

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: McGRAW-EDISON

Report Number: P271587

Luminaire Tested: **ISS-AF-600-LED-E1-T2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-600-LED-E1-T2-7027-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4725 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

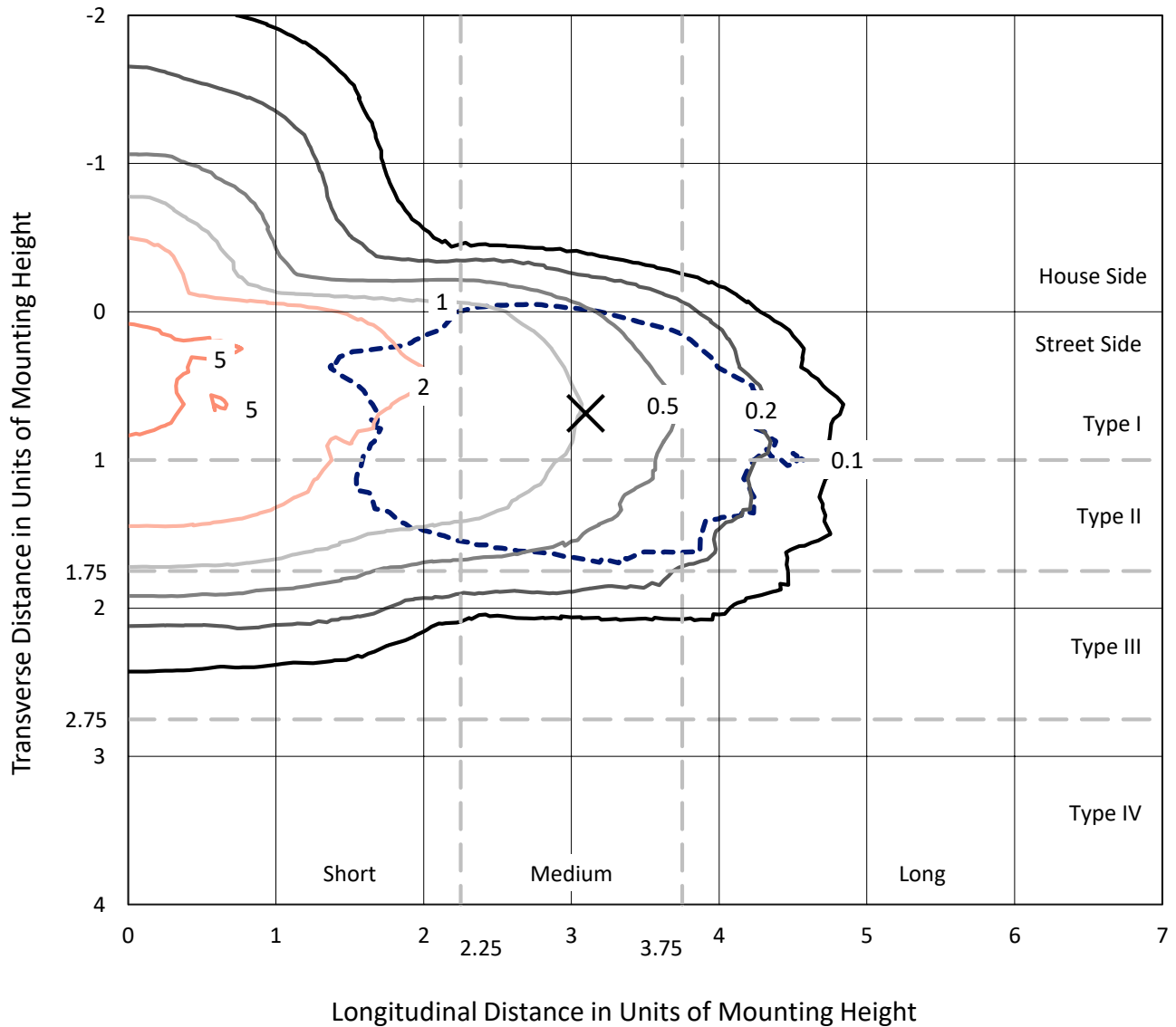
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

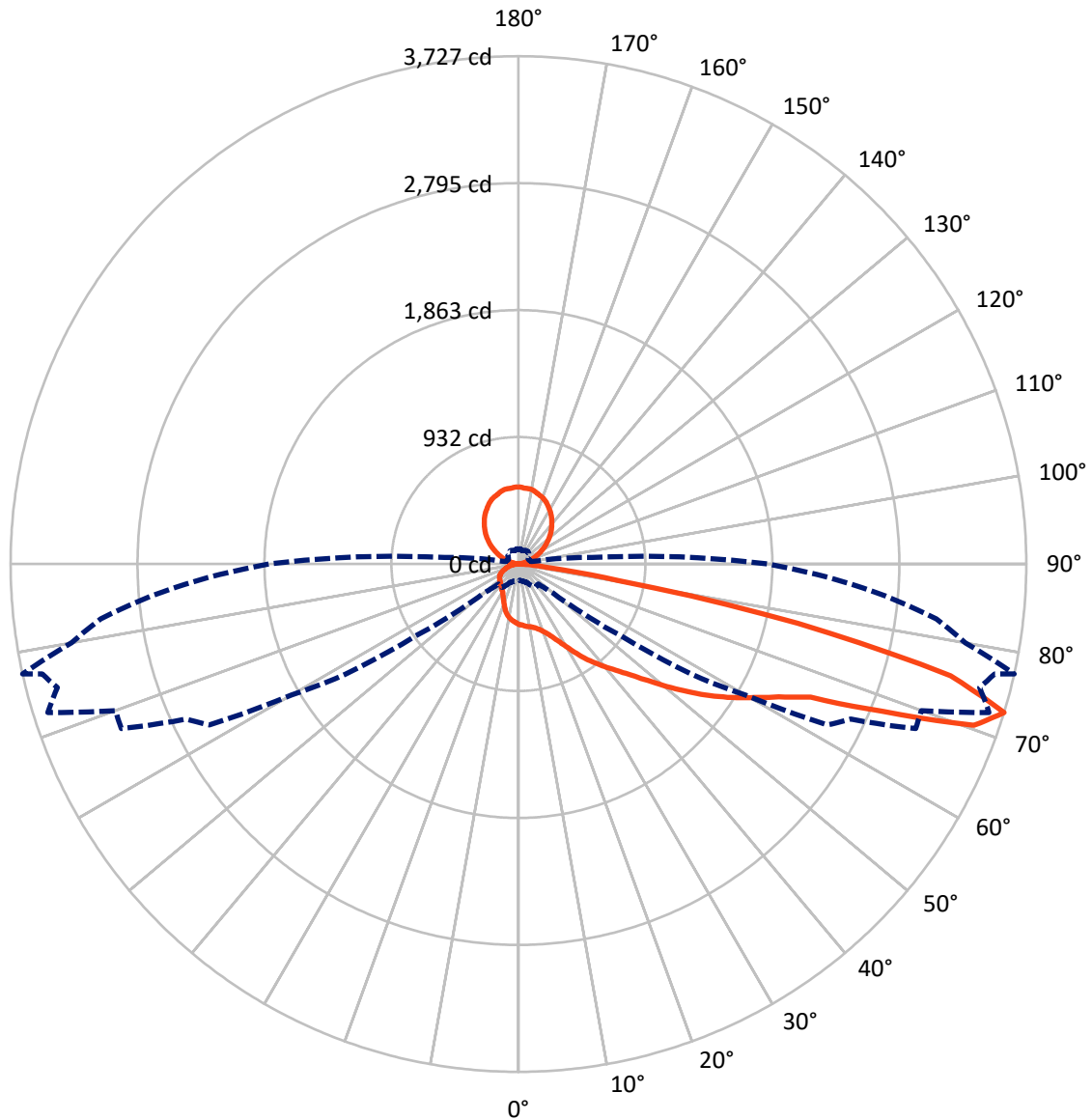
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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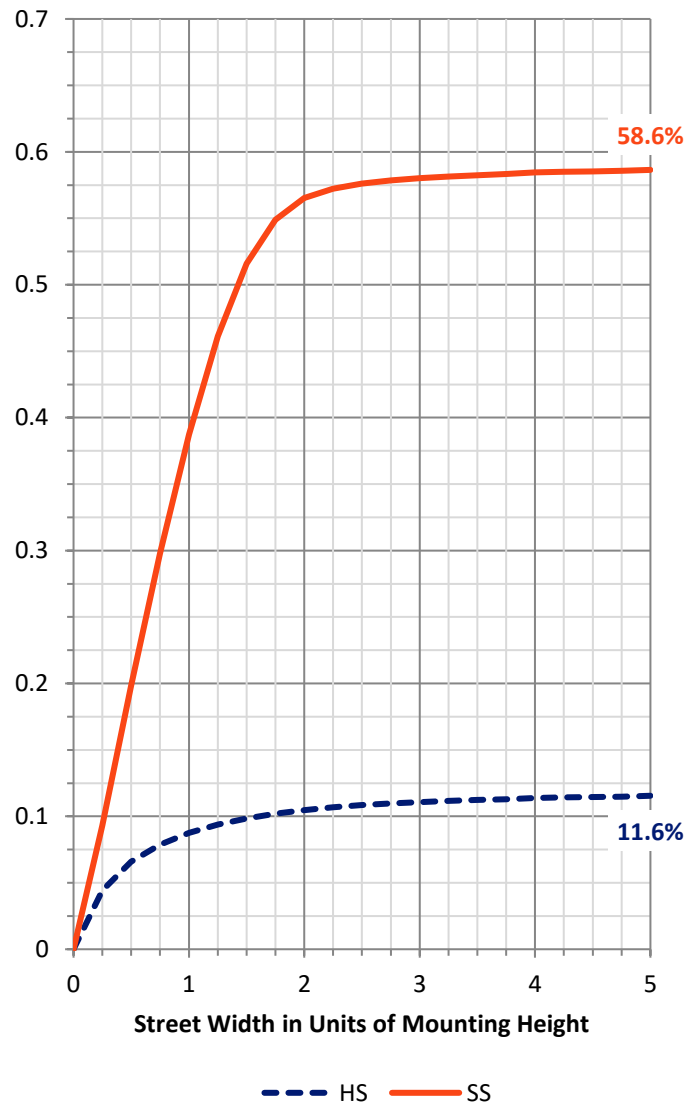
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.0	699.9	1250.9
	% Fixture	11.7	14.8	26.5
Street Side	Lumens	2774.3	699.9	3474.1
	% Fixture	58.7	14.8	73.5
Total	Lumens	3325.2	1399.8	4725.0
	% Fixture	70.4	29.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	0.9
10°-20°	126.4	2.7
20°-30°	224.5	4.8
30°-40°	355.7	7.5
40°-50°	533.5	11.3
50°-60°	691.4	14.6
60°-70°	785.6	16.6
70°-80°	521.3	11.0
80°-90°	45.6	1.0
90°-100°	4.7	0.1
100°-110°	67.7	1.4
110°-120°	150.2	3.2
120°-130°	219.7	4.6
130°-140°	260.7	5.5
140°-150°	264.3	5.6
150°-160°	226.8	4.8
160°-170°	152.2	3.2
170°-180°	53.3	1.1
0°-90°	3325.2	70.4
0°-180°	4725.0	100.0

Coefficient of Utilization



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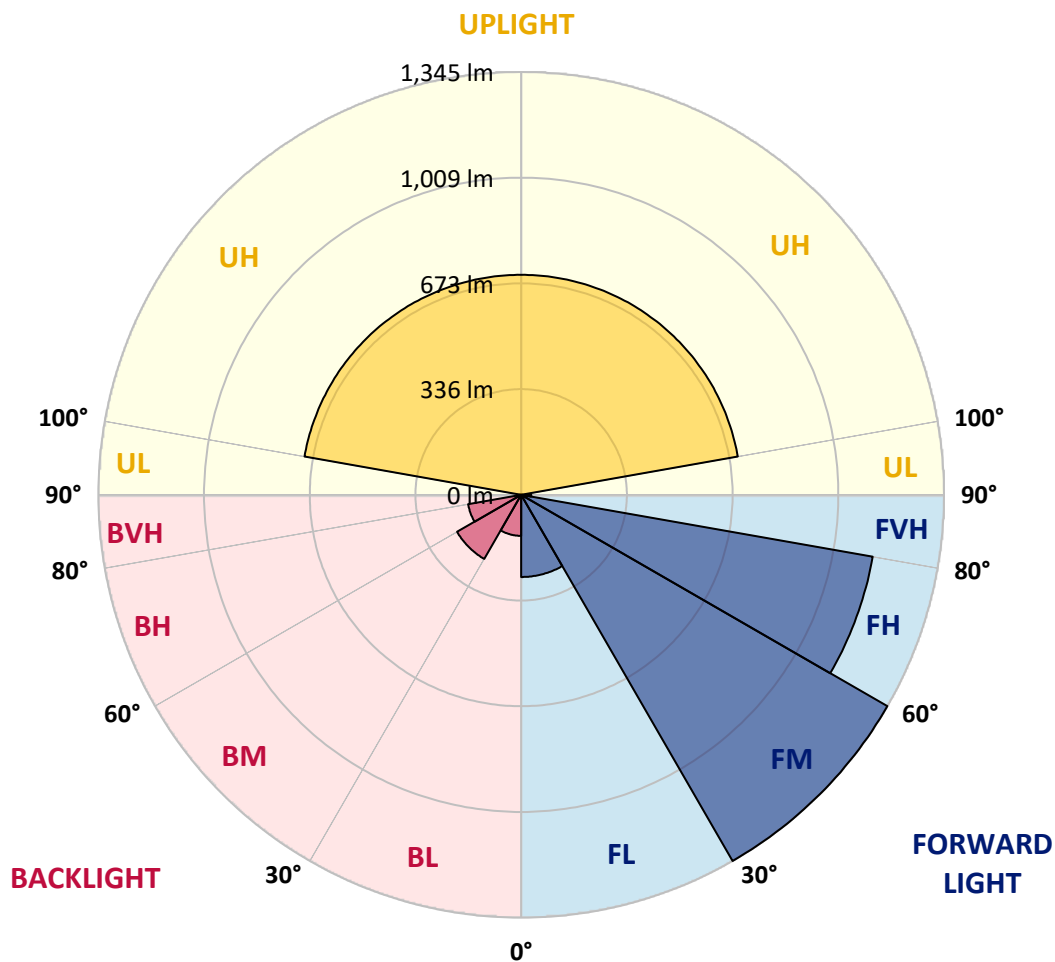
CATALOG NUMBER: ISS-AF-600-LED-E1-T2-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.6	5.5			
FM (30°-60°)	1345.2	28.5			
FH (60°-80°)	1135.6	24.0			G1/1800
FVH (80°-90°)	31.9	0.7			G1/100
BL (0°-30°)	130.5	2.8	B1/500		
BM (30°-60°)	235.4	5.0	B1/1000		
BH (60°-80°)	171.3	3.6	B1/500		G1/500
BVH (80°-90°)	13.7	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	699.9	14.8		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	481.0	478.8	477.6	475.3	473.1	472.0	468.6	466.4	469.7	468.6	468.6
5°	516.9	514.5	511.2	507.9	503.4	500.1	496.7	493.3	495.5	493.3	491.0
7.5°	546.0	543.7	539.3	535.9	531.4	526.9	522.5	521.4	519.1	515.8	514.5
10°	562.8	560.6	558.4	556.1	549.3	546.0	540.4	537.1	538.2	533.6	533.6
12.5°	578.5	576.4	575.2	575.2	569.5	566.2	564.0	560.6	562.8	556.1	553.9
15°	593.2	590.8	587.5	590.8	589.7	588.6	587.5	586.3	589.7	583.0	584.1
17.5°	616.7	615.5	608.8	604.3	605.5	608.8	611.0	609.9	609.9	606.5	607.6
20°	653.7	653.7	644.6	636.8	624.5	624.5	625.6	624.5	626.7	628.9	632.4
22.5°	681.6	679.4	676.1	669.3	655.9	644.6	644.6	640.2	643.5	644.6	651.5
25°	717.6	715.3	707.4	707.4	694.0	679.4	677.2	670.5	678.3	663.8	675.0
27.5°	761.2	759.0	749.0	744.4	737.7	719.8	715.3	716.4	724.2	702.9	714.2
30°	816.2	814.0	801.6	789.3	778.1	759.0	756.8	755.7	773.6	749.0	763.5
32.5°	885.7	885.7	872.3	855.5	833.0	807.3	798.2	799.4	824.0	797.2	821.8
35°	991.1	977.6	953.0	927.2	903.7	873.4	861.0	858.8	881.2	854.3	882.3
37.5°	1058.3	1049.4	1027.0	1007.9	982.2	953.0	944.0	947.4	966.5	927.2	967.6
40°	1118.9	1117.9	1103.2	1090.9	1065.1	1035.9	1047.2	1092.0	1142.5	1066.2	1067.4
42.5°	1159.4	1161.5	1160.4	1161.5	1147.0	1116.6	1135.7	1198.5	1284.8	1240.0	1198.5
45°	1166.0	1173.8	1177.2	1199.7	1214.1	1196.4	1206.3	1272.4	1445.1	1514.7	1327.4
47.5°	1182.8	1190.6	1184.0	1210.8	1278.1	1277.0	1317.4	1342.1	1365.5	1376.8	1518.0
50°	1205.3	1219.8	1213.1	1235.5	1290.4	1321.9	1356.6	1388.0	1368.9	1298.3	1336.4
52.5°	1206.3	1223.2	1260.2	1282.6	1336.4	1329.7	1353.3	1336.4	1365.5	1292.8	1329.7
55°	1107.7	1111.0	1218.7	1332.0	1426.1	1407.0	1392.6	1354.4	1391.4	1300.6	1347.6
57.5°	951.8	963.2	1075.2	1265.8	1467.7	1484.4	1480.0	1476.5	1505.6	1384.6	1436.2
60°	780.4	793.8	900.3	1124.5	1381.2	1425.0	1485.5	1522.5	1597.6	1549.5	1634.6
62.5°	486.6	496.7	614.4	894.7	1218.7	1305.1	1393.6	1437.4	1546.2	1568.5	1713.2
65°	232.1	235.4	281.3	486.6	885.7	1048.3	1179.5	1272.4	1405.9	1506.9	1701.9
67.5°	180.5	181.6	198.4	259.0	454.0	562.8	712.0	835.2	977.6	1253.5	1495.7
70°	144.6	144.6	158.1	190.6	281.3	296.0	334.1	375.6	436.1	658.1	854.3
72.5°	121.1	121.1	130.1	150.3	208.6	211.9	209.7	206.3	206.3	260.1	331.8
75°	102.0	100.9	106.4	119.9	154.7	159.2	156.9	149.1	140.1	140.1	158.1
77.5°	82.9	82.9	87.5	94.2	112.1	114.4	114.4	107.7	99.8	100.9	108.8
80°	65.0	65.0	68.5	72.9	78.5	77.3	77.3	70.7	65.0	63.9	68.5
82.5°	47.1	48.1	56.1	52.7	50.5	47.1	47.1	45.9	41.5	38.1	40.3
85°	14.6	15.7	26.9	31.4	25.8	21.3	20.2	16.8	18.0	14.6	16.8
87.5°	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.1	6.4	7.6	8.8	9.8	10.8
100°	7.8	7.8	9.8	13.7	21.6	23.5	25.5	27.5	29.5	29.9	30.5
102.5°	27.5	27.5	31.4	37.3	44.2	45.4	46.6	47.9	49.0	49.2	49.6
105°	53.0	53.0	55.0	59.8	64.8	65.8	66.7	67.7	68.7	68.9	69.2
107.5°	76.5	75.5	78.5	82.5	86.3	87.1	87.9	88.6	89.3	89.8	90.3
110°	99.2	100.1	101.1	104.0	108.0	108.4	109.0	109.4	110.0	110.4	110.9



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CATALOG NUMBER: ISS-AF-600-LED-E1-T2-7027-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	121.7	121.7	123.7	126.6	129.5	130.1	130.5	131.1	131.5	132.1	132.5
115°	143.3	144.3	146.2	148.2	151.2	151.6	152.2	152.6	153.1	153.6	154.1
117.5°	165.8	166.8	168.8	170.8	173.7	174.2	174.7	175.2	175.7	175.9	176.2
120°	189.5	191.4	192.3	194.3	197.3	197.4	197.8	198.1	198.3	198.7	199.2
122.5°	215.0	216.0	216.9	218.8	221.8	222.0	222.3	222.6	222.8	223.0	223.3
125°	239.5	241.5	242.5	243.4	246.3	246.6	246.9	247.1	247.3	247.6	247.8
127.5°	262.0	264.0	265.0	267.0	269.0	269.4	269.9	270.4	270.9	271.4	271.8
130°	284.7	286.6	287.5	288.5	292.5	292.7	292.9	293.3	293.5	293.9	294.5
132.5°	307.2	308.2	311.2	312.1	315.0	315.2	315.6	315.8	316.0	316.8	317.6
135°	329.8	330.8	332.7	334.7	338.6	338.6	338.6	338.6	338.6	339.4	340.1
137.5°	352.3	353.3	356.3	357.3	360.2	360.2	360.2	360.2	360.2	360.7	361.2
140°	375.0	375.9	377.8	378.8	380.8	381.0	381.3	381.6	381.8	382.0	382.3
142.5°	396.5	398.5	400.5	399.5	402.4	402.4	402.4	402.4	402.4	402.9	403.4
145°	417.2	418.1	420.0	420.0	423.0	423.2	423.6	423.8	424.0	424.4	425.0
147.5°	435.8	435.8	438.7	439.7	443.7	443.9	444.1	444.4	444.6	444.8	445.1
150°	452.5	453.5	455.4	456.4	460.3	460.5	460.8	461.1	461.3	461.5	461.8
152.5°	470.2	471.1	474.0	473.0	476.0	476.2	476.6	476.8	477.0	477.2	477.4
155°	489.8	490.7	492.7	491.7	493.7	493.7	493.7	493.7	493.7	493.9	494.2
157.5°	503.5	505.5	507.5	506.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4
160°	515.3	517.2	519.2	519.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
162.5°	525.1	526.0	529.0	528.0	531.0	531.0	531.0	531.0	531.0	531.2	531.4
165°	535.9	536.8	538.8	537.8	541.8	541.8	541.8	541.8	541.8	541.9	542.3
167.5°	544.7	545.7	548.7	547.7	550.6	550.4	550.1	549.9	549.7	549.7	549.7
170°	551.6	552.5	555.5	554.5	556.5	556.3	556.1	555.7	555.5	555.3	555.1
172.5°	554.5	555.5	558.5	556.5	558.5	558.3	557.9	557.7	557.5	557.7	557.9
175°	556.5	558.5	559.5	558.5	561.4	561.4	561.4	561.4	561.4	561.6	561.9
177.5°	561.4	562.4	564.3	563.3	567.3	567.1	566.8	566.5	566.3	566.3	566.3
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	463.1	465.3	460.8	460.8	455.2	458.6	452.9	454.0	448.4	450.7	450.7
5°	485.4	486.6	481.0	478.8	473.1	473.1	467.5	467.5	459.8	461.9	459.8
7.5°	506.7	506.7	501.2	496.7	491.0	488.9	482.1	478.8	472.0	470.9	467.5
10°	524.7	524.7	516.9	512.3	505.7	502.3	493.3	489.9	482.1	476.6	473.1
12.5°	547.2	544.9	535.9	531.4	520.2	519.1	505.7	503.4	492.2	488.9	483.2
15°	574.1	576.4	561.7	560.6	544.9	543.7	525.8	524.7	507.9	506.7	498.9
17.5°	603.2	607.6	595.4	594.2	575.2	575.2	553.9	552.7	530.3	529.2	519.1
20°	628.9	634.7	626.7	628.9	612.1	613.3	589.7	589.7	558.4	556.1	547.2
22.5°	652.5	663.8	657.0	669.3	652.5	660.3	628.9	634.7	597.6	593.2	579.7
25°	676.1	690.7	688.4	708.5	696.3	709.8	677.2	688.4	640.2	643.5	625.6
27.5°	699.6	718.6	716.4	745.5	741.1	768.1	739.9	752.3	699.6	702.9	682.8
30°	738.9	760.1	752.3	782.5	782.5	826.4	805.0	824.0	765.7	772.5	749.0
32.5°	791.6	816.2	792.7	831.9	829.7	886.9	870.0	902.5	845.3	854.3	825.1
35°	848.7	888.0	849.9	893.5	886.9	946.3	935.0	987.8	927.2	937.3	908.2
37.5°	923.9	970.9	920.4	958.6	928.3	996.7	990.0	1061.8	1000.0	1025.9	991.1
40°	1012.4	1049.4	986.6	1019.1	968.7	1039.2	1028.1	1126.7	1069.6	1111.0	1079.8
42.5°	1094.2	1120.1	1037.0	1077.4	1016.9	1088.7	1068.4	1187.3	1138.1	1201.9	1167.2
45°	1168.2	1197.4	1087.5	1132.3	1065.1	1143.6	1108.9	1245.6	1211.9	1308.4	1273.7
47.5°	1273.7	1231.0	1133.5	1191.8	1116.6	1203.0	1157.1	1314.0	1301.6	1438.5	1398.1
50°	1238.9	1266.9	1171.6	1232.1	1163.8	1269.1	1218.7	1395.9	1399.2	1579.7	1556.1
52.5°	1242.3	1289.3	1200.8	1284.8	1218.7	1361.1	1308.4	1494.5	1510.2	1716.5	1684.1
55°	1262.4	1332.0	1244.5	1357.7	1296.1	1463.1	1426.1	1601.0	1627.9	1845.5	1826.3
57.5°	1313.0	1409.4	1319.6	1467.7	1403.7	1579.7	1546.2	1710.9	1747.9	1974.4	1968.7
60°	1506.9	1621.2	1464.2	1627.9	1542.7	1712.0	1667.2	1826.3	1863.4	2097.7	2112.3
62.5°	1723.2	1921.7	1828.6	1999.1	1773.6	1945.2	1812.9	1968.7	1971.0	2230.0	2275.9
65°	1779.4	2084.2	2163.8	2481.1	2363.4	2539.4	2186.3	2290.6	2156.0	2471.1	2537.3
67.5°	1758.1	2131.3	2352.2	2709.8	2843.2	3150.4	3091.1	3055.1	2743.5	2970.0	3049.6
70°	1290.4	1686.2	2226.6	2589.9	2974.5	3176.2	3495.8	3528.4	3514.9	3483.4	3536.2
72.5°	587.5	921.6	1506.9	1921.7	2556.3	2692.0	3154.9	3146.0	3621.3	3503.6	3586.7
75°	231.0	355.4	717.6	1072.9	1768.0	1935.1	2459.8	2329.8	2922.8	2750.3	2927.4
77.5°	126.8	159.2	269.1	460.8	965.3	1053.9	1505.6	1288.2	1812.9	1513.6	1573.0
80°	76.3	95.3	123.3	174.9	410.3	433.9	642.4	518.1	741.1	562.8	546.0
82.5°	41.5	51.6	61.6	86.3	152.5	169.3	222.0	199.5	237.7	202.9	198.4
85°	16.8	22.4	23.5	34.8	50.5	58.3	70.7	76.3	93.1	85.2	82.9
87.5°	0.0	1.1	0.0	2.2	0.0	2.2	0.0	3.3	3.3	5.6	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.8	12.8	11.3	9.8	8.4	6.8	6.4	5.9	5.4	4.9	4.7
100°	30.9	31.4	30.9	30.5	29.9	29.5	28.7	27.9	27.3	26.5	26.3
102.5°	49.9	50.0	49.9	49.6	49.2	49.0	48.6	48.1	47.6	47.1	47.3
105°	69.5	69.7	69.7	69.7	69.7	69.7	69.2	68.7	68.2	67.7	68.1
107.5°	90.8	91.3	91.1	90.8	90.5	90.3	90.1	89.8	89.5	89.3	89.5
110°	111.4	111.9	111.9	111.9	111.9	111.9	111.7	111.4	111.1	110.9	111.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
112.5°	132.9	133.5	133.5	133.5	133.5	133.5	133.3	132.9	132.7	132.5	132.9
115°	154.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.5
117.5°	176.4	176.7	176.9	177.1	177.4	177.7	177.4	177.1	176.9	176.7	177.1
120°	199.7	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.6
122.5°	223.6	223.8	223.8	223.8	223.8	223.8	223.9	224.3	224.6	224.8	225.6
125°	248.1	248.3	248.5	248.8	249.1	249.3	249.3	249.3	249.3	249.3	249.9
127.5°	272.4	272.8	272.6	272.4	272.1	271.8	272.1	272.4	272.6	272.8	273.4
130°	294.9	295.5	295.5	295.5	295.5	295.5	295.6	295.9	296.2	296.4	297.0
132.5°	318.2	319.0	319.0	319.0	319.0	319.0	319.2	319.4	319.8	320.0	320.5
135°	340.7	341.5	341.5	341.5	341.5	341.5	341.7	342.1	342.3	342.5	343.0
137.5°	361.7	362.2	362.2	362.2	362.2	362.2	362.4	362.6	362.9	363.2	363.9
140°	382.6	382.8	382.8	382.8	382.8	382.8	383.3	383.8	384.3	384.7	385.6
142.5°	403.9	404.3	404.3	404.3	404.3	404.3	404.6	404.9	405.1	405.3	405.9
145°	425.4	426.0	425.8	425.4	425.2	425.0	425.2	425.4	425.8	426.0	426.5
147.5°	445.4	445.6	445.1	444.6	444.1	443.7	443.9	444.1	444.4	444.6	445.2
150°	462.1	462.3	461.8	461.3	460.8	460.3	460.3	460.3	460.3	460.3	461.1
152.5°	477.8	478.0	477.8	477.4	477.2	477.0	477.0	477.0	477.0	477.0	477.6
155°	494.4	494.7	494.4	494.2	493.9	493.7	493.9	494.2	494.4	494.7	495.2
157.5°	509.4	509.4	508.9	508.4	507.9	507.5	507.6	507.9	508.2	508.4	509.4
160°	522.2	522.2	521.6	521.2	520.7	520.2	520.2	520.2	520.2	520.2	520.7
162.5°	531.8	532.0	531.4	531.0	530.4	530.0	529.6	529.0	528.6	528.0	528.5
165°	542.6	542.8	541.9	541.3	540.6	539.8	539.3	538.8	538.4	537.8	538.3
167.5°	549.7	549.7	549.1	548.7	548.1	547.7	547.9	548.1	548.4	548.7	549.4
170°	554.7	554.5	554.3	554.1	553.7	553.5	554.1	554.5	555.1	555.5	556.5
172.5°	558.3	558.5	557.9	557.5	556.9	556.5	556.7	556.9	557.3	557.5	558.0
175°	562.2	562.4	561.6	560.9	560.3	559.5	558.9	558.5	557.9	557.5	558.0
177.5°	566.3	566.3	565.6	564.9	564.1	563.3	563.3	563.3	563.3	563.3	564.0
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	447.4	450.7	446.2	446.2	440.6	444.0	440.6	437.3	431.6	432.7	424.9
5°	455.2	457.5	451.8	449.6	446.2	445.1	438.4	431.6	423.8	423.8	414.8
7.5°	463.1	463.1	455.2	455.2	447.4	445.1	435.0	423.8	412.6	411.4	397.9
10°	467.5	466.4	456.2	456.2	445.1	444.0	431.6	414.8	399.2	394.6	375.6
12.5°	476.6	475.3	463.1	460.8	446.2	446.2	428.3	405.9	383.5	375.6	348.7
15°	487.7	488.9	474.2	470.9	454.0	452.9	428.3	394.6	364.4	352.0	319.5
17.5°	505.7	506.7	486.6	483.2	463.1	459.8	429.4	381.2	338.6	325.2	296.0
20°	529.2	525.8	498.9	497.8	470.9	467.5	428.3	361.0	312.8	299.3	273.5
22.5°	558.4	555.0	520.2	516.9	485.4	479.9	427.1	339.6	289.3	274.7	257.8
25°	598.7	594.2	551.6	547.2	507.9	498.9	426.1	317.3	269.1	257.8	247.8
27.5°	649.1	640.2	588.6	584.1	531.4	520.2	421.6	291.5	248.9	241.0	236.5
30°	709.8	701.8	635.7	628.9	562.8	548.2	417.0	268.0	234.3	231.0	227.6
32.5°	781.4	773.6	693.0	685.0	603.2	581.9	409.2	248.9	225.4	225.4	220.8
35°	856.5	849.9	754.6	749.0	648.0	620.0	399.2	232.1	217.5	217.5	213.0
37.5°	923.9	929.5	821.8	817.3	693.0	658.1	387.9	220.8	210.8	208.6	204.1
40°	996.7	1010.1	884.7	888.0	739.9	698.5	374.4	211.9	202.9	200.7	199.5
42.5°	1070.7	1096.5	950.8	963.2	787.1	739.9	364.4	206.3	199.5	195.1	193.9
45°	1162.7	1199.7	1032.6	1056.1	842.0	790.4	361.0	199.5	189.5	183.8	180.5
47.5°	1277.0	1326.3	1133.5	1160.4	914.8	851.0	367.8	197.3	182.7	176.0	169.3
50°	1412.7	1459.7	1253.5	1264.6	996.7	917.1	382.3	200.7	180.5	170.4	160.3
52.5°	1556.1	1592.1	1380.2	1367.8	1081.9	982.2	399.2	201.8	174.9	164.7	152.5
55°	1704.2	1724.4	1497.8	1465.3	1159.4	1047.2	421.6	200.7	170.4	159.2	143.5
57.5°	1848.8	1855.4	1602.1	1570.8	1235.5	1124.5	449.6	197.3	163.7	152.5	135.6
60°	1990.0	2001.2	1717.6	1688.5	1318.5	1224.3	489.9	191.7	154.7	146.9	129.0
62.5°	2144.8	2181.7	1855.4	1860.0	1432.9	1380.2	566.2	185.1	145.7	136.8	118.8
65°	2355.5	2496.7	2083.1	2188.5	1652.6	1673.9	712.0	166.0	133.4	122.2	109.9
67.5°	2883.6	3038.3	2635.9	2678.5	2167.3	2040.5	803.8	141.2	117.7	109.9	102.0
70°	3545.1	3434.1	3148.2	2890.4	2467.6	2097.7	707.4	118.8	104.2	99.8	95.3
72.5°	3726.8	3328.7	3093.3	2706.5	2281.5	1829.8	541.5	102.0	93.1	90.8	87.5
75°	3275.0	2698.7	2712.2	2150.5	1891.4	1394.7	370.0	87.5	80.7	79.6	78.5
77.5°	2094.3	1386.8	1688.5	1062.9	1092.0	645.8	180.5	72.9	69.5	69.5	67.2
80°	744.4	461.9	522.5	335.2	305.0	205.2	97.6	58.3	56.1	57.2	56.1
82.5°	223.0	177.1	173.8	135.6	105.4	86.3	53.8	44.8	42.6	43.7	41.5
85°	89.7	69.5	58.3	44.8	37.0	33.7	29.1	30.3	26.9	29.1	25.8
87.5°	5.6	4.5	3.3	4.5	0.0	2.2	5.6	4.5	1.1	4.5	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.7	4.4	4.1	4.0	4.0	4.0	4.0	4.4	4.7	4.9	5.4
100°	26.3	26.1	25.7	25.5	25.1	24.5	25.5	26.1	26.3	26.5	27.3
102.5°	47.3	47.6	47.9	48.1	47.6	47.1	48.1	47.6	47.3	47.1	47.6
105°	68.2	68.7	69.2	69.7	68.7	67.7	69.7	68.7	68.2	67.7	68.2
107.5°	89.5	89.8	90.1	90.3	89.8	89.3	90.3	89.8	89.5	89.3	89.5
110°	111.1	111.4	111.7	111.9	111.4	110.9	111.9	111.4	111.1	110.9	111.1



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
112.5°	132.9	133.5	133.9	134.5	133.5	132.5	134.5	133.5	132.9	132.5	132.7	0°
115°	155.6	156.0	156.6	157.0	156.6	156.0	157.0	156.0	155.6	155.0	155.0	2.5°
117.5°	177.1	177.7	178.1	178.7	177.7	176.7	178.7	177.7	177.1	176.7	176.9	5°
120°	200.7	201.2	201.7	202.2	201.2	200.2	202.2	201.2	200.7	200.2	200.2	7.5°
122.5°	225.7	226.7	227.7	228.7	228.2	227.7	228.7	226.7	225.7	224.8	224.6	10°
125°	250.1	250.8	251.4	252.2	251.7	251.3	252.2	250.8	250.1	249.3	249.3	12.5°
127.5°	273.6	274.3	275.0	275.8	274.3	272.8	275.8	274.3	273.6	272.8	272.6	15°
130°	297.2	297.9	298.6	299.3	298.3	297.4	299.3	297.9	297.2	296.4	296.2	17.5°
132.5°	320.8	321.4	322.1	322.9	322.0	321.0	322.9	321.4	320.8	320.0	319.8	20°
135°	343.1	343.5	344.1	344.5	344.1	343.5	344.5	343.5	343.1	342.5	342.3	22.5°
137.5°	364.2	365.1	366.1	367.0	366.1	365.1	367.0	365.1	364.2	363.2	362.9	25°
140°	385.7	386.7	387.7	388.7	387.7	386.7	388.7	386.7	385.7	384.7	384.3	27.5°
142.5°	406.1	406.8	407.5	408.3	407.8	407.3	408.3	406.8	406.1	405.3	405.1	30°
145°	426.8	427.4	428.1	428.9	428.0	427.0	428.9	427.4	426.8	426.0	425.8	32.5°
147.5°	445.4	446.1	446.7	447.5	446.1	444.6	447.5	446.1	445.4	444.6	444.4	35°
150°	461.3	462.3	463.3	464.2	462.8	461.3	464.2	462.3	461.3	460.3	460.3	37.5°
152.5°	477.8	478.4	479.2	480.0	478.4	477.0	480.0	478.4	477.8	477.0	477.0	40°
155°	495.4	496.1	496.9	497.6	496.7	495.7	497.6	496.1	495.4	494.7	494.4	42.5°
157.5°	509.6	510.9	512.1	513.3	511.9	510.3	513.3	510.9	509.6	508.4	508.2	45°
160°	520.9	521.6	522.4	523.2	522.2	521.2	523.2	521.6	520.9	520.2	520.2	47.5°
162.5°	528.6	529.0	529.6	530.0	528.6	527.0	530.0	529.0	528.6	528.0	528.6	50°
165°	538.4	538.8	539.3	539.8	538.8	537.8	539.8	538.8	538.4	537.8	538.4	52.5°
167.5°	549.7	550.6	551.6	552.5	551.6	550.6	552.5	550.6	549.7	548.7	548.4	55°
170°	556.7	557.9	559.3	560.5	559.5	558.5	560.5	557.9	556.7	555.5	555.1	57.5°
172.5°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.3	60°
175°	558.3	558.9	559.6	560.5	558.9	557.5	560.5	558.9	558.3	557.5	557.9	62.5°
177.5°	564.1	564.9	565.6	566.3	564.9	563.3	566.3	564.9	564.1	563.3	563.3	65°
180°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	
444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	112.5°	132.9
430.5	422.7	426.1	422.7	424.9	418.3	420.5	414.8	414.8	413.7	408.1	115°	155.0
415.9	408.1	407.0	399.2	400.3	391.3	390.1	380.1	380.1	371.1	354.3	117.5°	177.1
395.7	383.5	382.3	366.6	365.5	353.1	348.7	337.4	336.3	326.3	316.1	120°	200.2
370.0	350.9	347.6	327.4	328.5	315.0	313.9	306.1	306.1	301.7	301.7	122.5°	224.3
340.9	319.5	317.3	301.7	302.7	293.7	294.8	290.4	292.6	294.8	302.7	125°	249.3
313.9	297.1	294.8	284.8	285.9	283.7	287.0	287.0	290.4	296.0	309.5	127.5°	272.4
291.5	276.9	278.0	273.5	278.0	276.9	283.7	282.6	289.3	296.0	312.8	130°	295.9
271.3	263.5	266.9	265.7	271.3	271.3	276.9	278.0	283.7	292.6	311.7	132.5°	319.4
257.8	255.6	259.0	259.0	263.5	264.6	270.2	273.5	276.9	285.9	302.7	135°	342.1
250.0	248.9	252.2	253.4	256.7	257.8	263.5	263.5	269.1	274.7	283.7	137.5°	362.6
238.8	236.5	241.0	241.0	245.6	244.4	251.2	248.9	254.5	256.7	259.0	140°	383.8
231.0	227.6	231.0	229.9	233.2	229.9	233.2	229.9	233.2	233.2	229.9	142.5°	404.9
223.0	219.7	220.8	216.4	219.7	215.2	216.4	211.9	214.2	211.9	213.0	145°	425.4
215.2	210.8	210.8	205.2	205.2	199.5	201.8	197.3	201.8	205.2	204.1	147.5°	444.1
204.1	200.7	200.7	196.2	198.4	196.2	200.7	198.4	199.5	195.1	187.3	150°	460.3
197.3	199.5	198.4	201.8	199.5	196.2	192.9	186.1	185.1	182.7	178.2	152.5°	477.0
187.3	189.5	183.8	188.4	185.1	186.1	183.8	180.5	178.2	176.0	171.6	155°	494.2
172.7	172.7	168.2	174.9	171.6	178.2	176.0	176.0	173.8	170.4	167.1	157.5°	507.9
160.3	161.4	156.9	162.5	160.3	169.3	168.2	171.6	171.6	169.3	160.3	160°	520.2
152.5	150.3	146.9	152.5	151.4	159.2	160.3	167.1	166.0	167.1	159.2	162.5°	529.0
145.7	141.2	137.9	141.2	141.2	148.0	150.3	158.1	159.2	161.4	156.9	165°	538.8
137.9	132.3	130.1	132.3	132.3	139.0	142.4	148.0	151.4	158.1	155.9	167.5°	548.1
131.2	123.3	121.1	123.3	124.4	131.2	134.6	140.1	144.6	153.6	152.5	170°	554.5
123.3	116.6	114.4	117.7	118.8	125.5	129.0	134.6	137.9	148.0	148.0	172.5°	556.9
114.4	108.8	108.8	109.9	112.1	118.8	121.1	129.0	130.1	142.4	143.5	175°	558.5
106.4	103.1	103.1	104.2	106.4	112.1	113.3	121.1	122.2	134.6	137.9	177.5°	563.3
99.8	97.6	97.6	98.6	99.8	104.2	105.4	113.3	115.5	126.8	132.3	180°	565.3
93.1	90.8	89.7	89.7	93.1	96.4	98.6	106.4	107.7	117.7	124.4		
85.2	82.9	82.9	81.8	85.2	87.5	92.0	96.4	98.6	108.8	113.3		
77.3	75.1	75.1	74.0	76.3	80.7	81.8	86.3	87.5	96.4	100.9		
67.2	65.0	65.0	65.0	67.2	68.5	69.5	74.0	76.3	84.1	88.6		
56.1	53.8	55.0	53.8	57.2	52.7	56.1	60.5	62.8	67.2	65.0		
42.6	39.3	40.3	40.3	41.5	38.1	40.3	42.6	44.8	48.1	47.1		
26.9	23.5	25.8	23.5	25.8	22.4	24.6	24.6	26.9	24.6	23.5		
5.6	2.2	5.6	2.2	6.7	0.0	3.3	0.0	2.2	1.1	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
5.9	6.4	6.8	8.4	9.8	11.3	12.8	11.8	10.8	8.8	4.0		
27.9	28.7	29.5	29.9	30.5	30.9	31.4	30.9	30.5	29.5	21.6		
48.1	48.6	49.0	49.2	49.6	49.9	50.0	49.9	49.6	49.0	44.2		
68.7	69.2	69.7	69.7	69.7	69.7	69.7	69.5	69.2	68.7	64.8		
89.8	90.1	90.3	90.5	90.8	91.1	91.3	90.8	90.3	89.3	86.3		
111.4	111.7	111.9	111.9	111.9	111.9	111.9	111.4	110.9	110.0	108.0		

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REPORT NUMBER: P271587
 CATALOG NUMBER: ISS-AF-600

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
133.3	133.5	133.5	133.5	133.5	133.5	132.9	132.5	131.5	129.5	0°	444.0	444.0
155.0	155.0	155.0	155.0	155.0	155.0	154.6	154.1	153.1	151.2	2.5°	402.5	397.9
177.4	177.7	177.4	177.1	176.9	176.7	176.4	176.2	175.7	173.7	5°	345.3	337.4
200.2	200.2	200.2	200.2	200.2	200.2	199.7	199.2	198.3	197.3	7.5°	310.5	308.3
223.9	223.8	223.8	223.8	223.8	223.8	223.6	223.3	222.8	221.8	10°	303.9	307.2
249.3	249.3	249.1	248.8	248.5	248.3	248.1	247.8	247.3	246.3	12.5°	311.7	317.3
272.1	271.8	272.1	272.4	272.6	272.8	272.4	271.8	270.9	269.0	15°	321.8	331.8
295.6	295.5	295.5	295.5	295.5	295.5	294.9	294.5	293.5	292.5	17.5°	329.6	343.1
319.2	319.0	319.0	319.0	319.0	319.0	318.2	317.6	316.0	315.0	20°	330.8	344.2
341.7	341.5	341.5	341.5	341.5	341.5	340.7	340.1	338.6	338.6	22.5°	320.7	329.6
362.4	362.2	362.2	362.2	362.2	362.2	361.7	361.2	360.2	360.2	25°	294.8	299.3
383.3	382.8	382.8	382.8	382.8	382.8	382.6	382.3	381.8	380.8	27.5°	262.3	261.2
404.6	404.3	404.3	404.3	404.3	404.3	403.9	403.4	402.4	402.4	30°	228.7	226.5
425.2	425.0	425.2	425.4	425.8	426.0	425.4	425.0	424.0	423.0	32.5°	216.4	208.6
443.9	443.7	444.1	444.6	445.1	445.6	445.4	445.1	444.6	443.7	35°	197.3	195.1
460.3	460.3	460.8	461.3	461.8	462.3	462.1	461.8	461.3	460.3	37.5°	190.6	209.7
477.0	477.0	477.2	477.4	477.8	478.0	477.8	477.4	477.0	476.0	40°	182.7	206.3
493.9	493.7	493.9	494.2	494.4	494.7	494.4	494.2	493.7	493.7	42.5°	176.0	189.5
507.6	507.5	507.9	508.4	508.9	509.4	509.4	509.4	509.4	509.4	45°	163.7	169.3
520.2	520.2	520.7	521.2	521.6	522.2	522.2	522.2	522.2	522.2	47.5°	158.1	155.9
529.6	530.0	530.4	531.0	531.4	532.0	531.8	531.4	531.0	531.0	50°	153.6	153.6
539.3	539.8	540.6	541.3	541.9	542.8	542.6	542.3	541.8	541.8	52.5°	150.3	148.0
547.9	547.7	548.1	548.7	549.1	549.7	549.7	549.7	549.7	550.6	55°	145.7	143.5
554.1	553.5	553.7	554.1	554.3	554.5	554.7	555.1	555.5	556.5	57.5°	142.4	136.8
556.7	556.5	556.9	557.5	557.9	558.5	558.3	557.9	557.5	558.5	60°	139.0	133.4
558.9	559.5	560.3	560.9	561.6	562.4	562.2	561.9	561.4	561.4	62.5°	136.8	130.1
563.3	563.3	564.1	564.9	565.6	566.3	566.3	566.3	566.3	567.3	65°	133.4	126.8
565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	67.5°	129.0	119.9
										70°	119.9	112.1
										72.5°	111.0	102.0
										75°	97.6	89.7
										77.5°	81.8	72.9
										80°	61.6	56.1
										82.5°	44.8	38.1
										85°	20.2	14.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	13.7	9.8
										102.5°	37.3	31.4
										105°	59.8	55.0
										107.5°	82.5	78.5
										110°	104.0	101.1



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tinued):

175°	180°
444.0	444.0
395.7	394.6
335.2	333.0
308.3	307.2
308.3	308.3
321.8	321.8
337.4	337.4
348.7	349.8
352.0	353.1
335.2	335.2
302.7	302.7
260.1	264.6
222.0	226.5
197.3	200.7
189.5	190.6
208.6	209.7
205.2	207.4
176.0	177.1
158.1	158.1
151.4	150.3
151.4	149.1
155.9	154.7
149.1	149.1
145.7	145.7
142.4	142.4
141.2	140.1
141.2	139.0
139.0	135.6
131.2	122.2
112.1	104.2
90.8	89.7
70.7	71.8
53.8	53.8
39.3	32.5
11.2	11.2
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
7.8	7.8
27.5	27.5
53.0	53.0
75.5	76.5
100.1	99.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
112.5°	126.6	123.7	121.7
115°	148.2	146.2	144.3
117.5°	170.8	168.8	166.8
120°	194.3	192.3	191.4
122.5°	218.8	216.9	216.0
125°	243.4	242.5	241.5
127.5°	267.0	265.0	264.0
130°	288.5	287.5	286.6
132.5°	312.1	311.2	308.2
135°	334.7	332.7	330.8
137.5°	357.3	356.3	353.3
140°	378.8	377.8	375.9
142.5°	399.5	400.5	398.5
145°	420.0	420.0	418.1
147.5°	439.7	438.7	435.8
150°	456.4	455.4	453.5
152.5°	473.0	474.0	471.1
155°	491.7	492.7	490.7
157.5°	506.5	507.5	505.5
160°	519.2	519.2	517.2
162.5°	528.0	529.0	526.0
165°	537.8	538.8	536.8
167.5°	547.7	548.7	545.7
170°	554.5	555.5	552.5
172.5°	556.5	558.5	555.5
175°	558.5	559.5	558.5
177.5°	563.3	564.3	562.4
180°	565.3	565.3	565.3

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180°
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121.7
143.3
165.8
189.5
215.0
239.5
262.0
284.7
307.2
329.8
352.3
375.0
396.5
417.2
435.8
452.5
470.2
489.8
503.5
515.3
525.1
535.9
544.7
551.6
554.5
556.5
561.4
565.3

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