

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: P671645

Luminaire Tested: **CCP-SA-1A-727-U-SLL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671645
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-727-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SLL
distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1898.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

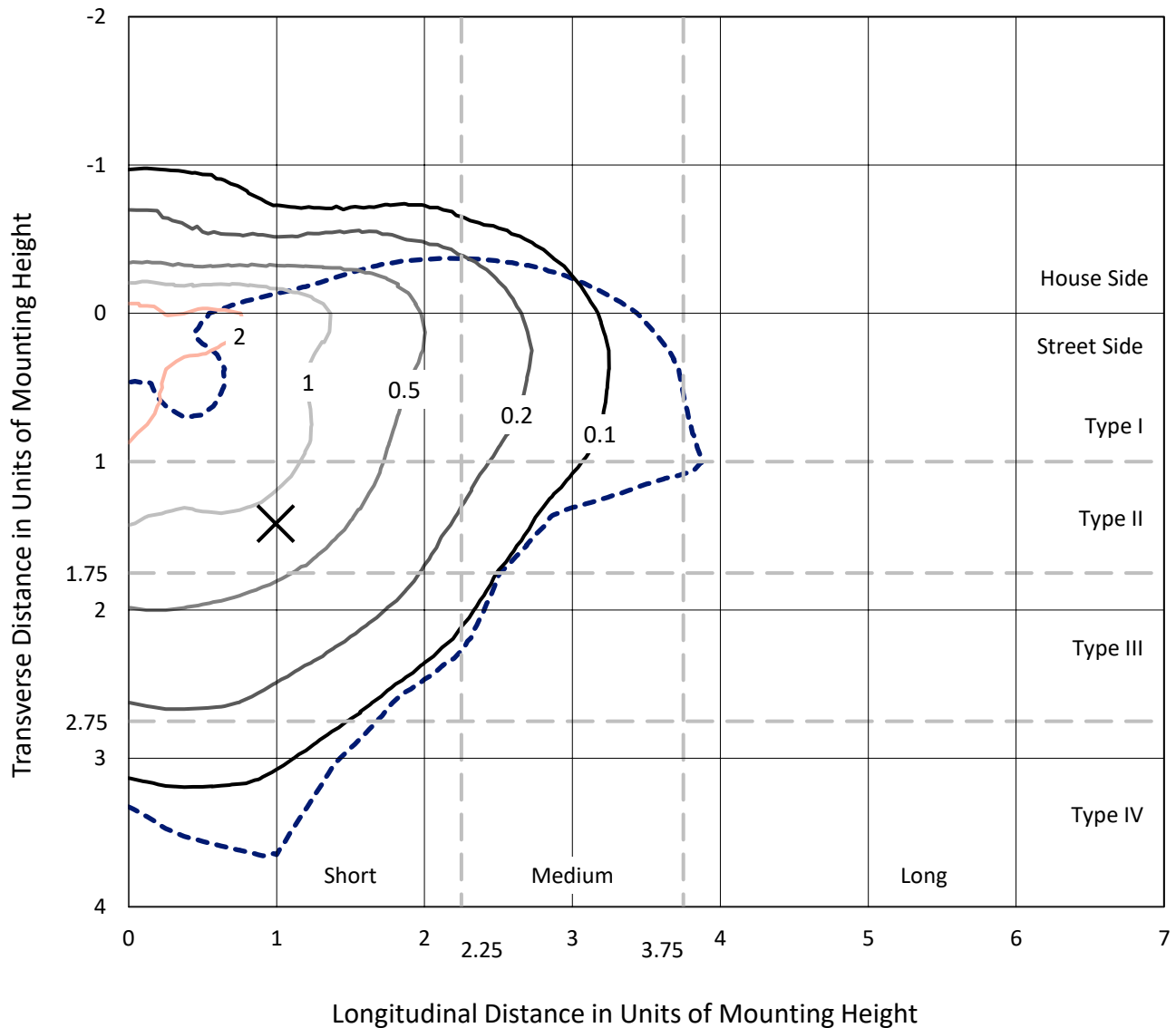
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P671645

CATALOG NUMBER: CCP-SA-1A-727-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

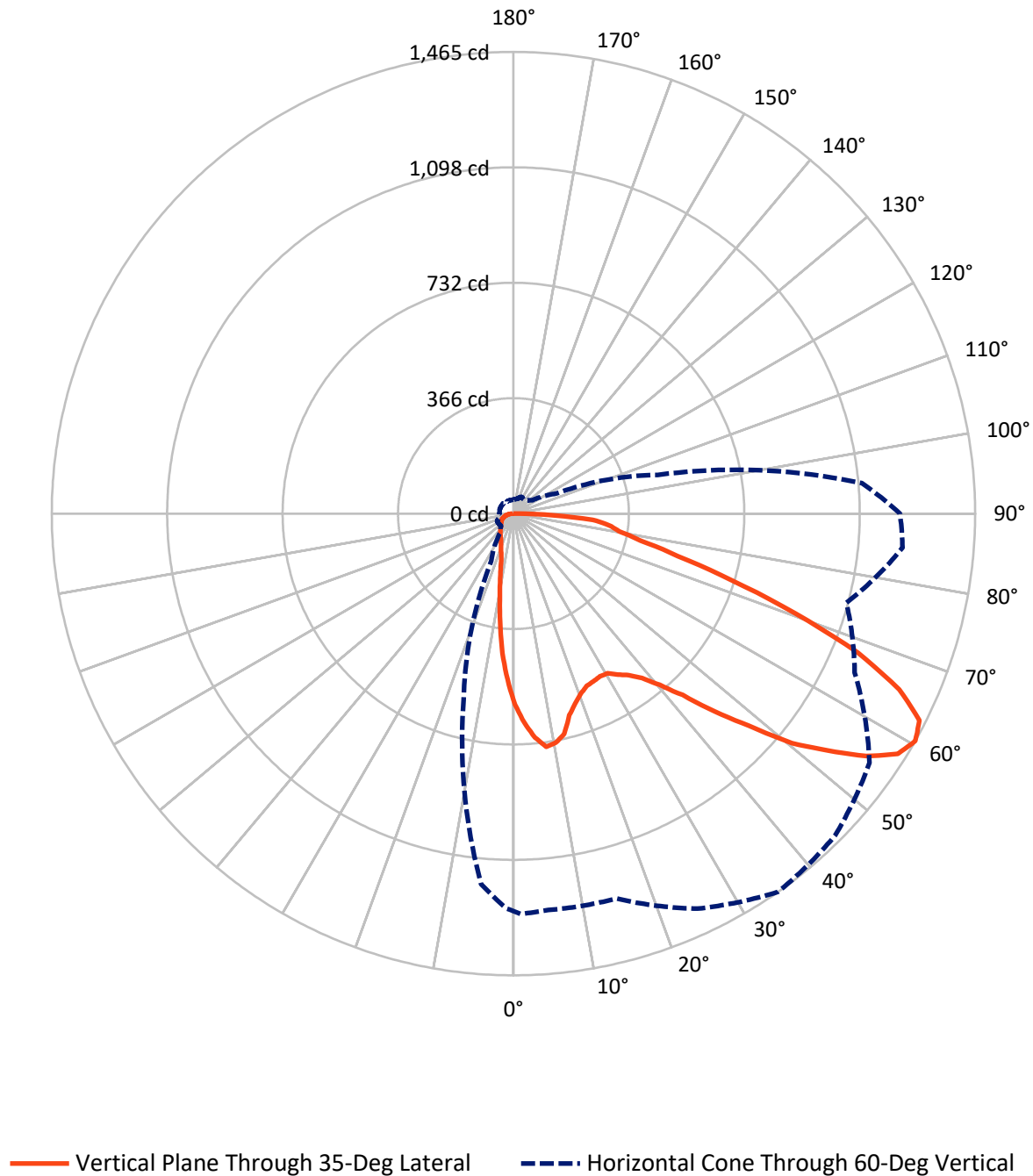
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P671645
CATALOG NUMBER: CCP-SA-1A-727-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P671645

CATALOG NUMBER: CCP-SA-1A-727-U-SLL

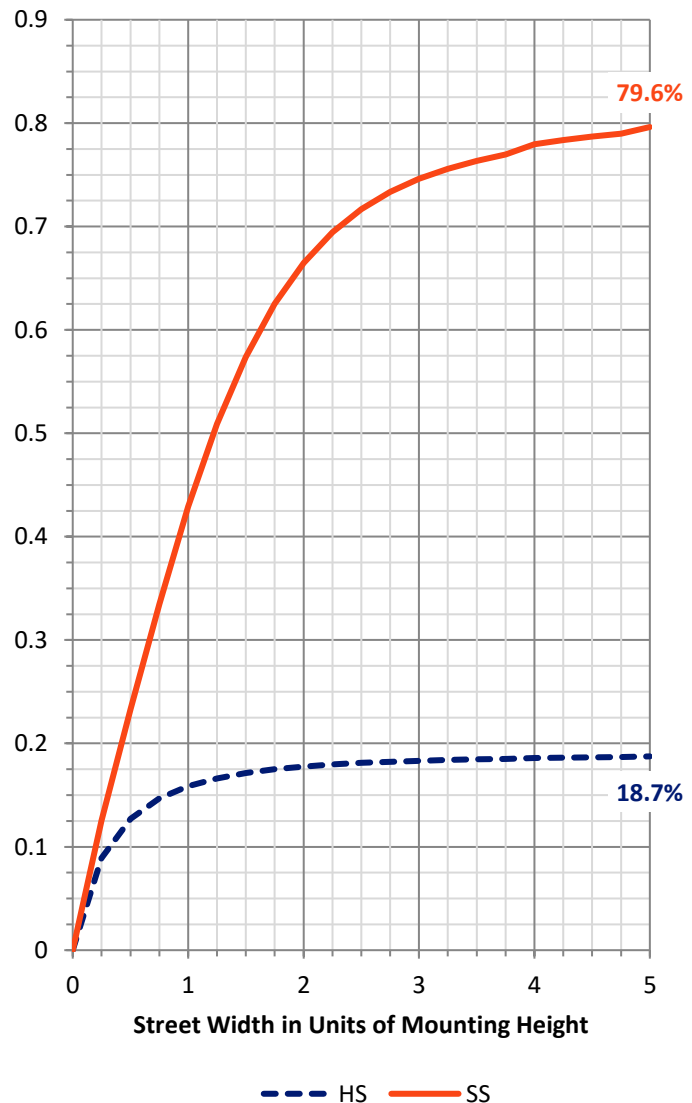
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.3	0.0	361.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1537.1	0.0	1537.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	1898.4	0.0	1898.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	2.5
10°-20°	99.5	5.2
20°-30°	145.5	7.7
30°-40°	205.0	10.8
40°-50°	281.8	14.8
50°-60°	384.0	20.2
60°-70°	420.3	22.1
70°-80°	242.6	12.8
80°-90°	72.7	3.8
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°	1898.4	100.0
0°-180°	1898.4	100.0

Coefficient of Utilization



REPORT NUMBER: P671645

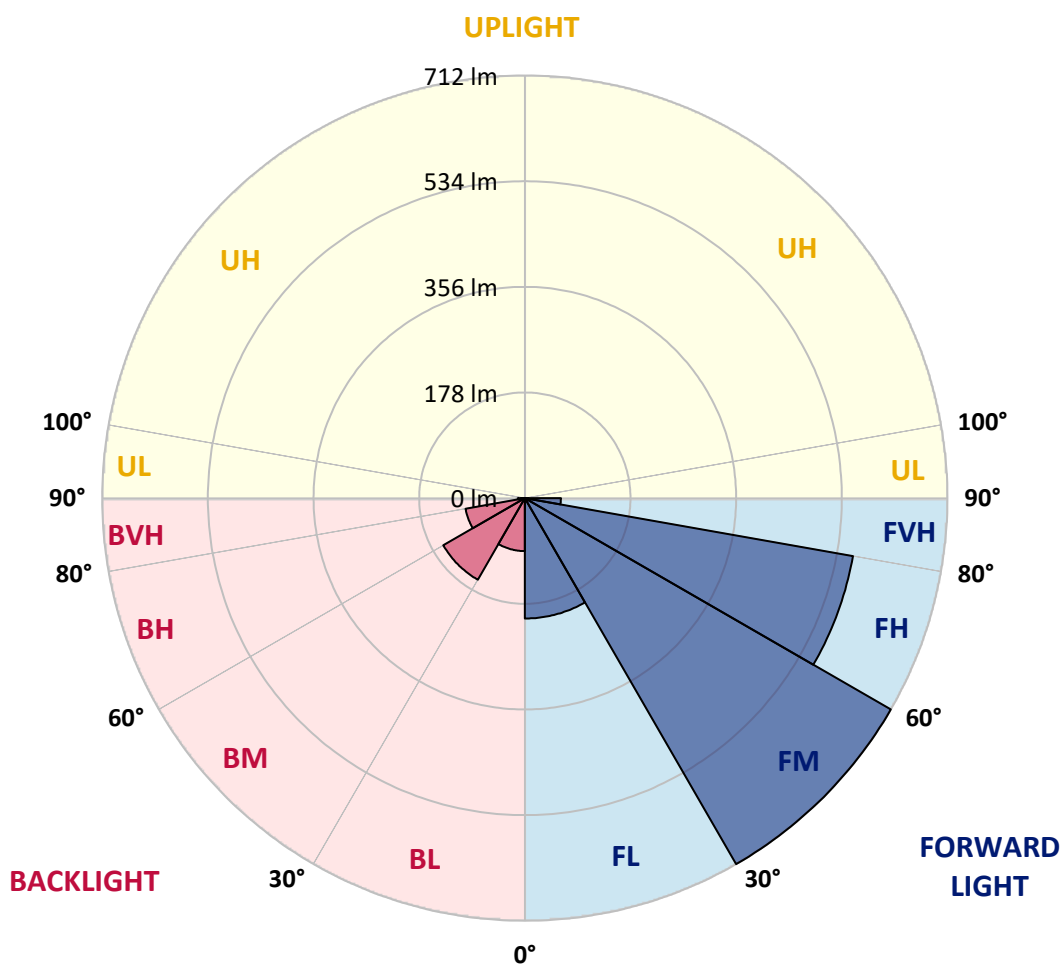
CATALOG NUMBER: CCP-SA-1A-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.8	10.7			
FM	(30°-60°)	712.0	37.5			
FH	(60°-80°)	561.4	29.6			G0/660
FVH	(80°-90°)	60.8	3.2			G1/100
BL	(0°-30°)	89.3	4.7	B0/110		
BM	(30°-60°)	158.7	8.4	B0/220		
BH	(60°-80°)	101.5	5.3	B0/110		G0/110
BVH	(80°-90°)	11.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P671645

CATALOG NUMBER: CCP-SA-1A-727-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3
2.5°	649.3	646.8	649.3	658.5	661.1	665.3	665.3	659.4	648.4	643.4	635.0
5°	663.6	659.4	680.4	699.8	715.0	713.3	699.0	687.2	665.3	632.4	601.3
7.5°	635.0	639.2	654.3	704.9	740.2	747.0	724.2	700.7	653.5	608.0	565.9
10°	581.1	587.0	619.8	672.0	727.6	738.5	724.2	695.6	639.2	582.8	533.9
12.5°	555.0	568.4	587.8	651.0	690.5	716.7	709.9	691.4	628.2	561.7	514.5
15°	555.0	558.3	587.0	640.0	662.8	663.6	666.1	669.5	631.6	571.0	507.8
17.5°	572.6	581.9	606.3	639.2	643.4	633.3	633.3	647.6	638.3	597.1	532.2
20°	615.6	612.2	644.2	657.7	635.0	609.7	607.2	631.6	645.9	624.9	576.9
22.5°	658.5	673.7	699.8	669.5	627.4	593.7	590.3	620.6	668.7	672.9	628.2
25°	723.4	738.5	752.0	715.0	626.5	589.5	592.0	615.6	696.4	741.1	714.1
27.5°	793.3	802.5	821.9	764.7	646.8	584.4	587.0	622.3	722.5	785.7	781.5
30°	832.9	843.0	838.8	773.9	660.2	587.8	581.1	631.6	708.2	785.7	825.3
32.5°	871.6	865.7	863.2	789.1	677.1	608.9	592.0	651.0	716.7	798.3	881.7
35°	918.8	910.3	903.6	818.5	704.9	629.1	621.5	676.2	735.2	824.4	927.2
37.5°	971.0	971.0	938.1	840.4	737.7	661.9	653.5	712.4	764.7	840.4	989.5
40°	1032.4	1035.0	976.9	869.9	774.8	714.1	711.6	759.6	793.3	864.0	1049.3
42.5°	1077.9	1079.6	1010.6	880.9	817.7	786.5	797.5	835.4	826.1	885.1	1053.5
45°	1109.1	1100.7	1034.1	912.0	864.9	895.2	898.6	909.5	869.1	897.7	1070.3
47.5°	1124.2	1122.6	1044.2	948.2	964.2	1005.5	1024.9	1009.7	908.7	884.2	1070.3
50°	1139.4	1125.1	1053.5	997.9	1061.1	1144.5	1140.2	1112.5	963.4	901.1	1054.3
52.5°	1149.5	1136.9	1072.0	1042.6	1153.7	1248.0	1264.9	1213.5	1027.4	932.2	1061.9
55°	1185.7	1175.6	1127.6	1103.2	1260.7	1357.5	1360.0	1288.5	1094.8	983.6	1111.6
57.5°	1229.5	1235.4	1204.2	1189.1	1342.4	1437.5	1428.3	1344.0	1152.0	1045.9	1168.9
60°	1260.7	1269.9	1262.4	1264.0	1382.8	1464.5	1443.4	1378.6	1194.1	1093.1	1238.8
62.5°	1243.8	1262.4	1293.5	1286.8	1384.5	1445.1	1415.6	1333.1	1199.2	1154.6	1291.8
65°	1197.5	1199.2	1259.8	1296.9	1308.7	1344.9	1306.1	1237.9	1147.0	1192.5	1284.2
67.5°	1078.8	1092.2	1147.0	1219.4	1169.7	1178.1	1174.8	1076.2	1067.8	1166.3	1226.1
70°	952.4	961.7	1021.5	1106.6	987.8	948.2	955.8	882.6	917.1	1085.5	1109.1
72.5°	787.4	793.3	861.5	936.4	792.4	721.7	739.4	679.6	728.4	949.9	935.6
75°	594.5	605.5	658.5	747.0	583.6	538.1	555.8	531.4	576.9	782.3	725.9
77.5°	422.7	414.3	480.0	584.4	438.7	411.8	413.5	417.7	466.5	659.4	521.3
80°	288.0	290.5	349.5	428.6	344.4	340.2	336.0	369.7	391.6	522.1	379.0
82.5°	171.0	171.0	235.8	304.9	272.0	306.5	287.2	317.5	306.5	384.0	248.4
85°	80.0	80.0	121.3	219.8	210.5	252.6	214.7	240.0	226.5	267.8	112.0
87.5°	13.5	11.8	24.4	107.8	86.7	98.5	38.7	128.0	142.3	187.0	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P671645

CATALOG NUMBER: CCP-SA-1A-727-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3
2.5°	625.7	619.8	608.0	592.9	580.2	564.2	559.2	548.2	533.1	531.4	524.6
5°	589.5	569.3	544.0	512.9	491.8	469.9	451.4	440.4	427.8	426.1	422.7
7.5°	549.9	524.6	482.5	445.5	409.3	374.7	357.9	336.9	322.5	311.6	306.5
10°	512.9	489.3	437.1	386.5	354.5	331.8	311.6	289.7	272.0	258.5	253.5
12.5°	488.4	460.6	404.2	356.2	332.6	306.5	283.8	260.2	237.5	219.8	210.5
15°	477.5	451.4	394.1	341.1	306.5	270.3	244.2	220.6	192.8	180.2	176.0
17.5°	503.6	464.9	390.7	323.4	274.5	233.3	201.3	176.0	155.8	143.2	138.1
20°	537.3	489.3	396.6	302.3	244.2	197.9	162.5	135.6	122.1	112.8	112.0
22.5°	580.2	525.5	405.9	287.2	210.5	159.2	127.2	111.2	101.9	101.1	99.4
25°	656.9	591.2	421.1	267.0	183.6	131.4	108.6	99.4	95.2	92.6	94.3
27.5°	722.5	634.1	432.0	254.3	172.6	123.8	105.3	95.2	90.9	90.1	90.9
30°	761.3	673.7	428.6	230.7	150.7	117.9	112.0	108.6	100.2	93.5	93.5
32.5°	796.7	699.0	427.8	209.7	128.8	98.5	93.5	90.9	96.0	99.4	96.8
35°	845.5	738.5	425.3	197.9	119.6	90.9	82.5	75.8	72.4	70.7	73.3
37.5°	897.7	765.5	418.5	196.2	114.5	86.7	80.0	73.3	69.9	68.2	67.4
40°	955.0	794.1	411.0	187.8	112.0	84.2	77.5	71.6	67.4	64.8	64.0
42.5°	992.0	816.9	403.4	183.6	107.0	82.5	74.9	69.9	65.7	62.3	62.3
45°	1013.1	843.8	395.8	179.4	101.1	83.4	74.9	68.2	63.2	61.5	59.8
47.5°	1022.3	864.0	393.3	172.6	96.0	80.0	73.3	66.5	61.5	58.1	57.3
50°	1046.8	907.0	402.5	167.6	90.1	76.6	77.5	65.7	60.6	56.4	55.6
52.5°	1061.1	941.5	422.7	160.0	85.9	72.4	75.8	64.0	58.1	53.9	53.9
55°	1113.3	998.8	444.6	154.1	80.8	66.5	69.9	60.6	53.9	51.4	51.4
57.5°	1179.8	1059.4	463.2	151.6	77.5	62.3	62.3	58.9	51.4	48.0	47.2
60°	1226.1	1109.1	474.1	149.9	74.1	58.1	55.6	58.9	48.8	45.5	44.6
62.5°	1231.2	1080.5	463.2	149.1	73.3	53.9	50.5	56.4	46.3	42.9	41.3
65°	1199.2	1022.3	432.9	145.7	72.4	49.7	47.2	48.8	42.9	40.4	38.7
67.5°	1135.2	928.0	389.1	144.0	71.6	46.3	42.9	42.1	39.6	37.1	35.4
70°	986.1	805.1	337.7	136.4	69.9	43.8	38.7	37.9	35.4	33.7	32.8
72.5°	827.8	658.5	278.7	126.3	66.5	39.6	35.4	33.7	32.8	30.3	29.5
75°	634.1	507.0	223.2	112.0	58.1	35.4	31.2	29.5	28.6	26.9	26.1
77.5°	445.5	377.3	165.1	90.9	48.8	32.0	27.8	26.1	25.3	22.7	22.7
80°	302.3	264.4	112.0	63.2	37.9	26.1	24.4	22.7	21.1	19.4	19.4
82.5°	187.8	185.3	80.8	41.3	27.8	21.1	19.4	19.4	16.8	15.2	15.2
85°	85.9	113.7	56.4	28.6	21.1	16.0	16.0	15.2	13.5	10.9	10.9
87.5°	26.9	37.9	29.5	12.6	11.8	9.3	9.3	8.4	8.4	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P671645

CATALOG NUMBER: CCP-SA-1A-727-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3
2.5°	531.4	530.5	530.5	527.2	535.6	535.6	540.6	536.4	539.0	539.8	546.5
5°	421.9	428.6	433.7	443.8	449.7	452.2	452.2	459.0	456.4	461.5	471.6
7.5°	309.1	317.5	332.6	345.3	355.4	358.7	357.9	359.6	362.1	356.2	357.9
10°	250.1	244.2	249.3	261.1	270.3	281.3	272.8	272.0	274.5	272.0	277.1
12.5°	208.8	202.1	197.9	197.9	204.6	209.7	207.2	211.4	220.6	223.2	229.1
15°	169.3	163.4	160.0	155.8	162.5	164.2	166.7	172.6	179.4	182.7	189.5
17.5°	135.6	135.6	135.6	132.2	134.7	137.3	138.1	145.7	146.5	149.9	152.4
20°	111.2	113.7	117.9	119.6	122.1	122.1	120.4	124.6	121.3	123.8	125.5
22.5°	100.2	103.6	105.3	106.1	109.5	110.3	106.1	107.0	107.8	105.3	106.1
25°	94.3	96.0	94.3	95.2	96.0	94.3	95.2	96.8	96.0	97.7	96.8
27.5°	91.8	90.1	89.3	88.4	88.4	86.7	87.6	87.6	89.3	90.1	90.1
30°	91.8	89.3	85.9	83.4	83.4	80.8	82.5	84.2	85.1	86.7	86.7
32.5°	94.3	89.3	83.4	80.8	78.3	76.6	78.3	80.8	84.2	85.1	85.9
35°	74.9	77.5	76.6	73.3	72.4	72.4	71.6	71.6	69.1	69.1	68.2
37.5°	67.4	66.5	68.2	69.1	69.9	67.4	67.4	64.0	63.2	64.0	64.0
40°	63.2	63.2	63.2	65.7	66.5	64.8	62.3	60.6	60.6	60.6	61.5
42.5°	61.5	59.8	58.9	60.6	63.2	61.5	58.9	58.1	58.1	58.9	58.9
45°	58.9	58.1	57.3	56.4	59.8	57.3	56.4	55.6	55.6	55.6	56.4
47.5°	56.4	55.6	53.9	53.9	54.7	53.9	53.1	53.1	53.1	54.7	54.7
50°	54.7	53.9	52.2	52.2	52.2	52.2	51.4	51.4	51.4	52.2	53.1
52.5°	52.2	51.4	50.5	49.7	49.7	49.7	49.7	49.7	49.7	50.5	51.4
55°	49.7	48.8	48.0	48.0	48.8	48.8	48.0	48.8	48.0	48.8	49.7
57.5°	47.2	46.3	45.5	46.3	47.2	46.3	46.3	46.3	46.3	46.3	47.2
60°	43.8	43.8	43.8	43.8	45.5	45.5	45.5	45.5	43.8	44.6	45.5
62.5°	42.1	41.3	41.3	42.1	42.9	42.9	43.8	42.9	42.1	42.9	42.9
65°	38.7	38.7	38.7	39.6	39.6	40.4	40.4	40.4	39.6	40.4	40.4
67.5°	36.2	36.2	36.2	36.2	37.9	37.9	37.9	37.9	37.1	37.1	37.9
70°	32.0	32.8	32.0	33.7	35.4	34.5	35.4	35.4	34.5	33.7	35.4
72.5°	29.5	29.5	29.5	29.5	32.0	32.0	32.0	32.8	32.0	31.2	32.0
75°	26.1	26.1	26.1	26.9	28.6	28.6	28.6	28.6	28.6	27.8	27.8
77.5°	22.7	23.6	22.7	23.6	25.3	24.4	25.3	26.1	25.3	24.4	24.4
80°	19.4	19.4	19.4	20.2	21.1	21.1	21.1	21.9	21.1	20.2	20.2
82.5°	15.2	15.2	16.0	16.0	16.8	16.8	16.8	17.7	16.8	16.0	16.0
85°	11.8	11.8	11.8	12.6	12.6	13.5	13.5	14.3	14.3	13.5	13.5
87.5°	7.6	6.7	7.6	7.6	8.4	8.4	7.6	6.7	7.6	6.7	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P671645

CATALOG NUMBER: CCP-SA-1A-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3	606.3
2.5°	553.3	568.4	579.4	587.0	597.9	619.0	627.4	642.5	646.8	649.3
5°	475.8	491.8	515.4	532.2	551.6	591.2	621.5	644.2	654.3	663.6
7.5°	373.1	394.1	418.5	440.4	472.4	521.3	560.9	608.0	625.7	635.0
10°	291.4	310.7	337.7	364.6	409.3	450.5	507.0	549.9	574.3	581.1
12.5°	245.9	268.6	300.6	333.5	361.3	408.4	465.7	528.0	550.8	555.0
15°	208.8	240.0	272.8	306.5	338.5	379.8	441.3	517.1	550.8	555.0
17.5°	172.6	200.4	239.2	275.4	312.4	368.9	445.5	526.3	560.0	572.6
20°	137.3	164.2	194.5	240.0	290.5	350.3	454.7	557.5	602.1	615.6
22.5°	113.7	125.5	155.0	198.7	258.5	337.7	464.0	606.3	653.5	658.5
25°	99.4	107.8	126.3	167.6	233.3	329.3	485.9	662.8	723.4	723.4
27.5°	92.6	96.0	108.6	145.7	215.6	321.7	507.8	725.1	781.5	793.3
30°	90.9	99.4	106.1	129.7	196.2	300.6	528.0	773.9	832.0	832.9
32.5°	89.3	87.6	92.6	112.8	172.6	278.7	544.9	823.6	869.1	871.6
35°	69.9	73.3	81.7	99.4	155.0	262.7	553.3	850.5	916.2	918.8
37.5°	65.7	69.9	76.6	91.8	143.2	249.3	555.8	902.8	965.9	971.0
40°	64.0	67.4	72.4	85.1	133.9	232.4	560.9	956.7	1039.2	1032.4
42.5°	60.6	64.8	69.9	81.7	126.3	219.8	561.7	986.1	1077.9	1077.9
45°	59.8	62.3	68.2	81.7	117.9	208.8	548.2	1015.6	1122.6	1109.1
47.5°	56.4	61.5	66.5	79.2	107.8	197.9	532.2	1030.8	1128.5	1124.2
50°	55.6	60.6	69.1	74.9	101.9	192.8	528.9	1068.7	1140.2	1139.4
52.5°	53.9	58.9	71.6	71.6	94.3	186.1	544.9	1085.5	1142.8	1149.5
55°	51.4	58.9	66.5	65.7	87.6	177.7	562.5	1129.3	1187.4	1185.7
57.5°	49.7	57.3	63.2	59.8	80.0	171.8	588.6	1171.4	1241.3	1229.5
60°	47.2	57.3	56.4	55.6	74.1	166.7	610.5	1179.8	1253.1	1260.7
62.5°	45.5	59.8	49.7	51.4	69.1	164.2	601.3	1116.7	1237.1	1243.8
65°	43.8	51.4	45.5	47.2	67.4	159.2	565.1	1040.9	1168.0	1197.5
67.5°	40.4	42.1	42.1	43.8	65.7	147.4	491.0	904.4	1062.8	1078.8
70°	37.1	37.9	37.9	40.4	64.0	133.9	405.1	782.3	922.1	952.4
72.5°	33.7	33.7	33.7	37.1	58.9	123.0	333.5	601.3	766.3	787.4
75°	29.5	29.5	29.5	32.8	53.1	112.0	262.7	447.2	564.2	594.5
77.5°	26.1	26.1	25.3	29.5	46.3	90.9	189.5	315.8	397.5	422.7
80°	21.9	21.1	21.1	23.6	36.2	65.7	122.1	223.2	277.1	288.0
82.5°	17.7	16.8	16.0	17.7	26.1	41.3	75.8	155.8	177.7	171.0
85°	16.8	17.7	14.3	13.5	18.5	26.9	48.0	96.0	80.0	80.0
87.5°	6.7	5.9	5.9	5.1	9.3	10.1	21.1	17.7	13.5	13.5
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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