

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: P226968

Luminaire Tested: **IST-AF-1200-LED-E1-SL3-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1200-LED-E1-SL3-7050-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, 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: 8262 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

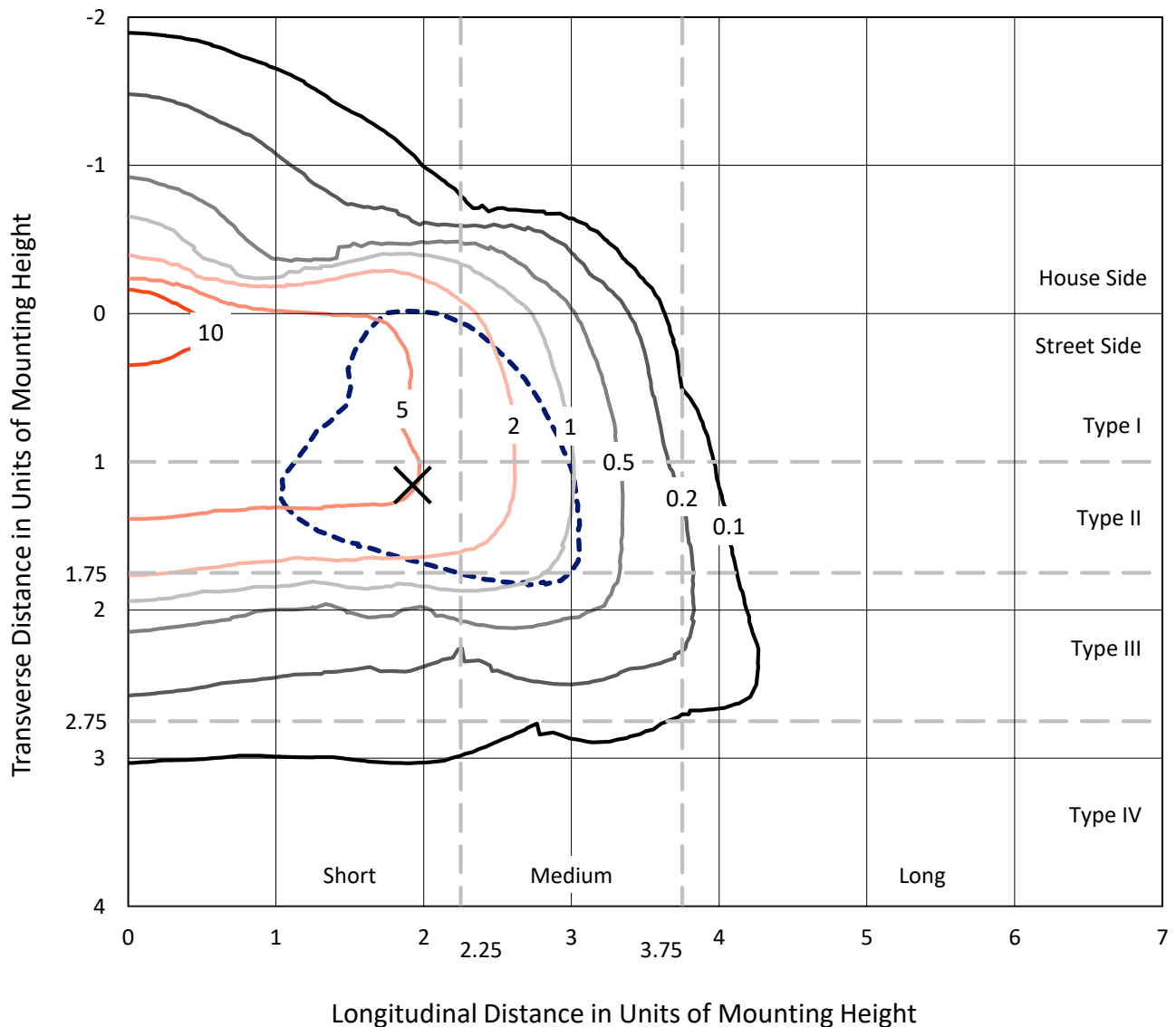
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

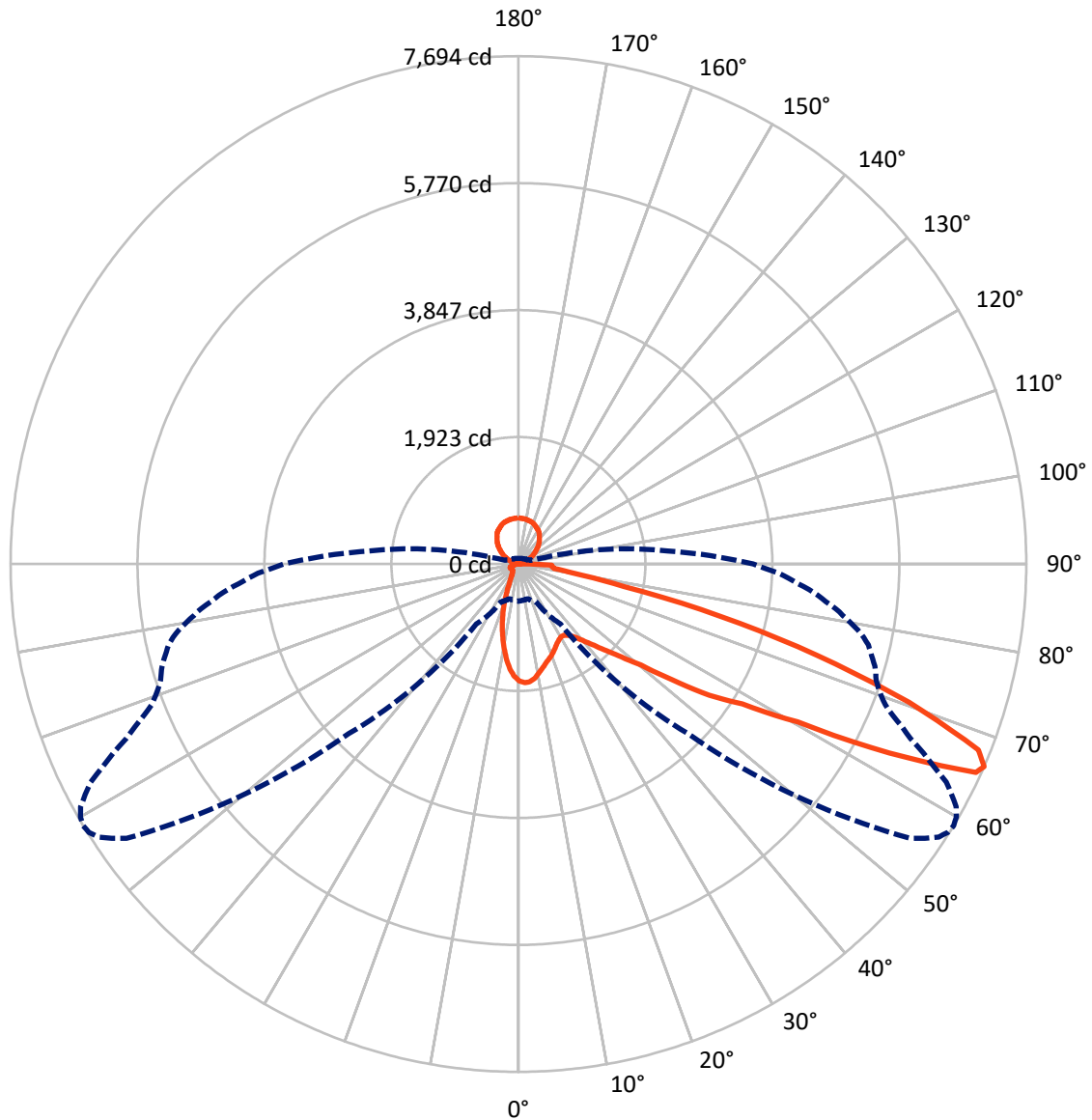


Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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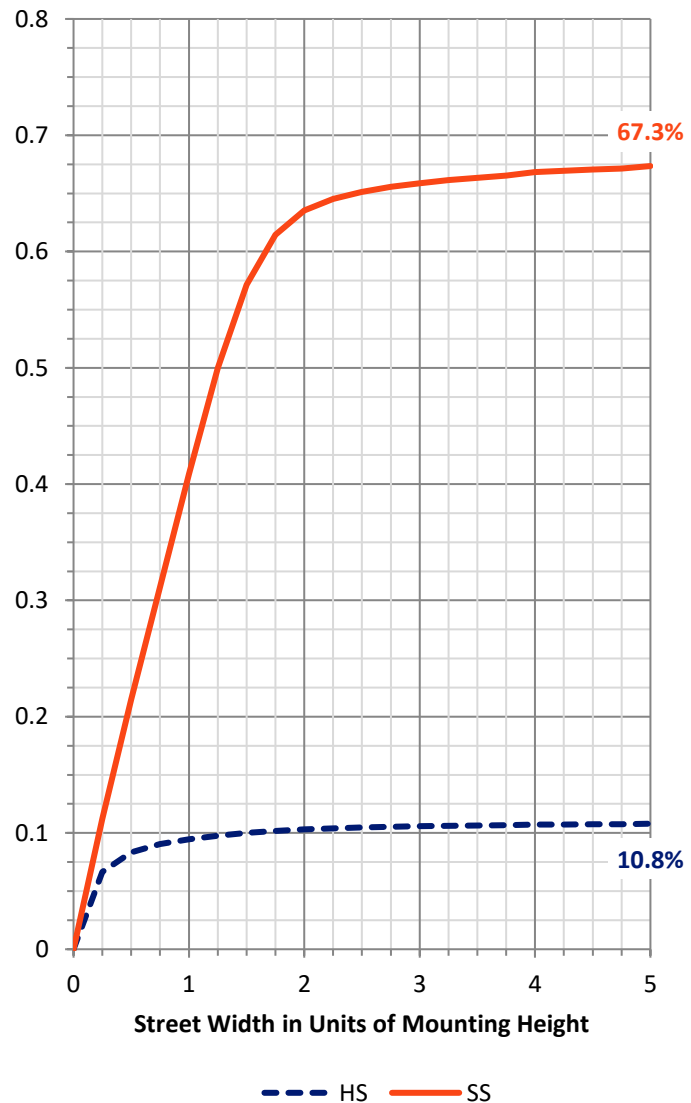
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.9	868.0	1773.9
	% Fixture	11.0	10.5	21.5
Street Side	Lumens	5618.1	870.0	6488.0
	% Fixture	68.0	10.5	78.5
Total	Lumens	6524.0	1737.9	8262.0
	% Fixture	79.0	21.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	1.8
10°-20°	319.2	3.9
20°-30°	400.4	4.8
30°-40°	547.9	6.6
40°-50°	881.4	10.7
50°-60°	1531.5	18.5
60°-70°	1860.8	22.5
70°-80°	694.1	8.4
80°-90°	137.5	1.7
90°-100°	12.1	0.1
100°-110°	57.4	0.7
110°-120°	166.1	2.0
120°-130°	273.2	3.3
130°-140°	336.8	4.1
140°-150°	344.6	4.2
150°-160°	290.3	3.5
160°-170°	191.2	2.3
170°-180°	66.3	0.8
0°-90°	6524.0	79.0
0°-180°	8262.0	100.0

Coefficient of Utilization



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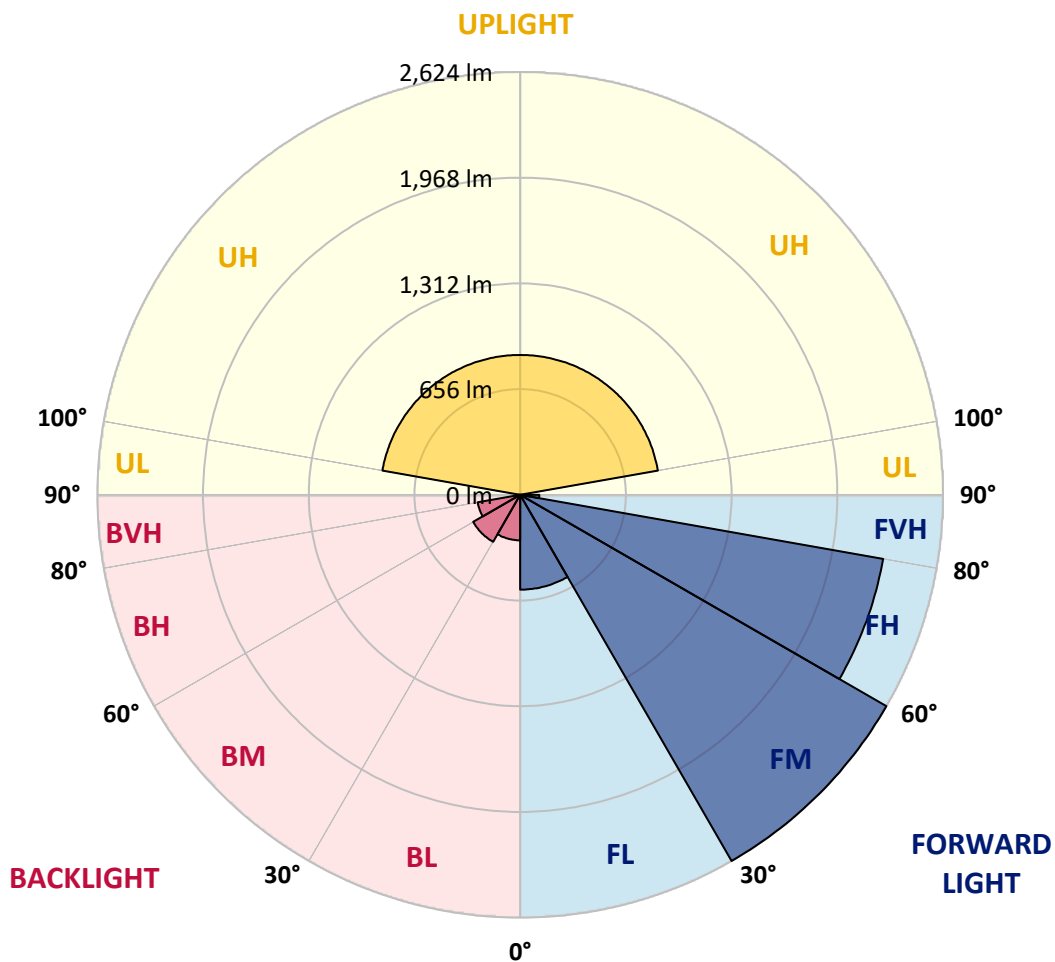
CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.5	7.1			
FM (30°-60°)	2624.1	31.8			
FH (60°-80°)	2287.2	27.7			G2/5000
FVH (80°-90°)	118.3	1.4			G2/225
BL (0°-30°)	282.3	3.4	B1/500		
BM (30°-60°)	336.7	4.1	B1/1000		
BH (60°-80°)	267.7	3.2	B1/500		G1/500
BVH (80°-90°)	19.2	0.2			G1/100
UL (90°-100°)	12.1	0.1		U2/50	
UH (100°-180°)	868.0	10.5		U4/1000	

BUG Rating: B1-U5-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9
2.5°	1818.9	1812.9	1823.9	1819.9	1822.9	1807.9	1804.9	1801.9	1803.9	1800.9	1800.9
5°	1775.9	1772.9	1785.9	1792.9	1798.9	1796.9	1795.9	1795.9	1796.9	1789.9	1790.9
7.5°	1649.8	1647.8	1665.8	1678.8	1707.8	1724.8	1746.9	1747.9	1749.9	1746.9	1752.9
10°	1515.7	1521.7	1537.8	1558.8	1601.8	1627.8	1669.8	1677.8	1680.8	1681.8	1682.8
12.5°	1387.7	1381.7	1401.7	1441.7	1499.7	1541.8	1594.8	1598.8	1603.8	1610.8	1617.8
15°	1273.6	1280.6	1296.6	1338.7	1399.7	1458.7	1527.7	1531.7	1541.8	1547.8	1557.8
17.5°	1195.6	1195.6	1213.6	1252.6	1309.6	1384.7	1471.7	1478.7	1486.7	1494.7	1505.7
20°	1156.6	1156.6	1163.6	1186.6	1236.6	1308.6	1413.7	1421.7	1435.7	1444.7	1459.7
22.5°	1153.6	1152.6	1151.6	1156.6	1186.6	1242.6	1351.7	1362.7	1374.7	1388.7	1401.7
25°	1185.6	1188.6	1176.6	1168.6	1171.6	1197.6	1292.6	1298.6	1321.6	1330.6	1346.7
27.5°	1231.6	1236.6	1226.6	1214.6	1196.6	1179.6	1242.6	1252.6	1267.6	1282.6	1302.6
30°	1297.6	1296.6	1295.6	1287.6	1252.6	1199.6	1227.6	1234.6	1247.6	1259.6	1276.6
32.5°	1368.7	1376.7	1382.7	1378.7	1342.7	1252.6	1248.6	1254.6	1266.6	1273.6	1284.6
35°	1460.7	1464.7	1487.7	1487.7	1451.7	1347.7	1307.6	1312.6	1318.6	1321.6	1329.6
37.5°	1561.8	1575.8	1609.8	1629.8	1573.8	1465.7	1400.7	1400.7	1403.7	1405.7	1410.7
40°	1678.8	1698.8	1745.9	1783.9	1747.9	1612.8	1522.7	1531.7	1528.7	1524.7	1535.7
42.5°	1814.9	1836.9	1893.9	1929.9	1908.9	1789.9	1686.8	1680.8	1689.8	1677.8	1681.8
45°	1973.0	1990.0	2048.0	2086.0	2103.0	2007.0	1901.9	1889.9	1889.9	1863.9	1874.9
47.5°	2115.0	2120.0	2176.1	2243.1	2298.1	2300.1	2152.1	2144.0	2125.0	2108.0	2104.0
50°	2247.1	2262.1	2298.1	2371.2	2486.2	2586.3	2496.2	2471.2	2450.2	2387.2	2406.2
52.5°	2476.2	2505.2	2528.2	2572.3	2708.3	2911.4	3022.5	2983.5	2978.5	2921.4	2908.4
55°	2519.2	2522.2	2598.3	2852.4	3172.5	3318.6	3531.7	3530.7	3546.7	3528.7	3511.7
57.5°	2317.1	2293.1	2420.2	2755.3	3398.7	4149.0	4084.0	4091.0	4070.0	4015.0	3998.0
60°	1804.9	1824.9	1962.0	2389.2	3235.6	4685.3	5114.5	4987.4	5078.5	4935.4	4858.4
62.5°	1015.5	992.5	1085.5	1534.7	2654.3	4713.3	6518.2	6532.2	6576.2	6496.2	6308.1
65°	655.3	645.3	636.3	776.4	1590.8	4123.0	7294.6	7466.6	7569.7	7611.7	7614.7
66°	563.3	555.3	544.3	635.3	1108.5	3632.8	7244.5	7428.6	7592.7	7670.7	7693.8
67.5°	479.2	467.2	465.2	526.3	771.4	2818.4	6767.3	7056.4	7201.5	7403.6	7513.7
70°	366.2	360.2	378.2	454.2	592.3	1326.6	5392.6	5769.8	6019.9	6178.0	6280.1
72.5°	307.1	305.1	330.2	415.2	561.3	752.4	3774.8	4180.0	4441.2	4592.2	4732.3
75°	240.1	242.1	275.1	396.2	558.3	655.3	2193.1	2579.3	2731.3	2969.4	3151.5
77.5°	180.1	178.1	204.1	320.2	544.3	664.3	1139.6	1299.6	1466.7	1587.8	1631.8
80°	126.1	128.1	146.1	220.1	424.2	683.3	710.3	747.4	782.4	821.4	829.4
82.5°	84.0	85.0	108.1	151.1	294.1	652.3	663.3	646.3	619.3	585.3	548.3
85°	51.0	53.0	77.0	102.0	228.1	590.3	686.3	641.3	600.3	555.3	510.2
87.5°	26.0	29.0	46.0	60.0	135.1	291.1	714.3	681.3	625.3	556.3	506.2
90°	12.0	12.0	17.0	23.0	35.0	66.0	187.1	169.3	88.4	161.7	83.8
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.1	7.2	7.3	7.4
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.8	11.6	11.4	11.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.7	28.4	28.1	27.8
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.7	49.4	49.1	48.8
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.8	71.6	71.4	71.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.9	94.8	94.7	94.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.1	120.2	120.3	120.4
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.2	148.4	148.6	148.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.3	179.6	179.9	180.2
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.4	211.8	212.2	212.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.4	246.8	247.2	247.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.4	279.8	280.2	280.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.2	313.4	313.6	313.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.1	345.2	345.3	345.4
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.4	377.8	378.2	378.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	411.5	412.0	412.5	413.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	443.5	444.0	444.5	445.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.2	473.4	473.6	473.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.2	500.4	500.6	500.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	527.6	528.2	528.8	529.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	556.6	557.2	557.8	558.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	580.5	581.0	581.5	582.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.3	597.6	597.9	598.2
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.3	611.6	611.9	612.2
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	626.5	627.0	627.5	628.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.4	644.8	645.2	645.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	658.6	659.2	659.8	660.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.4	667.8	668.2	668.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	672.5	673.0	673.5	674.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	678.6	679.2	679.8	680.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.3	686.6	686.9	687.2
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.3	689.6	689.9	690.2
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	690.5	691.0	691.5	692.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	694.5	695.0	695.5	696.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9
2.5°	1799.9	1801.9	1799.9	1796.9	1799.9	1796.9	1795.9	1794.9	1795.9	1793.9	1792.9
5°	1790.9	1792.9	1792.9	1786.9	1785.9	1789.9	1783.9	1785.9	1783.9	1781.9	1777.9
7.5°	1747.9	1748.9	1749.9	1745.9	1748.9	1748.9	1746.9	1746.9	1744.9	1745.9	1741.9
10°	1687.8	1691.8	1695.8	1693.8	1692.8	1701.8	1697.8	1700.8	1700.8	1697.8	1698.8
12.5°	1622.8	1629.8	1634.8	1634.8	1638.8	1648.8	1647.8	1649.8	1657.8	1657.8	1654.8
15°	1562.8	1569.8	1577.8	1583.8	1591.8	1598.8	1603.8	1611.8	1615.8	1615.8	1620.8
17.5°	1515.7	1525.7	1534.7	1537.8	1548.8	1560.8	1563.8	1573.8	1579.8	1582.8	1588.8
20°	1469.7	1480.7	1491.7	1501.7	1511.7	1525.7	1532.7	1538.8	1548.8	1554.8	1563.8
22.5°	1415.7	1432.7	1446.7	1458.7	1475.7	1487.7	1501.7	1511.7	1523.7	1532.7	1539.8
25°	1364.7	1387.7	1406.7	1418.7	1441.7	1458.7	1475.7	1490.7	1505.7	1518.7	1528.7
27.5°	1317.6	1343.7	1366.7	1385.7	1410.7	1437.7	1454.7	1479.7	1499.7	1517.7	1529.7
30°	1294.6	1316.6	1340.7	1362.7	1387.7	1421.7	1449.7	1481.7	1506.7	1529.7	1547.8
32.5°	1299.6	1319.6	1340.7	1359.7	1385.7	1423.7	1452.7	1489.7	1526.7	1556.8	1579.8
35°	1339.7	1357.7	1371.7	1388.7	1411.7	1440.7	1471.7	1510.7	1556.8	1596.8	1626.8
37.5°	1423.7	1428.7	1442.7	1455.7	1467.7	1494.7	1523.7	1556.8	1609.8	1651.8	1693.8
40°	1527.7	1540.8	1553.8	1559.8	1573.8	1590.8	1603.8	1638.8	1685.8	1740.8	1786.9
42.5°	1682.8	1687.8	1689.8	1691.8	1696.8	1708.8	1727.8	1759.9	1805.9	1854.9	1905.9
45°	1856.9	1862.9	1868.9	1871.9	1864.9	1871.9	1891.9	1906.9	1952.0	1998.0	2063.0
47.5°	2098.0	2080.0	2071.0	2083.0	2077.0	2092.0	2101.0	2110.0	2164.1	2219.1	2274.1
50°	2407.2	2396.2	2382.2	2383.2	2394.2	2384.2	2390.2	2423.2	2441.2	2487.2	2560.2
52.5°	2901.4	2867.4	2814.4	2791.4	2804.4	2796.4	2799.4	2806.4	2794.4	2837.4	2899.4
55°	3511.7	3467.7	3432.7	3412.7	3338.6	3332.6	3283.6	3265.6	3226.6	3267.6	3253.6
57.5°	3946.9	3918.9	3900.9	3840.9	3806.9	3738.8	3718.8	3694.8	3640.8	3667.8	3691.8
60°	4787.3	4687.3	4653.3	4548.2	4513.2	4448.2	4365.1	4324.1	4296.1	4322.1	4306.1
62.5°	6190.0	6051.0	6023.9	5774.8	5713.8	5563.7	5407.6	5386.6	5298.6	5243.6	5230.6
65°	7559.7	7360.6	7211.5	6939.4	6755.3	6541.2	6303.1	6129.0	5949.9	5859.9	5740.8
66°	7661.7	7582.7	7432.6	7273.6	7005.4	6771.3	6501.2	6313.1	6112.0	5953.9	5851.9
67.5°	7487.7	7445.6	7392.6	7284.6	7116.5	6898.4	6642.2	6402.1	6160.0	5973.9	5810.8
70°	6329.1	6375.1	6435.1	6407.1	6311.1	6226.0	5999.9	5865.9	5683.8	5439.7	5339.6
72.5°	4777.3	4900.4	4858.4	4700.3	4626.3	4567.2	4485.2	4395.1	4134.0	4104.0	3985.9
75°	3073.5	3032.5	3059.5	2867.4	2736.3	2682.3	2487.2	2407.2	2211.1	2084.0	1987.0
77.5°	1619.8	1539.8	1477.7	1308.6	1187.6	1116.5	1021.5	909.4	737.4	727.4	570.3
80°	751.4	690.3	634.3	575.3	516.3	438.2	380.2	310.2	274.1	235.1	219.1
82.5°	510.2	471.2	437.2	398.2	353.2	299.1	258.1	219.1	187.1	168.1	153.1
85°	462.2	420.2	382.2	333.2	286.1	241.1	197.1	163.1	133.1	116.1	106.1
87.5°	449.2	397.2	357.2	304.1	258.1	212.1	170.1	132.1	103.1	84.0	72.0
90°	65.0	69.2	52.4	50.6	26.8	32.0	26.0	19.0	20.0	17.0	18.0
92.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.7	6.6	6.5
95°	7.5	7.6	7.7	7.8	7.9	8.0	7.9	7.8	7.7	7.6	7.5
97.5°	11.0	10.8	10.6	10.4	10.2	10.0	9.9	9.8	9.7	9.6	9.5
100°	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.5
102.5°	48.5	48.2	47.9	47.6	47.3	47.0	46.5	46.0	45.5	45.0	44.5
105°	71.0	70.8	70.6	70.4	70.2	70.0	69.5	69.0	68.5	68.0	67.5
107.5°	94.5	94.4	94.3	94.2	94.1	94.0	93.6	93.2	92.8	92.4	92.0



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CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7050-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	120.5	120.6	120.7	120.8	120.9	121.0	120.8	120.6	120.4	120.2	120.0
112.5°	149.0	149.2	149.4	149.6	149.8	150.0	149.9	149.8	149.7	149.6	149.5
115°	180.5	180.8	181.1	181.4	181.7	182.0	181.7	181.4	181.1	180.8	180.5
117.5°	213.0	213.4	213.8	214.2	214.6	215.0	214.5	214.0	213.5	213.0	212.5
120°	248.0	248.4	248.8	249.2	249.6	250.0	249.5	249.0	248.5	248.0	247.5
122.5°	281.0	281.4	281.8	282.2	282.6	283.0	282.5	282.0	281.5	281.0	280.5
125°	314.0	314.2	314.4	314.6	314.8	315.0	314.5	314.0	313.5	313.0	312.5
127.5°	345.5	345.6	345.7	345.8	345.9	346.0	346.0	346.0	346.0	346.0	346.0
130°	379.0	379.4	379.8	380.2	380.6	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	413.5	414.0	414.5	415.0	415.5	416.0	415.8	415.6	415.4	415.2	415.0
135°	445.5	446.0	446.5	447.0	447.5	448.0	447.9	447.8	447.7	447.6	447.5
137.5°	474.0	474.2	474.4	474.6	474.8	475.0	475.1	475.2	475.3	475.4	475.5
140°	501.0	501.2	501.4	501.6	501.8	502.0	502.2	502.4	502.6	502.8	503.0
142.5°	530.0	530.6	531.2	531.8	532.4	533.0	533.0	533.0	533.0	533.0	533.0
145°	559.0	559.6	560.2	560.8	561.4	562.0	561.9	561.8	561.7	561.6	561.5
147.5°	582.5	583.0	583.5	584.0	584.5	585.0	585.1	585.2	585.3	585.4	585.5
150°	598.5	598.8	599.1	599.4	599.7	600.0	600.3	600.6	600.9	601.2	601.5
152.5°	612.5	612.8	613.1	613.4	613.7	614.0	614.4	614.8	615.2	615.6	616.0
155°	628.5	629.0	629.5	630.0	630.5	631.0	631.5	632.0	632.5	633.0	633.5
157.5°	646.0	646.4	646.8	647.2	647.6	648.0	648.2	648.4	648.6	648.8	649.0
160°	661.0	661.6	662.2	662.8	663.4	664.0	663.7	663.4	663.1	662.8	662.5
162.5°	669.0	669.4	669.8	670.2	670.6	671.0	670.9	670.8	670.7	670.6	670.5
165°	674.5	675.0	675.5	676.0	676.5	677.0	677.3	677.6	677.9	678.2	678.5
167.5°	681.0	681.6	682.2	682.8	683.4	684.0	684.4	684.8	685.2	685.6	686.0
170°	687.5	687.8	688.1	688.4	688.7	689.0	689.5	690.0	690.5	691.0	691.5
172.5°	690.5	690.8	691.1	691.4	691.7	692.0	692.2	692.4	692.6	692.8	693.0
175°	692.5	693.0	693.5	694.0	694.5	695.0	695.1	695.2	695.3	695.4	695.5
177.5°	696.5	697.0	697.5	698.0	698.5	699.0	699.2	699.4	699.6	699.8	700.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7050-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9
2.5°	1790.9	1787.9	1790.9	1789.9	1785.9	1786.9	1787.9	1783.9	1781.9	1781.9	1780.9
5°	1774.9	1772.9	1774.9	1773.9	1767.9	1766.9	1766.9	1763.9	1759.9	1756.9	1754.9
7.5°	1736.8	1738.8	1737.8	1734.8	1731.8	1731.8	1728.8	1721.8	1717.8	1713.8	1709.8
10°	1693.8	1693.8	1694.8	1693.8	1688.8	1686.8	1682.8	1678.8	1679.8	1669.8	1661.8
12.5°	1655.8	1655.8	1654.8	1652.8	1649.8	1648.8	1648.8	1636.8	1633.8	1630.8	1621.8
15°	1619.8	1621.8	1621.8	1621.8	1616.8	1616.8	1611.8	1603.8	1603.8	1594.8	1585.8
17.5°	1591.8	1594.8	1593.8	1594.8	1595.8	1589.8	1580.8	1575.8	1569.8	1564.8	1552.8
20°	1567.8	1569.8	1570.8	1570.8	1567.8	1563.8	1555.8	1547.8	1543.8	1533.7	1518.7
22.5°	1545.8	1549.8	1550.8	1550.8	1546.8	1543.8	1535.7	1523.7	1515.7	1503.7	1489.7
25°	1536.8	1541.8	1538.8	1540.8	1536.8	1529.7	1518.7	1508.7	1496.7	1481.7	1466.7
27.5°	1539.8	1546.8	1544.8	1543.8	1538.8	1533.7	1519.7	1507.7	1493.7	1475.7	1456.7
30°	1557.8	1569.8	1564.8	1560.8	1559.8	1547.8	1534.7	1517.7	1501.7	1480.7	1458.7
32.5°	1591.8	1597.8	1598.8	1595.8	1590.8	1580.8	1562.8	1540.8	1522.7	1497.7	1471.7
35°	1647.8	1653.8	1651.8	1651.8	1646.8	1630.8	1608.8	1586.8	1561.8	1533.7	1506.7
37.5°	1725.8	1736.8	1734.8	1730.8	1724.8	1705.8	1688.8	1661.8	1633.8	1596.8	1565.8
40°	1823.9	1840.9	1855.9	1852.9	1838.9	1821.9	1805.9	1774.9	1746.9	1705.8	1671.8
42.5°	1956.0	1979.0	1998.0	2012.0	2006.0	1984.0	1956.0	1942.9	1902.9	1860.9	1825.9
45°	2125.0	2173.1	2190.1	2207.1	2207.1	2193.1	2187.1	2161.1	2119.0	2063.0	2030.0
47.5°	2348.1	2412.2	2431.2	2460.2	2477.2	2462.2	2451.2	2407.2	2379.2	2302.1	2294.1
50°	2619.3	2683.3	2735.3	2769.4	2764.3	2777.4	2751.3	2726.3	2687.3	2624.3	2602.3
52.5°	2965.4	3016.5	3063.5	3083.5	3104.5	3101.5	3095.5	3078.5	3029.5	2995.5	2939.4
55°	3320.6	3362.6	3419.7	3452.7	3479.7	3474.7	3451.7	3410.7	3419.7	3348.6	3317.6
57.5°	3724.8	3770.8	3832.9	3863.9	3875.9	3936.9	3921.9	3916.9	3899.9	3874.9	3842.9
60°	4420.2	4433.2	4484.2	4562.2	4658.3	4639.3	4663.3	4679.3	4691.3	4635.3	4631.3
62.5°	5248.6	5264.6	5308.6	5324.6	5338.6	5340.6	5308.6	5308.6	5253.6	5181.5	5125.5
65°	5700.8	5667.8	5637.8	5620.7	5583.7	5550.7	5502.7	5437.7	5344.6	5233.6	5133.5
66°	5765.8	5698.8	5659.8	5616.7	5557.7	5496.7	5439.7	5350.6	5241.6	5109.5	4977.4
67.5°	5702.8	5610.7	5519.7	5456.7	5374.6	5264.6	5164.5	5060.5	4957.4	4776.3	4653.3
70°	5127.5	5017.4	4917.4	4779.3	4649.3	4541.2	4369.1	4188.0	4039.0	3848.9	3727.8
72.5°	3807.9	3677.8	3547.7	3353.6	3164.5	3136.5	2920.4	2707.3	2593.3	2440.2	2317.1
75°	1880.9	1716.8	1483.7	1379.7	1228.6	1154.6	1113.5	959.5	922.5	771.4	769.4
77.5°	531.3	456.2	405.2	353.2	331.2	315.2	260.1	249.1	226.1	222.1	209.1
80°	201.1	190.1	185.1	180.1	175.1	172.1	170.1	162.1	158.1	152.1	149.1
82.5°	145.1	141.1	132.1	129.1	125.1	119.1	118.1	113.1	110.1	104.1	102.0
85°	98.0	93.0	88.0	83.0	81.0	80.0	77.0	75.0	73.0	70.0	69.0
87.5°	66.0	61.0	55.0	53.0	52.0	53.0	54.0	52.0	51.0	49.0	48.0
90°	17.0	20.0	19.0	19.0	21.0	18.8	18.6	19.4	18.2	18.0	16.8
92.5°	6.4	6.3	6.2	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.4	7.3	7.2	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4
100°	24.2	23.9	23.6	23.3	23.0	22.6	22.2	21.8	21.4	21.0	20.6
102.5°	44.0	43.5	43.0	42.5	42.0	41.7	41.4	41.1	40.8	40.5	40.2
105°	67.0	66.5	66.0	65.5	65.0	64.6	64.2	63.8	63.4	63.0	62.6
107.5°	91.6	91.2	90.8	90.4	90.0	89.7	89.4	89.1	88.8	88.5	88.2



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 CATALOG NUMBER: IST-AF-1200-LED-E1-SL3-7050-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	119.8	119.6	119.4	119.2	119.0	118.7	118.4	118.1	117.8	117.5	117.2	0°
112.5°	149.4	149.3	149.2	149.1	149.0	148.8	148.6	148.4	148.2	148.0	147.8	2.5°
115°	180.2	179.9	179.6	179.3	179.0	178.8	178.6	178.4	178.2	178.0	177.8	5°
117.5°	212.0	211.5	211.0	210.5	210.0	209.8	209.6	209.4	209.2	209.0	208.8	7.5°
120°	247.0	246.5	246.0	245.5	245.0	244.8	244.6	244.4	244.2	244.0	243.8	10°
122.5°	280.0	279.5	279.0	278.5	278.0	277.8	277.6	277.4	277.2	277.0	276.8	12.5°
125°	312.0	311.5	311.0	310.5	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	346.0	346.0	346.0	346.0	345.9	345.8	345.7	345.6	345.5	345.4	17.5°
130°	381.0	381.0	381.0	381.0	381.0	380.8	380.6	380.4	380.2	380.0	379.8	20°
132.5°	414.8	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.4	447.3	447.2	447.1	447.0	447.3	447.6	447.9	448.2	448.5	448.8	25°
137.5°	475.6	475.7	475.8	475.9	476.0	476.5	477.0	477.5	478.0	478.5	479.0	27.5°
140°	503.2	503.4	503.6	503.8	504.0	504.5	505.0	505.5	506.0	506.5	507.0	30°
142.5°	533.0	533.0	533.0	533.0	533.0	533.1	533.2	533.3	533.4	533.5	533.6	32.5°
145°	561.4	561.3	561.2	561.1	561.0	560.7	560.4	560.1	559.8	559.5	559.2	35°
147.5°	585.6	585.7	585.8	585.9	586.0	585.7	585.4	585.1	584.8	584.5	584.2	37.5°
150°	601.8	602.1	602.4	602.7	603.0	603.3	603.6	603.9	604.2	604.5	604.8	40°
152.5°	616.4	616.8	617.2	617.6	618.0	618.5	619.0	619.5	620.0	620.5	621.0	42.5°
155°	634.0	634.5	635.0	635.5	636.0	636.2	636.4	636.6	636.8	637.0	637.2	45°
157.5°	649.2	649.4	649.6	649.8	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	662.2	661.9	661.6	661.3	661.0	660.9	660.8	660.7	660.6	660.5	660.4	50°
162.5°	670.4	670.3	670.2	670.1	670.0	669.8	669.6	669.4	669.2	669.0	668.8	52.5°
165°	678.8	679.1	679.4	679.7	680.0	679.8	679.6	679.4	679.2	679.0	678.8	55°
167.5°	686.4	686.8	687.2	687.6	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	692.0	692.5	693.0	693.5	694.0	694.2	694.4	694.6	694.8	695.0	695.2	60°
172.5°	693.2	693.4	693.6	693.8	694.0	694.2	694.4	694.6	694.8	695.0	695.2	62.5°
175°	695.6	695.7	695.8	695.9	696.0	695.8	695.6	695.4	695.2	695.0	694.8	65°
177.5°	700.2	700.4	700.6	700.8	701.0	700.7	700.4	700.1	699.8	699.5	699.2	66°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	1772.9	110°	116.9
1778.9	1775.9	1776.9	1772.9	1771.9	1773.9	1774.9	1774.9	1771.9	1753.9	1732.8	112.5°	147.6
1752.9	1746.9	1745.9	1742.9	1737.8	1743.9	1740.8	1735.8	1729.8	1708.8	1667.8	115°	177.6
1704.8	1700.8	1695.8	1691.8	1688.8	1686.8	1685.8	1680.8	1669.8	1630.8	1561.8	117.5°	208.6
1658.8	1653.8	1647.8	1638.8	1634.8	1628.8	1628.8	1616.8	1608.8	1559.8	1457.7	120°	243.6
1613.8	1604.8	1601.8	1595.8	1584.8	1579.8	1572.8	1560.8	1548.8	1489.7	1355.7	122.5°	276.6
1579.8	1570.8	1557.8	1553.8	1541.8	1530.7	1521.7	1505.7	1492.7	1414.7	1248.6	125°	310.0
1542.8	1535.7	1521.7	1512.7	1499.7	1486.7	1471.7	1451.7	1442.7	1343.7	1146.6	127.5°	345.3
1512.7	1496.7	1480.7	1472.7	1456.7	1441.7	1426.7	1402.7	1384.7	1273.6	1038.5	130°	379.6
1477.7	1463.7	1446.7	1432.7	1410.7	1393.7	1376.7	1351.7	1329.6	1202.6	929.5	132.5°	414.0
1453.7	1433.7	1415.7	1399.7	1374.7	1354.7	1330.6	1303.6	1281.6	1134.6	809.4	135°	449.1
1439.7	1419.7	1396.7	1376.7	1347.7	1324.6	1298.6	1268.6	1240.6	1079.5	696.3	137.5°	479.5
1435.7	1411.7	1387.7	1362.7	1332.7	1303.6	1272.6	1242.6	1206.6	1026.5	573.3	140°	507.5
1447.7	1418.7	1391.7	1361.7	1326.6	1293.6	1262.6	1223.6	1187.6	980.5	452.2	142.5°	533.7
1480.7	1445.7	1414.7	1381.7	1341.7	1305.6	1268.6	1224.6	1184.6	948.5	346.2	145°	558.9
1532.7	1499.7	1463.7	1430.7	1384.7	1344.7	1303.6	1256.6	1208.6	935.5	261.1	147.5°	583.9
1637.8	1593.8	1556.8	1521.7	1468.7	1427.7	1380.7	1323.6	1269.6	947.5	218.1	150°	605.1
1784.9	1729.8	1695.8	1664.8	1598.8	1553.8	1499.7	1434.7	1373.7	981.5	192.1	152.5°	621.5
1988.0	1945.9	1884.9	1836.9	1769.9	1719.8	1659.8	1581.8	1513.7	1029.5	179.1	155°	637.4
2242.1	2187.1	2127.0	2078.0	2005.0	1917.9	1854.9	1760.9	1683.8	1104.5	173.1	157.5°	650.0
2553.2	2487.2	2406.2	2365.2	2264.1	2196.1	2112.0	2011.0	1912.9	1220.6	176.1	160°	660.3
2891.4	2820.4	2757.3	2679.3	2587.3	2511.2	2431.2	2324.1	2201.1	1440.7	188.1	162.5°	668.6
3248.6	3202.6	3142.5	3041.5	2991.5	2895.4	2793.4	2675.3	2586.3	1726.8	217.1	165°	678.6
3768.8	3718.8	3711.8	3612.8	3536.7	3449.7	3369.6	3271.6	3166.5	2235.1	285.1	167.5°	688.0
4569.2	4517.2	4458.2	4381.1	4291.1	4183.0	4084.0	3951.9	3834.9	2744.3	317.2	170°	695.4
5043.5	4947.4	4841.4	4724.3	4593.2	4459.2	4326.1	4157.0	3986.9	2775.4	286.1	172.5°	695.4
5003.4	4884.4	4749.3	4590.2	4452.2	4287.1	4144.0	3925.9	3770.8	2471.2	233.1	175°	694.6
4855.4	4692.3	4565.2	4419.2	4246.1	4098.0	3946.9	3731.8	3554.7	2266.1	213.1	177.5°	698.9
4476.2	4337.1	4161.0	4021.0	3892.9	3715.8	3573.7	3372.6	3250.6	1965.0	191.1	180°	700.0
3577.7	3385.7	3236.6	3127.5	2982.5	2822.4	2696.3	2527.2	2419.2	1300.6	165.1		
2084.0	2036.0	1868.9	1774.9	1686.8	1556.8	1456.7	1375.7	1233.6	630.3	146.1		
642.3	597.3	591.3	502.2	531.3	454.2	442.2	402.2	402.2	242.1	115.1		
205.1	201.1	193.1	182.1	178.1	178.1	173.1	172.1	164.1	130.1	86.0		
145.1	142.1	139.1	136.1	134.1	135.1	131.1	129.1	127.1	94.0	68.0		
100.0	97.0	91.0	91.0	89.0	88.0	89.0	85.0	84.0	66.0	57.0		
68.0	67.0	66.0	65.0	64.0	63.0	62.0	59.0	57.0	46.0	40.0		
45.0	38.0	37.0	32.0	31.0	30.0	28.0	30.0	33.0	33.0	26.0		
17.6	16.4	17.2	17.0	15.0	16.0	16.0	14.0	14.0	17.0	18.0		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
8.3	8.2	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0		
20.2	19.8	19.4	19.0	19.0	19.0	19.0	19.0	19.0	19.0	23.0		
39.9	39.6	39.3	39.0	38.8	38.6	38.4	38.2	38.0	39.0	42.0		
62.2	61.8	61.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	65.0		
87.9	87.6	87.3	87.0	86.8	86.6	86.4	86.2	86.0	87.0	90.0		

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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
116.6	116.3	116.0	116.2	116.4	116.6	116.8	117.0	116.0	119.0	0°	1772.9	1772.9
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	1714.8	1698.8
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	1623.8	1587.8
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	1500.7	1430.7
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	1359.7	1258.6
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	1213.6	1084.5
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	1077.5	906.4
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	934.5	723.4
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	797.4	546.3
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	642.3	383.2
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	471.2	278.1
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	336.2	222.1
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	251.1	187.1
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	201.1	162.1
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	171.1	147.1
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	153.1	137.1
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	143.1	132.1
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	137.1	127.1
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	134.1	124.1
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	132.1	120.1
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	130.1	120.1
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	131.1	122.1
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	136.1	122.1
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	144.1	122.1
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	150.1	124.1
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	152.1	128.1
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	150.1	130.1
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	148.1	130.1
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	145.1	128.1
										70°	138.1	120.1
										72.5°	124.1	108.1
										75°	106.1	87.0
										77.5°	86.0	70.0
										80°	64.0	53.0
										82.5°	47.0	41.0
										85°	33.0	29.0
										87.5°	20.0	18.0
										90°	14.0	12.0
										92.5°	7.0	7.0
										95°	8.0	7.0
										97.5°	10.0	12.0
										100°	26.0	29.0
										102.5°	47.0	50.0
										105°	70.0	72.0
										107.5°	94.0	95.0



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tinued):

135°	145°	155°	165°	175°	180°
1772.9	1772.9	1772.9	1772.9	1772.9	1772.9
1687.8	1686.8	1661.8	1656.8	1639.8	1648.8
1544.8	1527.7	1482.7	1473.7	1454.7	1449.7
1373.7	1326.6	1290.6	1250.6	1212.6	1231.6
1173.6	1094.5	1015.5	963.5	942.5	935.5
983.5	841.4	742.4	640.3	604.3	617.3
753.4	591.3	459.2	400.2	366.2	360.2
531.3	379.2	318.2	303.1	296.1	296.1
360.2	289.1	266.1	259.1	259.1	260.1
274.1	243.1	233.1	234.1	238.1	239.1
227.1	215.1	210.1	217.1	225.1	226.1
196.1	193.1	194.1	203.1	211.1	212.1
172.1	175.1	179.1	187.1	194.1	196.1
155.1	160.1	163.1	168.1	172.1	173.1
143.1	149.1	148.1	151.1	154.1	155.1
136.1	139.1	136.1	138.1	138.1	140.1
130.1	131.1	126.1	127.1	129.1	129.1
124.1	123.1	118.1	120.1	123.1	124.1
118.1	116.1	112.1	116.1	121.1	122.1
113.1	111.1	109.1	114.1	120.1	121.1
111.1	109.1	107.1	114.1	120.1	121.1
111.1	109.1	107.1	112.1	118.1	119.1
112.1	110.1	106.1	111.1	115.1	116.1
113.1	111.1	104.1	107.1	109.1	110.1
113.1	109.1	102.0	103.1	103.1	104.1
111.1	106.1	98.0	98.0	97.0	97.0
111.1	102.0	94.0	92.0	90.0	90.0
110.1	101.0	93.0	90.0	87.0	87.0
108.1	99.0	91.0	87.0	84.0	84.0
101.0	95.0	86.0	82.0	79.0	78.0
90.0	87.0	80.0	77.0	74.0	73.0
76.0	77.0	73.0	71.0	68.0	67.0
64.0	66.0	64.0	63.0	61.0	60.0
51.0	55.0	53.0	53.0	54.0	52.0
39.0	44.0	42.0	44.0	46.0	43.0
27.0	32.0	32.0	33.0	34.0	32.0
17.0	21.0	20.0	21.0	21.0	20.0
11.0	15.0	12.0	13.0	10.0	9.0
6.0	6.0	6.0	5.0	4.0	4.0
7.0	7.0	7.0	6.0	5.0	5.0
9.0	9.0	8.0	8.0	7.0	7.0
21.0	12.0	10.0	9.0	8.0	8.0
40.0	27.0	18.0	13.0	11.0	11.0
63.0	48.0	36.0	27.0	22.0	21.0
88.0	73.0	58.0	49.0	42.0	41.0

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	121.0	120.0	114.0
112.5°	150.0	148.0	143.0
115°	182.0	179.0	174.0
117.5°	215.0	211.0	205.0
120°	250.0	246.0	243.0
122.5°	283.0	279.0	277.0
125°	315.0	313.0	310.0
127.5°	346.0	345.0	340.0
130°	381.0	377.0	372.0
132.5°	416.0	411.0	405.0
135°	448.0	443.0	437.0
137.5°	475.0	473.0	468.0
140°	502.0	500.0	497.0
142.5°	533.0	527.0	525.0
145°	562.0	556.0	551.0
147.5°	585.0	580.0	575.0
150°	600.0	597.0	593.0
152.5°	614.0	611.0	610.0
155°	631.0	626.0	628.0
157.5°	648.0	644.0	645.0
160°	664.0	658.0	655.0
162.5°	671.0	667.0	663.0
165°	677.0	672.0	673.0
167.5°	684.0	678.0	685.0
170°	689.0	686.0	691.0
172.5°	692.0	689.0	690.0
175°	695.0	690.0	690.0
177.5°	699.0	694.0	695.0
180°	700.0	700.0	700.0



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145°	155°	165°	175°	180°
102.0	87.0	74.0	68.0	66.0
134.0	121.0	106.0	99.0	99.0
168.0	159.0	147.0	139.0	140.0
202.0	197.0	189.0	184.0	184.0
237.0	233.0	226.0	223.0	225.0
271.0	267.0	261.0	260.0	263.0
305.0	299.0	296.0	294.0	298.0
339.0	333.0	329.0	329.0	330.0
370.0	366.0	362.0	361.0	363.0
404.0	401.0	393.0	394.0	396.0
435.0	432.0	426.0	426.0	429.0
464.0	460.0	459.0	457.0	460.0
491.0	489.0	487.0	485.0	488.0
521.0	518.0	517.0	515.0	518.0
550.0	547.0	544.0	546.0	550.0
574.0	574.0	571.0	572.0	575.0
593.0	593.0	593.0	592.0	595.0
610.0	609.0	608.0	608.0	611.0
630.0	627.0	625.0	625.0	629.0
646.0	644.0	643.0	643.0	646.0
655.0	656.0	659.0	660.0	663.0
661.0	665.0	669.0	669.0	673.0
673.0	676.0	676.0	678.0	681.0
688.0	686.0	684.0	687.0	690.0
693.0	692.0	692.0	695.0	698.0
690.0	693.0	695.0	697.0	699.0
691.0	695.0	697.0	698.0	700.0
697.0	699.0	700.0	705.0	707.0
700.0	700.0	700.0	700.0	700.0

(END OF REPORT)