

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: P227533

Luminaire Tested: **ISS-AF-800-LED-E1-T2-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227533  
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-T2-8030-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

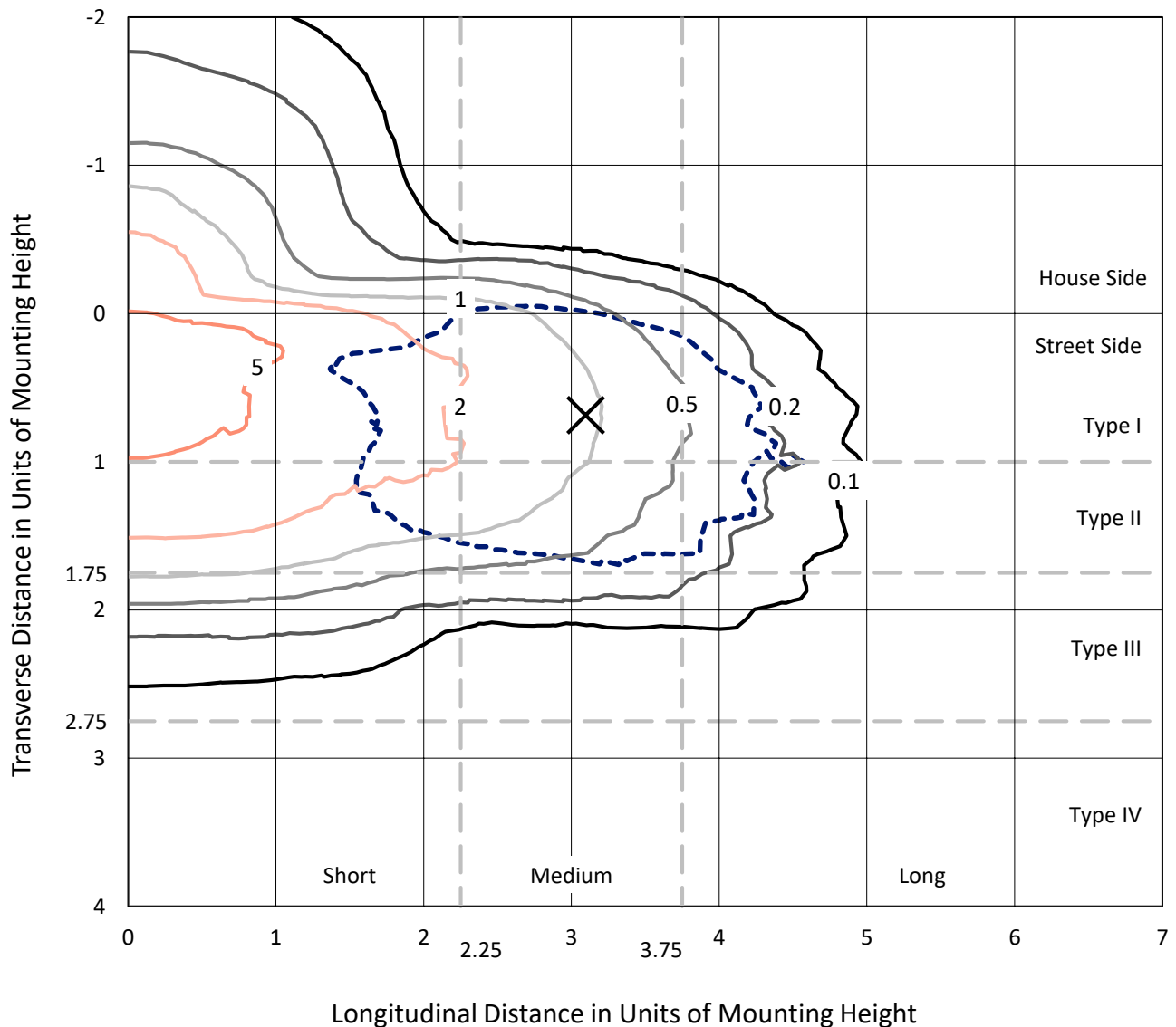
Lumens per Lamp: N/A  
Luminaire Lumens: 5335.2 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 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

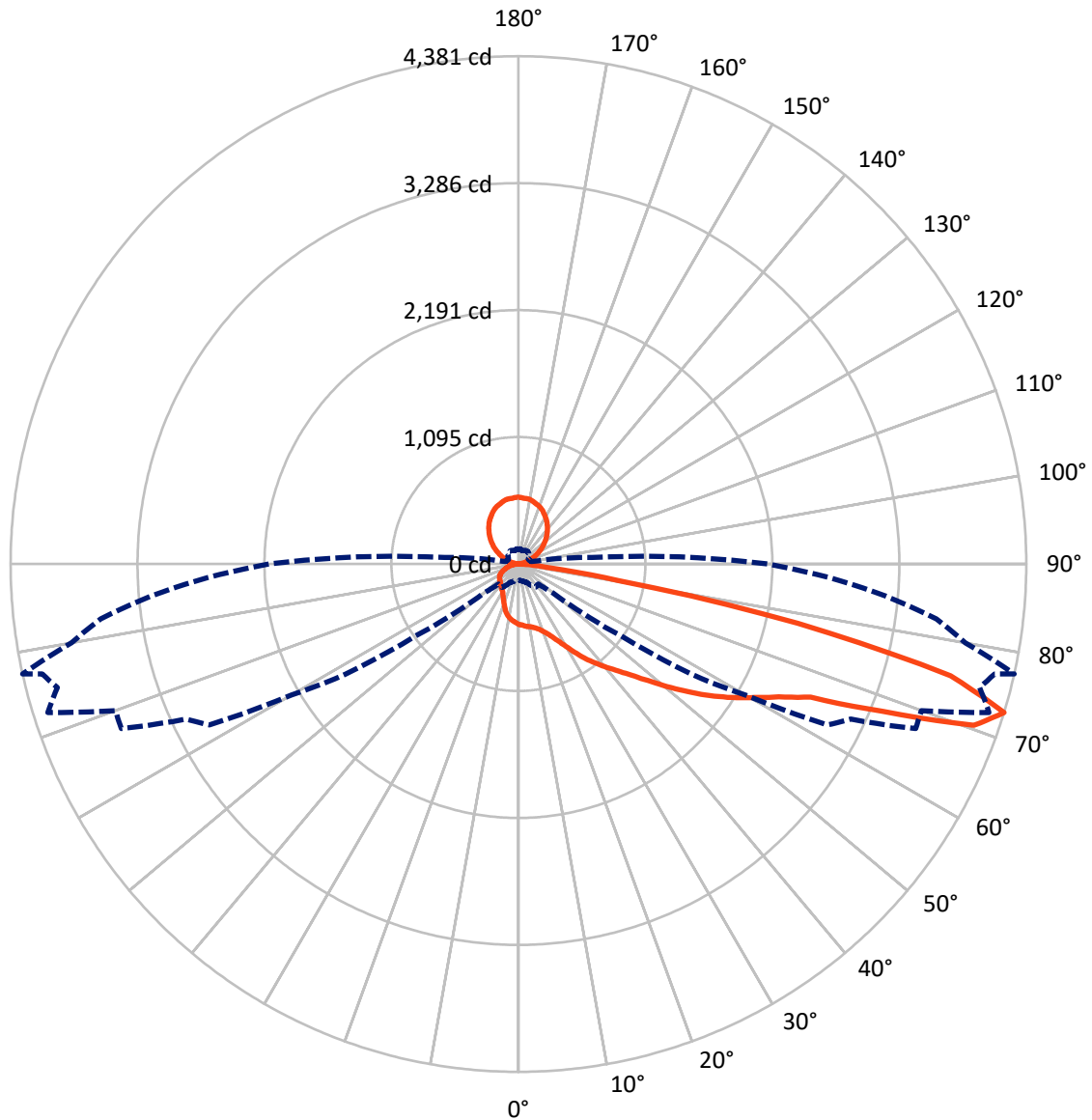
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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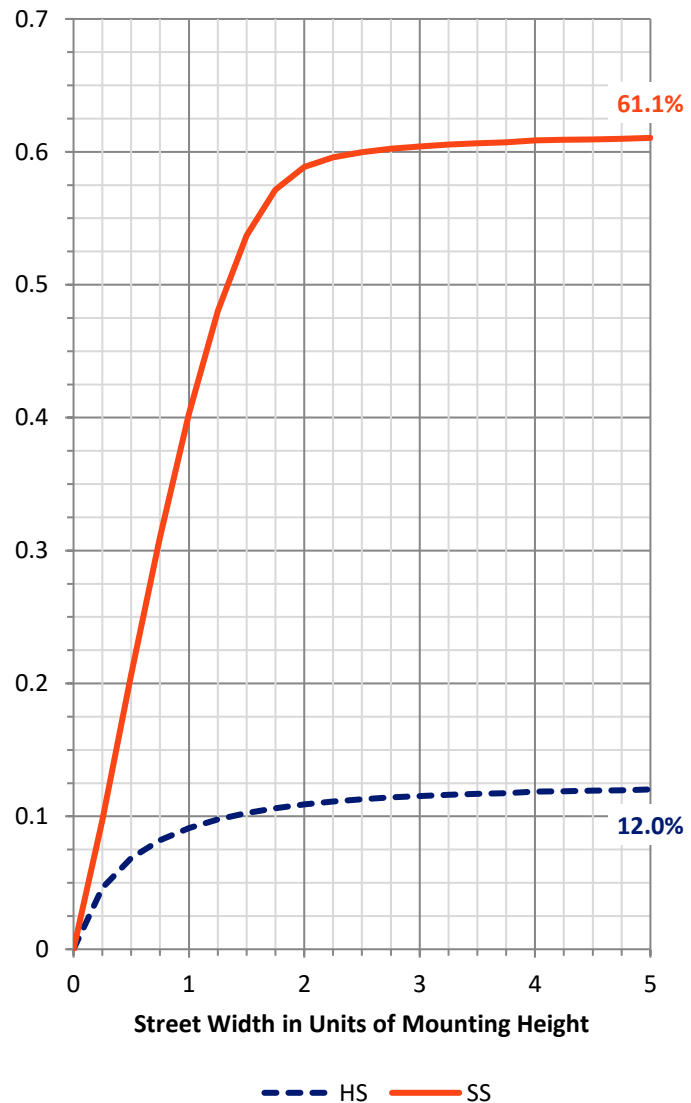
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	647.7	713.1	1360.8
	% Fixture	12.1	13.4	25.5
<b>Street Side</b>	Lumens	3261.3	713.1	3974.4
	% Fixture	61.1	13.4	74.5
<b>Total</b>	Lumens	3909.0	1426.2	5335.2
	% Fixture	73.3	26.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	0.9
10°-20°	148.6	2.8
20°-30°	263.9	4.9
30°-40°	418.1	7.8
40°-50°	627.2	11.8
50°-60°	812.8	15.2
60°-70°	923.5	17.3
70°-80°	612.8	11.5
80°-90°	53.6	1.0
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.9
120°-130°	223.9	4.2
130°-140°	265.6	5.0
140°-150°	269.3	5.0
150°-160°	231.1	4.3
160°-170°	155.1	2.9
170°-180°	54.3	1.0
0°-90°	3909.0	73.3
0°-180°	5335.2	100.0



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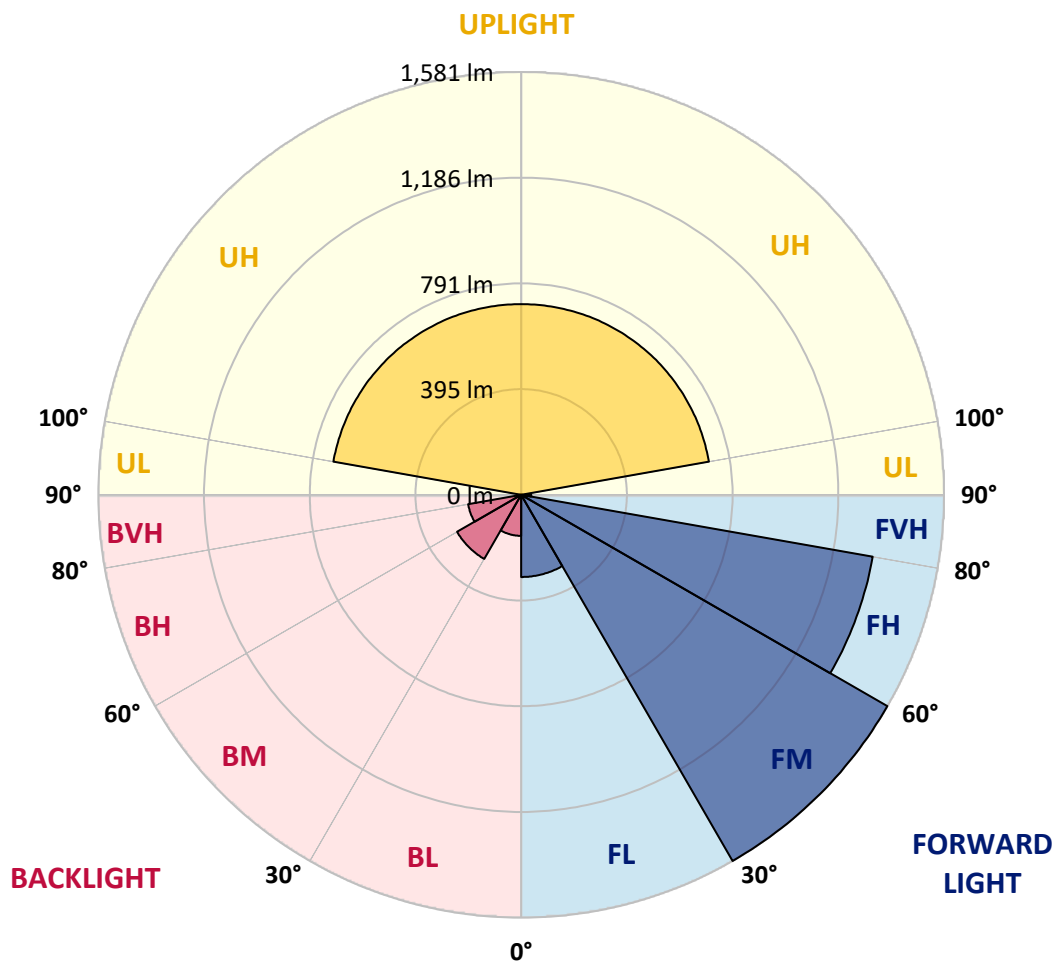
CATALOG NUMBER: ISS-AF-800-LED-E1-T2-8030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.5	5.8			
FM (30°-60°)	1581.4	29.6			
FH (60°-80°)	1334.9	25.0			G1/1800
FVH (80°-90°)	37.5	0.7			G1/100
BL (0°-30°)	153.5	2.9	B1/500		
BM (30°-60°)	276.7	5.2	B1/1000		
BH (60°-80°)	201.4	3.8	B1/500		G1/500
BVH (80°-90°)	16.1	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	13.4		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°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	565.4	562.8	561.5	558.8	556.2	554.9	550.9	548.3	552.2	550.9	550.9
5°	607.6	605.0	601.0	597.0	591.8	587.8	583.9	579.9	582.5	579.9	577.3
7.5°	641.9	639.2	633.9	630.0	624.7	619.5	614.2	612.9	610.2	606.3	605.0
10°	661.6	659.0	656.4	653.7	645.8	641.9	635.3	631.3	632.6	627.4	627.4
12.5°	680.1	677.4	676.1	676.1	669.5	665.6	662.9	659.0	661.6	653.7	651.1
15°	697.2	694.6	690.6	694.6	693.3	691.9	690.6	689.3	693.3	685.3	686.7
17.5°	724.9	723.6	715.7	710.4	711.7	715.7	718.3	717.0	717.0	713.0	714.3
20°	768.4	768.4	757.8	748.6	734.1	734.1	735.4	734.1	736.8	739.4	743.3
22.5°	801.3	798.7	794.7	786.8	771.0	757.8	757.8	752.6	756.5	757.8	765.7
25°	843.5	840.9	831.6	831.6	815.8	798.7	796.1	788.2	797.4	780.2	793.4
27.5°	894.9	892.3	880.4	875.1	867.2	846.1	840.9	842.2	851.4	826.4	839.6
30°	959.5	956.9	942.4	927.9	914.7	892.3	889.6	888.3	909.4	880.4	897.5
32.5°	1041.2	1041.2	1025.4	1005.6	979.3	948.9	938.4	939.7	968.7	937.1	966.1
35°	1165.1	1149.3	1120.3	1090.0	1062.3	1026.7	1012.2	1009.6	1035.9	1004.3	1037.3
37.5°	1244.2	1233.6	1207.3	1184.9	1154.6	1120.3	1109.7	1113.7	1136.1	1090.0	1137.4
40°	1315.3	1314.0	1296.9	1282.4	1252.1	1217.8	1231.0	1283.7	1343.0	1253.4	1254.7
42.5°	1362.8	1365.4	1364.1	1365.4	1348.3	1312.7	1335.1	1408.9	1510.4	1457.7	1408.9
45°	1370.7	1379.9	1383.9	1410.2	1427.4	1406.3	1418.1	1495.9	1698.9	1780.6	1560.5
47.5°	1390.5	1399.7	1391.8	1423.4	1502.5	1501.2	1548.6	1577.6	1605.3	1618.5	1784.5
50°	1416.8	1434.0	1426.1	1452.4	1517.0	1553.9	1594.8	1631.7	1609.3	1526.2	1571.0
52.5°	1418.1	1437.9	1481.4	1507.8	1571.0	1563.1	1590.8	1571.0	1605.3	1519.6	1563.1
55°	1302.2	1306.1	1432.6	1565.8	1676.5	1654.1	1636.9	1592.1	1635.6	1528.9	1584.2
57.5°	1119.0	1132.1	1263.9	1488.0	1725.2	1745.0	1739.7	1735.8	1770.0	1627.7	1688.3
60°	917.3	933.1	1058.3	1321.9	1623.8	1675.2	1746.3	1789.8	1878.1	1821.4	1921.6
62.5°	572.0	583.9	722.3	1051.7	1432.6	1534.1	1638.2	1689.7	1817.5	1843.9	2013.9
65°	272.8	276.8	330.8	572.0	1041.2	1232.3	1386.5	1495.9	1652.7	1771.4	2000.7
67.5°	212.2	213.5	233.3	304.5	533.8	661.6	836.9	981.9	1149.3	1473.5	1758.2
70°	170.0	170.0	185.8	224.1	330.8	347.9	392.8	441.5	512.7	773.7	1004.3
72.5°	142.3	142.3	152.9	176.6	245.1	249.1	246.5	242.5	242.5	305.8	390.1
75°	119.9	118.6	125.2	141.0	181.9	187.2	184.5	175.3	164.7	164.7	185.8
77.5°	97.5	97.5	102.8	110.7	131.8	134.4	134.4	126.5	117.3	118.6	127.8
80°	76.4	76.4	80.4	85.7	92.3	90.9	90.9	83.0	76.4	75.1	80.4
82.5°	55.4	56.7	65.9	61.9	59.3	55.4	55.4	54.0	48.8	44.8	47.4
85°	17.1	18.5	31.6	36.9	30.3	25.0	23.7	19.8	21.1	17.1	19.8
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
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°	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°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	544.3	547.0	541.7	541.7	535.1	539.1	532.5	533.8	527.2	529.8	529.8
5°	570.7	572.0	565.4	562.8	556.2	556.2	549.6	549.6	540.4	543.0	540.4
7.5°	595.7	595.7	589.1	583.9	577.3	574.6	566.7	562.8	554.9	553.6	549.6
10°	616.8	616.8	607.6	602.3	594.4	590.5	579.9	576.0	566.7	560.1	556.2
12.5°	643.2	640.5	630.0	624.7	611.5	610.2	594.4	591.8	578.6	574.6	568.0
15°	674.8	677.4	660.3	659.0	640.5	639.2	618.1	616.8	597.0	595.7	586.5
17.5°	709.1	714.3	699.8	698.5	676.1	676.1	651.1	649.8	623.4	622.1	610.2
20°	739.4	746.0	736.8	739.4	719.6	720.9	693.3	693.3	656.4	653.7	643.2
22.5°	767.1	780.2	772.3	786.8	767.1	776.3	739.4	746.0	702.5	697.2	681.4
25°	794.7	811.9	809.2	833.0	818.5	834.3	796.1	809.2	752.6	756.5	735.4
27.5°	822.4	844.8	842.2	876.5	871.2	902.8	869.9	884.4	822.4	826.4	802.7
30°	868.5	893.6	884.4	920.0	920.0	971.4	946.3	968.7	900.2	908.1	880.4
32.5°	930.5	959.5	931.8	977.9	975.3	1042.5	1022.8	1061.0	993.8	1004.3	970.0
35°	997.7	1043.8	999.0	1050.4	1042.5	1112.4	1099.2	1161.1	1090.0	1101.8	1067.6
37.5°	1086.0	1141.4	1082.1	1126.9	1091.3	1171.7	1163.8	1248.1	1175.6	1206.0	1165.1
40°	1190.1	1233.6	1159.8	1198.0	1138.7	1221.8	1208.6	1324.6	1257.4	1306.1	1269.2
42.5°	1286.3	1316.7	1219.1	1266.6	1195.4	1279.8	1256.0	1395.7	1337.8	1412.9	1372.0
45°	1373.3	1407.6	1278.4	1331.2	1252.1	1344.3	1303.5	1464.3	1424.7	1538.1	1497.2
47.5°	1497.2	1447.1	1332.5	1401.0	1312.7	1414.2	1360.2	1544.7	1530.2	1691.0	1643.5
50°	1456.4	1489.3	1377.3	1448.5	1368.1	1492.0	1432.6	1640.9	1644.8	1857.0	1829.4
52.5°	1460.3	1515.7	1411.6	1510.4	1432.6	1600.0	1538.1	1756.9	1775.3	2017.8	1979.6
55°	1484.0	1565.8	1463.0	1596.1	1523.6	1720.0	1676.5	1882.1	1913.7	2169.4	2147.0
57.5°	1543.4	1656.7	1551.3	1725.2	1650.1	1857.0	1817.5	2011.2	2054.7	2321.0	2314.4
60°	1771.4	1905.8	1721.3	1913.7	1813.5	2012.6	1959.8	2147.0	2190.5	2465.9	2483.1
62.5°	2025.7	2259.0	2149.6	2350.0	2085.0	2286.7	2131.2	2314.4	2317.0	2621.5	2675.5
65°	2091.6	2450.1	2543.7	2916.7	2778.3	2985.2	2570.1	2692.6	2534.5	2904.8	2982.6
67.5°	2066.6	2505.5	2765.1	3185.6	3342.4	3703.5	3633.7	3591.5	3225.1	3491.3	3584.9
70°	1517.0	1982.2	2617.5	3044.5	3496.6	3733.8	4109.5	4147.7	4131.9	4095.0	4156.9
72.5°	690.6	1083.4	1771.4	2259.0	3005.0	3164.5	3708.8	3698.3	4257.1	4118.7	4216.2
75°	271.5	417.8	843.5	1261.3	2078.5	2274.8	2891.6	2738.8	3436.0	3233.0	3441.2
77.5°	148.9	187.2	316.3	541.7	1134.8	1238.9	1770.0	1514.4	2131.2	1779.3	1849.1
80°	89.6	112.0	145.0	205.6	482.4	510.1	755.2	608.9	871.2	661.6	641.9
82.5°	48.8	60.6	72.5	101.5	179.2	199.0	261.0	234.6	279.4	238.6	233.3
85°	19.8	26.4	27.7	40.9	59.3	68.5	83.0	89.6	109.4	100.2	97.5
87.5°	0.0	1.3	0.0	2.6	0.0	2.6	0.0	4.0	4.0	6.6	7.9
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°	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9
2.5°	525.9	529.8	524.6	524.6	518.0	521.9	518.0	514.0	507.4	508.7	499.5
5°	535.1	537.7	531.1	528.5	524.6	523.2	515.3	507.4	498.2	498.2	487.7
7.5°	544.3	544.3	535.1	535.1	525.9	523.2	511.4	498.2	485.0	483.7	467.9
10°	549.6	548.3	536.4	536.4	523.2	521.9	507.4	487.7	469.2	463.9	441.5
12.5°	560.1	558.8	544.3	541.7	524.6	524.6	503.5	477.1	450.7	441.5	409.9
15°	573.3	574.6	557.5	553.6	533.8	532.5	503.5	463.9	428.3	413.8	375.6
17.5°	594.4	595.7	572.0	568.0	544.3	540.4	504.8	448.1	398.0	382.2	347.9
20°	622.1	618.1	586.5	585.2	553.6	549.6	503.5	424.4	367.7	351.9	321.6
22.5°	656.4	652.4	611.5	607.6	570.7	564.1	502.2	399.3	340.0	322.9	303.1
25°	703.8	698.5	648.4	643.2	597.0	586.5	500.8	373.0	316.3	303.1	291.3
27.5°	763.1	752.6	691.9	686.7	624.7	611.5	495.6	342.7	292.6	283.4	278.1
30°	834.3	825.1	747.3	739.4	661.6	644.5	490.3	315.0	275.5	271.5	267.6
32.5°	918.6	909.4	814.5	805.3	709.1	684.0	481.1	292.6	264.9	264.9	259.6
35°	1006.9	999.0	887.0	880.4	761.8	728.8	469.2	272.8	255.7	255.7	250.4
37.5°	1086.0	1092.6	966.1	960.8	814.5	773.7	456.0	259.6	247.8	245.1	239.9
40°	1171.7	1187.5	1039.9	1043.8	869.9	821.1	440.2	249.1	238.6	235.9	234.6
42.5°	1258.7	1289.0	1117.6	1132.1	925.2	869.9	428.3	242.5	234.6	229.3	228.0
45°	1366.7	1410.2	1213.9	1241.5	989.8	929.2	424.4	234.6	222.7	216.1	212.2
47.5°	1501.2	1559.2	1332.5	1364.1	1075.5	1000.3	432.3	232.0	214.8	206.9	199.0
50°	1660.7	1716.0	1473.5	1486.7	1171.7	1078.1	449.4	235.9	212.2	200.3	188.5
52.5°	1829.4	1871.5	1622.4	1607.9	1271.9	1154.6	469.2	237.2	205.6	193.7	179.2
55°	2003.3	2027.1	1760.8	1722.6	1362.8	1231.0	495.6	235.9	200.3	187.2	168.7
57.5°	2173.3	2181.3	1883.4	1846.5	1452.4	1321.9	528.5	232.0	192.4	179.2	159.5
60°	2339.4	2352.6	2019.1	1984.9	1549.9	1439.2	576.0	225.4	181.9	172.7	151.6
62.5°	2521.3	2564.8	2181.3	2186.5	1684.4	1622.4	665.6	217.5	171.3	160.8	139.7
65°	2769.1	2935.1	2448.8	2572.7	1942.7	1967.7	836.9	195.1	156.8	143.7	129.2
67.5°	3389.8	3571.7	3098.6	3148.7	2547.7	2398.7	945.0	166.1	138.4	129.2	119.9
70°	4167.5	4037.0	3700.9	3397.8	2900.9	2465.9	831.6	139.7	122.6	117.3	112.0
72.5°	4381.0	3913.1	3636.3	3181.6	2682.1	2150.9	636.6	119.9	109.4	106.8	102.8
75°	3849.8	3172.4	3188.2	2527.9	2223.4	1639.6	434.9	102.8	94.9	93.6	92.3
77.5°	2462.0	1630.3	1984.9	1249.4	1283.7	759.2	212.2	85.7	81.7	81.7	79.1
80°	875.1	543.0	614.2	394.1	358.5	241.2	114.7	68.5	65.9	67.2	65.9
82.5°	262.3	208.2	204.3	159.5	123.9	101.5	63.3	52.7	50.1	51.4	48.8
85°	105.4	81.7	68.5	52.7	43.5	39.5	34.3	35.6	31.6	34.3	30.3
87.5°	6.6	5.3	4.0	5.3	0.0	2.6	6.6	5.3	1.3	5.3	4.0
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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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	
521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	112.5°	135.5
506.1	496.9	500.8	496.9	499.5	491.6	494.2	487.7	487.7	486.3	479.7	115°	158.0
489.0	479.7	478.4	469.2	470.5	460.0	458.7	446.8	446.8	436.3	416.5	117.5°	180.5
465.2	450.7	449.4	431.0	429.7	415.2	409.9	396.7	395.4	383.5	371.7	120°	204.0
434.9	412.5	408.6	384.9	386.2	370.4	369.0	359.8	359.8	354.5	354.5	122.5°	228.5
400.7	375.6	373.0	354.5	355.9	345.3	346.6	341.4	344.0	346.6	355.9	125°	254.0
369.0	349.3	346.6	334.8	336.1	333.4	337.4	337.4	341.4	347.9	363.8	127.5°	277.5
342.7	325.5	326.9	321.6	326.9	325.5	333.4	332.1	340.0	347.9	367.7	130°	301.5
319.0	309.7	313.7	312.4	319.0	319.0	325.5	326.9	333.4	344.0	366.4	132.5°	325.5
303.1	300.5	304.5	304.5	309.7	311.0	317.6	321.6	325.5	336.1	355.9	135°	348.5
293.9	292.6	296.5	297.9	301.8	303.1	309.7	309.7	316.3	322.9	333.4	137.5°	369.5
280.7	278.1	283.4	283.4	288.6	287.3	295.2	292.6	299.2	301.8	304.5	140°	391.0
271.5	267.6	271.5	270.2	274.1	270.2	274.1	270.2	274.1	274.1	270.2	142.5°	412.5
262.3	258.3	259.6	254.4	258.3	253.1	254.4	249.1	251.7	249.1	250.4	145°	433.5
253.1	247.8	247.8	241.2	241.2	234.6	237.2	232.0	237.2	241.2	239.9	147.5°	452.5
239.9	235.9	235.9	230.6	233.3	230.6	235.9	233.3	234.6	229.3	220.1	150°	469.0
232.0	234.6	233.3	237.2	234.6	230.6	226.7	218.8	217.5	214.8	209.6	152.5°	486.0
220.1	222.7	216.1	221.4	217.5	218.8	216.1	212.2	209.6	206.9	201.7	155°	503.5
203.0	203.0	197.7	205.6	201.7	209.6	206.9	206.9	204.3	200.3	196.4	157.5°	517.5
188.5	189.8	184.5	191.1	188.5	199.0	197.7	201.7	201.7	199.0	188.5	160°	530.0
179.2	176.6	172.7	179.2	177.9	187.2	188.5	196.4	195.1	196.4	187.2	162.5°	539.0
171.3	166.1	162.1	166.1	166.1	174.0	176.6	185.8	187.2	189.8	184.5	165°	549.0
162.1	155.5	152.9	155.5	155.5	163.4	167.4	174.0	177.9	185.8	183.2	167.5°	558.5
154.2	145.0	142.3	145.0	146.3	154.2	158.2	164.7	170.0	180.6	179.2	170°	565.0
145.0	137.1	134.4	138.4	139.7	147.6	151.6	158.2	162.1	174.0	174.0	172.5°	567.5
134.4	127.8	127.8	129.2	131.8	139.7	142.3	151.6	152.9	167.4	168.7	175°	569.0
125.2	121.3	121.3	122.6	125.2	131.8	133.1	142.3	143.7	158.2	162.1	177.5°	574.0
117.3	114.7	114.7	116.0	117.3	122.6	123.9	133.1	135.8	148.9	155.5	180°	576.0
109.4	106.8	105.4	105.4	109.4	113.3	116.0	125.2	126.5	138.4	146.3		
100.2	97.5	97.5	96.2	100.2	102.8	108.1	113.3	116.0	127.8	133.1		
90.9	88.3	88.3	87.0	89.6	94.9	96.2	101.5	102.8	113.3	118.6		
79.1	76.4	76.4	76.4	79.1	80.4	81.7	87.0	89.6	98.8	104.1		
65.9	63.3	64.6	63.3	67.2	61.9	65.9	71.2	73.8	79.1	76.4		
50.1	46.1	47.4	47.4	48.8	44.8	47.4	50.1	52.7	56.7	55.4		
31.6	27.7	30.3	27.7	30.3	26.4	29.0	29.0	31.6	29.0	27.7		
6.6	2.6	6.6	2.6	7.9	0.0	4.0	0.0	2.6	1.3	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		

'227533  
 ISS-AF-800-LED-E1-T2-8030-ULG

REPORT NUMBER: P227533  
 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°	521.9	521.9
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	2.5°	473.2	467.9
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	5°	405.9	396.7
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	7.5°	365.1	362.4
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	10°	357.2	361.1
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	12.5°	366.4	373.0
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	15°	378.3	390.1
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	17.5°	387.5	403.3
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	20°	388.8	404.6
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	22.5°	376.9	387.5
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	25°	346.6	351.9
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	27.5°	308.4	307.1
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	30°	268.9	266.2
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	32.5°	254.4	245.1
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	35°	232.0	229.3
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	37.5°	224.1	246.5
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	40°	214.8	242.5
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	42.5°	206.9	222.7
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	45°	192.4	199.0
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	47.5°	185.8	183.2
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	50°	180.6	180.6
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	52.5°	176.6	174.0
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	55°	171.3	168.7
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	57.5°	167.4	160.8
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	60°	163.4	156.8
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	62.5°	160.8	152.9
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	65°	156.8	148.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	151.6	141.0
										70°	141.0	131.8
										72.5°	130.5	119.9
										75°	114.7	105.4
										77.5°	96.2	85.7
										80°	72.5	65.9
										82.5°	52.7	44.8
										85°	23.7	17.1
										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°
521.9	521.9
465.2	463.9
394.1	391.4
362.4	361.1
362.4	362.4
378.3	378.3
396.7	396.7
409.9	411.2
413.8	415.2
394.1	394.1
355.9	355.9
305.8	311.0
261.0	266.2
232.0	235.9
222.7	224.1
245.1	246.5
241.2	243.8
206.9	208.2
185.8	185.8
177.9	176.6
177.9	175.3
183.2	181.9
175.3	175.3
171.3	171.3
167.4	167.4
166.1	164.7
166.1	163.4
163.4	159.5
154.2	143.7
131.8	122.6
106.8	105.4
83.0	84.4
63.3	63.3
46.1	38.2
13.2	13.2
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



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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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