

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: P227666

Luminaire Tested: **ISS-AF-600-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-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-T3-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4613.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

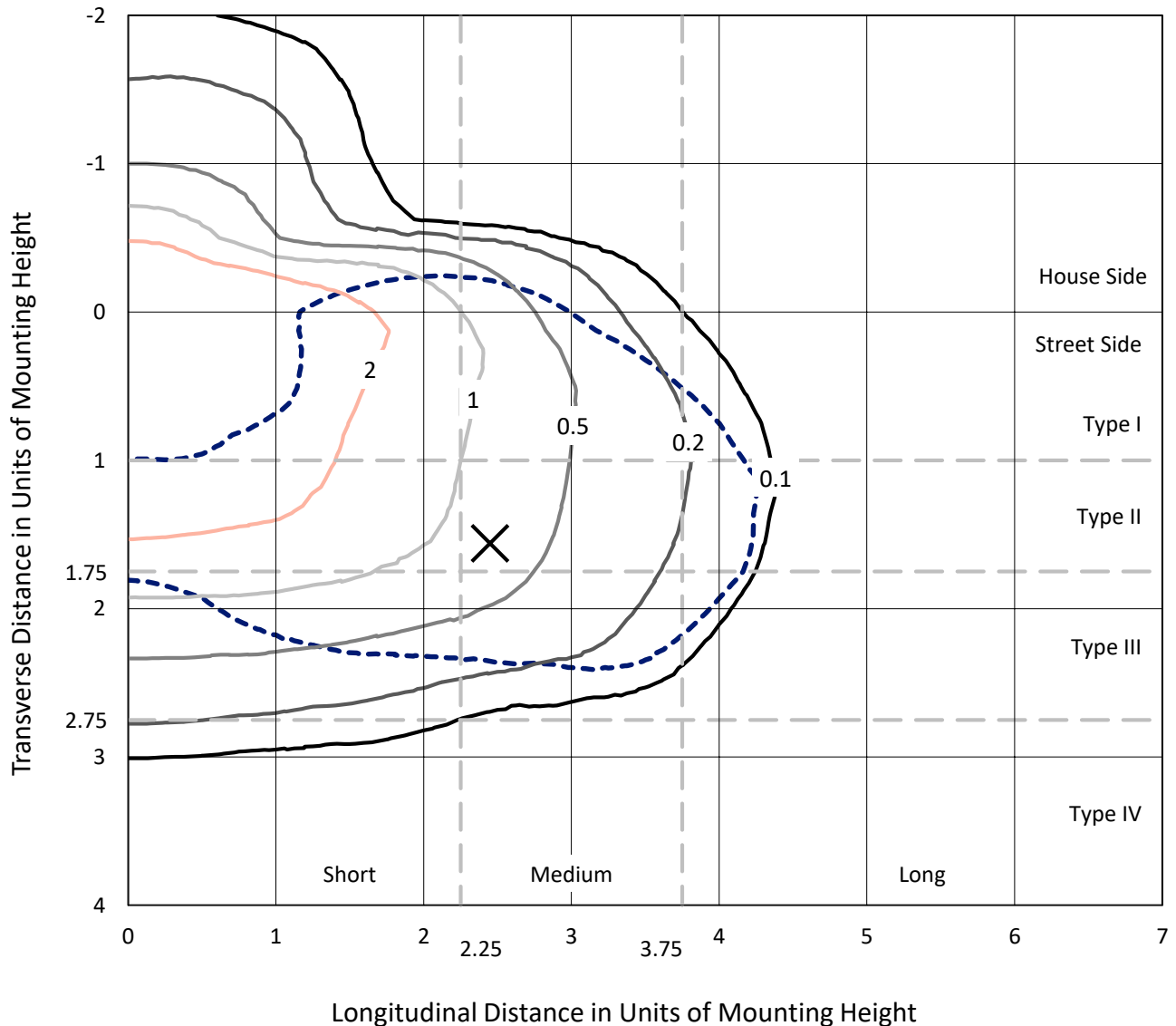
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

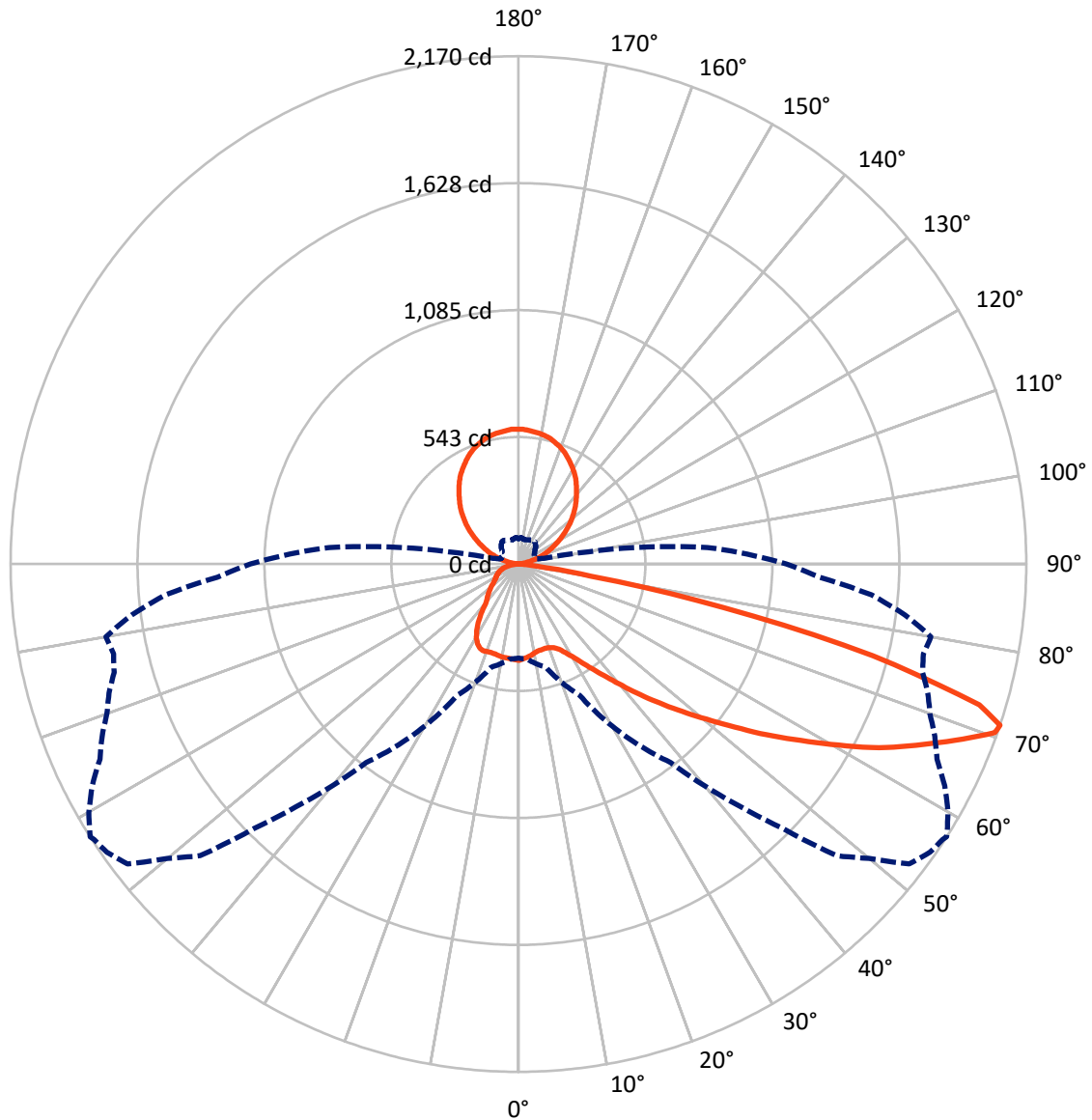
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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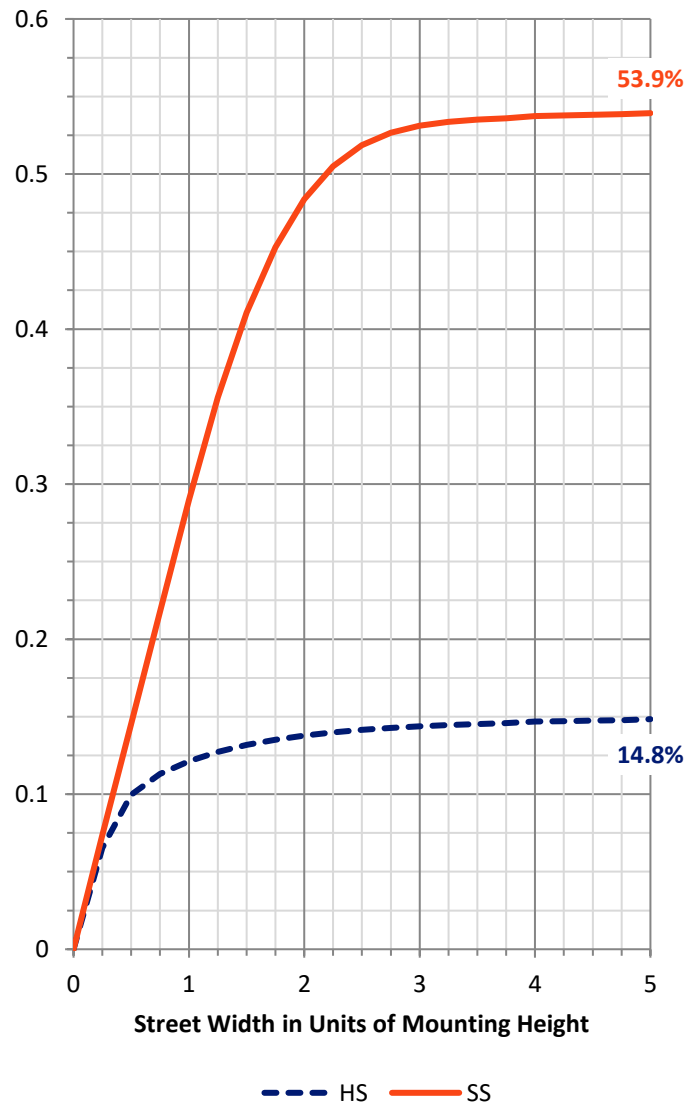
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.8	713.1	1406.9
	% Fixture	15.0	15.5	30.5
Street Side	Lumens	2493.2	713.1	3206.3
	% Fixture	54.0	15.5	69.5
Total	Lumens	3187.0	1426.2	4613.2
	% Fixture	69.1	30.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	0.8
10°-20°	111.6	2.4
20°-30°	185.4	4.0
30°-40°	295.1	6.4
40°-50°	479.4	10.4
50°-60°	718.7	15.6
60°-70°	857.4	18.6
70°-80°	463.1	10.0
80°-90°	37.7	0.8
90°-100°	4.7	0.1
100°-110°	69.0	1.5
110°-120°	153.0	3.3
120°-130°	223.9	4.9
130°-140°	265.6	5.8
140°-150°	269.3	5.8
150°-160°	231.1	5.0
160°-170°	155.1	3.4
170°-180°	54.3	1.2
0°-90°	3187.0	69.1
0°-180°	4613.2	100.0



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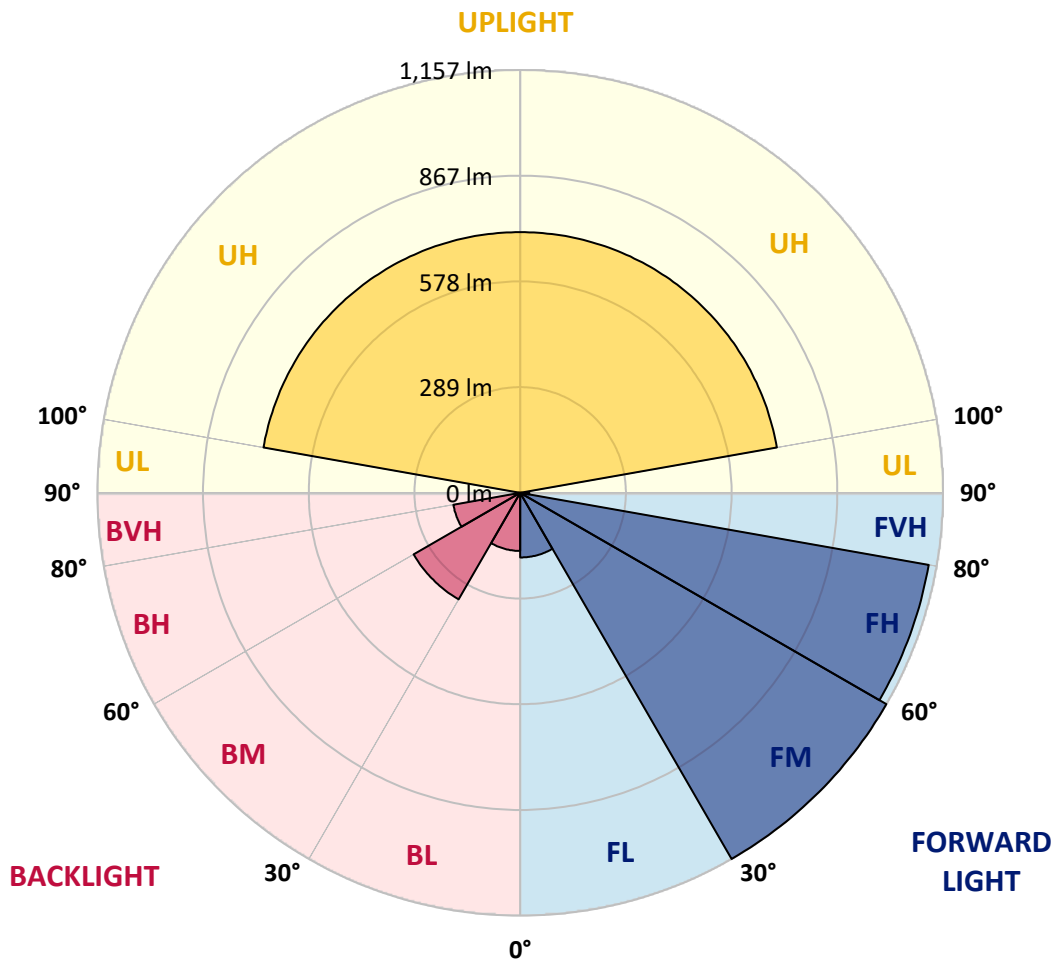
CATALOG NUMBER: ISS-AF-600-LED-E1-T3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.8	3.8			
FM (30°-60°)	1156.7	25.1			
FH (60°-80°)	1134.9	24.6			G1/1800
FVH (80°-90°)	24.8	0.5			G1/100
BL (0°-30°)	158.9	3.4	B1/500		
BM (30°-60°)	336.4	7.3	B1/1000		
BH (60°-80°)	185.6	4.0	B1/500		G1/500
BVH (80°-90°)	12.9	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	15.5		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7
2.5°	411.7	410.7	409.6	409.6	409.6	408.6	405.4	406.4	409.6	407.5	410.7
5°	410.7	408.6	407.5	407.5	407.5	404.3	403.3	402.2	408.6	403.3	407.5
7.5°	399.1	399.1	397.0	399.1	401.2	398.0	395.9	397.0	402.2	397.0	402.2
10°	390.7	388.5	387.5	387.5	389.6	385.4	383.3	385.4	391.7	385.4	392.8
12.5°	387.5	388.5	385.4	385.4	384.3	379.1	379.1	379.1	384.3	379.1	385.4
15°	392.8	391.7	388.5	386.4	383.3	379.1	378.0	379.1	383.3	377.0	384.3
17.5°	400.1	400.1	394.9	389.6	386.4	382.2	382.2	380.1	383.3	379.1	384.3
20°	419.1	415.9	408.6	400.1	391.7	389.6	385.4	385.4	387.5	383.3	386.4
22.5°	451.7	448.6	435.9	420.1	406.4	401.2	399.1	398.0	395.9	393.8	393.8
25°	494.9	489.6	474.9	455.9	432.8	428.6	424.3	421.2	413.8	413.8	408.6
27.5°	541.2	536.0	520.2	499.1	470.7	464.4	459.1	454.9	442.2	442.2	432.8
30°	593.9	587.6	568.6	545.4	512.8	510.7	503.3	497.0	480.2	479.1	466.5
32.5°	654.9	646.5	627.6	597.0	562.3	563.3	551.8	547.5	525.4	526.5	509.6
35°	724.4	715.0	696.0	656.0	620.2	623.4	612.8	605.5	578.1	578.1	560.2
37.5°	798.2	798.2	773.9	727.6	684.4	691.8	679.2	671.8	644.4	648.6	620.2
40°	880.3	885.5	859.2	806.6	762.4	765.5	756.0	747.6	715.0	722.3	691.8
42.5°	966.6	976.1	952.9	898.2	848.7	859.2	843.4	835.0	800.3	816.1	780.3
45°	1091.9	1094.0	1050.9	998.2	957.2	966.6	944.5	941.4	898.2	915.0	879.2
47.5°	1170.9	1165.6	1134.1	1102.5	1078.2	1097.2	1077.2	1071.9	1022.4	1034.0	983.5
50°	1224.6	1227.8	1203.5	1200.4	1204.6	1240.4	1237.2	1226.7	1167.7	1159.3	1096.1
52.5°	1273.0	1259.4	1255.1	1284.6	1329.9	1372.0	1388.9	1375.2	1311.0	1287.8	1226.7
55°	1264.6	1244.6	1266.7	1338.3	1427.8	1493.1	1495.2	1485.7	1427.8	1418.4	1352.0
57.5°	1207.8	1212.0	1257.2	1359.4	1511.0	1578.4	1590.0	1578.4	1531.0	1539.4	1484.7
60°	1128.8	1137.2	1208.8	1340.4	1577.4	1635.3	1640.5	1654.2	1622.6	1644.7	1606.8
62.5°	1010.9	1022.4	1114.0	1293.1	1531.0	1617.4	1665.8	1697.4	1691.1	1741.6	1721.6
65°	928.7	928.7	1018.2	1238.3	1485.7	1599.5	1672.1	1731.1	1739.5	1819.5	1812.2
67.5°	776.0	781.3	858.2	1085.6	1431.0	1559.5	1669.0	1769.0	1819.5	1945.9	1952.2
70°	537.0	541.2	591.8	775.0	1156.2	1265.7	1426.8	1590.0	1741.6	1932.2	2031.2
71°	402.2	407.5	457.0	618.1	979.3	1069.8	1237.2	1406.8	1597.4	1844.8	1956.4
72.5°	196.9	200.1	248.5	397.0	681.3	797.1	894.0	1056.1	1258.3	1541.6	1699.5
75°	91.6	92.7	103.2	143.2	260.1	309.6	352.7	457.0	582.3	830.8	1022.4
77.5°	67.4	67.4	73.7	93.7	134.8	136.9	134.8	137.9	166.4	238.0	358.0
80°	49.5	49.5	53.7	63.2	89.5	89.5	86.3	87.4	84.2	87.4	99.0
82.5°	32.6	32.6	34.7	37.9	54.8	54.8	52.6	52.6	50.5	49.5	53.7
85°	19.0	20.0	21.1	17.9	23.2	22.1	20.0	22.1	21.1	19.0	23.2
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	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0

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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7
2.5°	406.4	409.6	409.6	405.4	408.6	405.4	407.5	404.3	407.5	402.2	408.6
5°	403.3	406.4	406.4	400.1	406.4	400.1	405.4	398.0	405.4	397.0	405.4
7.5°	394.9	402.2	402.2	393.8	401.2	394.9	401.2	393.8	400.1	390.7	401.2
10°	385.4	392.8	393.8	385.4	393.8	386.4	395.9	386.4	395.9	385.4	397.0
12.5°	379.1	387.5	389.6	380.1	390.7	381.2	392.8	382.2	392.8	381.2	394.9
15°	378.0	385.4	387.5	379.1	388.5	378.0	391.7	379.1	392.8	380.1	395.9
17.5°	379.1	385.4	387.5	378.0	387.5	379.1	390.7	380.1	392.8	381.2	395.9
20°	382.2	386.4	386.4	381.2	388.5	381.2	390.7	380.1	393.8	383.3	397.0
22.5°	391.7	392.8	392.8	388.5	392.8	387.5	394.9	387.5	397.0	388.5	401.2
25°	407.5	406.4	404.3	403.3	404.3	401.2	405.4	400.1	409.6	402.2	414.9
27.5°	434.9	430.7	428.6	428.6	427.5	428.6	428.6	426.5	430.7	428.6	437.0
30°	468.6	461.2	458.0	461.2	457.0	461.2	460.1	459.1	463.3	461.2	468.6
32.5°	512.8	500.2	498.1	504.4	495.9	503.3	497.0	500.2	503.3	505.4	509.6
35°	564.4	549.7	547.5	553.9	544.4	554.9	547.5	551.8	553.9	559.1	562.3
37.5°	625.5	607.6	604.4	612.8	600.2	611.8	601.2	613.9	610.7	618.1	621.3
40°	699.2	678.1	670.7	682.3	667.6	677.1	666.5	680.2	677.1	691.8	695.0
42.5°	789.7	759.2	751.8	763.4	741.3	744.5	736.0	751.8	749.7	769.7	772.9
45°	883.4	846.6	836.1	847.6	822.4	828.7	816.1	832.9	831.8	847.6	860.3
47.5°	987.7	942.4	928.7	941.4	910.8	918.2	905.6	923.5	924.5	942.4	955.0
50°	1096.1	1048.8	1030.9	1042.4	1014.0	1019.3	1006.6	1028.8	1027.7	1051.9	1061.4
52.5°	1214.1	1165.6	1152.0	1157.2	1123.5	1129.8	1119.3	1146.7	1140.4	1155.1	1174.1
55°	1344.6	1288.8	1273.0	1288.8	1248.8	1257.2	1243.6	1268.8	1258.3	1277.3	1282.5
57.5°	1478.4	1423.6	1411.0	1422.6	1384.7	1391.0	1373.1	1394.1	1385.7	1398.3	1406.8
60°	1620.5	1571.0	1558.4	1571.0	1534.2	1535.2	1504.7	1526.8	1514.2	1530.0	1526.8
62.5°	1756.4	1714.2	1711.1	1729.0	1682.6	1677.4	1640.5	1656.3	1638.4	1649.0	1636.3
65°	1872.2	1848.0	1852.2	1866.9	1825.9	1813.2	1771.1	1779.5	1753.2	1753.2	1737.4
67.5°	2023.8	1997.5	1997.5	2010.1	1958.5	1925.9	1868.0	1860.6	1817.4	1809.0	1772.2
70°	2150.2	2157.5	2149.1	2159.6	2098.6	2032.2	1955.4	1918.5	1861.7	1834.3	1791.1
71°	2104.9	2147.0	2161.8	2170.2	2119.6	2053.3	1973.3	1925.9	1871.1	1834.3	1787.9
72.5°	1899.6	2001.7	2059.6	2059.6	2065.9	2023.8	1946.9	1895.4	1833.2	1784.8	1741.6
75°	1331.0	1497.3	1572.1	1563.7	1618.4	1637.4	1643.7	1621.6	1586.8	1517.3	1486.8
77.5°	592.8	781.3	894.0	895.0	954.0	1005.6	1046.7	1089.8	1074.0	1040.3	1038.2
80°	134.8	244.3	312.7	315.9	369.6	417.0	445.4	488.6	493.8	445.4	418.0
82.5°	57.9	68.4	77.9	76.9	94.8	113.7	134.8	146.4	141.1	116.9	110.6
85°	24.2	31.6	33.7	31.6	39.0	43.2	50.5	51.6	60.0	53.7	56.9
87.5°	0.0	1.1	1.1	0.0	2.1	0.0	2.1	1.1	5.3	2.1	6.3
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°	12.0	13.0	11.8	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.6	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.6	453.6	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.6	470.6	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.6	518.6	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.6	531.6	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.6	541.6	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.4	552.4	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.6	559.6	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.6	568.6	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.4	572.4	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.4	576.4	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7
2.5°	404.3	409.6	404.3	409.6	406.4	409.6	408.6	409.6	404.3	409.6	403.3
5°	397.0	405.4	398.0	404.3	398.0	405.4	405.4	405.4	398.0	406.4	399.1
7.5°	390.7	400.1	390.7	400.1	393.8	401.2	401.2	404.3	395.9	405.4	394.9
10°	384.3	395.9	384.3	398.0	387.5	399.1	400.1	402.2	390.7	403.3	392.8
12.5°	381.2	395.9	382.2	395.9	383.3	399.1	400.1	402.2	389.6	405.4	391.7
15°	381.2	397.0	382.2	397.0	383.3	399.1	401.2	403.3	389.6	406.4	391.7
17.5°	381.2	397.0	384.3	398.0	385.4	400.1	402.2	404.3	391.7	406.4	393.8
20°	384.3	399.1	386.4	401.2	388.5	403.3	404.3	407.5	393.8	407.5	395.9
22.5°	391.7	404.3	393.8	407.5	398.0	409.6	410.7	413.8	403.3	414.9	405.4
25°	404.3	418.0	409.6	420.1	414.9	424.3	426.5	426.5	422.2	429.6	426.5
27.5°	430.7	441.2	434.9	444.4	441.2	448.6	448.6	449.6	452.8	454.9	458.0
30°	464.4	471.7	469.6	474.9	475.9	480.2	480.2	486.5	499.1	486.5	485.4
32.5°	509.6	513.9	514.9	517.0	521.2	524.4	528.6	536.0	546.5	517.0	507.5
35°	565.4	566.5	569.7	572.8	580.2	582.3	596.0	590.7	590.7	544.4	524.4
37.5°	626.5	626.5	634.9	634.9	652.8	653.9	667.6	640.2	624.4	564.4	534.9
40°	703.4	702.3	711.8	713.9	738.1	739.2	737.1	677.1	643.4	569.7	529.6
42.5°	784.5	787.6	800.3	804.5	822.4	828.7	802.4	702.3	651.8	566.5	511.7
45°	872.9	879.2	895.0	906.6	925.6	918.2	855.0	713.9	642.3	547.5	477.0
47.5°	969.8	976.1	988.7	1010.9	1019.3	1010.9	898.2	718.1	627.6	518.1	426.5
50°	1067.7	1078.2	1096.1	1127.7	1131.9	1110.9	950.8	733.9	616.0	487.5	368.5
52.5°	1178.3	1188.8	1209.9	1262.5	1252.0	1208.8	1013.0	763.4	619.1	468.6	319.1
55°	1295.2	1309.9	1351.0	1402.6	1379.4	1312.0	1081.4	806.6	631.8	448.6	264.3
57.5°	1418.4	1434.1	1487.8	1548.9	1503.6	1413.1	1150.9	840.3	638.1	407.5	204.3
60°	1540.5	1562.6	1632.1	1682.6	1612.1	1499.4	1213.0	862.4	621.3	329.6	157.9
62.5°	1652.1	1687.9	1765.8	1793.2	1680.5	1554.2	1246.7	846.6	552.8	227.4	127.4
65°	1731.1	1777.4	1828.0	1824.8	1667.9	1536.3	1221.4	773.9	411.7	150.6	108.5
67.5°	1764.8	1808.0	1819.5	1765.8	1577.4	1457.3	1130.9	623.4	236.9	112.7	94.8
70°	1777.4	1814.3	1749.0	1619.5	1400.5	1263.6	924.5	397.0	129.5	91.6	82.1
71°	1772.2	1790.1	1665.8	1514.2	1287.8	1144.6	810.8	302.2	110.6	85.3	77.9
72.5°	1700.6	1675.3	1483.6	1315.2	1091.9	946.6	630.7	190.6	90.6	76.9	72.7
75°	1389.9	1276.2	1091.9	932.9	743.4	594.9	342.2	97.9	72.7	66.3	63.2
77.5°	908.7	809.7	658.1	534.9	406.4	308.5	140.0	67.4	57.9	55.8	54.8
80°	324.3	260.1	196.9	172.7	130.6	107.4	68.4	51.6	45.3	46.3	45.3
82.5°	91.6	84.2	72.7	67.4	59.0	57.9	44.2	39.0	35.8	37.9	36.9
85°	45.3	39.0	28.4	27.4	21.1	24.2	22.1	26.3	23.2	24.2	22.1
87.5°	3.2	4.2	1.1	3.2	0.0	3.2	4.2	5.3	1.1	4.2	3.2
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°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2



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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°	
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2	0°
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	2.5°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	7.5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	10°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	12.5°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	15°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	17.5°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	20°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	22.5°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	25°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	27.5°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	30°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	32.5°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	35°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	37.5°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	40°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	42.5°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	45°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	47.5°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	50°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	52.5°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	55°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	57.5°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	60°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	62.5°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	65°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	411.7	110°	113.5
410.7	406.4	411.7	406.4	411.7	408.6	411.7	408.6	411.7	413.8	413.8	112.5°	135.5
408.6	401.2	410.7	405.4	411.7	406.4	410.7	407.5	412.8	414.9	417.0	115°	158.0
407.5	400.1	409.6	402.2	411.7	404.3	410.7	406.4	412.8	414.9	419.1	117.5°	180.5
406.4	397.0	409.6	399.1	410.7	403.3	410.7	404.3	411.7	413.8	414.9	120°	204.0
406.4	395.9	409.6	398.0	410.7	400.1	409.6	400.1	410.7	409.6	406.4	122.5°	228.5
407.5	393.8	409.6	395.9	409.6	397.0	408.6	395.9	406.4	403.3	401.2	125°	254.0
407.5	393.8	408.6	394.9	407.5	395.9	405.4	393.8	403.3	402.2	399.1	127.5°	277.5
409.6	395.9	408.6	399.1	408.6	397.0	404.3	393.8	401.2	394.9	382.2	130°	301.5
415.9	406.4	415.9	406.4	410.7	400.1	403.3	390.7	389.6	379.1	359.1	132.5°	325.5
430.7	426.5	424.3	412.8	409.6	395.9	391.7	377.0	371.7	355.9	328.5	135°	348.5
449.6	440.1	427.5	413.8	400.1	383.3	371.7	360.1	348.5	328.5	293.8	137.5°	369.5
462.3	448.6	422.2	403.3	378.0	364.3	344.3	331.7	314.8	289.6	255.9	140°	391.0
470.7	449.6	409.6	387.5	353.8	335.9	309.6	295.9	271.7	247.4	223.2	142.5°	412.5
472.8	445.4	392.8	368.5	324.3	304.3	269.6	254.8	231.7	214.8	205.3	145°	433.5
464.4	430.7	366.4	334.8	286.4	263.2	230.6	220.1	206.4	200.1	195.9	147.5°	452.5
447.5	402.2	325.4	288.5	239.0	221.1	204.3	204.3	196.9	193.7	186.4	150°	469.0
417.0	360.1	272.7	236.9	203.2	200.1	190.6	194.8	189.5	187.4	176.9	152.5°	486.0
369.6	300.1	220.1	199.0	183.2	185.3	179.0	183.2	180.1	179.0	166.4	155°	503.5
308.5	239.0	185.3	178.0	167.4	170.6	165.3	170.6	167.4	168.5	159.0	157.5°	517.5
246.4	193.7	164.3	160.1	152.7	154.8	151.6	156.9	155.8	160.1	154.8	160°	530.0
196.9	165.3	146.4	143.2	139.0	140.0	139.0	144.3	145.3	153.7	153.7	162.5°	539.0
163.2	142.2	131.6	130.6	126.4	127.4	128.5	133.7	137.9	148.5	153.7	165°	549.0
140.0	127.4	120.0	119.0	116.9	117.9	120.0	126.4	130.6	144.3	155.8	167.5°	558.5
123.2	115.8	110.6	110.6	108.5	110.6	112.7	119.0	124.3	140.0	151.6	170°	565.0
110.6	105.3	102.1	103.2	102.1	104.2	106.4	112.7	119.0	133.7	145.3	172.5°	567.5
99.0	95.8	93.7	94.8	94.8	97.9	100.0	106.4	111.6	125.3	140.0	175°	569.0
89.5	87.4	86.3	87.4	88.4	91.6	94.8	99.0	103.2	115.8	132.7	177.5°	574.0
82.1	80.0	80.0	80.0	81.1	84.2	88.4	90.6	94.8	108.5	124.3	180°	576.0
77.9	76.9	76.9	76.9	77.9	81.1	85.3	87.4	91.6	105.3	120.0		
72.7	72.7	73.7	72.7	74.8	75.8	80.0	82.1	87.4	101.1	114.8		
64.2	64.2	65.3	65.3	67.4	67.4	70.5	72.7	79.0	90.6	103.2		
56.9	56.9	59.0	57.9	57.9	55.8	60.0	62.1	67.4	79.0	91.6		
48.4	47.4	49.5	46.3	45.3	43.2	46.3	49.5	57.9	65.3	67.4		
37.9	34.7	35.8	32.6	32.6	30.5	33.7	34.7	40.0	47.4	51.6		
23.2	19.0	21.1	17.9	20.0	17.9	19.0	20.0	24.2	29.5	28.4		
5.3	3.2	4.2	1.1	3.2	0.0	3.2	1.1	3.2	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		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		

'227666
 ISS-AF-600-LED-E1-T3-8030-ULG

REPORT NUMBER: P227666
 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°
113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	0°	411.7	411.7
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	2.5°	415.9	414.9
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	5°	421.2	421.2
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	7.5°	422.2	424.3
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	10°	414.9	412.8
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	12.5°	403.3	401.2
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	15°	402.2	401.2
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	17.5°	394.9	389.6
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	20°	373.8	364.3
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	22.5°	344.3	330.6
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	25°	308.5	289.6
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	27.5°	269.6	250.6
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	30°	239.0	224.3
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	32.5°	216.9	208.5
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	35°	199.0	193.7
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	37.5°	187.4	179.0
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	40°	175.8	165.3
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	42.5°	165.3	154.8
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	45°	154.8	147.4
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	47.5°	149.5	143.2
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	50°	147.4	141.1
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	52.5°	149.5	144.3
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	55°	153.7	150.6
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	57.5°	149.5	144.3
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	60°	140.0	131.6
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	62.5°	133.7	125.3
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	65°	128.5	122.1
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	67.5°	123.2	116.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	116.9	110.6
										71°	113.7	106.4
										72.5°	108.5	100.0
										75°	97.9	89.5
										77.5°	81.1	71.6
										80°	62.1	55.8
										82.5°	46.3	41.1
										85°	24.2	19.0
										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°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0



REPORT NUMBER: P227666

CATALOG NUMBER: ISS-AF-600-LED-E1-1

0-LED-E1-T3-8030-ULG

tinued):

175°	180°
411.7	411.7
415.9	414.9
422.2	423.3
426.5	425.4
414.9	412.8
403.3	403.3
402.2	402.2
387.5	386.4
362.2	359.1
326.4	323.3
282.2	278.0
243.2	243.2
216.9	216.9
203.2	204.3
190.6	191.6
171.6	171.6
155.8	155.8
148.5	147.4
142.2	141.1
137.9	136.9
133.7	133.7
130.6	130.6
130.6	128.5
131.6	128.5
129.5	127.4
129.5	128.5
131.6	129.5
131.6	127.4
120.0	112.7
113.7	107.4
102.1	97.9
87.4	86.3
68.4	67.4
55.8	52.6
40.0	34.7
15.8	15.8
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	106.0	103.0	102.0
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0



T3-8030-ULG

<u>180°</u>
101.0
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

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