

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: P228497

Luminaire Tested: **ISS-AF-1200-LED-E1-SLL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1200-LED-E1-SLL-7060
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5488 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

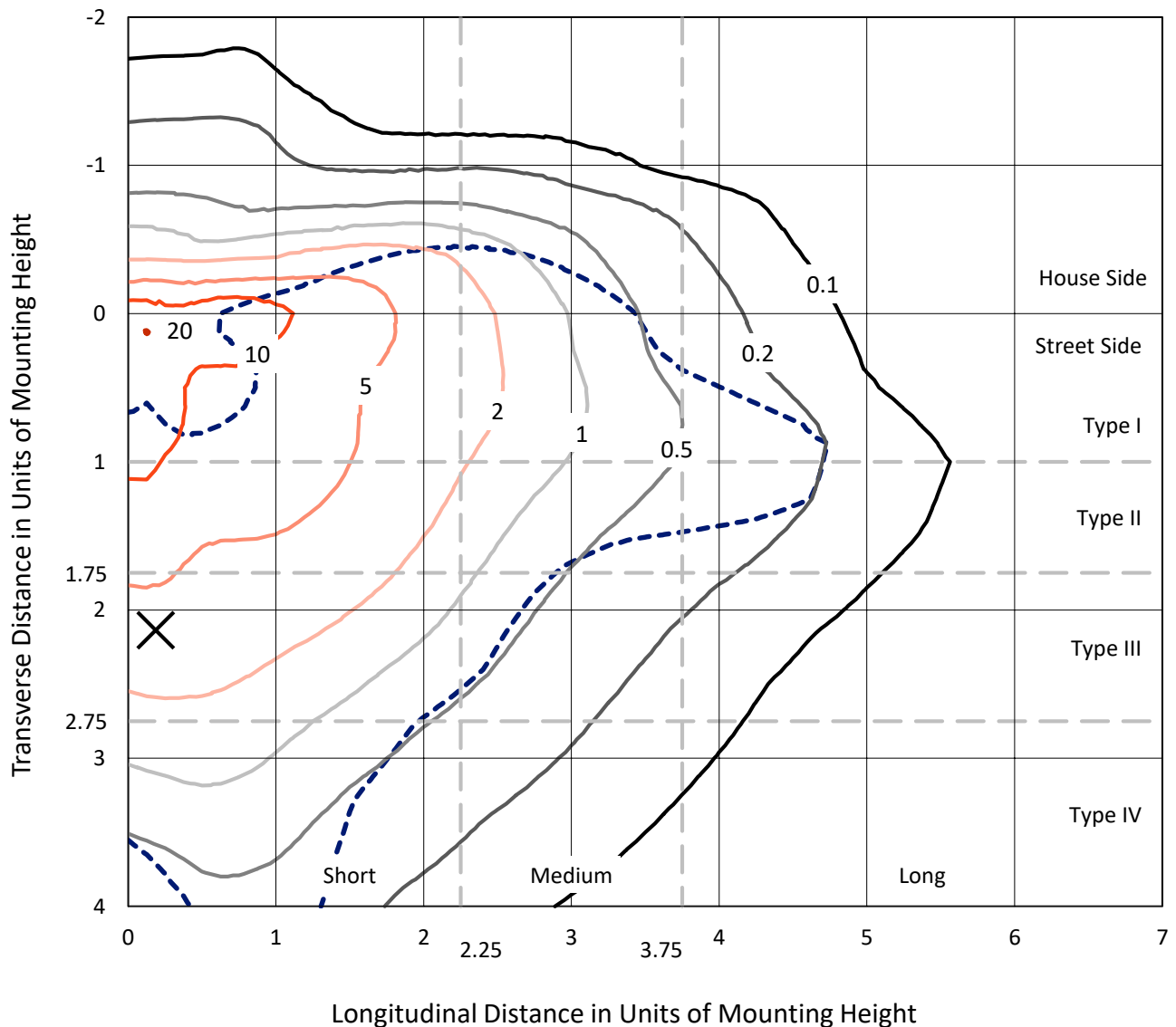
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

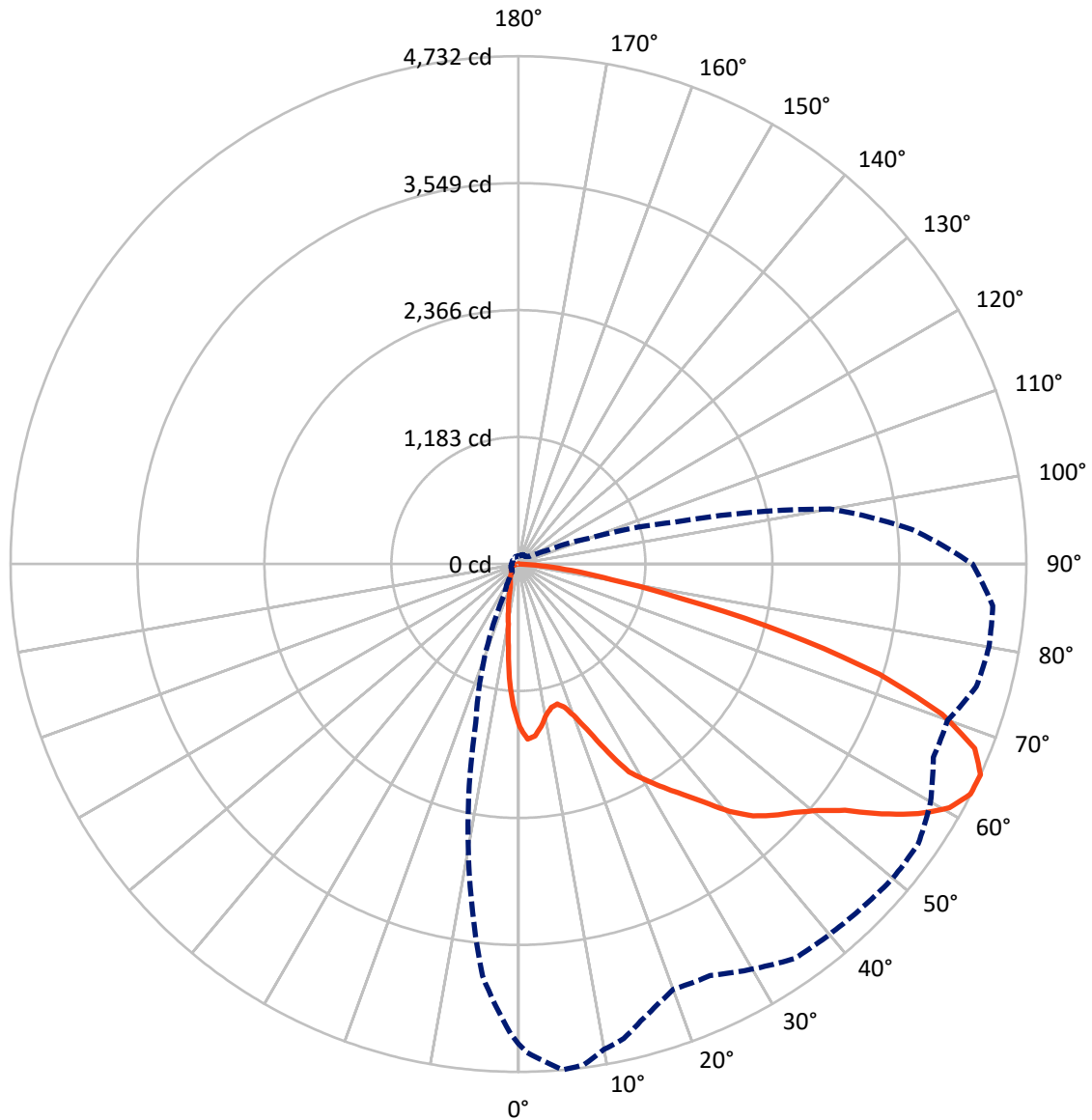
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 912.5 | 0.0 | 912.5 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 4575.5 | 0.0 | 4575.5 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 5488.0 | 0.0 | 5488.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.6 | 2.1 |
| 10°-20° | 240.3 | 4.4 |
| 20°-30° | 349.3 | 6.4 |
| 30°-40° | 516.6 | 9.4 |
| 40°-50° | 752.8 | 13.7 |
| 50°-60° | 1128.4 | 20.6 |
| 60°-70° | 1406.2 | 25.6 |
| 70°-80° | 823.7 | 15.0 |
| 80°-90° | 154.0 | 2.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 5488.0 | 100.0 |
| 0°-180° | 5488.0 | 100.0 |



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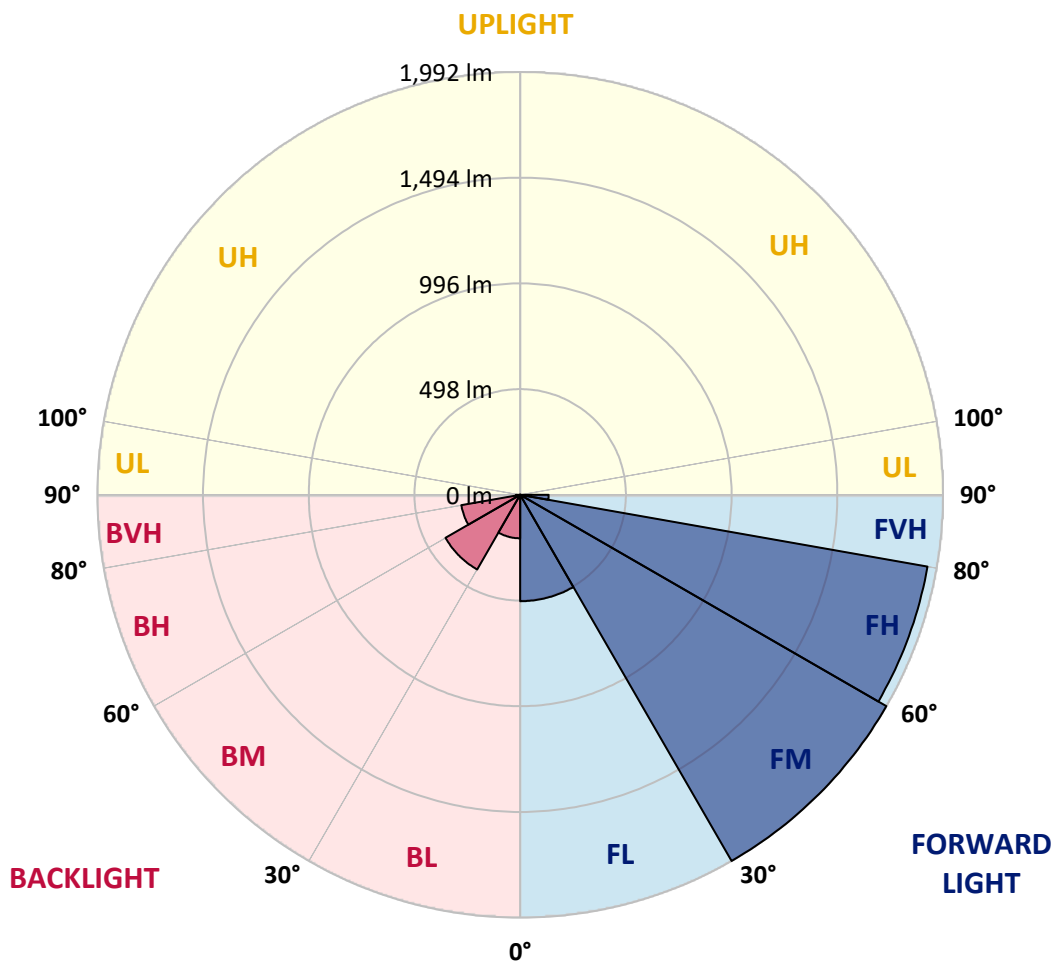
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 501.3 | 9.1 | | | |
| FM | (30°-60°) | 1991.7 | 36.3 | | | |
| FH | (60°-80°) | 1948.2 | 35.5 | | | G2/5000 |
| FVH | (80°-90°) | 134.2 | 2.4 | | | G2/225 |
| BL | (0°-30°) | 204.9 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 406.1 | 7.4 | B1/1000 | | |
| BH | (60°-80°) | 281.7 | 5.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 19.8 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 25° | 35° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 |
| 2.5° | 1612.2 | 1607.8 | 1633.9 | 1638.2 | 1655.6 | 1655.6 | 1675.2 | 1692.6 | 1699.1 | 1714.3 | 1753.4 |
| 5° | 1560.0 | 1573.1 | 1610.0 | 1646.9 | 1673.0 | 1699.1 | 1727.3 | 1762.1 | 1790.3 | 1838.1 | 1938.1 |
| 7.5° | 1444.9 | 1464.4 | 1527.4 | 1564.4 | 1605.7 | 1651.3 | 1686.0 | 1727.3 | 1770.8 | 1851.2 | 2029.3 |
| 10° | 1331.9 | 1347.1 | 1427.5 | 1473.1 | 1531.8 | 1579.6 | 1629.6 | 1675.2 | 1723.0 | 1822.9 | 2029.3 |
| 12.5° | 1260.2 | 1279.7 | 1371.0 | 1414.5 | 1481.8 | 1531.8 | 1592.6 | 1646.9 | 1703.4 | 1809.9 | 2009.8 |
| 15° | 1245.0 | 1266.7 | 1353.6 | 1407.9 | 1466.6 | 1514.4 | 1568.7 | 1625.2 | 1681.7 | 1786.0 | 1964.2 |
| 17.5° | 1286.3 | 1312.3 | 1405.8 | 1466.6 | 1512.2 | 1566.5 | 1605.7 | 1660.0 | 1696.9 | 1779.5 | 1864.2 |
| 20° | 1384.0 | 1414.5 | 1525.3 | 1583.9 | 1620.9 | 1655.6 | 1686.0 | 1718.6 | 1733.8 | 1753.4 | 1738.2 |
| 22.5° | 1540.5 | 1577.4 | 1703.4 | 1770.8 | 1796.9 | 1822.9 | 1825.1 | 1829.4 | 1818.6 | 1766.4 | 1649.1 |
| 25° | 1764.3 | 1801.2 | 1944.6 | 2009.8 | 2009.8 | 2009.8 | 1985.9 | 1968.5 | 1918.5 | 1820.8 | 1625.2 |
| 27.5° | 1972.8 | 2020.6 | 2192.3 | 2233.6 | 2220.5 | 2201.0 | 2155.4 | 2111.9 | 2040.2 | 1877.2 | 1623.0 |
| 30° | 2129.3 | 2177.1 | 2335.7 | 2368.3 | 2335.7 | 2287.9 | 2216.2 | 2153.2 | 2068.5 | 1905.5 | 1638.2 |
| 32.5° | 2272.7 | 2329.2 | 2481.3 | 2485.6 | 2427.0 | 2372.6 | 2292.2 | 2220.5 | 2131.5 | 1957.6 | 1683.9 |
| 35° | 2424.8 | 2481.3 | 2635.5 | 2605.1 | 2520.4 | 2446.5 | 2363.9 | 2300.9 | 2211.9 | 2025.0 | 1757.7 |
| 37.5° | 2635.5 | 2685.5 | 2815.9 | 2744.2 | 2635.5 | 2539.9 | 2450.9 | 2368.3 | 2279.2 | 2116.3 | 1881.6 |
| 40° | 2839.8 | 2911.5 | 3031.0 | 2915.8 | 2783.3 | 2655.1 | 2557.3 | 2470.4 | 2372.6 | 2240.1 | 2040.2 |
| 42.5° | 3031.0 | 3098.3 | 3209.1 | 3061.4 | 2907.1 | 2778.9 | 2676.8 | 2583.4 | 2490.0 | 2381.3 | 2231.4 |
| 45° | 3176.5 | 3246.1 | 3339.5 | 3183.1 | 3007.1 | 2874.5 | 2763.7 | 2681.2 | 2598.6 | 2524.7 | 2472.6 |
| 47.5° | 3317.8 | 3387.3 | 3459.0 | 3289.5 | 3115.7 | 2981.0 | 2850.6 | 2774.6 | 2709.4 | 2670.3 | 2733.3 |
| 50° | 3500.3 | 3548.1 | 3608.9 | 3426.4 | 3241.7 | 3087.5 | 2957.1 | 2898.4 | 2837.6 | 2850.6 | 3061.4 |
| 52.5° | 3748.0 | 3789.3 | 3811.0 | 3632.8 | 3426.4 | 3250.4 | 3107.0 | 3026.6 | 2976.7 | 3052.7 | 3409.0 |
| 55° | 4097.8 | 4156.5 | 4108.7 | 3932.7 | 3671.9 | 3472.0 | 3296.0 | 3200.4 | 3170.0 | 3272.1 | 3756.7 |
| 57.5° | 4399.8 | 4425.9 | 4391.1 | 4217.3 | 3950.0 | 3726.3 | 3539.4 | 3439.5 | 3404.7 | 3539.4 | 4073.9 |
| 60° | 4532.3 | 4564.9 | 4612.7 | 4462.8 | 4212.9 | 3991.3 | 3830.5 | 3732.8 | 3674.1 | 3830.5 | 4328.1 |
| 62.5° | 4554.1 | 4608.4 | 4725.7 | 4649.7 | 4451.9 | 4286.8 | 4141.2 | 4006.5 | 3960.9 | 4080.4 | 4495.4 |
| 65° | 4469.3 | 4551.9 | 4732.2 | 4704.0 | 4593.2 | 4530.2 | 4408.5 | 4304.2 | 4217.3 | 4230.3 | 4486.7 |
| 67.5° | 4278.1 | 4373.7 | 4584.5 | 4571.4 | 4584.5 | 4584.5 | 4478.0 | 4391.1 | 4278.1 | 4117.3 | 4156.5 |
| 70° | 3817.5 | 3943.5 | 4186.9 | 4249.9 | 4360.7 | 4360.7 | 4267.3 | 4134.7 | 4004.4 | 3674.1 | 3474.2 |
| 72.5° | 3059.2 | 3144.0 | 3517.7 | 3824.0 | 3965.3 | 3908.8 | 3817.5 | 3595.9 | 3309.1 | 2946.2 | 2674.6 |
| 75° | 2070.6 | 2120.6 | 2579.0 | 3139.6 | 3396.0 | 3348.2 | 3198.3 | 2922.3 | 2626.8 | 2222.7 | 1879.4 |
| 77.5° | 1153.7 | 1218.9 | 1562.2 | 2001.1 | 2346.6 | 2340.0 | 2320.5 | 2144.5 | 1909.8 | 1575.2 | 1397.1 |
| 80° | 677.9 | 699.6 | 880.0 | 1199.4 | 1497.0 | 1425.3 | 1375.3 | 1236.3 | 1116.8 | 964.7 | 1101.6 |
| 82.5° | 415.0 | 393.3 | 499.7 | 730.0 | 884.3 | 853.9 | 769.2 | 717.0 | 660.5 | 619.2 | 732.2 |
| 85° | 113.0 | 102.1 | 204.2 | 306.4 | 375.9 | 406.3 | 406.3 | 402.0 | 360.7 | 271.6 | 325.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 |
| 2.5° | 1768.6 | 1770.8 | 1764.3 | 1779.5 | 1762.1 | 1753.4 | 1727.3 | 1727.3 | 1705.6 | 1688.2 | 1668.7 |
| 5° | 1975.0 | 1988.1 | 1977.2 | 1979.4 | 1944.6 | 1909.8 | 1857.7 | 1827.3 | 1773.0 | 1714.3 | 1653.5 |
| 7.5° | 2114.1 | 2135.8 | 2127.1 | 2090.2 | 2035.9 | 1962.0 | 1875.1 | 1792.5 | 1703.4 | 1607.8 | 1518.7 |
| 10° | 2151.0 | 2174.9 | 2155.4 | 2085.8 | 1996.7 | 1892.5 | 1788.2 | 1677.4 | 1568.7 | 1466.6 | 1371.0 |
| 12.5° | 2098.9 | 2116.3 | 2075.0 | 1998.9 | 1912.0 | 1807.7 | 1699.1 | 1603.5 | 1475.3 | 1366.7 | 1255.8 |
| 15° | 1966.3 | 1955.5 | 1951.1 | 1896.8 | 1836.0 | 1751.2 | 1649.1 | 1551.3 | 1431.8 | 1321.0 | 1203.7 |
| 17.5° | 1822.9 | 1809.9 | 1814.2 | 1792.5 | 1783.8 | 1744.7 | 1668.7 | 1586.1 | 1479.6 | 1344.9 | 1218.9 |
| 20° | 1696.9 | 1683.9 | 1690.4 | 1701.3 | 1733.8 | 1736.0 | 1723.0 | 1668.7 | 1590.4 | 1449.2 | 1295.0 |
| 22.5° | 1588.3 | 1590.4 | 1612.2 | 1642.6 | 1696.9 | 1766.4 | 1820.8 | 1831.6 | 1777.3 | 1612.2 | 1418.8 |
| 25° | 1555.7 | 1544.8 | 1568.7 | 1618.7 | 1709.9 | 1844.7 | 1966.3 | 2027.2 | 1996.7 | 1831.6 | 1594.8 |
| 27.5° | 1544.8 | 1529.6 | 1555.7 | 1620.9 | 1766.4 | 1955.5 | 2129.3 | 2220.5 | 2231.4 | 2061.9 | 1783.8 |
| 30° | 1544.8 | 1538.3 | 1564.4 | 1649.1 | 1803.4 | 1992.4 | 2185.8 | 2322.7 | 2366.1 | 2224.9 | 1948.9 |
| 32.5° | 1564.4 | 1568.7 | 1614.3 | 1723.0 | 1881.6 | 2075.0 | 2274.9 | 2422.6 | 2500.8 | 2394.4 | 2081.5 |
| 35° | 1607.8 | 1616.5 | 1681.7 | 1807.7 | 1979.4 | 2174.9 | 2357.4 | 2507.3 | 2633.4 | 2576.9 | 2205.3 |
| 37.5° | 1701.3 | 1714.3 | 1794.7 | 1922.9 | 2079.3 | 2255.3 | 2433.5 | 2594.3 | 2776.8 | 2752.9 | 2335.7 |
| 40° | 1866.4 | 1866.4 | 1946.8 | 2057.6 | 2185.8 | 2320.5 | 2496.5 | 2685.5 | 2909.3 | 2941.9 | 2496.5 |
| 42.5° | 2075.0 | 2066.3 | 2118.4 | 2198.8 | 2287.9 | 2400.9 | 2559.5 | 2770.2 | 3033.1 | 3104.8 | 2618.2 |
| 45° | 2361.8 | 2318.3 | 2346.6 | 2366.1 | 2409.6 | 2479.1 | 2620.3 | 2850.6 | 3133.1 | 3226.5 | 2709.4 |
| 47.5° | 2698.5 | 2637.7 | 2613.8 | 2576.9 | 2561.7 | 2587.7 | 2709.4 | 2913.6 | 3228.7 | 3330.8 | 2857.2 |
| 50° | 3070.1 | 3011.4 | 2948.4 | 2848.5 | 2761.6 | 2735.5 | 2809.4 | 2998.4 | 3330.8 | 3461.2 | 3020.1 |
| 52.5° | 3456.8 | 3415.6 | 3333.0 | 3176.5 | 3011.4 | 2918.0 | 2952.8 | 3139.6 | 3493.8 | 3663.2 | 3213.5 |
| 55° | 3811.0 | 3824.0 | 3724.1 | 3541.6 | 3304.7 | 3161.3 | 3202.6 | 3389.5 | 3789.3 | 3989.2 | 3537.2 |
| 57.5° | 4191.2 | 4156.5 | 4078.2 | 3889.2 | 3630.7 | 3476.4 | 3493.8 | 3719.7 | 4119.5 | 4271.6 | 3858.8 |
| 60° | 4443.3 | 4443.3 | 4358.5 | 4215.1 | 3969.6 | 3826.2 | 3852.3 | 4060.9 | 4384.6 | 4399.8 | 4002.2 |
| 62.5° | 4606.2 | 4630.1 | 4562.8 | 4460.6 | 4221.6 | 4102.1 | 4191.2 | 4339.0 | 4515.0 | 4388.9 | 3930.5 |
| 65° | 4528.0 | 4554.1 | 4547.5 | 4434.6 | 4265.1 | 4256.4 | 4417.2 | 4451.9 | 4436.7 | 4230.3 | 3682.8 |
| 67.5° | 4173.8 | 4121.7 | 4119.5 | 4060.9 | 4026.1 | 4206.4 | 4410.7 | 4421.5 | 4165.1 | 3919.6 | 3291.7 |
| 70° | 3500.3 | 3411.2 | 3376.4 | 3393.8 | 3552.4 | 3889.2 | 4180.4 | 4097.8 | 3689.3 | 3478.6 | 2802.8 |
| 72.5° | 2698.5 | 2592.1 | 2570.4 | 2637.7 | 2883.2 | 3356.9 | 3754.5 | 3639.3 | 3033.1 | 2787.6 | 2170.6 |
| 75° | 1914.2 | 1868.6 | 1870.7 | 2003.3 | 2268.3 | 2724.6 | 3187.4 | 3176.5 | 2246.6 | 1922.9 | 1494.8 |
| 77.5° | 1392.7 | 1401.4 | 1440.5 | 1492.7 | 1720.8 | 2161.9 | 2596.4 | 2568.2 | 1599.1 | 1321.0 | 1045.1 |
| 80° | 1149.4 | 1162.4 | 1162.4 | 1134.2 | 1192.8 | 1427.5 | 1764.3 | 1883.8 | 1071.2 | 888.7 | 730.0 |
| 82.5° | 825.6 | 890.8 | 927.8 | 882.1 | 860.4 | 940.8 | 1105.9 | 1184.1 | 667.0 | 560.6 | 510.6 |
| 85° | 393.3 | 449.8 | 462.8 | 451.9 | 519.3 | 593.2 | 632.3 | 647.5 | 365.0 | 260.7 | 334.6 |
| 87.5° | 0.0 | 0.0 | 2.2 | 17.4 | 47.8 | 82.6 | 82.6 | 126.0 | 19.6 | 6.5 | 15.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 145° | 155° | 165° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 |
| 2.5° | 1642.6 | 1614.3 | 1592.6 | 1566.5 | 1544.8 | 1523.1 | 1507.9 | 1475.3 | 1449.2 | 1390.6 | 1375.3 |
| 5° | 1603.5 | 1542.6 | 1501.4 | 1462.3 | 1412.3 | 1377.5 | 1340.6 | 1295.0 | 1245.0 | 1160.2 | 1134.2 |
| 7.5° | 1449.2 | 1373.2 | 1316.7 | 1260.2 | 1195.0 | 1136.3 | 1082.0 | 1021.2 | 934.3 | 843.0 | 808.3 |
| 10° | 1281.9 | 1201.5 | 1123.3 | 1056.0 | 977.7 | 912.6 | 864.8 | 821.3 | 751.8 | 682.2 | 636.6 |
| 12.5° | 1145.0 | 1053.8 | 964.7 | 897.3 | 856.1 | 823.5 | 788.7 | 753.9 | 680.1 | 601.8 | 547.5 |
| 15° | 1082.0 | 975.6 | 897.3 | 840.9 | 803.9 | 764.8 | 723.5 | 684.4 | 597.5 | 506.2 | 441.1 |
| 17.5° | 1090.7 | 969.0 | 869.1 | 793.1 | 743.1 | 688.8 | 641.0 | 591.0 | 495.4 | 386.7 | 328.1 |
| 20° | 1138.5 | 975.6 | 838.7 | 749.6 | 677.9 | 608.4 | 547.5 | 484.5 | 367.2 | 282.5 | 241.2 |
| 22.5° | 1199.4 | 997.3 | 821.3 | 706.1 | 617.1 | 530.1 | 451.9 | 378.1 | 271.6 | 221.6 | 202.1 |
| 25° | 1303.6 | 1047.3 | 817.0 | 667.0 | 558.4 | 454.1 | 373.7 | 295.5 | 219.4 | 195.5 | 184.7 |
| 27.5° | 1434.0 | 1103.8 | 821.3 | 638.8 | 508.4 | 393.3 | 304.2 | 245.5 | 197.7 | 184.7 | 176.0 |
| 30° | 1564.4 | 1162.4 | 801.7 | 595.3 | 449.8 | 336.8 | 260.7 | 223.8 | 195.5 | 180.3 | 165.1 |
| 32.5° | 1679.5 | 1205.9 | 769.2 | 549.7 | 397.6 | 286.8 | 221.6 | 191.2 | 171.6 | 154.3 | 149.9 |
| 35° | 1762.1 | 1225.4 | 732.2 | 521.5 | 362.8 | 256.4 | 195.5 | 171.6 | 152.1 | 134.7 | 126.0 |
| 37.5° | 1840.3 | 1227.6 | 693.1 | 495.4 | 349.8 | 243.3 | 180.3 | 158.6 | 141.2 | 126.0 | 117.3 |
| 40° | 1920.7 | 1218.9 | 671.4 | 469.3 | 330.3 | 236.8 | 173.8 | 147.7 | 136.9 | 119.5 | 110.8 |
| 42.5° | 1979.4 | 1203.7 | 662.7 | 454.1 | 312.9 | 219.4 | 169.5 | 145.6 | 130.4 | 117.3 | 106.5 |
| 45° | 2033.7 | 1188.5 | 662.7 | 441.1 | 299.8 | 208.6 | 160.8 | 147.7 | 126.0 | 115.2 | 102.1 |
| 47.5° | 2098.9 | 1195.0 | 664.9 | 430.2 | 289.0 | 197.7 | 152.1 | 143.4 | 128.2 | 113.0 | 99.9 |
| 50° | 2209.7 | 1268.9 | 675.7 | 423.7 | 280.3 | 189.0 | 145.6 | 136.9 | 141.2 | 110.8 | 97.8 |
| 52.5° | 2400.9 | 1386.2 | 693.1 | 419.3 | 271.6 | 182.5 | 136.9 | 132.5 | 143.4 | 110.8 | 95.6 |
| 55° | 2650.7 | 1505.7 | 710.5 | 408.5 | 258.6 | 169.5 | 132.5 | 123.8 | 132.5 | 110.8 | 93.4 |
| 57.5° | 2894.1 | 1594.8 | 725.7 | 393.3 | 236.8 | 156.4 | 126.0 | 117.3 | 121.7 | 108.6 | 89.1 |
| 60° | 3035.3 | 1664.3 | 740.9 | 367.2 | 210.8 | 141.2 | 119.5 | 110.8 | 108.6 | 108.6 | 86.9 |
| 62.5° | 3074.4 | 1638.2 | 732.2 | 334.6 | 189.0 | 130.4 | 113.0 | 104.3 | 97.8 | 110.8 | 86.9 |
| 65° | 2950.6 | 1501.4 | 699.6 | 306.4 | 173.8 | 126.0 | 106.5 | 99.9 | 93.4 | 95.6 | 82.6 |
| 67.5° | 2570.4 | 1262.4 | 610.5 | 280.3 | 171.6 | 123.8 | 102.1 | 95.6 | 86.9 | 84.7 | 78.2 |
| 70° | 2096.7 | 990.8 | 506.2 | 260.7 | 169.5 | 123.8 | 97.8 | 89.1 | 82.6 | 76.0 | 71.7 |
| 72.5° | 1612.2 | 740.9 | 425.9 | 252.0 | 171.6 | 121.7 | 91.3 | 80.4 | 73.9 | 69.5 | 65.2 |
| 75° | 1134.2 | 523.6 | 354.2 | 226.0 | 160.8 | 115.2 | 84.7 | 71.7 | 65.2 | 60.8 | 56.5 |
| 77.5° | 821.3 | 356.3 | 262.9 | 182.5 | 136.9 | 99.9 | 73.9 | 60.8 | 54.3 | 52.1 | 47.8 |
| 80° | 523.6 | 219.4 | 176.0 | 134.7 | 99.9 | 78.2 | 56.5 | 47.8 | 43.5 | 39.1 | 36.9 |
| 82.5° | 302.0 | 128.2 | 106.5 | 91.3 | 65.2 | 52.1 | 41.3 | 36.9 | 28.2 | 26.1 | 23.9 |
| 85° | 184.7 | 80.4 | 58.7 | 47.8 | 41.3 | 32.6 | 23.9 | 21.7 | 15.2 | 13.0 | 10.9 |
| 87.5° | 41.3 | 17.4 | 15.2 | 10.9 | 13.0 | 10.9 | 6.5 | 4.3 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

| | 175° | 180° | 185° | 195° | 205° | 215° | 225° | 230° | 232.5° | 235° | 237.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 |
| 2.5° | 1351.4 | 1318.9 | 1321.0 | 1314.5 | 1297.1 | 1268.9 | 1260.2 | 1245.0 | 1247.2 | 1255.8 | 1247.2 |
| 5° | 1103.8 | 1064.6 | 1069.0 | 1066.8 | 1049.4 | 1029.9 | 1014.7 | 995.1 | 988.6 | 995.1 | 984.3 |
| 7.5° | 782.2 | 756.1 | 764.8 | 784.4 | 782.2 | 771.3 | 758.3 | 736.6 | 732.2 | 734.4 | 714.8 |
| 10° | 597.5 | 571.4 | 564.9 | 562.7 | 558.4 | 551.9 | 534.5 | 517.1 | 510.6 | 512.8 | 499.7 |
| 12.5° | 499.7 | 478.0 | 451.9 | 428.0 | 406.3 | 397.6 | 375.9 | 365.0 | 362.8 | 362.8 | 356.3 |
| 15° | 395.4 | 378.1 | 362.8 | 338.9 | 321.6 | 308.5 | 293.3 | 284.6 | 282.5 | 284.6 | 284.6 |
| 17.5° | 295.5 | 286.8 | 280.3 | 278.1 | 269.4 | 260.7 | 252.0 | 247.7 | 245.5 | 245.5 | 247.7 |
| 20° | 226.0 | 223.8 | 223.8 | 223.8 | 234.7 | 243.3 | 245.5 | 239.0 | 236.8 | 234.7 | 232.5 |
| 22.5° | 195.5 | 193.4 | 195.5 | 208.6 | 202.1 | 195.5 | 195.5 | 195.5 | 195.5 | 195.5 | 197.7 |
| 25° | 180.3 | 182.5 | 184.7 | 178.2 | 171.6 | 167.3 | 165.1 | 165.1 | 163.0 | 163.0 | 165.1 |
| 27.5° | 171.6 | 169.5 | 167.3 | 163.0 | 158.6 | 152.1 | 149.9 | 147.7 | 147.7 | 147.7 | 147.7 |
| 30° | 160.8 | 158.6 | 156.4 | 152.1 | 145.6 | 136.9 | 134.7 | 134.7 | 132.5 | 134.7 | 134.7 |
| 32.5° | 147.7 | 145.6 | 143.4 | 139.1 | 132.5 | 128.2 | 126.0 | 121.7 | 121.7 | 121.7 | 123.8 |
| 35° | 119.5 | 117.3 | 117.3 | 119.5 | 119.5 | 117.3 | 117.3 | 113.0 | 113.0 | 113.0 | 113.0 |
| 37.5° | 110.8 | 108.6 | 108.6 | 106.5 | 108.6 | 110.8 | 108.6 | 106.5 | 106.5 | 104.3 | 104.3 |
| 40° | 104.3 | 104.3 | 102.1 | 99.9 | 99.9 | 104.3 | 102.1 | 99.9 | 97.8 | 97.8 | 97.8 |
| 42.5° | 99.9 | 97.8 | 97.8 | 95.6 | 95.6 | 95.6 | 93.4 | 91.3 | 89.1 | 89.1 | 89.1 |
| 45° | 95.6 | 95.6 | 93.4 | 91.3 | 89.1 | 89.1 | 84.7 | 82.6 | 82.6 | 82.6 | 84.7 |
| 47.5° | 93.4 | 91.3 | 91.3 | 89.1 | 86.9 | 82.6 | 80.4 | 78.2 | 78.2 | 78.2 | 78.2 |
| 50° | 91.3 | 89.1 | 86.9 | 86.9 | 82.6 | 80.4 | 78.2 | 76.0 | 76.0 | 76.0 | 76.0 |
| 52.5° | 89.1 | 86.9 | 84.7 | 82.6 | 80.4 | 78.2 | 76.0 | 73.9 | 73.9 | 73.9 | 73.9 |
| 55° | 84.7 | 82.6 | 82.6 | 80.4 | 80.4 | 78.2 | 76.0 | 73.9 | 73.9 | 73.9 | 71.7 |
| 57.5° | 82.6 | 80.4 | 78.2 | 78.2 | 78.2 | 76.0 | 73.9 | 71.7 | 71.7 | 71.7 | 71.7 |
| 60° | 80.4 | 78.2 | 78.2 | 76.0 | 76.0 | 73.9 | 73.9 | 71.7 | 69.5 | 69.5 | 67.4 |
| 62.5° | 78.2 | 76.0 | 76.0 | 73.9 | 76.0 | 73.9 | 71.7 | 69.5 | 67.4 | 67.4 | 65.2 |
| 65° | 76.0 | 73.9 | 73.9 | 73.9 | 71.7 | 71.7 | 69.5 | 65.2 | 65.2 | 65.2 | 63.0 |
| 67.5° | 71.7 | 69.5 | 69.5 | 71.7 | 69.5 | 67.4 | 67.4 | 63.0 | 63.0 | 60.8 | 60.8 |
| 70° | 65.2 | 65.2 | 65.2 | 67.4 | 65.2 | 63.0 | 63.0 | 60.8 | 58.7 | 56.5 | 56.5 |
| 72.5° | 60.8 | 58.7 | 60.8 | 60.8 | 60.8 | 58.7 | 60.8 | 56.5 | 54.3 | 52.1 | 52.1 |
| 75° | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 50.0 | 47.8 | 45.6 |
| 77.5° | 41.3 | 43.5 | 43.5 | 43.5 | 43.5 | 45.6 | 43.5 | 43.5 | 43.5 | 41.3 | 39.1 |
| 80° | 30.4 | 30.4 | 32.6 | 34.8 | 32.6 | 34.8 | 32.6 | 34.8 | 32.6 | 32.6 | 32.6 |
| 82.5° | 17.4 | 17.4 | 19.6 | 21.7 | 21.7 | 23.9 | 19.6 | 21.7 | 21.7 | 23.9 | 21.7 |
| 85° | 6.5 | 6.5 | 6.5 | 6.5 | 8.7 | 8.7 | 6.5 | 8.7 | 8.7 | 10.9 | 10.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

| | 240° | 242.5° | 245° | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 265° | 270° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 |
| 2.5° | 1264.5 | 1264.5 | 1238.5 | 1242.8 | 1247.2 | 1255.8 | 1251.5 | 1249.3 | 1247.2 | 1260.2 | 1266.7 |
| 5° | 992.9 | 990.8 | 958.2 | 956.0 | 962.5 | 964.7 | 958.2 | 947.3 | 940.8 | 943.0 | 949.5 |
| 7.5° | 721.4 | 714.8 | 684.4 | 680.1 | 677.9 | 680.1 | 673.5 | 662.7 | 654.0 | 656.2 | 662.7 |
| 10° | 504.1 | 486.7 | 482.3 | 484.5 | 488.9 | 493.2 | 493.2 | 493.2 | 495.4 | 508.4 | 523.6 |
| 12.5° | 365.0 | 358.5 | 362.8 | 367.2 | 375.9 | 382.4 | 388.9 | 391.1 | 393.3 | 410.6 | 423.7 |
| 15° | 289.0 | 289.0 | 293.3 | 295.5 | 299.8 | 304.2 | 308.5 | 308.5 | 310.7 | 317.2 | 328.1 |
| 17.5° | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 247.7 | 245.5 | 241.2 | 239.0 | 236.8 | 239.0 |
| 20° | 230.3 | 228.1 | 223.8 | 221.6 | 217.3 | 212.9 | 210.8 | 204.2 | 202.1 | 195.5 | 193.4 |
| 22.5° | 197.7 | 195.5 | 195.5 | 195.5 | 195.5 | 193.4 | 191.2 | 189.0 | 184.7 | 178.2 | 173.8 |
| 25° | 163.0 | 163.0 | 163.0 | 165.1 | 165.1 | 167.3 | 171.6 | 171.6 | 171.6 | 171.6 | 165.1 |
| 27.5° | 147.7 | 147.7 | 147.7 | 147.7 | 149.9 | 149.9 | 152.1 | 152.1 | 152.1 | 154.3 | 156.4 |
| 30° | 134.7 | 136.9 | 136.9 | 139.1 | 139.1 | 141.2 | 141.2 | 143.4 | 143.4 | 145.6 | 145.6 |
| 32.5° | 123.8 | 123.8 | 126.0 | 128.2 | 128.2 | 128.2 | 132.5 | 132.5 | 130.4 | 132.5 | 132.5 |
| 35° | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 106.5 | 104.3 | 106.5 |
| 37.5° | 102.1 | 99.9 | 99.9 | 97.8 | 95.6 | 95.6 | 95.6 | 97.8 | 95.6 | 97.8 | 97.8 |
| 40° | 93.4 | 93.4 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 93.4 | 95.6 |
| 42.5° | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 89.1 | 89.1 |
| 45° | 82.6 | 82.6 | 82.6 | 82.6 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 86.9 |
| 47.5° | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 82.6 | 84.7 |
| 50° | 76.0 | 76.0 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 80.4 | 82.6 |
| 52.5° | 73.9 | 73.9 | 73.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 78.2 |
| 55° | 71.7 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 71.7 | 71.7 | 71.7 | 71.7 | 73.9 |
| 57.5° | 69.5 | 69.5 | 71.7 | 71.7 | 71.7 | 69.5 | 69.5 | 67.4 | 67.4 | 67.4 | 71.7 |
| 60° | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 65.2 | 65.2 | 65.2 | 65.2 | 67.4 | 67.4 |
| 62.5° | 65.2 | 65.2 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| 65° | 63.0 | 63.0 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8 |
| 67.5° | 58.7 | 58.7 | 58.7 | 56.5 | 56.5 | 56.5 | 56.5 | 58.7 | 56.5 | 56.5 | 56.5 |
| 70° | 54.3 | 54.3 | 54.3 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 |
| 72.5° | 50.0 | 50.0 | 50.0 | 50.0 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 |
| 75° | 45.6 | 43.5 | 43.5 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| 77.5° | 39.1 | 36.9 | 36.9 | 36.9 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 80° | 32.6 | 30.4 | 30.4 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 26.1 | 26.1 |
| 82.5° | 23.9 | 21.7 | 21.7 | 21.7 | 21.7 | 19.6 | 19.6 | 19.6 | 19.6 | 17.4 | 15.2 |
| 85° | 10.9 | 10.9 | 8.7 | 10.9 | 10.9 | 13.0 | 10.9 | 10.9 | 10.9 | 8.7 | 4.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 275° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° | 302.5° | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 0° |
| 2.5° | 1262.4 | 1284.1 | 1286.3 | 1273.2 | 1299.3 | 1303.6 | 1297.1 | 1297.1 | 1301.5 | 1318.9 | 1318.9 | 2.5° |
| 5° | 940.8 | 969.0 | 966.9 | 949.5 | 984.3 | 995.1 | 988.6 | 990.8 | 999.5 | 1019.0 | 1029.9 | 5° |
| 7.5° | 664.9 | 688.8 | 686.6 | 684.4 | 706.1 | 714.8 | 719.2 | 725.7 | 751.8 | 753.9 | 767.0 | 7.5° |
| 10° | 538.8 | 560.6 | 567.1 | 582.3 | 588.8 | 601.8 | 610.5 | 621.4 | 643.1 | 654.0 | 669.2 | 10° |
| 12.5° | 436.7 | 462.8 | 469.3 | 486.7 | 495.4 | 510.6 | 519.3 | 541.0 | 554.0 | 567.1 | 586.6 | 12.5° |
| 15° | 336.8 | 358.5 | 365.0 | 378.1 | 386.7 | 404.1 | 412.8 | 425.9 | 451.9 | 465.0 | 491.0 | 15° |
| 17.5° | 247.7 | 260.7 | 265.1 | 273.8 | 280.3 | 286.8 | 304.2 | 325.9 | 341.1 | 362.8 | 375.9 | 17.5° |
| 20° | 193.4 | 197.7 | 199.9 | 202.1 | 206.4 | 210.8 | 219.4 | 234.7 | 243.3 | 260.7 | 273.8 | 20° |
| 22.5° | 173.8 | 176.0 | 176.0 | 178.2 | 178.2 | 180.3 | 184.7 | 189.0 | 193.4 | 199.9 | 206.4 | 22.5° |
| 25° | 160.8 | 163.0 | 163.0 | 165.1 | 165.1 | 167.3 | 169.5 | 171.6 | 176.0 | 178.2 | 180.3 | 25° |
| 27.5° | 154.3 | 154.3 | 154.3 | 154.3 | 156.4 | 156.4 | 158.6 | 163.0 | 163.0 | 167.3 | 169.5 | 27.5° |
| 30° | 147.7 | 147.7 | 147.7 | 149.9 | 152.1 | 156.4 | 160.8 | 167.3 | 169.5 | 173.8 | 176.0 | 30° |
| 32.5° | 136.9 | 132.5 | 136.9 | 134.7 | 130.4 | 130.4 | 132.5 | 136.9 | 136.9 | 139.1 | 141.2 | 32.5° |
| 35° | 106.5 | 106.5 | 108.6 | 110.8 | 110.8 | 113.0 | 115.2 | 117.3 | 119.5 | 123.8 | 126.0 | 35° |
| 37.5° | 99.9 | 102.1 | 102.1 | 104.3 | 106.5 | 106.5 | 108.6 | 113.0 | 115.2 | 117.3 | 119.5 | 37.5° |
| 40° | 95.6 | 97.8 | 99.9 | 102.1 | 102.1 | 104.3 | 106.5 | 108.6 | 110.8 | 115.2 | 117.3 | 40° |
| 42.5° | 91.3 | 95.6 | 95.6 | 97.8 | 99.9 | 102.1 | 104.3 | 106.5 | 110.8 | 113.0 | 115.2 | 42.5° |
| 45° | 89.1 | 91.3 | 93.4 | 95.6 | 97.8 | 99.9 | 102.1 | 106.5 | 108.6 | 113.0 | 115.2 | 45° |
| 47.5° | 86.9 | 89.1 | 91.3 | 93.4 | 95.6 | 97.8 | 99.9 | 104.3 | 108.6 | 113.0 | 117.3 | 47.5° |
| 50° | 82.6 | 86.9 | 89.1 | 91.3 | 93.4 | 95.6 | 99.9 | 104.3 | 108.6 | 115.2 | 126.0 | 50° |
| 52.5° | 80.4 | 84.7 | 84.7 | 89.1 | 91.3 | 95.6 | 99.9 | 104.3 | 110.8 | 119.5 | 130.4 | 52.5° |
| 55° | 76.0 | 80.4 | 80.4 | 84.7 | 89.1 | 93.4 | 95.6 | 102.1 | 108.6 | 117.3 | 119.5 | 55° |
| 57.5° | 71.7 | 76.0 | 78.2 | 80.4 | 84.7 | 89.1 | 91.3 | 97.8 | 106.5 | 108.6 | 106.5 | 57.5° |
| 60° | 69.5 | 71.7 | 73.9 | 76.0 | 80.4 | 82.6 | 89.1 | 102.1 | 110.8 | 102.1 | 91.3 | 60° |
| 62.5° | 65.2 | 69.5 | 71.7 | 73.9 | 78.2 | 80.4 | 84.7 | 93.4 | 95.6 | 84.7 | 82.6 | 62.5° |
| 65° | 63.0 | 67.4 | 67.4 | 71.7 | 73.9 | 73.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 65° |
| 67.5° | 58.7 | 63.0 | 63.0 | 65.2 | 67.4 | 67.4 | 69.5 | 69.5 | 69.5 | 69.5 | 69.5 | 67.5° |
| 70° | 54.3 | 56.5 | 58.7 | 60.8 | 60.8 | 60.8 | 63.0 | 63.0 | 63.0 | 65.2 | 65.2 | 70° |
| 72.5° | 50.0 | 52.1 | 52.1 | 54.3 | 54.3 | 56.5 | 56.5 | 58.7 | 58.7 | 58.7 | 60.8 | 72.5° |
| 75° | 41.3 | 43.5 | 45.6 | 47.8 | 47.8 | 50.0 | 50.0 | 50.0 | 50.0 | 52.1 | 52.1 | 75° |
| 77.5° | 34.8 | 34.8 | 39.1 | 39.1 | 41.3 | 41.3 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 77.5° |
| 80° | 26.1 | 26.1 | 28.2 | 30.4 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 80° |
| 82.5° | 15.2 | 15.2 | 17.4 | 17.4 | 19.6 | 19.6 | 21.7 | 19.6 | 19.6 | 17.4 | 17.4 | 82.5° |
| 85° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 85° |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 87.5° |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90° |

NUMBER: P228497
 NUMBER: ISS-AF-1200-LED-E1-SLL-7060

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 335° | 345° | | 355° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 1518.7 | 0° | 1518.7 |
| 1351.4 | 1351.4 | 1355.8 | 1373.2 | 1377.5 | 1388.4 | 1386.2 | 1405.8 | 1414.5 | 1466.6 | 1520.9 | 2.5° | 1573.1 |
| 1069.0 | 1077.7 | 1090.7 | 1112.4 | 1125.5 | 1149.4 | 1145.0 | 1184.1 | 1190.7 | 1286.3 | 1379.7 | 5° | 1488.3 |
| 797.4 | 810.4 | 821.3 | 845.2 | 864.8 | 888.7 | 895.2 | 940.8 | 953.8 | 1079.9 | 1210.2 | 7.5° | 1360.1 |
| 690.9 | 701.8 | 717.0 | 732.2 | 751.8 | 762.6 | 780.0 | 801.7 | 817.0 | 910.4 | 1060.3 | 10° | 1231.9 |
| 614.9 | 630.1 | 645.3 | 667.0 | 686.6 | 706.1 | 723.5 | 745.3 | 764.8 | 840.9 | 958.2 | 12.5° | 1155.9 |
| 521.5 | 538.8 | 556.2 | 580.1 | 608.4 | 627.9 | 647.5 | 671.4 | 695.3 | 788.7 | 925.6 | 15° | 1125.5 |
| 404.1 | 423.7 | 447.6 | 480.2 | 510.6 | 534.5 | 554.0 | 586.6 | 617.1 | 730.0 | 910.4 | 17.5° | 1155.9 |
| 297.7 | 315.0 | 336.8 | 365.0 | 386.7 | 428.0 | 449.8 | 488.9 | 525.8 | 667.0 | 888.7 | 20° | 1214.6 |
| 219.4 | 230.3 | 247.7 | 269.4 | 293.3 | 330.3 | 354.2 | 388.9 | 430.2 | 608.4 | 888.7 | 22.5° | 1314.5 |
| 184.7 | 189.0 | 195.5 | 208.6 | 223.8 | 249.9 | 273.8 | 308.5 | 349.8 | 556.2 | 912.6 | 25° | 1477.5 |
| 171.6 | 173.8 | 178.2 | 184.7 | 193.4 | 206.4 | 223.8 | 252.0 | 293.3 | 514.9 | 947.3 | 27.5° | 1651.3 |
| 180.3 | 180.3 | 180.3 | 182.5 | 186.9 | 193.4 | 202.1 | 219.4 | 245.5 | 454.1 | 971.2 | 30° | 1803.4 |
| 145.6 | 147.7 | 147.7 | 152.1 | 154.3 | 163.0 | 171.6 | 184.7 | 208.6 | 417.2 | 986.4 | 32.5° | 1912.0 |
| 130.4 | 132.5 | 134.7 | 136.9 | 141.2 | 143.4 | 152.1 | 167.3 | 191.2 | 393.3 | 984.3 | 35° | 2040.2 |
| 123.8 | 126.0 | 128.2 | 128.2 | 130.4 | 134.7 | 141.2 | 156.4 | 184.7 | 384.6 | 984.3 | 37.5° | 2188.0 |
| 121.7 | 121.7 | 121.7 | 121.7 | 126.0 | 130.4 | 141.2 | 156.4 | 180.3 | 375.9 | 990.8 | 40° | 2350.9 |
| 117.3 | 117.3 | 117.3 | 119.5 | 126.0 | 134.7 | 139.1 | 147.7 | 167.3 | 371.5 | 1001.6 | 42.5° | 2498.7 |
| 117.3 | 117.3 | 119.5 | 128.2 | 130.4 | 130.4 | 132.5 | 139.1 | 158.6 | 371.5 | 1023.4 | 45° | 2613.8 |
| 121.7 | 126.0 | 128.2 | 126.0 | 123.8 | 123.8 | 123.8 | 132.5 | 152.1 | 378.1 | 1064.6 | 47.5° | 2746.3 |
| 132.5 | 130.4 | 121.7 | 119.5 | 119.5 | 115.2 | 117.3 | 126.0 | 149.9 | 378.1 | 1149.4 | 50° | 2928.9 |
| 130.4 | 121.7 | 119.5 | 115.2 | 110.8 | 108.6 | 110.8 | 123.8 | 147.7 | 373.7 | 1271.1 | 52.5° | 3196.1 |
| 117.3 | 115.2 | 108.6 | 104.3 | 102.1 | 104.3 | 108.6 | 119.5 | 143.4 | 369.4 | 1421.0 | 55° | 3519.8 |
| 102.1 | 99.9 | 95.6 | 95.6 | 97.8 | 99.9 | 106.5 | 115.2 | 132.5 | 358.5 | 1540.5 | 57.5° | 3817.5 |
| 89.1 | 89.1 | 89.1 | 91.3 | 93.4 | 95.6 | 102.1 | 108.6 | 121.7 | 338.9 | 1620.9 | 60° | 4008.7 |
| 80.4 | 82.6 | 82.6 | 86.9 | 89.1 | 91.3 | 95.6 | 102.1 | 110.8 | 317.2 | 1638.2 | 62.5° | 4010.9 |
| 76.0 | 78.2 | 80.4 | 80.4 | 82.6 | 84.7 | 91.3 | 97.8 | 110.8 | 299.8 | 1531.8 | 65° | 3852.3 |
| 71.7 | 71.7 | 73.9 | 76.0 | 78.2 | 80.4 | 84.7 | 95.6 | 113.0 | 284.6 | 1299.3 | 67.5° | 3450.3 |
| 65.2 | 67.4 | 69.5 | 71.7 | 71.7 | 73.9 | 80.4 | 95.6 | 115.2 | 278.1 | 1032.1 | 70° | 2913.6 |
| 60.8 | 60.8 | 63.0 | 65.2 | 65.2 | 69.5 | 76.0 | 93.4 | 117.3 | 267.2 | 777.8 | 72.5° | 2272.7 |
| 52.1 | 54.3 | 54.3 | 54.3 | 56.5 | 60.8 | 69.5 | 84.7 | 102.1 | 221.6 | 525.8 | 75° | 1540.5 |
| 45.6 | 43.5 | 45.6 | 45.6 | 47.8 | 50.0 | 56.5 | 65.2 | 76.0 | 141.2 | 278.1 | 77.5° | 979.9 |
| 32.6 | 30.4 | 30.4 | 32.6 | 32.6 | 32.6 | 36.9 | 39.1 | 43.5 | 86.9 | 154.3 | 80° | 577.9 |
| 17.4 | 15.2 | 17.4 | 15.2 | 15.2 | 17.4 | 17.4 | 21.7 | 21.7 | 41.3 | 69.5 | 82.5° | 358.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 15.2 | 85° | 145.6 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 87.5° | 0.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90° | 0.0 |

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TION (continued):

| 359° | 360° |
|--------|--------|
| 1518.7 | 1518.7 |
| 1599.1 | 1612.2 |
| 1542.6 | 1560.0 |
| 1421.0 | 1444.9 |
| 1308.0 | 1331.9 |
| 1247.2 | 1260.2 |
| 1218.9 | 1245.0 |
| 1260.2 | 1286.3 |
| 1342.8 | 1384.0 |
| 1488.3 | 1540.5 |
| 1718.6 | 1764.3 |
| 1901.1 | 1972.8 |
| 2070.6 | 2129.3 |
| 2205.3 | 2272.7 |
| 2359.6 | 2424.8 |
| 2546.5 | 2635.5 |
| 2739.8 | 2839.8 |
| 2920.2 | 3031.0 |
| 3089.6 | 3176.5 |
| 3220.0 | 3317.8 |
| 3385.1 | 3500.3 |
| 3665.4 | 3748.0 |
| 4004.4 | 4097.8 |
| 4319.4 | 4399.8 |
| 4465.0 | 4532.3 |
| 4469.3 | 4554.1 |
| 4373.7 | 4469.3 |
| 4130.4 | 4278.1 |
| 3652.4 | 3817.5 |
| 2870.2 | 3059.2 |
| 1905.5 | 2070.6 |
| 1099.4 | 1153.7 |
| 649.6 | 677.9 |
| 386.7 | 415.0 |
| 104.3 | 113.0 |
| 0.0 | 0.0 |
| 0.0 | 0.0 |

(END OF REPORT)