

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: P227530

Luminaire Tested: **ISS-AF-800-LED-E1-T2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227530
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-T2-7030-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, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5667.2 lumens
Efficiency: N/A
Efficacy: 94.1 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

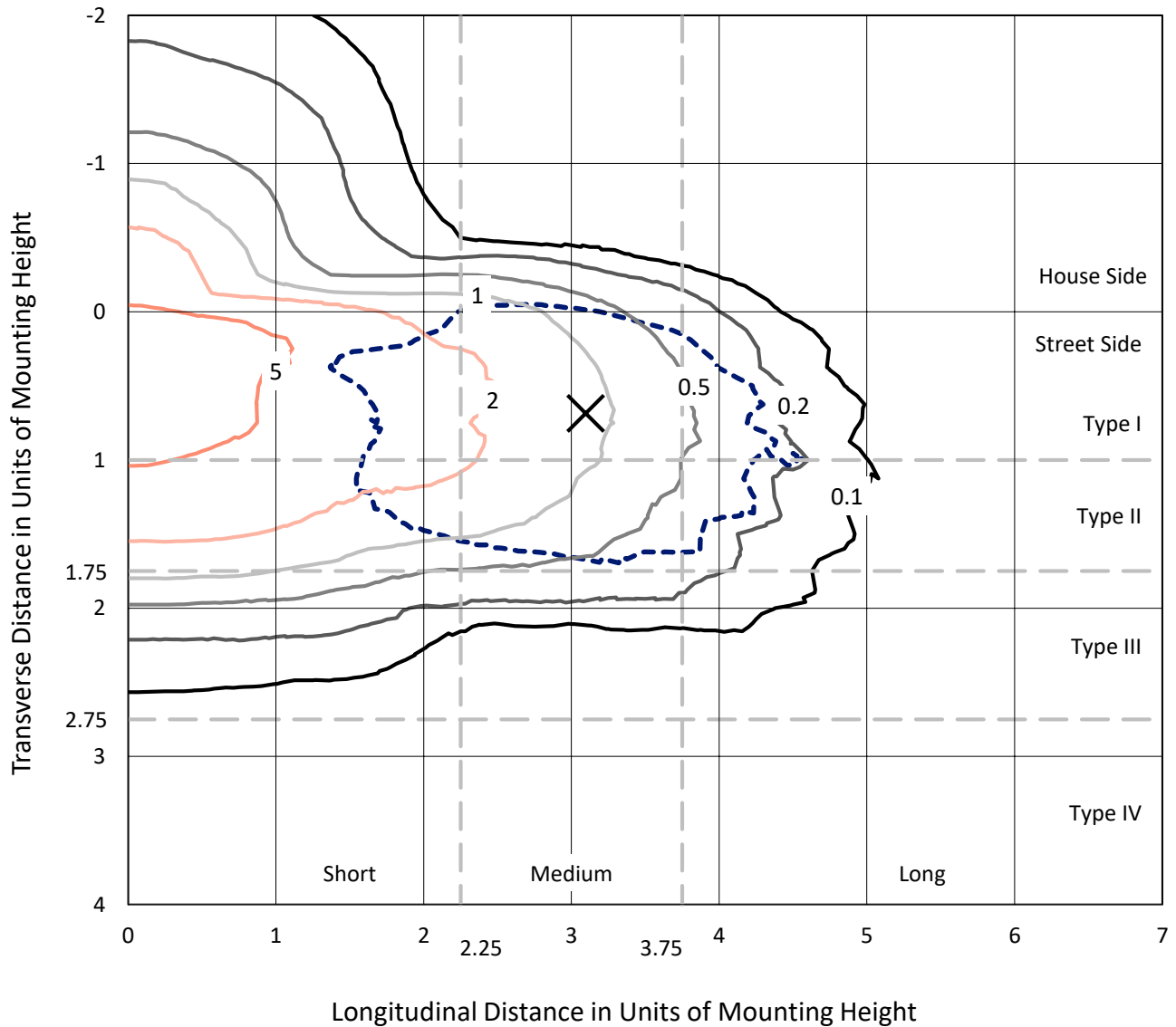
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

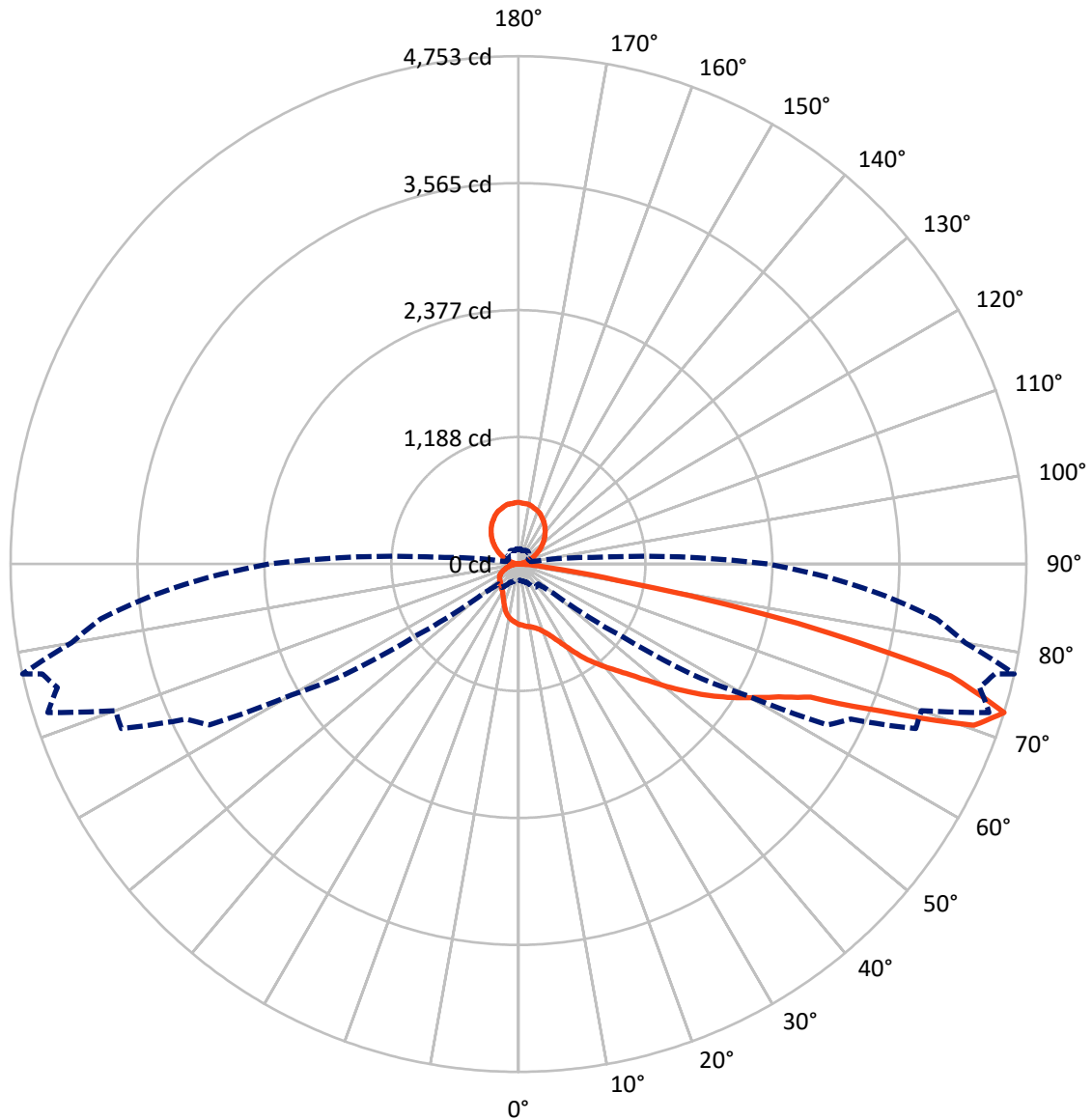
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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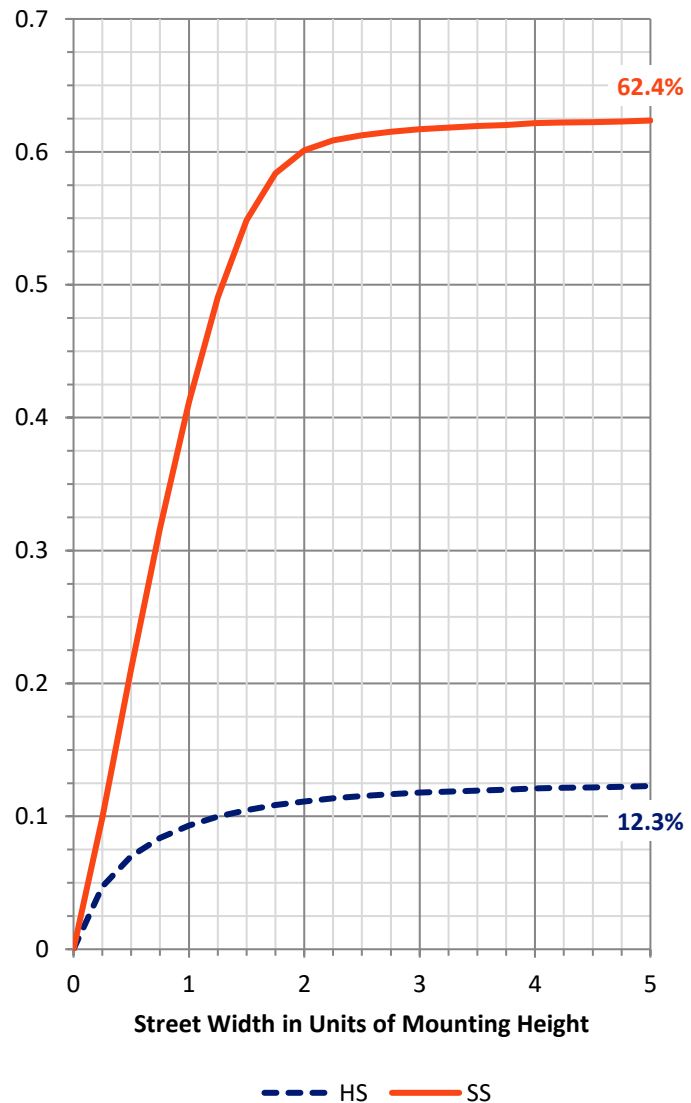
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	702.7	713.1	1415.8
	% Fixture	12.4	12.6	25.0
Street Side	Lumens	3538.3	713.1	4251.4
	% Fixture	62.4	12.6	75.0
Total	Lumens	4241.0	1426.2	5667.2
	% Fixture	74.8	25.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	0.9
10°-20°	161.3	2.8
20°-30°	286.3	5.1
30°-40°	453.6	8.0
40°-50°	680.5	12.0
50°-60°	881.8	15.6
60°-70°	1001.9	17.7
70°-80°	664.9	11.7
80°-90°	58.2	1.0
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.7
120°-130°	223.9	4.0
130°-140°	265.6	4.7
140°-150°	269.3	4.8
150°-160°	231.1	4.1
160°-170°	155.1	2.7
170°-180°	54.3	1.0
0°-90°	4241.0	74.8
0°-180°	5667.2	100.0

Coefficient of Utilization



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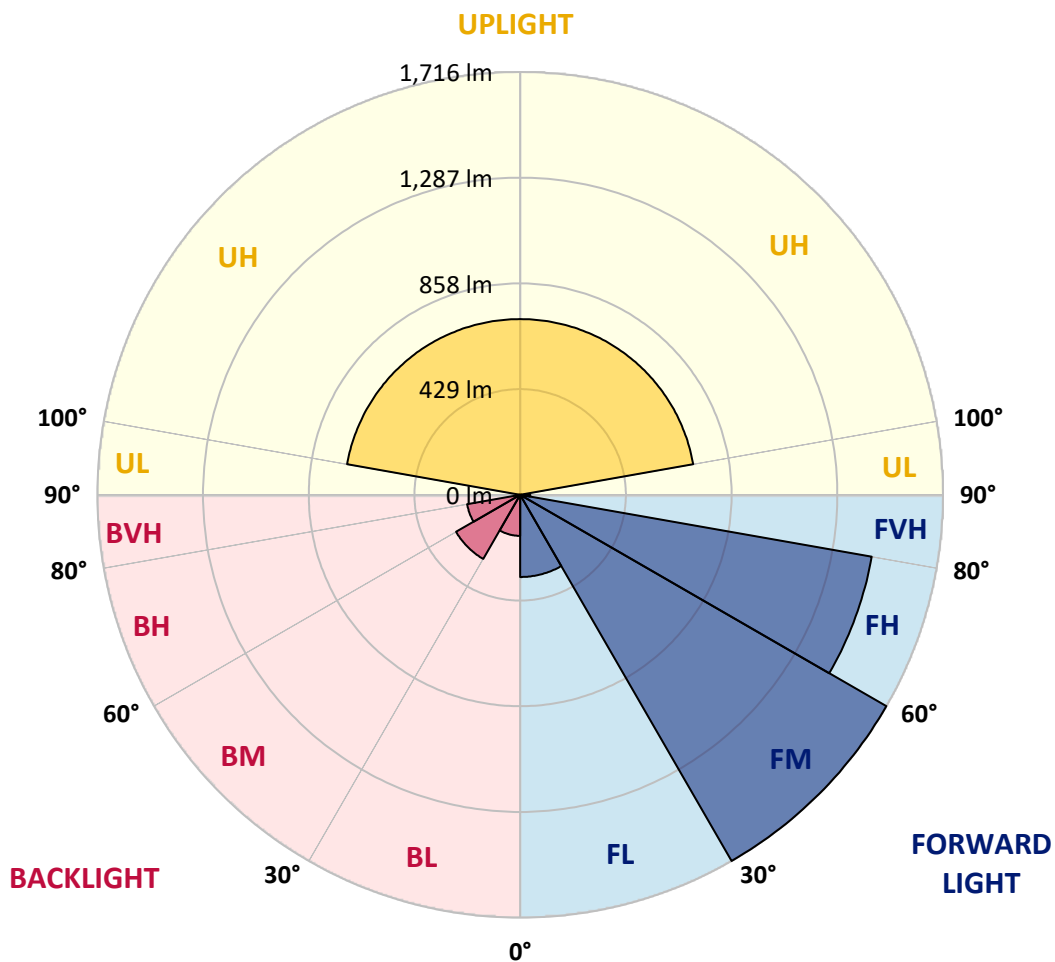
CATALOG NUMBER: ISS-AF-800-LED-E1-T2-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.6	5.9			
FM (30°-60°)	1715.7	30.3			
FH (60°-80°)	1448.3	25.6			G1/1800
FVH (80°-90°)	40.6	0.7			G1/100
BL (0°-30°)	166.5	2.9	B1/500		
BM (30°-60°)	300.2	5.3	B1/1000		
BH (60°-80°)	218.5	3.9	B1/500		G1/500
BVH (80°-90°)	17.5	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	12.6		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°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	613.4	610.6	609.1	606.3	603.4	602.0	597.7	594.8	599.1	597.7	597.7
5°	659.2	656.3	652.0	647.8	642.0	637.7	633.5	629.2	632.0	629.2	626.3
7.5°	696.4	693.5	687.8	683.5	677.8	672.1	666.3	664.9	662.1	657.8	656.3
10°	717.8	715.0	712.1	709.2	700.7	696.4	689.2	684.9	686.4	680.6	680.6
12.5°	737.8	735.0	733.5	733.5	726.4	722.1	719.2	715.0	717.8	709.2	706.4
15°	756.4	753.6	749.3	753.6	752.1	750.7	749.3	747.8	752.1	743.6	745.0
17.5°	786.5	785.0	776.4	770.7	772.2	776.4	779.3	777.9	777.9	773.6	775.0
20°	833.6	833.6	822.2	812.2	796.5	796.5	797.9	796.5	799.3	802.2	806.5
22.5°	869.4	866.5	862.2	853.7	836.5	822.2	822.2	816.5	820.8	822.2	830.8
25°	915.1	912.3	902.3	902.3	885.1	866.5	863.7	855.1	865.1	846.5	860.8
27.5°	970.9	968.1	955.2	949.5	940.9	918.0	912.3	913.7	923.7	896.6	910.9
30°	1041.0	1038.1	1022.4	1006.7	992.4	968.1	965.2	963.8	986.6	955.2	973.8
32.5°	1129.6	1129.6	1112.5	1091.0	1062.4	1029.5	1018.1	1019.5	1051.0	1016.7	1048.1
35°	1264.0	1246.9	1215.4	1182.5	1152.5	1113.9	1098.2	1095.3	1123.9	1089.6	1125.3
37.5°	1349.8	1338.4	1309.8	1285.5	1252.6	1215.4	1204.0	1208.3	1232.6	1182.5	1234.0
40°	1427.1	1425.6	1407.0	1391.3	1358.4	1321.2	1335.5	1392.7	1457.1	1359.9	1361.3
42.5°	1478.5	1481.4	1480.0	1481.4	1462.8	1424.2	1448.5	1528.6	1638.7	1581.5	1528.6
45°	1487.1	1497.1	1501.4	1530.0	1548.6	1525.7	1538.6	1623.0	1843.2	1931.8	1693.0
47.5°	1508.6	1518.6	1510.0	1544.3	1630.1	1628.7	1680.2	1711.6	1741.6	1755.9	1936.1
50°	1537.2	1555.8	1547.2	1575.8	1645.8	1685.9	1730.2	1770.2	1745.9	1655.8	1704.5
52.5°	1538.6	1560.0	1607.2	1635.8	1704.5	1695.9	1725.9	1704.5	1741.6	1648.7	1695.9
55°	1412.8	1417.1	1554.3	1698.7	1818.9	1794.5	1776.0	1727.3	1774.5	1658.7	1718.8
57.5°	1214.0	1228.3	1371.3	1614.4	1871.8	1893.2	1887.5	1883.2	1920.4	1766.0	1831.7
60°	995.2	1012.4	1148.2	1434.2	1761.7	1817.4	1894.6	1941.8	2037.6	1976.1	2084.8
62.5°	620.6	633.5	783.6	1141.1	1554.3	1664.4	1777.4	1833.2	1971.9	2000.5	2184.9
65°	296.0	300.3	358.9	620.6	1129.6	1337.0	1504.3	1623.0	1793.1	1921.8	2170.6
67.5°	230.2	231.6	253.1	330.3	579.1	717.8	908.0	1065.3	1246.9	1598.6	1907.5
70°	184.5	184.5	201.6	243.1	358.9	377.5	426.1	479.0	556.2	839.4	1089.6
72.5°	154.4	154.4	165.9	191.6	266.0	270.3	267.4	263.1	263.1	331.7	423.3
75°	130.1	128.7	135.8	153.0	197.3	203.0	200.2	190.2	178.7	178.7	201.6
77.5°	105.8	105.8	111.5	120.1	143.0	145.9	145.9	137.3	127.3	128.7	138.7
80°	82.9	82.9	87.2	92.9	100.1	98.7	98.7	90.1	82.9	81.5	87.2
82.5°	60.1	61.5	71.5	67.2	64.3	60.1	60.1	58.6	52.9	48.6	51.5
85°	18.6	20.0	34.3	40.0	32.9	27.2	25.7	21.4	22.9	18.6	21.4
87.5°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	0.0	1.4
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°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	590.6	593.4	587.7	587.7	580.5	584.8	577.7	579.1	572.0	574.8	574.8
5°	619.2	620.6	613.4	610.6	603.4	603.4	596.3	596.3	586.3	589.1	586.3
7.5°	646.3	646.3	639.2	633.5	626.3	623.4	614.9	610.6	602.0	600.6	596.3
10°	669.2	669.2	659.2	653.5	644.9	640.6	629.2	624.9	614.9	607.7	603.4
12.5°	697.8	694.9	683.5	677.8	663.5	662.1	644.9	642.0	627.7	623.4	616.3
15°	732.1	735.0	716.4	715.0	694.9	693.5	670.6	669.2	647.8	646.3	636.3
17.5°	769.3	775.0	759.3	757.9	733.5	733.5	706.4	705.0	676.4	674.9	662.1
20°	802.2	809.3	799.3	802.2	780.7	782.2	752.1	752.1	712.1	709.2	697.8
22.5°	832.2	846.5	837.9	853.7	832.2	842.2	802.2	809.3	762.1	756.4	739.3
25°	862.2	880.8	878.0	903.7	888.0	905.1	863.7	878.0	816.5	820.8	797.9
27.5°	892.3	916.6	913.7	950.9	945.2	979.5	943.7	959.5	892.3	896.6	870.8
30°	942.3	969.5	959.5	998.1	998.1	1053.9	1026.7	1051.0	976.6	985.2	955.2
32.5°	1009.5	1041.0	1011.0	1061.0	1058.1	1131.1	1109.6	1151.1	1078.2	1089.6	1052.4
35°	1082.4	1132.5	1083.9	1139.6	1131.1	1206.9	1192.6	1259.8	1182.5	1195.4	1158.2
37.5°	1178.3	1238.3	1174.0	1222.6	1184.0	1271.2	1262.6	1354.1	1275.5	1308.4	1264.0
40°	1291.2	1338.4	1258.3	1299.8	1235.5	1325.5	1311.2	1437.1	1364.1	1417.1	1377.0
42.5°	1395.6	1428.5	1322.7	1374.2	1296.9	1388.5	1362.7	1514.3	1451.4	1532.9	1488.5
45°	1490.0	1527.2	1387.0	1444.2	1358.4	1458.5	1414.2	1588.6	1545.7	1668.7	1624.4
47.5°	1624.4	1570.1	1445.6	1520.0	1424.2	1534.3	1475.7	1675.9	1660.1	1834.6	1783.1
50°	1580.1	1615.8	1494.3	1571.5	1484.3	1618.7	1554.3	1780.2	1784.5	2014.8	1984.7
52.5°	1584.4	1644.4	1531.4	1638.7	1554.3	1735.9	1668.7	1906.1	1926.1	2189.2	2147.7
55°	1610.1	1698.7	1587.2	1731.6	1653.0	1866.0	1818.9	2041.9	2076.2	2353.6	2329.3
57.5°	1674.4	1797.4	1683.0	1871.8	1790.3	2014.8	1971.9	2182.1	2229.2	2518.1	2510.9
60°	1921.8	2067.7	1867.5	2076.2	1967.6	2183.5	2126.3	2329.3	2376.5	2675.4	2694.0
62.5°	2197.8	2450.9	2332.2	2549.5	2262.1	2480.9	2312.2	2510.9	2513.8	2844.1	2902.7
65°	2269.3	2658.2	2759.7	3164.4	3014.3	3238.8	2788.3	2921.3	2749.7	3151.5	3235.9
67.5°	2242.1	2718.3	3000.0	3456.1	3626.3	4018.1	3942.3	3896.5	3499.0	3787.9	3889.4
70°	1645.8	2150.6	2839.8	3303.1	3793.6	4051.0	4458.5	4500.0	4482.8	4442.8	4510.0
72.5°	749.3	1175.4	1921.8	2450.9	3260.2	3433.2	4023.8	4012.4	4618.6	4468.5	4574.3
75°	294.6	453.3	915.1	1368.4	2255.0	2468.0	3137.2	2971.4	3727.8	3507.6	3733.5
77.5°	161.6	203.0	343.2	587.7	1231.2	1344.1	1920.4	1643.0	2312.2	1930.4	2006.2
80°	97.2	121.5	157.3	223.1	523.4	553.4	819.3	660.6	945.2	717.8	696.4
82.5°	52.9	65.8	78.6	110.1	194.5	215.9	283.1	254.5	303.1	258.8	253.1
85°	21.4	28.6	30.0	44.3	64.3	74.4	90.1	97.2	118.7	108.7	105.8
87.5°	0.0	1.4	0.0	2.9	0.0	2.9	0.0	4.3	4.3	7.1	8.6
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°	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°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	570.5	574.8	569.1	569.1	562.0	566.2	562.0	557.7	550.5	551.9	541.9
5°	580.5	583.4	576.3	573.4	569.1	567.7	559.1	550.5	540.5	540.5	529.1
7.5°	590.6	590.6	580.5	580.5	570.5	567.7	554.8	540.5	526.2	524.8	507.6
10°	596.3	594.8	582.0	582.0	567.7	566.2	550.5	529.1	509.1	503.3	479.0
12.5°	607.7	606.3	590.6	587.7	569.1	569.1	546.2	517.6	489.0	479.0	444.7
15°	622.0	623.4	604.9	600.6	579.1	577.7	546.2	503.3	464.7	449.0	407.5
17.5°	644.9	646.3	620.6	616.3	590.6	586.3	547.7	486.2	431.8	414.7	377.5
20°	674.9	670.6	636.3	634.9	600.6	596.3	546.2	460.4	398.9	381.8	348.9
22.5°	712.1	707.8	663.5	659.2	619.2	612.0	544.8	433.3	368.9	350.3	328.9
25°	763.6	757.9	703.5	697.8	647.8	636.3	543.4	404.7	343.2	328.9	316.0
27.5°	827.9	816.5	750.7	745.0	677.8	663.5	537.6	371.8	317.4	307.4	301.7
30°	905.1	895.1	810.8	802.2	717.8	699.2	531.9	341.8	298.9	294.6	290.3
32.5°	996.7	986.6	883.7	873.7	769.3	742.1	521.9	317.4	287.4	287.4	281.7
35°	1092.5	1083.9	962.3	955.2	826.5	790.7	509.1	296.0	277.4	277.4	271.7
37.5°	1178.3	1185.4	1048.1	1042.4	883.7	839.4	494.8	281.7	268.8	266.0	260.2
40°	1271.2	1288.4	1128.2	1132.5	943.7	890.8	477.6	270.3	258.8	256.0	254.5
42.5°	1365.6	1398.5	1212.6	1228.3	1003.8	943.7	464.7	263.1	254.5	248.8	247.4
45°	1482.8	1530.0	1317.0	1347.0	1073.9	1008.1	460.4	254.5	241.7	234.5	230.2
47.5°	1628.7	1691.6	1445.6	1480.0	1166.8	1085.3	469.0	251.7	233.1	224.5	215.9
50°	1801.7	1861.8	1598.6	1612.9	1271.2	1169.7	487.6	256.0	230.2	217.3	204.5
52.5°	1984.7	2030.5	1760.2	1744.5	1379.9	1252.6	509.1	257.4	223.1	210.2	194.5
55°	2173.5	2199.2	1910.4	1868.9	1478.5	1335.5	537.6	256.0	217.3	203.0	183.0
57.5°	2357.9	2366.5	2043.4	2003.3	1575.8	1434.2	573.4	251.7	208.8	194.5	173.0
60°	2538.1	2552.4	2190.6	2153.5	1681.6	1561.5	624.9	244.5	197.3	187.3	164.4
62.5°	2735.4	2782.6	2366.5	2372.2	1827.4	1760.2	722.1	235.9	185.9	174.5	151.6
65°	3004.3	3184.4	2656.8	2791.2	2107.7	2134.9	908.0	211.6	170.2	155.9	140.1
67.5°	3677.8	3875.1	3361.7	3416.1	2764.0	2602.5	1025.3	180.2	150.1	140.1	130.1
70°	4521.4	4379.8	4015.2	3686.3	3147.3	2675.4	902.3	151.6	133.0	127.3	121.5
72.5°	4753.1	4245.4	3945.1	3451.8	2909.9	2333.6	690.7	130.1	118.7	115.8	111.5
75°	4176.8	3441.8	3459.0	2742.6	2412.3	1778.8	471.9	111.5	103.0	101.5	100.1
77.5°	2671.1	1768.8	2153.5	1355.6	1392.7	823.6	230.2	92.9	88.7	88.7	85.8
80°	949.5	589.1	666.3	427.5	388.9	261.7	124.4	74.4	71.5	72.9	71.5
82.5°	284.6	225.9	221.6	173.0	134.4	110.1	68.6	57.2	54.3	55.8	52.9
85°	114.4	88.7	74.4	57.2	47.2	42.9	37.2	38.6	34.3	37.2	32.9
87.5°	7.1	5.7	4.3	5.7	0.0	2.9	7.1	5.7	1.4	5.7	4.3
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°	4.8	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°	
566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	112.5°	135.5
549.1	539.1	543.4	539.1	541.9	533.4	536.2	529.1	529.1	527.6	520.5	115°	158.0
530.5	520.5	519.1	509.1	510.5	499.0	497.6	484.7	484.7	473.3	451.9	117.5°	180.5
504.8	489.0	487.6	467.6	466.2	450.4	444.7	430.4	429.0	416.1	403.2	120°	204.0
471.9	447.6	443.3	417.5	419.0	401.8	400.4	390.4	390.4	384.6	384.6	122.5°	228.5
434.7	407.5	404.7	384.6	386.1	374.6	376.1	370.3	373.2	376.1	386.1	125°	254.0
400.4	378.9	376.1	363.2	364.6	361.8	366.1	366.1	370.3	377.5	394.7	127.5°	277.5
371.8	353.2	354.6	348.9	354.6	353.2	361.8	360.3	368.9	377.5	398.9	130°	301.5
346.0	336.0	340.3	338.9	346.0	346.0	353.2	354.6	361.8	373.2	397.5	132.5°	325.5
328.9	326.0	330.3	330.3	336.0	337.5	344.6	348.9	353.2	364.6	386.1	135°	348.5
318.9	317.4	321.7	323.2	327.5	328.9	336.0	336.0	343.2	350.3	361.8	137.5°	369.5
304.6	301.7	307.4	307.4	313.2	311.7	320.3	317.4	324.6	327.5	330.3	140°	391.0
294.6	290.3	294.6	293.1	297.4	293.1	297.4	293.1	297.4	297.4	293.1	142.5°	412.5
284.6	280.3	281.7	276.0	280.3	274.5	276.0	270.3	273.1	270.3	271.7	145°	433.5
274.5	268.8	268.8	261.7	261.7	254.5	257.4	251.7	257.4	261.7	260.2	147.5°	452.5
260.2	256.0	256.0	250.2	253.1	250.2	256.0	253.1	254.5	248.8	238.8	150°	469.0
251.7	254.5	253.1	257.4	254.5	250.2	245.9	237.4	235.9	233.1	227.4	152.5°	486.0
238.8	241.7	234.5	240.2	235.9	237.4	234.5	230.2	227.4	224.5	218.8	155°	503.5
220.2	220.2	214.5	223.1	218.8	227.4	224.5	224.5	221.6	217.3	213.1	157.5°	517.5
204.5	205.9	200.2	207.3	204.5	215.9	214.5	218.8	218.8	215.9	204.5	160°	530.0
194.5	191.6	187.3	194.5	193.0	203.0	204.5	213.1	211.6	213.1	203.0	162.5°	539.0
185.9	180.2	175.9	180.2	180.2	188.7	191.6	201.6	203.0	205.9	200.2	165°	549.0
175.9	168.7	165.9	168.7	168.7	177.3	181.6	188.7	193.0	201.6	198.8	167.5°	558.5
167.3	157.3	154.4	157.3	158.7	167.3	171.6	178.7	184.5	195.9	194.5	170°	565.0
157.3	148.7	145.9	150.1	151.6	160.2	164.4	171.6	175.9	188.7	188.7	172.5°	567.5
145.9	138.7	138.7	140.1	143.0	151.6	154.4	164.4	165.9	181.6	183.0	175°	569.0
135.8	131.6	131.6	133.0	135.8	143.0	144.4	154.4	155.9	171.6	175.9	177.5°	574.0
127.3	124.4	124.4	125.8	127.3	133.0	134.4	144.4	147.3	161.6	168.7	180°	576.0
118.7	115.8	114.4	114.4	118.7	123.0	125.8	135.8	137.3	150.1	158.7		
108.7	105.8	105.8	104.4	108.7	111.5	117.3	123.0	125.8	138.7	144.4		
98.7	95.8	95.8	94.4	97.2	103.0	104.4	110.1	111.5	123.0	128.7		
85.8	82.9	82.9	82.9	85.8	87.2	88.7	94.4	97.2	107.2	113.0		
71.5	68.6	70.1	68.6	72.9	67.2	71.5	77.2	80.1	85.8	82.9		
54.3	50.0	51.5	51.5	52.9	48.6	51.5	54.3	57.2	61.5	60.1		
34.3	30.0	32.9	30.0	32.9	28.6	31.5	31.5	34.3	31.5	30.0		
7.1	2.9	7.1	2.9	8.6	0.0	4.3	0.0	2.9	1.4	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-T2-7030-ULG

REPORT NUMBER: P227530
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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°	566.2	566.2
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	2.5°	513.3	507.6
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	5°	440.4	430.4
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	7.5°	396.1	393.2
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	10°	387.5	391.8
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	12.5°	397.5	404.7
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	15°	410.4	423.3
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	17.5°	420.4	437.6
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	20°	421.8	439.0
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	22.5°	409.0	420.4
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	25°	376.1	381.8
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	27.5°	334.6	333.2
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	30°	291.7	288.8
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	32.5°	276.0	266.0
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	35°	251.7	248.8
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	37.5°	243.1	267.4
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	40°	233.1	263.1
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	42.5°	224.5	241.7
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	45°	208.8	215.9
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	47.5°	201.6	198.8
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	50°	195.9	195.9
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	52.5°	191.6	188.7
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	55°	185.9	183.0
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	57.5°	181.6	174.5
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	60°	177.3	170.2
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	62.5°	174.5	165.9
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	65°	170.2	161.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	164.4	153.0
										70°	153.0	143.0
										72.5°	141.6	130.1
										75°	124.4	114.4
										77.5°	104.4	92.9
										80°	78.6	71.5
										82.5°	57.2	48.6
										85°	25.7	18.6
										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°	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°
566.2	566.2
504.8	503.3
427.5	424.7
393.2	391.8
393.2	393.2
410.4	410.4
430.4	430.4
444.7	446.1
449.0	450.4
427.5	427.5
386.1	386.1
331.7	337.5
283.1	288.8
251.7	256.0
241.7	243.1
266.0	267.4
261.7	264.5
224.5	225.9
201.6	201.6
193.0	191.6
193.0	190.2
198.8	197.3
190.2	190.2
185.9	185.9
181.6	181.6
180.2	178.7
180.2	177.3
177.3	173.0
167.3	155.9
143.0	133.0
115.8	114.4
90.1	91.5
68.6	68.6
50.0	41.5
14.3	14.3
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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