

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: P227531

Luminaire Tested: **ISS-AF-800-LED-E1-T2-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227531  
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-800-LED-E1-T2-7050-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW  
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

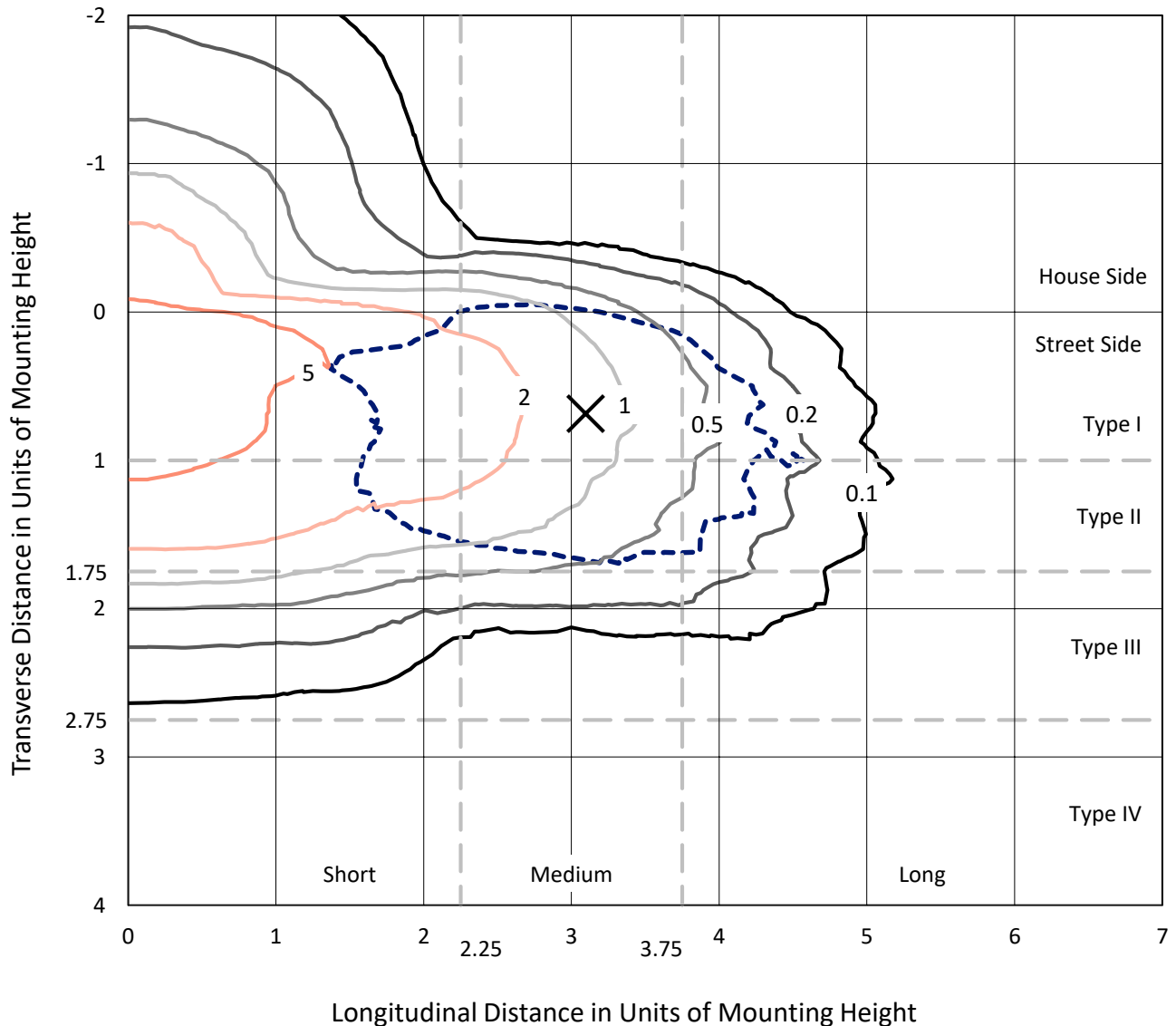
Lumens per Lamp: N/A  
Luminaire Lumens: 6217.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 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

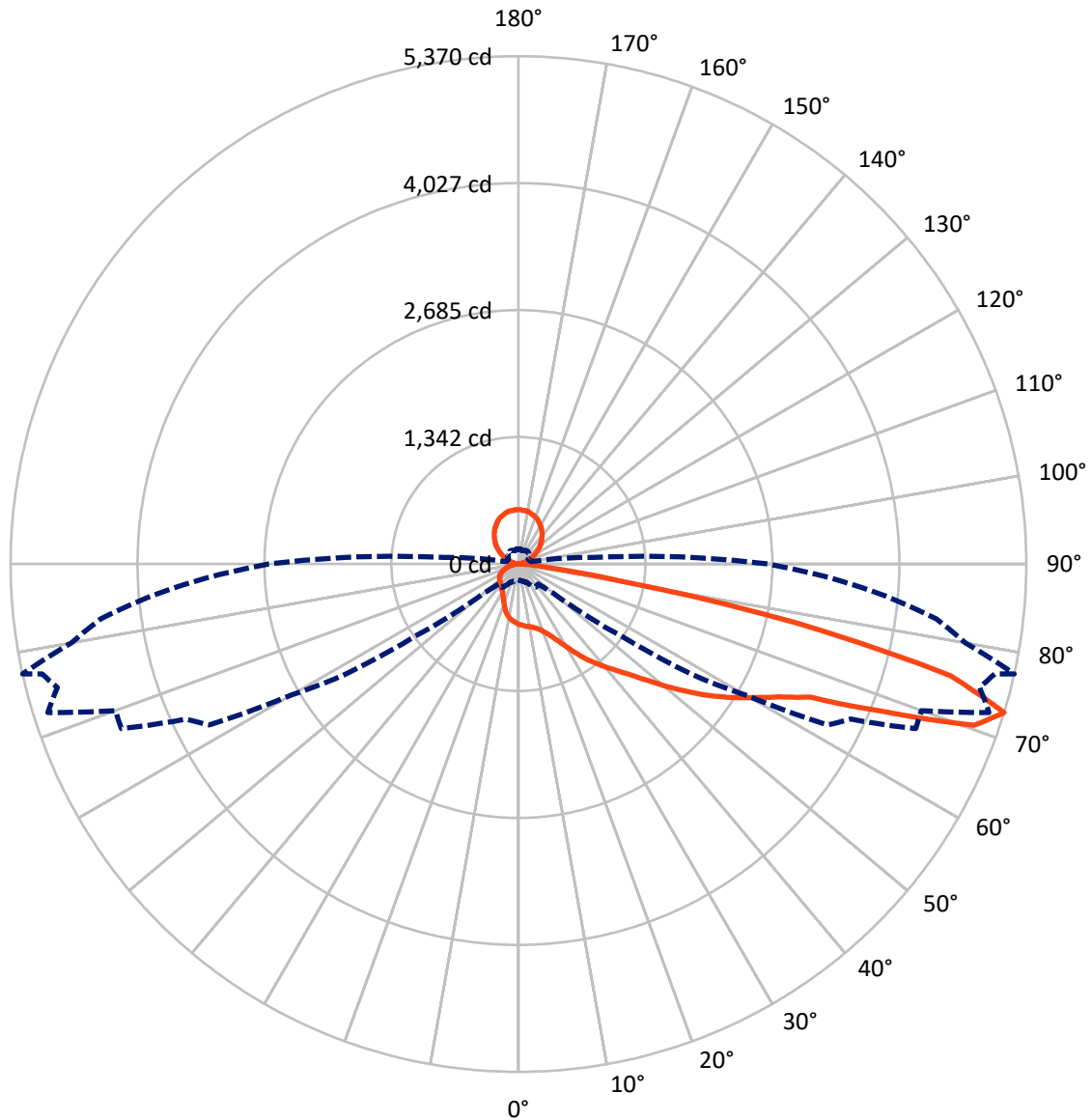
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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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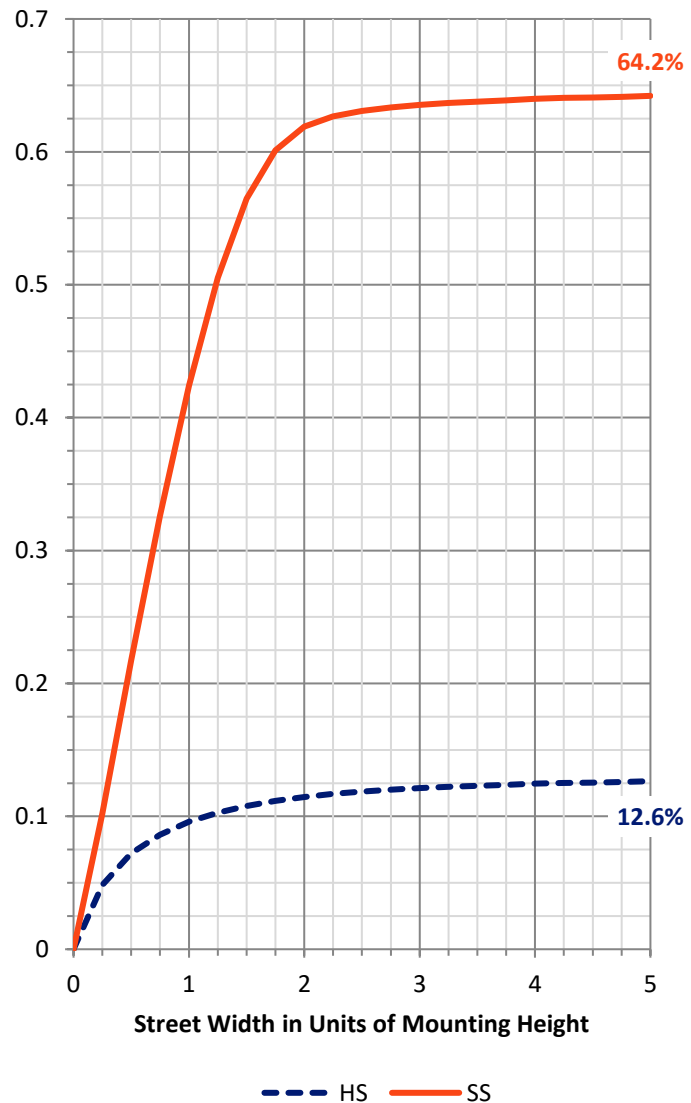
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	793.9	713.1	1506.9
	% Fixture	12.8	11.5	24.2
<b>Street Side</b>	Lumens	3997.1	713.1	4710.2
	% Fixture	64.3	11.5	75.8
<b>Total</b>	Lumens	4791.0	1426.2	6217.2
	% Fixture	77.1	22.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	1.0
10°-20°	182.2	2.9
20°-30°	323.4	5.2
30°-40°	512.4	8.2
40°-50°	768.7	12.4
50°-60°	996.1	16.0
60°-70°	1131.9	18.2
70°-80°	751.1	12.1
80°-90°	65.7	1.1
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.5
120°-130°	223.9	3.6
130°-140°	265.6	4.3
140°-150°	269.3	4.3
150°-160°	231.1	3.7
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4791.0	77.1
0°-180°	6217.2	100.0



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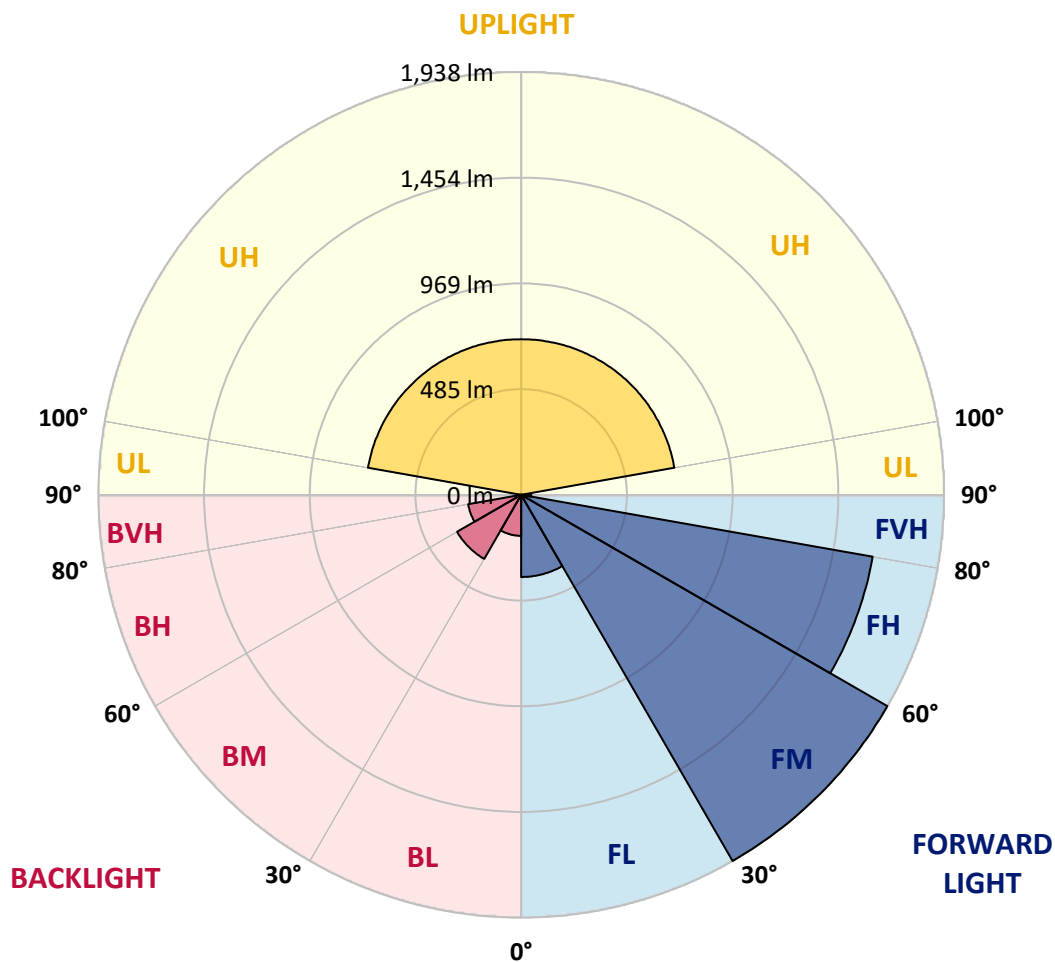
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.9	6.1			
FM (30°-60°)	1938.2	31.2			
FH (60°-80°)	1636.1	26.3			G1/1800
FVH (80°-90°)	45.9	0.7			G1/100
BL (0°-30°)	188.1	3.0	B1/500		
BM (30°-60°)	339.1	5.5	B1/1000		
BH (60°-80°)	246.9	4.0	B1/500		G1/500
BVH (80°-90°)	19.8	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	11.5		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°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	693.0	689.8	688.1	684.9	681.7	680.1	675.2	672.0	676.8	675.2	675.2
5°	744.7	741.5	736.6	731.8	725.3	720.5	715.6	710.8	714.0	710.8	707.5
7.5°	786.7	783.4	777.0	772.1	765.7	759.2	752.8	751.1	747.9	743.1	741.5
10°	810.9	807.7	804.4	801.2	791.5	786.7	778.6	773.8	775.4	768.9	768.9
12.5°	833.5	830.3	828.7	828.7	820.6	815.8	812.5	807.7	810.9	801.2	798.0
15°	854.5	851.3	846.4	851.3	849.7	848.1	846.4	844.8	849.7	840.0	841.6
17.5°	888.4	886.8	877.1	870.7	872.3	877.1	880.4	878.8	878.8	873.9	875.5
20°	941.8	941.8	928.8	917.5	899.8	899.8	901.4	899.8	903.0	906.2	911.1
22.5°	982.1	978.9	974.1	964.4	945.0	928.8	928.8	922.4	927.2	928.8	938.5
25°	1033.8	1030.6	1019.3	1019.3	999.9	978.9	975.7	966.0	977.3	956.3	972.4
27.5°	1096.8	1093.6	1079.1	1072.6	1062.9	1037.1	1030.6	1032.2	1043.5	1012.8	1029.0
30°	1176.0	1172.8	1155.0	1137.2	1121.1	1093.6	1090.4	1088.8	1114.6	1079.1	1100.1
32.5°	1276.1	1276.1	1256.8	1232.5	1200.2	1163.1	1150.1	1151.8	1187.3	1148.5	1184.1
35°	1428.0	1408.6	1373.1	1335.9	1302.0	1258.4	1240.6	1237.4	1269.7	1230.9	1271.3
37.5°	1524.9	1512.0	1479.7	1452.2	1415.1	1373.1	1360.1	1365.0	1392.4	1335.9	1394.1
40°	1612.1	1610.5	1589.5	1571.7	1534.6	1492.6	1508.7	1573.4	1646.1	1536.2	1537.8
42.5°	1670.3	1673.5	1671.9	1673.5	1652.5	1608.9	1636.4	1726.8	1851.2	1786.6	1726.8
45°	1680.0	1691.3	1696.1	1728.4	1749.4	1723.6	1738.1	1833.4	2082.2	2182.4	1912.6
47.5°	1704.2	1715.5	1705.8	1744.6	1841.5	1839.9	1898.0	1933.6	1967.5	1983.7	2187.2
50°	1736.5	1757.5	1747.8	1780.1	1859.3	1904.5	1954.6	1999.8	1972.4	1870.6	1925.5
52.5°	1738.1	1762.4	1815.7	1848.0	1925.5	1915.8	1949.7	1925.5	1967.5	1862.5	1915.8
55°	1596.0	1600.8	1755.9	1919.0	2054.7	2027.3	2006.3	1951.4	2004.7	1873.8	1941.7
57.5°	1371.4	1387.6	1549.1	1823.7	2114.5	2138.7	2132.3	2127.4	2169.4	1995.0	2069.3
60°	1124.3	1143.7	1297.1	1620.2	1990.1	2053.1	2140.4	2193.7	2301.9	2232.4	2355.2
62.5°	701.1	715.6	885.2	1289.1	1755.9	1880.3	2007.9	2070.9	2227.6	2259.9	2468.3
65°	334.4	339.2	405.5	701.1	1276.1	1510.4	1699.4	1833.4	2025.7	2171.0	2452.1
67.5°	260.1	261.7	285.9	373.1	654.2	810.9	1025.8	1203.4	1408.6	1806.0	2154.9
70°	208.4	208.4	227.8	274.6	405.5	426.5	481.4	541.1	628.4	948.2	1230.9
72.5°	174.5	174.5	187.4	216.5	300.5	305.3	302.1	297.2	297.2	374.8	478.1
75°	147.0	145.4	153.5	172.8	222.9	229.4	226.2	214.8	201.9	201.9	227.8
77.5°	119.5	119.5	126.0	135.7	161.5	164.8	164.8	155.1	143.8	145.4	156.7
80°	93.7	93.7	98.5	105.0	113.1	111.5	111.5	101.8	93.7	92.1	98.5
82.5°	67.8	69.5	80.8	75.9	72.7	67.8	67.8	66.2	59.8	54.9	58.2
85°	21.0	22.6	38.8	45.2	37.2	30.7	29.1	24.2	25.8	21.0	24.2
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	0.0	1.6
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
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	667.1	670.4	663.9	663.9	655.8	660.7	652.6	654.2	646.1	649.4	649.4
5°	699.5	701.1	693.0	689.8	681.7	681.7	673.6	673.6	662.3	665.5	662.3
7.5°	730.1	730.1	722.1	715.6	707.5	704.3	694.6	689.8	680.1	678.5	673.6
10°	756.0	756.0	744.7	738.2	728.5	723.7	710.8	705.9	694.6	686.5	681.7
12.5°	788.3	785.1	772.1	765.7	749.5	747.9	728.5	725.3	709.1	704.3	696.2
15°	827.1	830.3	809.3	807.7	785.1	783.4	757.6	756.0	731.8	730.1	718.8
17.5°	869.1	875.5	857.8	856.1	828.7	828.7	798.0	796.4	764.1	762.5	747.9
20°	906.2	914.3	903.0	906.2	882.0	883.6	849.7	849.7	804.4	801.2	788.3
22.5°	940.1	956.3	946.6	964.4	940.1	951.4	906.2	914.3	861.0	854.5	835.1
25°	974.1	995.1	991.8	1020.9	1003.1	1022.5	975.7	991.8	922.4	927.2	901.4
27.5°	1008.0	1035.4	1032.2	1074.2	1067.8	1106.5	1066.1	1083.9	1008.0	1012.8	983.8
30°	1064.5	1095.2	1083.9	1127.5	1127.5	1190.5	1159.8	1187.3	1103.3	1113.0	1079.1
32.5°	1140.4	1176.0	1142.1	1198.6	1195.4	1277.8	1253.5	1300.4	1218.0	1230.9	1188.9
35°	1222.8	1279.4	1224.4	1287.4	1277.8	1363.4	1347.2	1423.1	1335.9	1350.4	1308.4
37.5°	1331.1	1398.9	1326.2	1381.1	1337.5	1436.1	1426.4	1529.7	1440.9	1478.1	1428.0
40°	1458.7	1512.0	1421.5	1468.4	1395.7	1497.4	1481.3	1623.4	1541.1	1600.8	1555.6
42.5°	1576.6	1613.7	1494.2	1552.4	1465.1	1568.5	1539.4	1710.7	1639.6	1731.7	1681.6
45°	1683.2	1725.2	1566.9	1631.5	1534.6	1647.7	1597.6	1794.7	1746.2	1885.1	1835.0
47.5°	1835.0	1773.7	1633.1	1717.1	1608.9	1733.3	1667.1	1893.2	1875.4	2072.5	2014.4
50°	1785.0	1825.4	1688.1	1775.3	1676.7	1828.6	1755.9	2011.1	2016.0	2276.0	2242.1
52.5°	1789.8	1857.7	1730.1	1851.2	1755.9	1961.0	1885.1	2153.3	2175.9	2473.1	2426.3
55°	1818.9	1919.0	1793.1	1956.2	1867.4	2108.0	2054.7	2306.7	2345.5	2658.9	2631.4
57.5°	1891.6	2030.5	1901.3	2114.5	2022.4	2276.0	2227.6	2465.0	2518.3	2844.6	2836.6
60°	2171.0	2335.8	2109.7	2345.5	2222.7	2466.7	2402.0	2631.4	2684.7	3022.3	3043.3
62.5°	2482.8	2768.7	2634.7	2880.2	2555.5	2802.7	2612.0	2836.6	2839.8	3213.0	3279.2
65°	2563.6	3003.0	3117.6	3574.8	3405.2	3658.8	3150.0	3300.2	3106.3	3560.3	3655.6
67.5°	2532.9	3070.8	3389.0	3904.3	4096.6	4539.2	4453.5	4401.9	3952.8	4279.1	4393.8
70°	1859.3	2429.5	3208.1	3731.5	4285.6	4576.3	5036.7	5083.5	5064.2	5018.9	5094.8
72.5°	846.4	1327.8	2171.0	2768.7	3683.0	3878.5	4545.6	4532.7	5217.6	5048.0	5167.5
75°	332.8	512.1	1033.8	1545.9	2547.4	2788.1	3544.1	3356.7	4211.2	3962.5	4217.7
77.5°	182.5	229.4	387.7	663.9	1390.8	1518.4	2169.4	1856.0	2612.0	2180.7	2266.4
80°	109.8	137.3	177.7	252.0	591.2	625.1	925.6	746.3	1067.8	810.9	786.7
82.5°	59.8	74.3	88.8	124.4	219.7	243.9	319.8	287.5	342.5	292.4	285.9
85°	24.2	32.3	33.9	50.1	72.7	84.0	101.8	109.8	134.1	122.8	119.5
87.5°	0.0	1.6	0.0	3.2	0.0	3.2	0.0	4.8	4.8	8.1	9.7
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°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0	4.8
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0	26.8
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0	48.2
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0	69.4
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0	91.2
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0	113.2



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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°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0	135.4
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.4
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0	180.4
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.4
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0	229.8
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.6
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0	278.6
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0	302.6
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0	326.6
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0	349.4
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0	370.8
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0	392.8
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0	413.6
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0	434.6
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0	453.6
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.8
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.6
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0	504.6
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0	519.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.6
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0	538.4
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0	548.4
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0	559.8
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0	567.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0	568.6
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0	568.6
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0	574.6
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°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	644.5	649.4	642.9	642.9	634.8	639.7	634.8	630.0	621.9	623.5	612.2
5°	655.8	659.1	651.0	647.8	642.9	641.3	631.6	621.9	610.6	610.6	597.7
7.5°	667.1	667.1	655.8	655.8	644.5	641.3	626.8	610.6	594.5	592.8	573.5
10°	673.6	672.0	657.5	657.5	641.3	639.7	621.9	597.7	575.1	568.6	541.1
12.5°	686.5	684.9	667.1	663.9	642.9	642.9	617.1	584.8	552.5	541.1	502.4
15°	702.7	704.3	683.3	678.5	654.2	652.6	617.1	568.6	525.0	507.2	460.4
17.5°	728.5	730.1	701.1	696.2	667.1	662.3	618.7	549.2	487.8	468.5	426.5
20°	762.5	757.6	718.8	717.2	678.5	673.6	617.1	520.1	450.7	431.3	394.1
22.5°	804.4	799.6	749.5	744.7	699.5	691.4	615.5	489.5	416.8	395.8	371.5
25°	862.6	856.1	794.8	788.3	731.8	718.8	613.8	457.1	387.7	371.5	357.0
27.5°	935.3	922.4	848.1	841.6	765.7	749.5	607.4	420.0	358.6	347.3	340.8
30°	1022.5	1011.2	915.9	906.2	810.9	789.9	600.9	386.1	337.6	332.8	327.9
32.5°	1125.9	1114.6	998.3	987.0	869.1	838.4	589.6	358.6	324.7	324.7	318.2
35°	1234.1	1224.4	1087.1	1079.1	933.7	893.3	575.1	334.4	313.4	313.4	306.9
37.5°	1331.1	1339.1	1184.1	1177.6	998.3	948.2	558.9	318.2	303.7	300.5	294.0
40°	1436.1	1455.4	1274.5	1279.4	1066.1	1006.4	539.5	305.3	292.4	289.1	287.5
42.5°	1542.7	1579.8	1369.8	1387.6	1134.0	1066.1	525.0	297.2	287.5	281.1	279.5
45°	1675.1	1728.4	1487.7	1521.7	1213.1	1138.8	520.1	287.5	273.0	264.9	260.1
47.5°	1839.9	1911.0	1633.1	1671.9	1318.1	1226.1	529.8	284.3	263.3	253.6	243.9
50°	2035.4	2103.2	1806.0	1822.1	1436.1	1321.4	550.8	289.1	260.1	245.5	231.0
52.5°	2242.1	2293.8	1988.5	1970.7	1558.8	1415.1	575.1	290.8	252.0	237.5	219.7
55°	2455.3	2484.4	2158.1	2111.3	1670.3	1508.7	607.4	289.1	245.5	229.4	206.8
57.5°	2663.7	2673.4	2308.4	2263.1	1780.1	1620.2	647.8	284.3	235.8	219.7	195.5
60°	2867.3	2883.4	2474.7	2432.7	1899.7	1764.0	705.9	276.2	222.9	211.6	185.8
62.5°	3090.2	3143.5	2673.4	2679.9	2064.4	1988.5	815.8	266.5	210.0	197.1	171.2
65°	3393.9	3597.4	3001.3	3153.2	2381.0	2411.7	1025.8	239.1	192.2	176.1	158.3
67.5°	4154.7	4377.6	3797.7	3859.1	3122.5	2940.0	1158.2	203.5	169.6	158.3	147.0
70°	5107.8	4947.8	4535.9	4164.4	3555.4	3022.3	1019.3	171.2	150.2	143.8	137.3
72.5°	5369.5	4796.0	4456.8	3899.5	3287.3	2636.3	780.2	147.0	134.1	130.8	126.0
75°	4718.5	3888.2	3907.6	3098.3	2725.1	2009.5	533.1	126.0	116.3	114.7	113.1
77.5°	3017.5	1998.2	2432.7	1531.4	1573.4	930.4	260.1	105.0	100.2	100.2	96.9
80°	1072.6	665.5	752.8	483.0	439.4	295.6	140.5	84.0	80.8	82.4	80.8
82.5°	321.5	255.2	250.4	195.5	151.8	124.4	77.5	64.6	61.4	63.0	59.8
85°	129.2	100.2	84.0	64.6	53.3	48.5	42.0	43.6	38.8	42.0	37.2
87.5°	8.1	6.5	4.8	6.5	0.0	3.2	8.1	6.5	1.6	6.5	4.8
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
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2



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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°	
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	0°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	2.5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	7.5°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	10°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	12.5°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	15°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	17.5°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	20°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	22.5°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	25°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	27.5°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	30°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	32.5°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	35°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	37.5°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	40°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	42.5°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	45°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	47.5°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	50°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	52.5°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	55°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	57.5°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	60°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	62.5°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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°	
639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	112.5°	135.5
620.3	609.0	613.8	609.0	612.2	602.5	605.8	597.7	597.7	596.1	588.0	115°	158.0
599.3	588.0	586.4	575.1	576.7	563.8	562.1	547.6	547.6	534.7	510.5	117.5°	180.5
570.2	552.5	550.8	528.2	526.6	508.8	502.4	486.2	484.6	470.1	455.5	120°	204.0
533.1	505.6	500.8	471.7	473.3	453.9	452.3	441.0	441.0	434.5	434.5	122.5°	228.5
491.1	460.4	457.1	434.5	436.1	423.2	424.8	418.4	421.6	424.8	436.1	125°	254.0
452.3	428.1	424.8	410.3	411.9	408.7	413.5	413.5	418.4	426.5	445.8	127.5°	277.5
420.0	399.0	400.6	394.1	400.6	399.0	408.7	407.1	416.8	426.5	450.7	130°	301.5
390.9	379.6	384.5	382.8	390.9	390.9	399.0	400.6	408.7	421.6	449.1	132.5°	325.5
371.5	368.3	373.1	373.1	379.6	381.2	389.3	394.1	399.0	411.9	436.1	135°	348.5
360.2	358.6	363.5	365.1	369.9	371.5	379.6	379.6	387.7	395.8	408.7	137.5°	369.5
344.1	340.8	347.3	347.3	353.8	352.1	361.8	358.6	366.7	369.9	373.1	140°	391.0
332.8	327.9	332.8	331.1	336.0	331.1	336.0	331.1	336.0	336.0	331.1	142.5°	412.5
321.5	316.6	318.2	311.8	316.6	310.1	311.8	305.3	308.5	305.3	306.9	145°	433.5
310.1	303.7	303.7	295.6	295.6	287.5	290.8	284.3	290.8	295.6	294.0	147.5°	452.5
294.0	289.1	289.1	282.7	285.9	282.7	289.1	285.9	287.5	281.1	269.8	150°	469.0
284.3	287.5	285.9	290.8	287.5	282.7	277.8	268.1	266.5	263.3	256.8	152.5°	486.0
269.8	273.0	264.9	271.4	266.5	268.1	264.9	260.1	256.8	253.6	247.2	155°	503.5
248.8	248.8	242.3	252.0	247.2	256.8	253.6	253.6	250.4	245.5	240.7	157.5°	517.5
231.0	232.6	226.2	234.2	231.0	243.9	242.3	247.2	247.2	243.9	231.0	160°	530.0
219.7	216.5	211.6	219.7	218.1	229.4	231.0	240.7	239.1	240.7	229.4	162.5°	539.0
210.0	203.5	198.7	203.5	203.5	213.2	216.5	227.8	229.4	232.6	226.2	165°	549.0
198.7	190.6	187.4	190.6	190.6	200.3	205.2	213.2	218.1	227.8	224.5	167.5°	558.5
189.0	177.7	174.5	177.7	179.3	189.0	193.8	201.9	208.4	221.3	219.7	170°	565.0
177.7	168.0	164.8	169.6	171.2	180.9	185.8	193.8	198.7	213.2	213.2	172.5°	567.5
164.8	156.7	156.7	158.3	161.5	171.2	174.5	185.8	187.4	205.2	206.8	175°	569.0
153.5	148.6	148.6	150.2	153.5	161.5	163.2	174.5	176.1	193.8	198.7	177.5°	574.0
143.8	140.5	140.5	142.2	143.8	150.2	151.8	163.2	166.4	182.5	190.6	180°	576.0
134.1	130.8	129.2	129.2	134.1	138.9	142.2	153.5	155.1	169.6	179.3		
122.8	119.5	119.5	117.9	122.8	126.0	132.5	138.9	142.2	156.7	163.2		
111.5	108.2	108.2	106.6	109.8	116.3	117.9	124.4	126.0	138.9	145.4		
96.9	93.7	93.7	93.7	96.9	98.5	100.2	106.6	109.8	121.2	127.6		
80.8	77.5	79.2	77.5	82.4	75.9	80.8	87.2	90.5	96.9	93.7		
61.4	56.5	58.2	58.2	59.8	54.9	58.2	61.4	64.6	69.5	67.8		
38.8	33.9	37.2	33.9	37.2	32.3	35.5	35.5	38.8	35.5	33.9		
8.1	3.2	8.1	3.2	9.7	0.0	4.8	0.0	3.2	1.6	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		
113.5	113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0		

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 ISS-AF-800-LED-E1-T2-7050-ULG

REPORT NUMBER: P227531  
 CATALOG NUMBER: ISS-AF-800

**TION (continued):**

**CANDELA DISTRIBUTION (con**

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	0°	639.7	639.7
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	2.5°	579.9	573.5
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	5°	497.5	486.2
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	7.5°	447.5	444.2
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	10°	437.8	442.6
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	12.5°	449.1	457.1
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	15°	463.6	478.1
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	17.5°	474.9	494.3
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	20°	476.5	495.9
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	22.5°	462.0	474.9
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	25°	424.8	431.3
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	27.5°	378.0	376.4
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	30°	329.5	326.3
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	32.5°	311.8	300.5
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	35°	284.3	281.1
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	37.5°	274.6	302.1
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	40°	263.3	297.2
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	42.5°	253.6	273.0
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	45°	235.8	243.9
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	47.5°	227.8	224.5
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	50°	221.3	221.3
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	52.5°	216.5	213.2
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	55°	210.0	206.8
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	57.5°	205.2	197.1
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	60°	200.3	192.2
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	62.5°	197.1	187.4
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	65°	192.2	182.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	185.8	172.8
										70°	172.8	161.5
										72.5°	159.9	147.0
										75°	140.5	129.2
										77.5°	117.9	105.0
										80°	88.8	80.8
										82.5°	64.6	54.9
										85°	29.1	21.0
										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
										110°	106.0	103.0



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**tinued):**

175°	180°
639.7	639.7
570.2	568.6
483.0	479.8
444.2	442.6
444.2	444.2
463.6	463.6
486.2	486.2
502.4	504.0
507.2	508.8
483.0	483.0
436.1	436.1
374.8	381.2
319.8	326.3
284.3	289.1
273.0	274.6
300.5	302.1
295.6	298.8
253.6	255.2
227.8	227.8
218.1	216.5
218.1	214.8
224.5	222.9
214.8	214.8
210.0	210.0
205.2	205.2
203.5	201.9
203.5	200.3
200.3	195.5
189.0	176.1
161.5	150.2
130.8	129.2
101.8	103.4
77.5	77.5
56.5	46.8
16.2	16.2
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
102.0	101.0

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°
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



12-7050-ULG

180°
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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