

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: P833524

Luminaire Tested: **TTN-D2-735-U-DL-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833524
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D2-735-U-DL-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5010.9 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B1 - U3 - G1

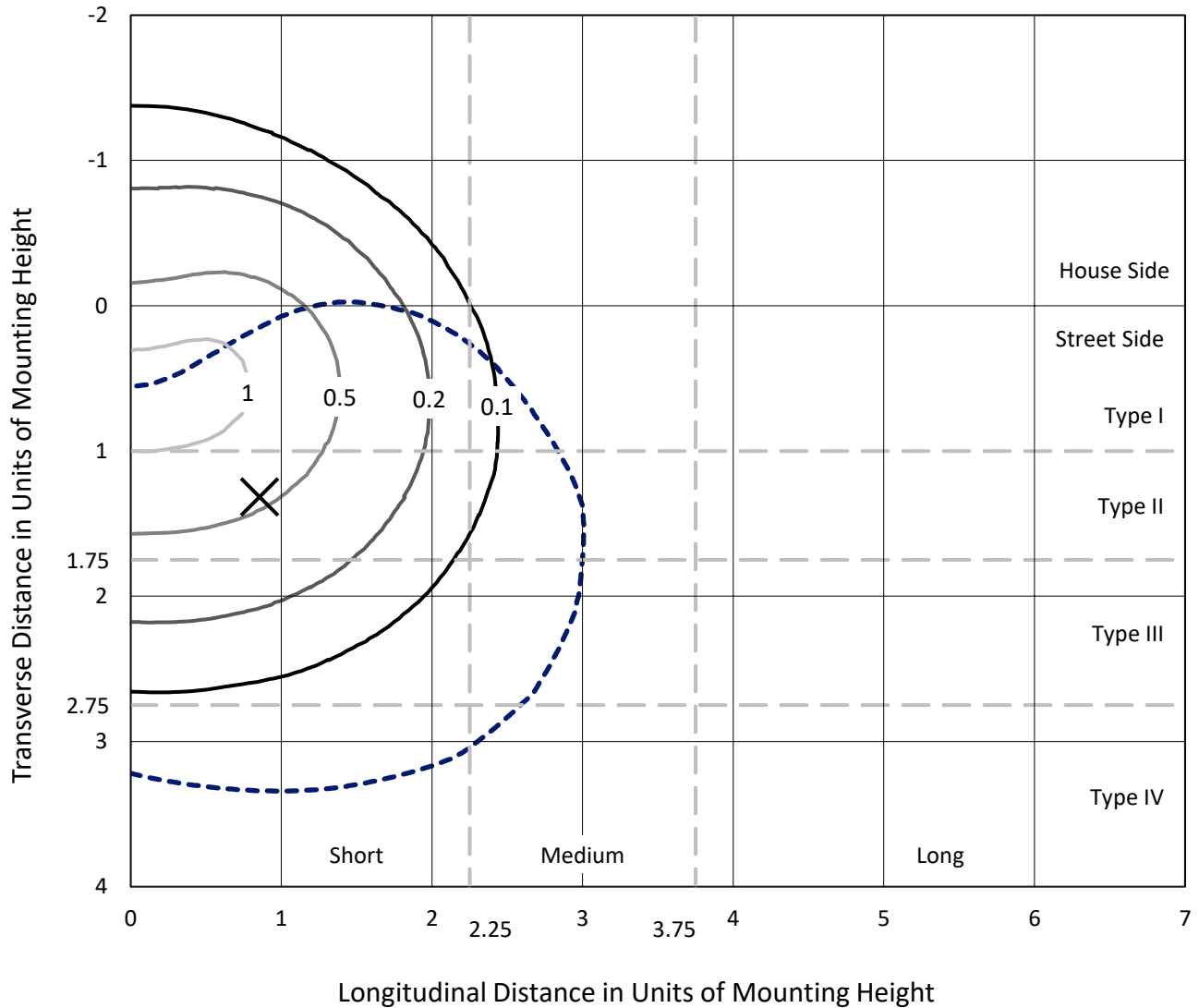
Input Watts (W): 45.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P833524
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Iso-Footcandle Lines of Horizontal Illumination

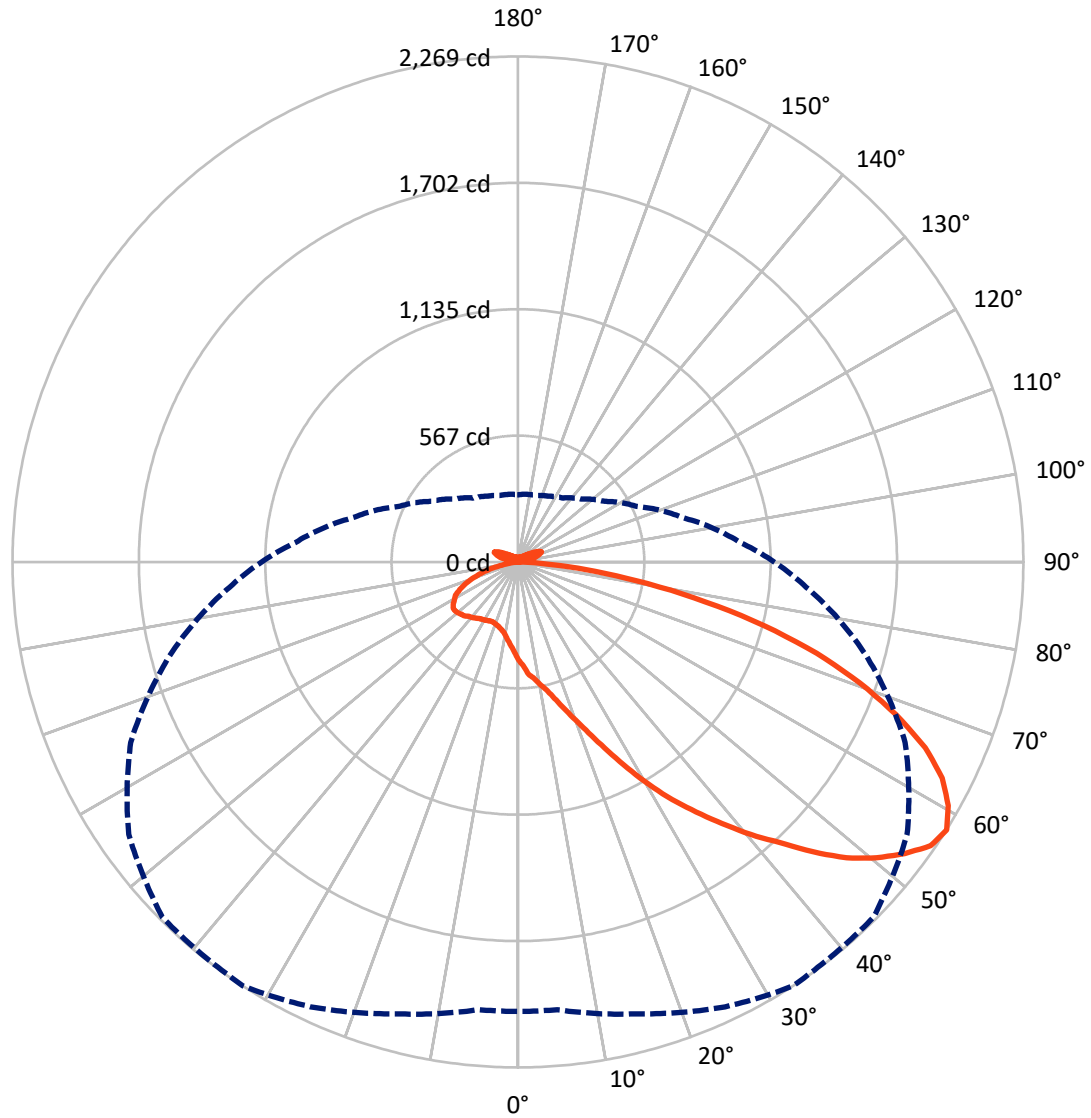
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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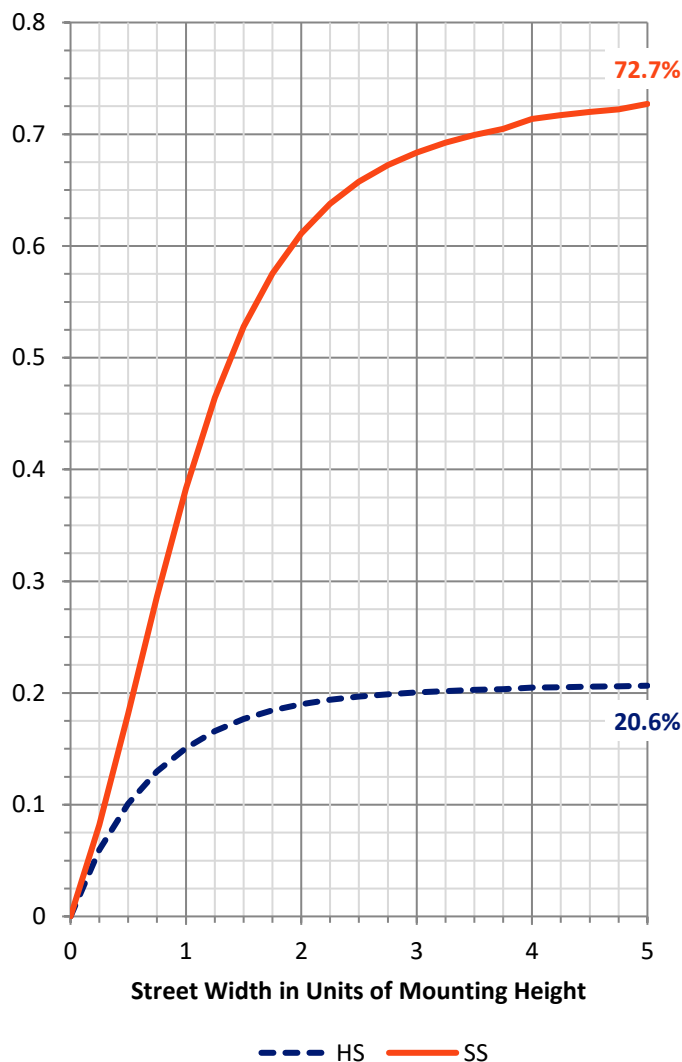
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1039.5 | 150.2 | 1189.8 |
| | % Fixture | 20.7 | 3.0 | 23.7 |
| Street Side | Lumens | 3670.9 | 150.2 | 3821.1 |
| | % Fixture | 73.3 | 3.0 | 76.3 |
| Total | Lumens | 4710.4 | 300.5 | 5010.9 |
| | % Fixture | 94.0 | 6.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.2 | 0.8 |
| 10°-20° | 137.0 | 2.7 |
| 20°-30° | 288.8 | 5.8 |
| 30°-40° | 524.5 | 10.5 |
| 40°-50° | 828.8 | 16.5 |
| 50°-60° | 1100.7 | 22.0 |
| 60°-70° | 1059.4 | 21.1 |
| 70°-80° | 621.9 | 12.4 |
| 80°-90° | 107.2 | 2.1 |
| 90°-100° | 6.7 | 0.1 |
| 100°-110° | 68.2 | 1.4 |
| 110°-120° | 99.6 | 2.0 |
| 120°-130° | 57.8 | 1.2 |
| 130°-140° | 30.6 | 0.6 |
| 140°-150° | 18.2 | 0.4 |
| 150°-160° | 11.2 | 0.2 |
| 160°-170° | 6.1 | 0.1 |
| 170°-180° | 2.0 | 0.0 |
| 0°-90° | 4710.4 | 94.0 |
| 0°-180° | 5010.9 | 100.0 |

Coefficient of Utilization



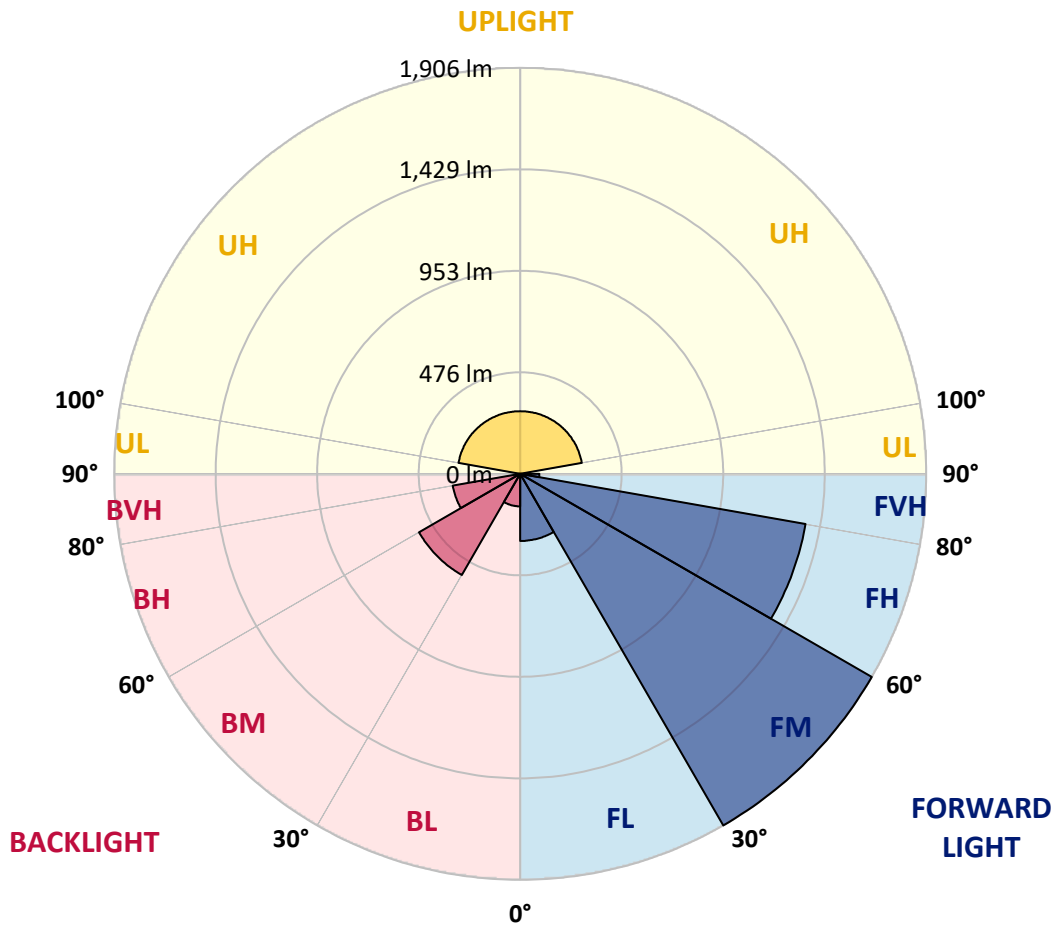
REPORT NUMBER: P833524
 CATALOG NUMBER: TTN-D2-735-U-DL-CG-UPL1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 315.1 | 6.3 | | | |
| FM (30°-60°) | 1905.5 | 38.0 | | | |
| FH (60°-80°) | 1359.9 | 27.1 | | | G1/1800 |
| FVH (80°-90°) | 90.4 | 1.8 | | | G1/100 |
| BL (0°-30°) | 152.9 | 3.1 | B1/500 | | |
| BM (30°-60°) | 548.4 | 10.9 | B1/1000 | | |
| BH (60°-80°) | 321.4 | 6.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 6.7 | 0.1 | | U1/10 | |
| UH (100°-180°) | 293.8 | 5.9 | | U3/500 | |

BUG Rating: B1-U3-G1

Type IV Short





REPORT NUMBER: P833524

CATALOG NUMBER: TTN-D2-735-U-DL-CG-UPL1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 |
| 2.5° | 470.3 | 474.4 | 470.3 | 470.3 | 466.2 | 466.2 | 462.1 | 457.9 | 453.8 | 449.7 | 441.4 |
| 5° | 524.0 | 524.0 | 519.8 | 511.6 | 507.5 | 503.3 | 495.1 | 482.7 | 474.4 | 462.1 | 449.7 |
| 7.5° | 548.7 | 548.7 | 544.6 | 536.3 | 528.1 | 524.0 | 511.6 | 495.1 | 482.7 | 466.2 | 449.7 |
| 10° | 581.7 | 585.8 | 577.6 | 569.3 | 561.1 | 557.0 | 540.5 | 519.8 | 499.2 | 478.6 | 453.8 |
| 12.5° | 618.8 | 623.0 | 618.8 | 606.5 | 594.1 | 590.0 | 573.5 | 548.7 | 524.0 | 495.1 | 466.2 |
| 15° | 668.4 | 676.6 | 664.2 | 656.0 | 643.6 | 639.5 | 618.8 | 590.0 | 561.1 | 524.0 | 486.8 |
| 17.5° | 726.1 | 730.2 | 722.0 | 709.6 | 701.4 | 697.2 | 676.6 | 643.6 | 602.3 | 561.1 | 515.7 |
| 20° | 792.1 | 796.2 | 792.1 | 775.6 | 767.4 | 763.2 | 742.6 | 705.5 | 656.0 | 610.6 | 552.8 |
| 22.5° | 870.5 | 878.8 | 866.4 | 854.0 | 845.8 | 845.8 | 821.0 | 779.7 | 722.0 | 664.2 | 598.2 |
| 25° | 961.3 | 973.6 | 957.1 | 948.9 | 940.6 | 936.5 | 915.9 | 866.4 | 800.4 | 730.2 | 647.7 |
| 27.5° | 1072.7 | 1080.9 | 1068.5 | 1064.4 | 1047.9 | 1047.9 | 1014.9 | 957.1 | 887.0 | 804.5 | 709.6 |
| 30° | 1171.7 | 1179.9 | 1171.7 | 1171.7 | 1159.3 | 1155.2 | 1122.2 | 1064.4 | 977.8 | 878.8 | 763.2 |
| 32.5° | 1266.6 | 1274.8 | 1270.7 | 1274.8 | 1270.7 | 1266.6 | 1225.3 | 1163.4 | 1076.8 | 948.9 | 816.9 |
| 35° | 1361.5 | 1373.8 | 1369.7 | 1382.1 | 1378.0 | 1373.8 | 1340.8 | 1266.6 | 1163.4 | 1035.5 | 874.6 |
| 37.5° | 1460.5 | 1472.8 | 1472.8 | 1485.2 | 1489.3 | 1489.3 | 1452.2 | 1373.8 | 1258.3 | 1113.9 | 940.6 |
| 40° | 1567.7 | 1580.1 | 1580.1 | 1600.7 | 1609.0 | 1609.0 | 1567.7 | 1489.3 | 1361.5 | 1200.6 | 1010.8 |
| 42.5° | 1670.9 | 1683.3 | 1687.4 | 1708.0 | 1720.4 | 1724.5 | 1691.5 | 1600.7 | 1452.2 | 1287.2 | 1076.8 |
| 45° | 1769.9 | 1782.3 | 1794.6 | 1835.9 | 1856.5 | 1852.4 | 1827.6 | 1732.8 | 1567.7 | 1378.0 | 1146.9 |
| 47.5° | 1864.8 | 1881.3 | 1901.9 | 1955.5 | 1984.4 | 1980.3 | 1963.8 | 1856.5 | 1675.0 | 1464.6 | 1208.8 |
| 50° | 1939.0 | 1951.4 | 1992.7 | 2050.4 | 2087.6 | 2091.7 | 2066.9 | 1963.8 | 1765.8 | 1530.6 | 1254.2 |
| 52.5° | 1996.8 | 2013.3 | 2062.8 | 2145.3 | 2174.2 | 2186.6 | 2157.7 | 2054.6 | 1856.5 | 1588.4 | 1291.3 |
| 55° | 2038.1 | 2038.1 | 2112.3 | 2207.2 | 2248.5 | 2256.7 | 2256.7 | 2128.8 | 1910.2 | 1625.5 | 1311.9 |
| 57.5° | 2017.4 | 2017.4 | 2099.9 | 2203.1 | 2269.1 | 2265.0 | 2256.7 | 2132.9 | 1918.4 | 1617.2 | 1299.6 |
| 60° | 1959.7 | 1972.0 | 2050.4 | 2153.6 | 2219.6 | 2215.5 | 2190.7 | 2079.3 | 1877.2 | 1584.2 | 1274.8 |
| 62.5° | 1881.3 | 1901.9 | 1984.4 | 2062.8 | 2137.1 | 2149.4 | 2116.4 | 2017.4 | 1807.0 | 1534.7 | 1229.4 |
| 65° | 1732.8 | 1761.6 | 1864.8 | 1951.4 | 2009.2 | 2033.9 | 1992.7 | 1901.9 | 1712.1 | 1439.8 | 1134.5 |
| 67.5° | 1567.7 | 1588.4 | 1675.0 | 1798.8 | 1831.8 | 1856.5 | 1835.9 | 1741.0 | 1580.1 | 1287.2 | 1027.3 |
| 70° | 1378.0 | 1411.0 | 1468.7 | 1592.5 | 1629.6 | 1654.4 | 1654.4 | 1559.5 | 1406.8 | 1130.4 | 899.4 |
| 72.5° | 1155.2 | 1192.3 | 1262.4 | 1353.2 | 1402.7 | 1419.2 | 1415.1 | 1336.7 | 1200.6 | 957.1 | 759.1 |
| 75° | 911.8 | 940.6 | 1023.2 | 1089.2 | 1142.8 | 1155.2 | 1151.0 | 1085.0 | 961.3 | 771.5 | 602.3 |
| 77.5° | 672.5 | 701.4 | 763.2 | 812.7 | 862.3 | 854.0 | 854.0 | 804.5 | 726.1 | 573.5 | 457.9 |
| 80° | 441.4 | 466.2 | 519.8 | 536.3 | 590.0 | 585.8 | 585.8 | 548.7 | 495.1 | 383.7 | 305.3 |
| 82.5° | 243.4 | 264.0 | 301.2 | 317.7 | 350.7 | 342.4 | 346.6 | 321.8 | 288.8 | 214.5 | 173.3 |
| 85° | 86.6 | 103.1 | 123.8 | 136.1 | 152.6 | 152.6 | 152.6 | 132.0 | 123.8 | 82.5 | 70.1 |
| 87.5° | 4.1 | 8.3 | 16.5 | 16.5 | 24.8 | 24.8 | 24.8 | 16.5 | 16.5 | 4.1 | 4.1 |
| 90° | 2.6 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 |
| 92.5° | 2.6 | 2.6 | 2.6 | 3.6 | 4.0 | 4.1 | 3.6 | 4.1 | 3.1 | 3.1 | 2.6 |
| 95° | 3.1 | 3.1 | 3.6 | 4.6 | 5.5 | 5.7 | 6.2 | 6.2 | 3.6 | 3.6 | 3.1 |
| 97.5° | 4.1 | 4.6 | 4.6 | 5.7 | 8.6 | 9.3 | 17.0 | 10.3 | 5.1 | 5.1 | 4.6 |
| 100° | 6.7 | 7.2 | 7.2 | 12.9 | 24.3 | 27.2 | 36.5 | 26.2 | 13.4 | 9.8 | 7.2 |
| 102.5° | 21.6 | 22.6 | 27.8 | 41.6 | 57.7 | 61.7 | 56.0 | 47.3 | 44.7 | 30.8 | 24.7 |
| 105° | 55.0 | 54.5 | 58.6 | 69.4 | 83.0 | 86.4 | 84.8 | 78.1 | 70.9 | 61.2 | 56.5 |
| 107.5° | 72.5 | 72.5 | 76.1 | 85.3 | 95.6 | 98.2 | 114.6 | 116.2 | 92.0 | 80.7 | 75.6 |
| 110° | 81.7 | 81.7 | 84.8 | 92.5 | 106.1 | 109.5 | 132.6 | 131.6 | 113.6 | 99.7 | 93.0 |



REPORT NUMBER: P833524
 CATALOG NUMBER: TTN-D2-735-U-DL-CG-UPL1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 83.8 | 84.3 | 88.4 | 100.2 | 115.0 | 118.7 | 129.0 | 124.4 | 117.2 | 111.0 | 105.9 |
| 115° | 86.9 | 86.9 | 91.5 | 102.8 | 111.0 | 113.1 | 117.2 | 112.1 | 106.4 | 102.3 | 100.2 |
| 117.5° | 85.8 | 87.4 | 88.4 | 94.6 | 100.0 | 101.3 | 104.4 | 101.8 | 94.1 | 91.0 | 90.0 |
| 120° | 79.7 | 79.7 | 80.7 | 83.8 | 86.7 | 87.4 | 88.9 | 87.9 | 82.8 | 80.2 | 79.7 |
| 122.5° | 70.9 | 71.5 | 70.9 | 72.5 | 74.5 | 75.0 | 76.6 | 75.6 | 71.5 | 70.4 | 70.4 |
| 125° | 62.2 | 62.2 | 61.7 | 62.7 | 64.0 | 64.3 | 63.7 | 64.3 | 62.2 | 61.7 | 61.7 |
| 127.5° | 56.0 | 55.5 | 54.5 | 55.0 | 55.4 | 55.5 | 55.5 | 56.0 | 54.0 | 54.5 | 55.0 |
| 130° | 49.9 | 49.9 | 48.8 | 48.8 | 48.8 | 48.8 | 47.8 | 48.8 | 47.8 | 48.3 | 48.8 |
| 132.5° | 44.2 | 44.2 | 42.7 | 42.2 | 42.2 | 42.2 | 42.2 | 42.7 | 42.2 | 43.2 | 44.2 |
| 135° | 39.6 | 39.6 | 38.0 | 38.6 | 38.6 | 38.6 | 38.0 | 38.6 | 38.0 | 39.1 | 39.6 |
| 137.5° | 36.0 | 36.0 | 35.0 | 35.0 | 35.0 | 35.0 | 34.4 | 35.0 | 35.0 | 35.5 | 36.5 |
| 140° | 32.9 | 32.9 | 32.4 | 32.4 | 32.0 | 31.9 | 32.4 | 32.4 | 32.4 | 32.9 | 33.4 |
| 142.5° | 31.4 | 30.8 | 30.3 | 29.8 | 30.2 | 30.3 | 30.3 | 30.3 | 29.8 | 30.3 | 31.4 |
| 145° | 28.8 | 28.8 | 28.3 | 28.3 | 28.3 | 28.3 | 28.8 | 28.3 | 28.3 | 28.8 | 28.8 |
| 147.5° | 27.2 | 27.2 | 26.7 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 26.7 | 27.2 | 27.2 |
| 150° | 26.7 | 26.2 | 25.7 | 26.2 | 26.2 | 26.2 | 25.7 | 25.7 | 25.7 | 25.7 | 26.2 |
| 152.5° | 25.2 | 25.2 | 24.7 | 25.2 | 24.8 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 25.2 |
| 155° | 24.2 | 24.2 | 23.6 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 |
| 157.5° | 23.1 | 23.6 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.6 |
| 160° | 22.6 | 22.6 | 22.6 | 22.6 | 22.2 | 22.1 | 22.1 | 22.1 | 22.6 | 22.6 | 22.6 |
| 162.5° | 22.1 | 22.1 | 22.1 | 22.1 | 21.7 | 21.6 | 21.6 | 21.6 | 21.6 | 22.1 | 22.1 |
| 165° | 22.1 | 21.6 | 21.6 | 21.6 | 21.2 | 21.1 | 21.1 | 21.1 | 21.1 | 21.6 | 22.1 |
| 167.5° | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 20.6 | 20.6 | 21.1 | 21.1 | 21.1 |
| 170° | 21.1 | 21.1 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 |
| 172.5° | 21.1 | 21.1 | 21.1 | 21.1 | 20.7 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 21.1 |
| 175° | 21.1 | 21.1 | 21.1 | 21.1 | 20.7 | 20.6 | 20.6 | 20.6 | 21.1 | 21.1 | 21.1 |
| 177.5° | 21.1 | 21.1 | 21.1 | 21.1 | 20.7 | 20.6 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |
| 180° | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |



REPORT NUMBER: P833524

CATALOG NUMBER: TTN-D2-735-U-DL-CG-UPL1

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 | 441.4 |
| 2.5° | 437.3 | 433.2 | 429.1 | 420.8 | 416.7 | 412.6 | 408.4 | 404.3 | 404.3 | 404.3 | 404.3 |
| 5° | 441.4 | 437.3 | 424.9 | 412.6 | 400.2 | 387.8 | 379.6 | 375.4 | 371.3 | 367.2 | 367.2 |
| 7.5° | 441.4 | 433.2 | 416.7 | 400.2 | 387.8 | 371.3 | 358.9 | 346.6 | 338.3 | 334.2 | 334.2 |
| 10° | 445.6 | 433.2 | 412.6 | 396.1 | 375.4 | 354.8 | 338.3 | 321.8 | 313.5 | 305.3 | 305.3 |
| 12.5° | 453.8 | 441.4 | 412.6 | 391.9 | 367.2 | 342.4 | 321.8 | 305.3 | 292.9 | 284.7 | 284.7 |
| 15° | 470.3 | 453.8 | 420.8 | 391.9 | 363.1 | 334.2 | 313.5 | 292.9 | 280.5 | 272.3 | 272.3 |
| 17.5° | 495.1 | 474.4 | 433.2 | 391.9 | 358.9 | 330.0 | 305.3 | 284.7 | 268.2 | 259.9 | 259.9 |
| 20° | 524.0 | 499.2 | 449.7 | 400.2 | 358.9 | 325.9 | 301.2 | 276.4 | 259.9 | 251.7 | 251.7 |
| 22.5° | 565.2 | 528.1 | 470.3 | 412.6 | 367.2 | 330.0 | 297.0 | 272.3 | 255.8 | 247.5 | 247.5 |
| 25° | 610.6 | 569.3 | 495.1 | 429.1 | 375.4 | 330.0 | 297.0 | 272.3 | 255.8 | 247.5 | 243.4 |
| 27.5° | 660.1 | 614.7 | 524.0 | 445.6 | 383.7 | 338.3 | 301.2 | 272.3 | 255.8 | 247.5 | 247.5 |
| 30° | 705.5 | 651.8 | 552.8 | 466.2 | 396.1 | 342.4 | 305.3 | 276.4 | 255.8 | 247.5 | 247.5 |
| 32.5° | 755.0 | 693.1 | 581.7 | 486.8 | 408.4 | 350.7 | 309.4 | 280.5 | 259.9 | 251.7 | 247.5 |
| 35° | 804.5 | 734.4 | 610.6 | 503.3 | 420.8 | 358.9 | 313.5 | 284.7 | 264.0 | 255.8 | 255.8 |
| 37.5° | 858.1 | 779.7 | 639.5 | 524.0 | 433.2 | 367.2 | 321.8 | 288.8 | 268.2 | 259.9 | 259.9 |
| 40° | 915.9 | 825.1 | 668.4 | 540.5 | 445.6 | 375.4 | 330.0 | 297.0 | 276.4 | 268.2 | 268.2 |
| 42.5° | 973.6 | 874.6 | 701.4 | 561.1 | 457.9 | 383.7 | 334.2 | 305.3 | 284.7 | 276.4 | 276.4 |
| 45° | 1031.4 | 915.9 | 730.2 | 581.7 | 470.3 | 396.1 | 346.6 | 313.5 | 292.9 | 284.7 | 284.7 |
| 47.5° | 1085.0 | 961.3 | 755.0 | 594.1 | 482.7 | 404.3 | 350.7 | 321.8 | 301.2 | 297.0 | 292.9 |
| 50° | 1122.2 | 990.1 | 771.5 | 606.5 | 486.8 | 408.4 | 358.9 | 325.9 | 309.4 | 301.2 | 301.2 |
| 52.5° | 1151.0 | 1019.0 | 783.9 | 614.7 | 490.9 | 412.6 | 363.1 | 334.2 | 317.7 | 309.4 | 305.3 |
| 55° | 1167.5 | 1023.2 | 783.9 | 606.5 | 486.8 | 412.6 | 363.1 | 334.2 | 317.7 | 309.4 | 309.4 |
| 57.5° | 1151.0 | 1002.5 | 767.4 | 590.0 | 474.4 | 400.2 | 350.7 | 325.9 | 309.4 | 305.3 | 301.2 |
| 60° | 1118.0 | 969.5 | 734.4 | 565.2 | 453.8 | 379.6 | 334.2 | 313.5 | 301.2 | 297.0 | 292.9 |
| 62.5° | 1072.7 | 928.3 | 701.4 | 532.2 | 424.9 | 354.8 | 321.8 | 297.0 | 288.8 | 284.7 | 280.5 |
| 65° | 981.9 | 849.9 | 647.7 | 490.9 | 387.8 | 325.9 | 292.9 | 276.4 | 268.2 | 259.9 | 255.8 |
| 67.5° | 882.9 | 763.2 | 573.5 | 441.4 | 342.4 | 292.9 | 264.0 | 247.5 | 235.2 | 235.2 | 231.0 |
| 70° | 775.6 | 672.5 | 495.1 | 375.4 | 297.0 | 255.8 | 226.9 | 214.5 | 206.3 | 206.3 | 202.2 |
| 72.5° | 647.7 | 565.2 | 412.6 | 305.3 | 243.4 | 210.4 | 189.8 | 177.4 | 173.3 | 173.3 | 169.2 |
| 75° | 519.8 | 445.6 | 325.9 | 239.3 | 189.8 | 165.0 | 148.5 | 140.3 | 136.1 | 136.1 | 132.0 |
| 77.5° | 383.7 | 325.9 | 235.2 | 173.3 | 136.1 | 119.6 | 107.3 | 103.1 | 99.0 | 99.0 | 94.9 |
| 80° | 255.8 | 214.5 | 152.6 | 111.4 | 82.5 | 74.3 | 66.0 | 66.0 | 61.9 | 66.0 | 61.9 |
| 82.5° | 140.3 | 115.5 | 82.5 | 57.8 | 41.3 | 37.1 | 33.0 | 33.0 | 37.1 | 37.1 | 33.0 |
| 85° | 53.6 | 41.3 | 28.9 | 16.5 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 8.3 |
| 87.5° | 4.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 2.6 | 2.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 2.6 | 2.6 |
| 92.5° | 2.6 | 2.6 | 3.1 | 3.1 | 4.1 | 3.6 | 4.1 | 3.6 | 2.6 | 2.6 | 2.6 |
| 95° | 3.1 | 3.1 | 3.6 | 3.6 | 6.2 | 6.2 | 5.7 | 4.6 | 3.6 | 3.1 | 3.1 |
| 97.5° | 4.1 | 4.6 | 5.1 | 5.1 | 10.3 | 17.0 | 9.3 | 5.7 | 4.6 | 4.6 | 4.1 |
| 100° | 7.2 | 7.2 | 9.8 | 13.4 | 26.2 | 36.5 | 27.2 | 12.9 | 7.2 | 7.2 | 6.7 |
| 102.5° | 23.6 | 24.7 | 30.8 | 44.7 | 47.3 | 56.0 | 61.7 | 41.6 | 27.8 | 22.6 | 21.6 |
| 105° | 56.5 | 56.5 | 61.2 | 70.9 | 78.1 | 84.8 | 86.4 | 69.4 | 58.6 | 54.5 | 55.0 |
| 107.5° | 75.0 | 75.6 | 80.7 | 92.0 | 116.2 | 114.6 | 98.2 | 85.3 | 76.1 | 72.5 | 72.5 |
| 110° | 92.0 | 93.0 | 99.7 | 113.6 | 131.6 | 132.6 | 109.5 | 92.5 | 84.8 | 81.7 | 81.7 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 112.5° | 104.9 | 105.9 | 111.0 | 117.2 | 124.4 | 129.0 | 118.7 | 100.2 | 88.4 | 84.3 | 83.8 |
| 115° | 101.3 | 100.2 | 102.3 | 106.4 | 112.1 | 117.2 | 113.1 | 102.8 | 91.5 | 86.9 | 86.9 |
| 117.5° | 88.4 | 90.0 | 91.0 | 94.1 | 101.8 | 104.4 | 101.3 | 94.6 | 88.4 | 87.4 | 85.8 |
| 120° | 78.6 | 79.7 | 80.2 | 82.8 | 87.9 | 88.9 | 87.4 | 83.8 | 80.7 | 79.7 | 79.7 |
| 122.5° | 69.4 | 70.4 | 70.4 | 71.5 | 75.6 | 76.6 | 75.0 | 72.5 | 70.9 | 71.5 | 70.9 |
| 125° | 61.2 | 61.7 | 61.7 | 62.2 | 64.3 | 63.7 | 64.3 | 62.7 | 61.7 | 62.2 | 62.2 |
| 127.5° | 54.5 | 55.0 | 54.5 | 54.0 | 56.0 | 55.5 | 55.5 | 55.0 | 54.5 | 55.5 | 56.0 |
| 130° | 49.3 | 48.8 | 48.3 | 47.8 | 48.8 | 47.8 | 48.8 | 48.8 | 48.8 | 49.9 | 49.9 |
| 132.5° | 44.2 | 44.2 | 43.2 | 42.2 | 42.7 | 42.2 | 42.2 | 42.2 | 42.7 | 44.2 | 44.2 |
| 135° | 39.6 | 39.6 | 39.1 | 38.0 | 38.6 | 38.0 | 38.6 | 38.6 | 38.0 | 39.6 | 39.6 |
| 137.5° | 37.0 | 36.5 | 35.5 | 35.0 | 35.0 | 34.4 | 35.0 | 35.0 | 35.0 | 36.0 | 36.0 |
| 140° | 33.4 | 33.4 | 32.9 | 32.4 | 32.4 | 32.4 | 31.9 | 32.4 | 32.4 | 32.9 | 32.9 |
| 142.5° | 31.4 | 31.4 | 30.3 | 29.8 | 30.3 | 30.3 | 30.3 | 29.8 | 30.3 | 30.8 | 31.4 |
| 145° | 29.3 | 28.8 | 28.8 | 28.3 | 28.3 | 28.8 | 28.3 | 28.3 | 28.3 | 28.8 | 28.8 |
| 147.5° | 27.8 | 27.2 | 27.2 | 26.7 | 27.2 | 27.2 | 27.2 | 27.2 | 26.7 | 27.2 | 27.2 |
| 150° | 26.2 | 26.2 | 25.7 | 25.7 | 25.7 | 25.7 | 26.2 | 26.2 | 25.7 | 26.2 | 26.7 |
| 152.5° | 25.7 | 25.2 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 25.2 | 24.7 | 25.2 | 25.2 |
| 155° | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 23.6 | 24.2 | 24.2 |
| 157.5° | 23.6 | 23.6 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.6 | 23.1 |
| 160° | 23.1 | 22.6 | 22.6 | 22.6 | 22.1 | 22.1 | 22.1 | 22.6 | 22.6 | 22.6 | 22.6 |
| 162.5° | 22.6 | 22.1 | 22.1 | 21.6 | 21.6 | 21.6 | 21.6 | 22.1 | 22.1 | 22.1 | 22.1 |
| 165° | 21.6 | 22.1 | 21.6 | 21.1 | 21.1 | 21.1 | 21.1 | 21.6 | 21.6 | 21.6 | 22.1 |
| 167.5° | 21.6 | 21.1 | 21.1 | 21.1 | 20.6 | 20.6 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |
| 170° | 21.1 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 21.1 | 21.1 |
| 172.5° | 21.1 | 21.1 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 21.1 | 21.1 | 21.1 | 21.1 |
| 175° | 20.6 | 21.1 | 21.1 | 21.1 | 20.6 | 20.6 | 20.6 | 21.1 | 21.1 | 21.1 | 21.1 |
| 177.5° | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 20.6 | 21.1 | 21.1 | 21.1 | 21.1 |
| 180° | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 |

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