847.2	835.5
5°	824.8	831.0	835.5	875.2	908.8	905.4	915.5	908.8	877.4	837.2	809.7
7.5°	771.7	778.4	796.3	864.0	909.3	924.4	943.5	901.5	868.5	795.7	743.1
10°	701.2	714.0	747.1	824.3	880.2	928.4	928.4	894.8	831.0	759.9	695.6
12.5°	662.0	687.7	705.6	784.0	856.7	889.8	888.6	870.7	829.3	739.8	667.0
15°	668.7	676.0	714.0	775.0	823.2	821.5	841.6	836.0	806.9	757.7	677.7
17.5°	699.5	710.7	743.7	775.0	798.0	791.3	790.7	817.6	819.2	787.9	717.4
20°	749.9	782.9	798.5	808.1	780.1	751.5	748.2	785.7	814.8	826.5	765.0
22.5°	830.4	852.3	884.2	835.5	762.7	726.9	720.2	761.6	820.4	872.4	826.5
25°	909.3	926.1	956.9	894.2	782.3	721.9	710.1	745.9	841.6	936.2	900.9
27.5°	992.7	1007.3	1010.6	937.3	792.9	711.8	697.8	745.9	859.5	969.8	989.9
30°	1043.6	1061.0	1064.3	975.4	810.3	720.2	713.5	749.3	871.8	998.3	1053.7
32.5°	1100.7	1105.2	1102.4	982.1	829.3	744.8	716.8	771.7	885.8	1032.5	1111.9
35°	1169.0	1176.8	1148.3	1012.9	871.8	760.5	750.4	799.1	909.9	1048.1	1182.4
37.5°	1221.0	1245.7	1181.3	1024.6	880.2	793.5	795.2	856.2	926.7	1067.1	1260.2
40°	1319.0	1277.6	1237.3	1064.9	912.1	849.5	840.5	914.9	983.2	1079.5	1311.1
42.5°	1372.7	1350.9	1259.1	1068.8	961.4	926.7	928.9	981.5	1012.9	1114.2	1325.1
45°	1386.1	1363.2	1288.7	1071.6	1010.1	1017.9	1056.5	1066.6	1056.5	1137.1	1351.4
47.5°	1420.2	1370.4	1285.4	1109.1	1089.0	1119.2	1168.4	1190.3	1115.8	1128.7	1363.7
50°	1413.5	1385.0	1278.1	1124.8	1185.2	1265.2	1298.3	1289.3	1181.9	1111.4	1350.3
52.5°	1385.6	1354.8	1300.5	1167.3	1275.3	1372.1	1418.0	1395.6	1240.6	1150.5	1341.3
55°	1426.4	1402.9	1329.6	1225.0	1343.0	1466.1	1498.6	1481.8	1312.8	1186.9	1392.3
57.5°	1470.6	1465.6	1408.5	1292.7	1423.0	1562.9	1562.9	1542.2	1375.5	1239.5	1467.8
60°	1534.4	1545.6	1466.7	1337.4	1450.5	1557.3	1638.5	1614.4	1438.7	1331.8	1553.4
62.5°	1513.7	1549.5	1541.7	1433.7	1481.8	1584.8	1629.0	1646.9	1517.1	1444.3	1667.6
65°	1447.1	1485.2	1541.1	1496.9	1458.3	1518.2	1540.6	1594.8	1556.2	1550.1	1714.6
67.5°	1367.6	1409.1	1443.8	1539.4	1410.7	1450.5	1430.9	1448.2	1513.7	1665.9	1741.5
70°	1194.2	1233.9	1288.7	1444.9	1284.8	1249.0	1244.0	1235.6	1337.4	1624.5	1619.5
72.5°	982.1	1000.6	1091.2	1174.6	950.7	944.0	951.9	942.4	1060.4	1470.6	1387.2
75°	735.3	753.8	805.3	902.1	647.4	608.8	653.6	697.8	809.7	1141.6	996.6
77.5°	552.9	576.4	608.8	674.9	475.1	414.7	420.8	462.8	585.3	914.4	558.5
80°	358.7	355.9	418.6	464.5	357.6	368.8	353.1	383.9	424.2	489.1	285.4
82.5°	207.0	209.8	236.1	266.4	249.0	284.8	205.4	343.0	302.7	199.2	106.3
85°	116.4	121.4	145.5	184.7	156.1	104.6	85.6	170.1	190.3	81.7	51.5
87.5°	11.8	10.1	19.6	69.9	42.5	17.3	25.7	40.9	45.9	30.8	15.1
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°	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9
2.5°	818.7	818.7	804.7	781.2	771.7	754.9	731.9	739.2	731.4	702.8	695.6
5°	785.1	758.2	729.2	693.3	672.6	630.1	616.7	592.6	596.5	572.5	573.6
7.5°	715.2	693.9	644.7	597.6	556.8	519.9	467.8	448.2	429.2	419.7	430.9
10°	674.3	634.6	567.4	505.9	451.6	418.6	383.9	357.0	332.4	313.9	310.0
12.5°	644.7	609.4	528.3	453.3	410.7	383.9	352.0	315.1	291.0	259.1	249.6
15°	635.7	592.6	507.0	432.6	391.2	346.9	310.6	274.2	242.9	209.3	197.5
17.5°	666.5	616.7	506.4	415.8	357.6	310.0	259.7	218.8	186.9	156.1	148.9
20°	718.5	642.4	522.7	405.7	325.7	261.9	204.8	164.0	128.1	108.0	103.0
22.5°	777.8	686.1	524.3	378.8	293.8	213.8	149.4	108.0	87.9	78.3	75.5
25°	850.6	756.0	544.5	357.0	256.3	162.3	106.3	82.8	71.1	65.5	64.4
27.5°	910.5	804.7	566.3	334.1	219.4	120.3	83.4	67.7	61.6	56.0	55.4
30°	972.6	860.7	572.5	320.1	187.5	99.0	71.6	59.9	53.2	50.4	49.8
32.5°	1026.9	921.7	592.1	297.1	157.2	87.3	64.9	53.7	49.2	44.8	44.2
35°	1096.8	956.9	601.6	284.8	146.1	78.9	59.3	49.2	42.5	39.7	38.6
37.5°	1171.8	991.0	607.7	275.3	136.5	73.9	56.0	46.4	40.3	36.4	35.3
40°	1241.7	1039.2	598.8	263.6	129.3	67.7	53.7	43.1	37.5	33.6	31.9
42.5°	1295.5	1086.2	596.0	252.4	121.4	65.5	50.9	41.4	35.3	30.8	30.2
45°	1325.7	1118.1	576.4	243.4	115.3	66.6	49.8	39.2	33.6	29.7	27.4
47.5°	1318.4	1142.7	581.4	240.6	106.9	62.1	49.2	37.5	30.8	27.4	25.7
50°	1358.7	1192.5	573.0	231.7	100.7	56.0	53.7	37.5	30.2	26.3	24.6
52.5°	1365.4	1237.8	590.9	215.4	91.2	51.5	53.2	36.9	29.1	25.2	22.9
55°	1421.4	1290.4	625.6	206.5	83.4	44.8	48.7	35.8	26.3	22.9	21.8
57.5°	1497.5	1399.5	648.0	198.1	72.7	39.2	40.9	35.3	24.1	21.3	19.6
60°	1570.8	1443.2	649.7	183.0	62.7	35.3	31.9	35.3	22.4	19.0	17.3
62.5°	1625.6	1443.2	638.5	170.1	54.8	31.3	28.0	33.6	20.1	16.8	15.7
65°	1596.0	1404.6	609.4	159.5	49.8	27.4	24.1	25.7	17.9	14.5	13.4
67.5°	1542.8	1284.3	545.0	146.6	49.2	24.1	20.7	19.0	15.7	12.9	11.8
70°	1457.7	1122.0	453.8	132.1	48.1	21.8	18.5	16.2	14.0	11.2	10.1
72.5°	1174.6	926.7	372.7	123.7	47.0	19.0	15.7	14.0	11.8	9.5	8.4
75°	813.6	592.1	287.1	105.8	45.9	17.3	14.5	12.3	10.1	7.8	7.3
77.5°	488.0	395.6	185.2	79.5	30.2	14.0	12.3	9.5	8.4	6.7	6.2
80°	228.3	186.9	75.0	30.8	14.5	10.1	8.4	7.3	6.7	5.6	5.0
82.5°	89.5	78.9	36.4	17.9	11.8	7.8	6.7	6.2	5.6	4.5	3.9
85°	48.1	42.5	17.3	12.3	8.4	5.6	5.6	5.0	4.5	3.9	3.4
87.5°	10.6	7.8	7.3	7.3	6.2	4.5	4.5	3.9	3.4	2.8	2.2
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°	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9
2.5°	691.7	700.1	686.6	695.0	683.3	692.2	693.3	684.9	687.2	698.4	703.4
5°	589.3	583.7	571.3	567.4	568.0	560.7	563.5	567.4	573.6	576.9	587.0
7.5°	424.7	437.6	437.0	446.6	447.1	446.0	438.2	421.4	427.0	422.5	428.1
10°	303.9	309.5	320.1	326.2	337.4	331.3	313.4	306.7	303.3	302.7	308.3
12.5°	242.9	229.4	228.3	230.6	236.1	228.9	219.9	212.1	216.0	223.8	230.0
15°	188.0	176.8	162.3	160.0	161.2	157.8	148.3	138.2	141.0	148.9	153.3
17.5°	144.4	131.5	121.4	114.7	112.5	100.7	86.7	78.3	76.1	75.5	79.5
20°	97.4	95.1	93.5	85.1	85.1	68.3	56.5	50.4	50.4	51.5	52.0
22.5°	72.7	69.9	70.5	68.8	64.4	50.9	44.8	43.1	43.1	44.2	44.2
25°	63.2	59.3	58.2	57.6	53.2	43.6	39.2	37.5	37.5	38.6	38.6
27.5°	53.7	52.6	50.9	48.7	44.8	37.5	34.7	33.0	33.6	34.1	33.6
30°	49.2	46.4	44.2	44.2	39.7	33.6	31.3	30.2	29.1	30.2	30.8
32.5°	43.6	42.0	40.9	39.2	34.1	29.7	27.4	26.3	25.7	25.7	26.3
35°	37.5	37.5	36.4	34.1	29.7	26.9	24.1	22.9	22.4	22.9	22.9
37.5°	33.6	31.9	32.5	30.2	26.3	23.5	20.7	19.6	19.6	19.0	19.6
40°	31.3	28.5	26.9	25.7	23.5	20.1	17.9	16.8	16.2	16.2	16.2
42.5°	28.0	25.7	22.4	21.8	21.3	17.3	14.5	14.0	13.4	12.9	12.9
45°	26.3	22.9	20.1	17.3	17.3	14.5	12.3	11.2	10.6	10.1	10.6
47.5°	24.1	20.7	17.3	14.5	14.0	11.8	9.5	8.4	7.8	7.8	7.8
50°	22.9	18.5	15.1	12.3	10.6	9.5	7.3	6.2	5.6	5.6	5.6
52.5°	21.3	17.3	13.4	10.6	8.4	7.3	5.6	4.5	3.9	3.9	3.9
55°	19.0	15.7	11.8	9.0	7.3	5.6	3.9	2.8	2.2	2.2	2.2
57.5°	17.9	14.0	10.1	7.8	5.6	3.9	2.2	1.7	1.7	1.1	1.7
60°	16.2	12.3	8.4	6.2	4.5	2.8	1.7	0.6	0.6	0.6	0.6
62.5°	14.0	10.6	7.3	5.0	3.4	1.7	0.6	0.0	0.0	0.0	0.0
65°	11.8	8.4	5.6	3.9	2.2	0.6	0.0	0.0	0.0	0.0	0.0
67.5°	10.1	7.3	4.5	2.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.0	6.2	3.4	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.3	5.0	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.2	3.9	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.0	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.9	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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°	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9	787.9
2.5°	710.7	707.3	724.1	751.5	765.5	792.9	799.7	817.0	812.5	818.7
5°	588.1	594.8	619.5	659.8	674.3	714.0	751.5	789.0	813.1	824.8
7.5°	436.5	458.9	489.1	526.0	563.5	615.6	679.3	723.0	746.5	771.7
10°	325.1	349.2	383.9	420.3	481.3	539.4	603.2	657.5	677.7	701.2
12.5°	255.7	293.2	333.5	372.7	409.1	464.5	543.4	622.3	644.1	662.0
15°	178.0	223.8	281.5	332.4	383.3	431.4	513.1	608.8	638.5	668.7
17.5°	98.5	134.9	200.9	272.5	347.5	421.4	523.2	633.5	678.2	699.5
20°	57.1	71.6	118.6	203.7	302.7	399.5	528.3	679.9	739.2	749.9
22.5°	47.0	52.0	67.2	127.6	247.9	385.6	554.0	744.8	805.3	830.4
25°	40.3	44.2	52.0	76.7	187.5	355.9	570.2	826.0	881.9	909.3
27.5°	35.8	39.7	45.9	56.5	127.6	315.1	597.1	899.3	955.2	992.7
30°	31.3	34.7	40.9	48.1	88.4	269.2	620.0	953.0	1031.9	1043.6
32.5°	28.0	30.8	35.3	41.4	65.5	204.3	638.5	1008.4	1075.0	1100.7
35°	24.1	27.4	30.2	35.3	49.8	153.9	627.3	1051.5	1138.2	1169.0
37.5°	21.3	23.5	26.3	29.7	42.0	120.3	604.4	1103.0	1192.5	1221.0
40°	17.9	19.6	22.9	26.3	38.1	92.9	578.1	1165.1	1268.6	1319.0
42.5°	15.1	16.8	19.0	24.6	31.3	68.8	524.9	1213.2	1330.2	1372.7
45°	11.8	14.0	17.3	24.6	25.2	50.9	470.1	1249.0	1364.8	1386.1
47.5°	9.0	11.2	16.8	21.3	20.1	35.3	405.1	1289.9	1400.7	1420.2
50°	6.7	9.0	19.0	18.5	16.8	26.9	364.3	1318.4	1402.9	1413.5
52.5°	4.5	6.7	15.7	14.0	14.0	23.5	353.1	1317.3	1408.5	1385.6
55°	3.4	5.0	9.0	10.1	12.3	20.7	343.0	1359.3	1410.2	1426.4
57.5°	2.2	3.9	6.2	7.8	10.6	17.9	322.3	1409.6	1462.2	1470.6
60°	1.1	2.8	4.5	6.2	9.0	15.7	293.2	1446.5	1525.5	1534.4
62.5°	0.6	1.7	3.4	5.0	7.3	12.3	263.0	1387.8	1498.0	1513.7
65°	0.0	1.1	2.2	3.4	4.5	9.0	213.8	1252.9	1389.5	1447.1
67.5°	0.0	0.0	1.1	2.2	2.8	6.7	161.2	1139.9	1289.3	1367.6
70°	0.0	0.0	0.6	0.6	1.7	5.0	103.0	944.0	1151.1	1194.2
72.5°	0.0	0.0	0.0	0.0	0.6	3.4	59.9	701.2	902.1	982.1
75°	0.0	0.0	0.0	0.0	0.0	2.8	30.2	451.0	627.9	735.3
77.5°	0.0	0.0	0.0	0.0	0.0	2.2	16.2	291.0	462.8	552.9
80°	0.0	0.0	0.0	0.0	0.0	0.6	9.5	169.0	296.0	358.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	82.8	176.8	207.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	44.2	88.4	116.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.2	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)