

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: P833555

Luminaire Tested: **TTN-D2-740-U-DL-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833555
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-D2-740-U-DL-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5553.7 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B1 - U4 - G1

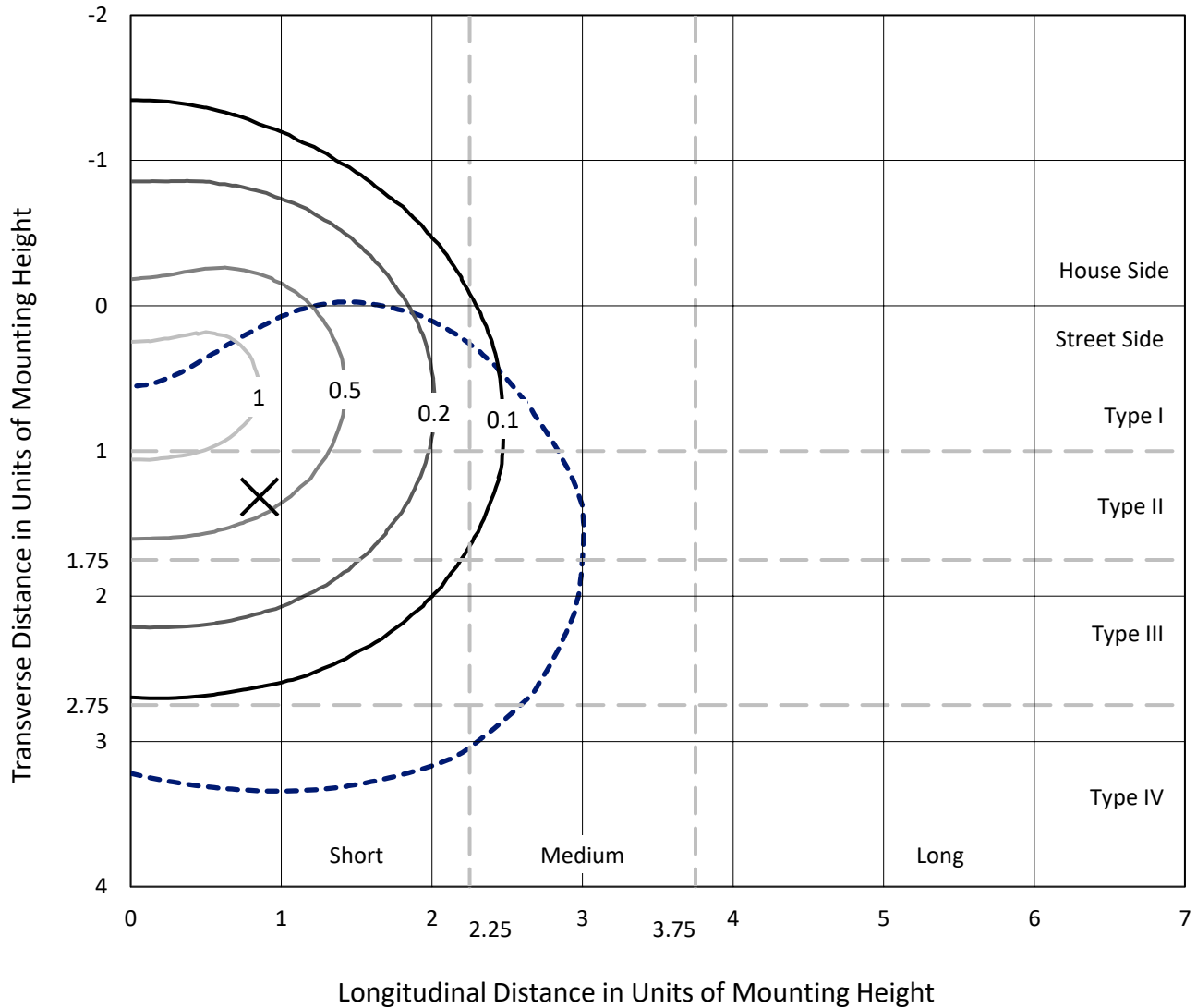
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P833555
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Iso-Footcandle Lines of Horizontal Illumination

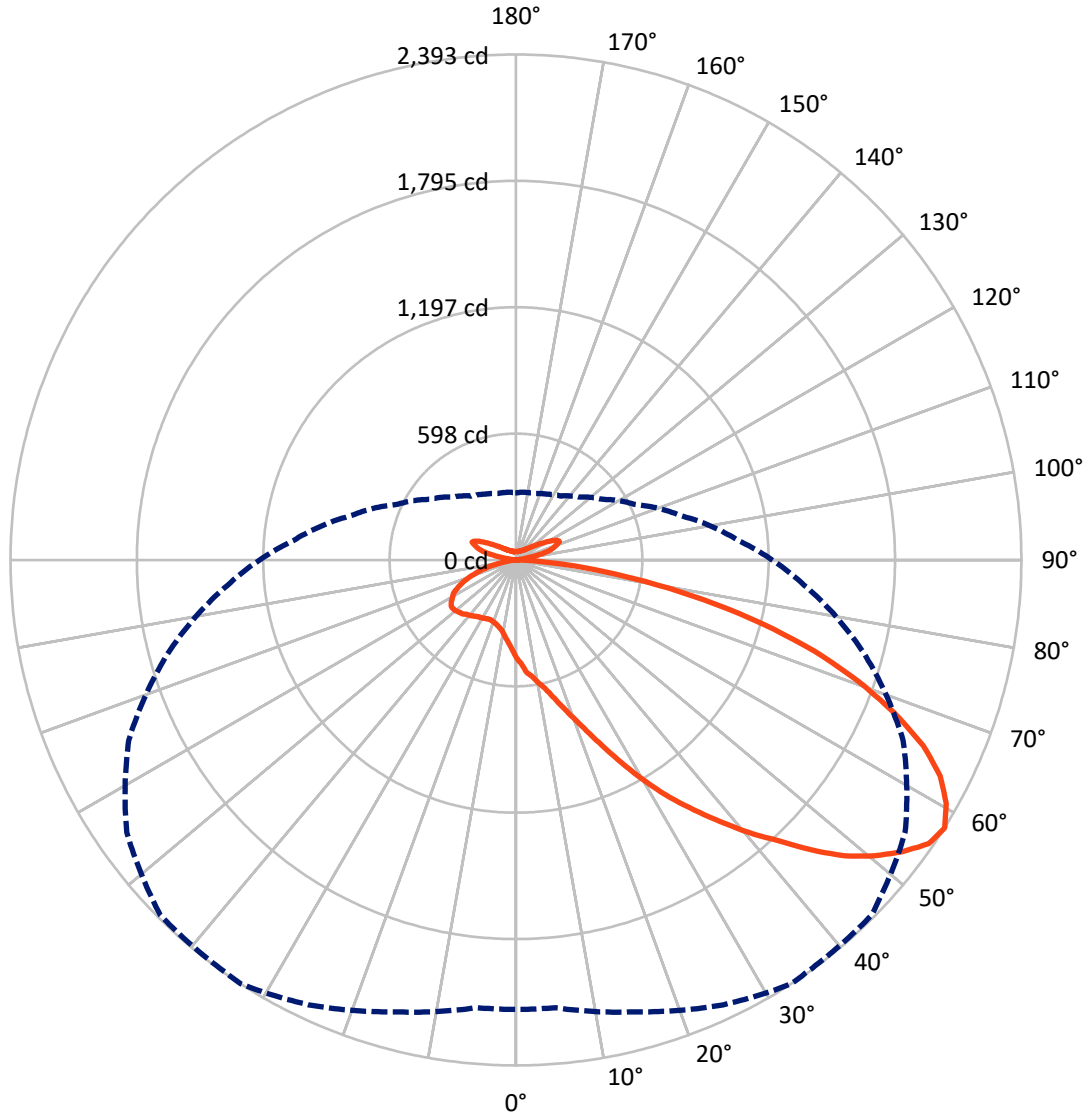
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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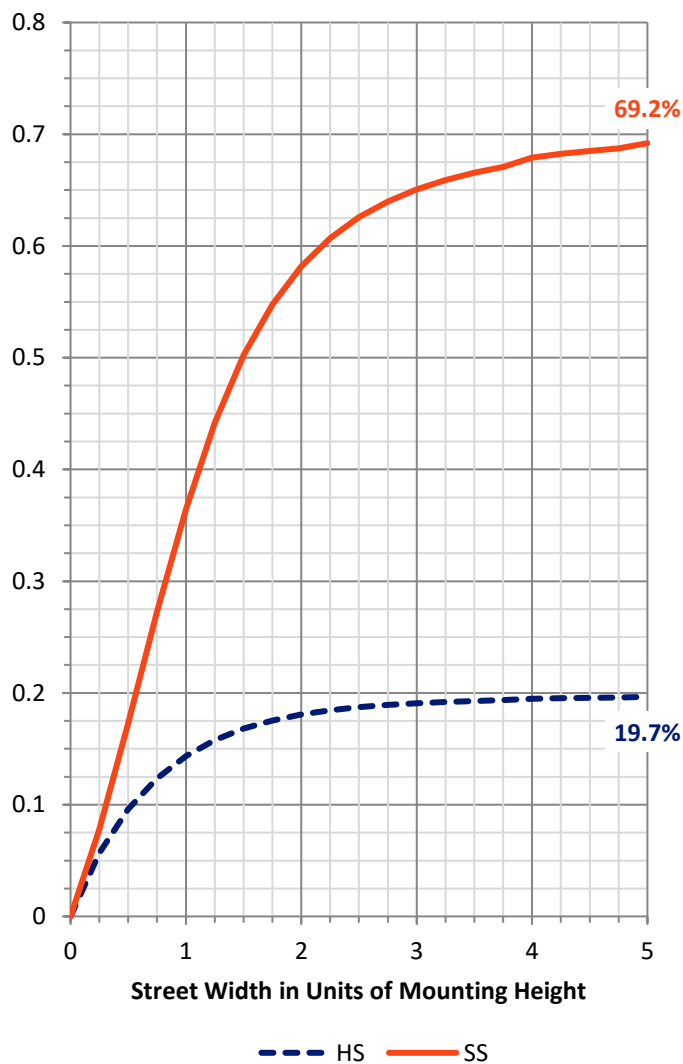
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1096.7 | 292.5 | 1389.1 |
| | % Fixture | 19.7 | 5.3 | 25.0 |
| Street Side | Lumens | 3872.2 | 292.5 | 4164.6 |
| | % Fixture | 69.7 | 5.3 | 75.0 |
| Total | Lumens | 4968.8 | 584.9 | 5553.7 |
| | % Fixture | 89.5 | 10.5 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.6 | 0.8 |
| 10°-20° | 144.5 | 2.6 |
| 20°-30° | 304.6 | 5.5 |
| 30°-40° | 553.2 | 10.0 |
| 40°-50° | 874.2 | 15.7 |
| 50°-60° | 1161.0 | 20.9 |
| 60°-70° | 1117.4 | 20.1 |
| 70°-80° | 655.9 | 11.8 |
| 80°-90° | 113.4 | 2.0 |
| 90°-100° | 13.1 | 0.2 |
| 100°-110° | 132.7 | 2.4 |
| 110°-120° | 194.0 | 3.5 |
| 120°-130° | 112.6 | 2.0 |
| 130°-140° | 59.7 | 1.1 |
| 140°-150° | 35.4 | 0.6 |
| 150°-160° | 21.8 | 0.4 |
| 160°-170° | 11.9 | 0.2 |
| 170°-180° | 3.9 | 0.1 |
| 0°-90° | 4968.8 | 89.5 |
| 0°-180° | 5553.7 | 100.0 |

Coefficient of Utilization

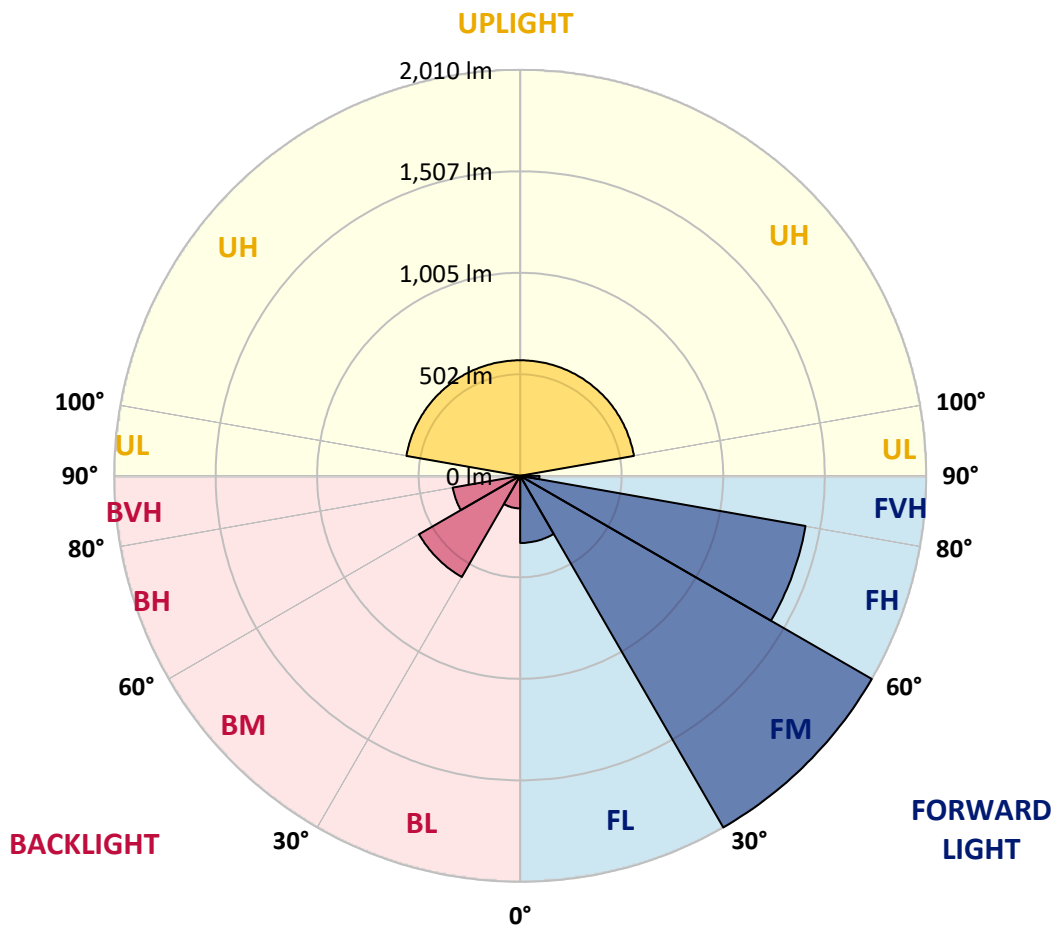


REPORT NUMBER: P833555
 CATALOG NUMBER: TTN-D2-740-U-DL-CG-UPL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 332.4 | 6.0 | | | |
| FM (30°-60°) | 2009.9 | 36.2 | | | |
| FH (60°-80°) | 1434.4 | 25.8 | | | G1/1800 |
| FVH (80°-90°) | 95.5 | 1.7 | | | G1/100 |
| BL (0°-30°) | 161.3 | 2.9 | B1/500 | | |
| BM (30°-60°) | 578.5 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 339.0 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 13.1 | 0.2 | | U2/50 | |
| UH (100°-180°) | 571.8 | 10.3 | | U4/1000 | |

BUG Rating: B1-U4-G1
 Type IV Short





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CATALOG NUMBER: TTN-D2-740-U-DL-CG-UPL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 |
| 2.5° | 496.1 | 500.4 | 496.1 | 496.1 | 491.7 | 491.7 | 487.4 | 483.0 | 478.7 | 474.3 | 465.6 |
| 5° | 552.7 | 552.7 | 548.3 | 539.6 | 535.2 | 530.9 | 522.2 | 509.1 | 500.4 | 487.4 | 474.3 |
| 7.5° | 578.8 | 578.8 | 574.4 | 565.7 | 557.0 | 552.7 | 539.6 | 522.2 | 509.1 | 491.7 | 474.3 |
| 10° | 613.6 | 617.9 | 609.2 | 600.5 | 591.8 | 587.5 | 570.1 | 548.3 | 526.5 | 504.8 | 478.7 |
| 12.5° | 652.7 | 657.1 | 652.7 | 639.7 | 626.6 | 622.3 | 604.9 | 578.8 | 552.7 | 522.2 | 491.7 |
| 15° | 705.0 | 713.7 | 700.6 | 691.9 | 678.9 | 674.5 | 652.7 | 622.3 | 591.8 | 552.7 | 513.5 |
| 17.5° | 765.9 | 770.2 | 761.5 | 748.5 | 739.8 | 735.4 | 713.7 | 678.9 | 635.3 | 591.8 | 544.0 |
| 20° | 835.5 | 839.9 | 835.5 | 818.1 | 809.4 | 805.0 | 783.3 | 744.1 | 691.9 | 644.0 | 583.1 |
| 22.5° | 918.2 | 926.9 | 913.8 | 900.8 | 892.1 | 892.1 | 866.0 | 822.5 | 761.5 | 700.6 | 631.0 |
| 25° | 1013.9 | 1027.0 | 1009.6 | 1000.9 | 992.2 | 987.8 | 966.1 | 913.8 | 844.2 | 770.2 | 683.2 |
| 27.5° | 1131.4 | 1140.1 | 1127.1 | 1122.7 | 1105.3 | 1105.3 | 1070.5 | 1009.6 | 935.6 | 848.6 | 748.5 |
| 30° | 1235.9 | 1244.6 | 1235.9 | 1235.9 | 1222.8 | 1218.4 | 1183.6 | 1122.7 | 1031.3 | 926.9 | 805.0 |
| 32.5° | 1335.9 | 1344.6 | 1340.3 | 1344.6 | 1340.3 | 1335.9 | 1292.4 | 1227.2 | 1135.8 | 1000.9 | 861.6 |
| 35° | 1436.0 | 1449.1 | 1444.7 | 1457.8 | 1453.4 | 1449.1 | 1414.3 | 1335.9 | 1227.2 | 1092.3 | 922.5 |
| 37.5° | 1540.5 | 1553.5 | 1553.5 | 1566.6 | 1570.9 | 1570.9 | 1531.8 | 1449.1 | 1327.2 | 1174.9 | 992.2 |
| 40° | 1653.6 | 1666.7 | 1666.7 | 1688.4 | 1697.1 | 1697.1 | 1653.6 | 1570.9 | 1436.0 | 1266.3 | 1066.1 |
| 42.5° | 1762.4 | 1775.5 | 1779.8 | 1801.6 | 1814.6 | 1819.0 | 1784.2 | 1688.4 | 1531.8 | 1357.7 | 1135.8 |
| 45° | 1866.8 | 1879.9 | 1892.9 | 1936.5 | 1958.2 | 1953.9 | 1927.8 | 1827.7 | 1653.6 | 1453.4 | 1209.7 |
| 47.5° | 1966.9 | 1984.3 | 2006.1 | 2062.7 | 2093.1 | 2088.8 | 2071.4 | 1958.2 | 1766.8 | 1544.8 | 1275.0 |
| 50° | 2045.3 | 2058.3 | 2101.8 | 2162.7 | 2201.9 | 2206.3 | 2180.2 | 2071.4 | 1862.5 | 1614.4 | 1322.9 |
| 52.5° | 2106.2 | 2123.6 | 2175.8 | 2262.8 | 2293.3 | 2306.4 | 2275.9 | 2167.1 | 1958.2 | 1675.4 | 1362.1 |
| 55° | 2149.7 | 2149.7 | 2228.0 | 2328.1 | 2371.6 | 2380.3 | 2380.3 | 2245.4 | 2014.8 | 1714.5 | 1383.8 |
| 57.5° | 2127.9 | 2127.9 | 2215.0 | 2323.8 | 2393.4 | 2389.0 | 2380.3 | 2249.8 | 2023.5 | 1705.8 | 1370.8 |
| 60° | 2067.0 | 2080.1 | 2162.7 | 2271.5 | 2341.2 | 2336.8 | 2310.7 | 2193.2 | 1980.0 | 1671.0 | 1344.6 |
| 62.5° | 1984.3 | 2006.1 | 2093.1 | 2175.8 | 2254.1 | 2267.2 | 2232.4 | 2127.9 | 1906.0 | 1618.8 | 1296.8 |
| 65° | 1827.7 | 1858.1 | 1966.9 | 2058.3 | 2119.2 | 2145.3 | 2101.8 | 2006.1 | 1805.9 | 1518.7 | 1196.7 |
| 67.5° | 1653.6 | 1675.4 | 1766.8 | 1897.3 | 1932.1 | 1958.2 | 1936.5 | 1836.4 | 1666.7 | 1357.7 | 1083.6 |
| 70° | 1453.4 | 1488.2 | 1549.2 | 1679.7 | 1718.9 | 1745.0 | 1745.0 | 1644.9 | 1483.9 | 1192.3 | 948.7 |
| 72.5° | 1218.4 | 1257.6 | 1331.6 | 1427.3 | 1479.5 | 1497.0 | 1492.6 | 1409.9 | 1266.3 | 1009.6 | 800.7 |
| 75° | 961.7 | 992.2 | 1079.2 | 1148.8 | 1205.4 | 1218.4 | 1214.1 | 1144.5 | 1013.9 | 813.8 | 635.3 |
| 77.5° | 709.3 | 739.8 | 805.0 | 857.3 | 909.5 | 900.8 | 900.8 | 848.6 | 765.9 | 604.9 | 483.0 |
| 80° | 465.6 | 491.7 | 548.3 | 565.7 | 622.3 | 617.9 | 617.9 | 578.8 | 522.2 | 404.7 | 322.0 |
| 82.5° | 256.7 | 278.5 | 317.7 | 335.1 | 369.9 | 361.2 | 365.5 | 339.4 | 304.6 | 226.3 | 182.8 |
| 85° | 91.4 | 108.8 | 130.5 | 143.6 | 161.0 | 161.0 | 161.0 | 139.3 | 130.5 | 87.0 | 74.0 |
| 87.5° | 4.4 | 8.7 | 17.4 | 17.4 | 26.1 | 26.1 | 26.1 | 17.4 | 17.4 | 4.4 | 4.4 |
| 90° | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.0 |
| 92.5° | 5.0 | 5.0 | 5.0 | 7.0 | 7.8 | 8.0 | 7.0 | 8.0 | 6.0 | 6.0 | 5.0 |
| 95° | 6.0 | 6.0 | 7.0 | 9.0 | 10.6 | 11.0 | 12.0 | 12.0 | 7.0 | 7.0 | 6.0 |
| 97.5° | 8.0 | 9.0 | 9.0 | 11.0 | 16.6 | 18.0 | 33.0 | 20.0 | 10.0 | 10.0 | 9.0 |
| 100° | 13.0 | 14.0 | 14.0 | 25.0 | 47.4 | 53.0 | 71.1 | 51.0 | 26.0 | 19.0 | 14.0 |
| 102.5° | 42.0 | 44.0 | 54.0 | 81.1 | 112.3 | 120.1 | 109.1 | 92.1 | 87.1 | 60.0 | 48.0 |
| 105° | 107.1 | 106.1 | 114.1 | 135.1 | 161.5 | 168.1 | 165.1 | 152.1 | 138.1 | 119.1 | 110.1 |
| 107.5° | 141.1 | 141.1 | 148.1 | 166.1 | 186.1 | 191.1 | 223.2 | 226.2 | 179.1 | 157.1 | 147.1 |
| 110° | 159.1 | 159.1 | 165.1 | 180.1 | 206.6 | 213.2 | 258.2 | 256.2 | 221.2 | 194.1 | 181.1 |



REPORT NUMBER: P833555
 CATALOG NUMBER: TTN-D2-740-U-DL-CG-UPL2

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 163.1 | 164.1 | 172.1 | 195.1 | 224.0 | 231.2 | 251.2 | 242.2 | 228.2 | 216.2 | 206.2 |
| 115° | 169.1 | 169.1 | 178.1 | 200.2 | 216.2 | 220.2 | 228.2 | 218.2 | 207.2 | 199.2 | 195.1 |
| 117.5° | 167.1 | 170.1 | 172.1 | 184.1 | 194.5 | 197.1 | 203.2 | 198.1 | 183.1 | 177.1 | 175.1 |
| 120° | 155.1 | 155.1 | 157.1 | 163.1 | 168.7 | 170.1 | 173.1 | 171.1 | 161.1 | 156.1 | 155.1 |
| 122.5° | 138.1 | 139.1 | 138.1 | 141.1 | 145.1 | 146.1 | 149.1 | 147.1 | 139.1 | 137.1 | 137.1 |
| 125° | 121.1 | 121.1 | 120.1 | 122.1 | 124.5 | 125.1 | 124.1 | 125.1 | 121.1 | 120.1 | 120.1 |
| 127.5° | 109.1 | 108.1 | 106.1 | 107.1 | 107.9 | 108.1 | 108.1 | 109.1 | 105.1 | 106.1 | 107.1 |
| 130° | 97.1 | 97.1 | 95.1 | 95.1 | 95.1 | 95.1 | 93.1 | 95.1 | 93.1 | 94.1 | 95.1 |
| 132.5° | 86.1 | 86.1 | 83.1 | 82.1 | 82.1 | 82.1 | 82.1 | 83.1 | 82.1 | 84.1 | 86.1 |
| 135° | 77.1 | 77.1 | 74.1 | 75.1 | 75.1 | 75.1 | 74.1 | 75.1 | 74.1 | 76.1 | 77.1 |
| 137.5° | 70.1 | 70.1 | 68.1 | 68.1 | 68.1 | 68.1 | 67.1 | 68.1 | 68.1 | 69.1 | 71.1 |
| 140° | 64.0 | 64.0 | 63.0 | 63.0 | 62.2 | 62.0 | 63.0 | 63.0 | 63.0 | 64.0 | 65.0 |
| 142.5° | 61.0 | 60.0 | 59.0 | 58.0 | 58.8 | 59.0 | 59.0 | 59.0 | 58.0 | 59.0 | 61.0 |
| 145° | 56.0 | 56.0 | 55.0 | 55.0 | 55.0 | 55.0 | 56.0 | 55.0 | 55.0 | 56.0 | 56.0 |
| 147.5° | 53.0 | 53.0 | 52.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 52.0 | 53.0 | 53.0 |
| 150° | 52.0 | 51.0 | 50.0 | 51.0 | 51.0 | 51.0 | 50.0 | 50.0 | 50.0 | 50.0 | 51.0 |
| 152.5° | 49.0 | 49.0 | 48.0 | 49.0 | 48.2 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 49.0 |
| 155° | 47.0 | 47.0 | 46.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 |
| 157.5° | 45.0 | 46.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 46.0 |
| 160° | 44.0 | 44.0 | 44.0 | 44.0 | 43.2 | 43.0 | 43.0 | 43.0 | 44.0 | 44.0 | 44.0 |
| 162.5° | 43.0 | 43.0 | 43.0 | 43.0 | 42.2 | 42.0 | 42.0 | 42.0 | 42.0 | 43.0 | 43.0 |
| 165° | 43.0 | 42.0 | 42.0 | 42.0 | 41.2 | 41.0 | 41.0 | 41.0 | 41.0 | 42.0 | 43.0 |
| 167.5° | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 40.0 | 40.0 | 41.0 | 41.0 | 41.0 |
| 170° | 41.0 | 41.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 172.5° | 41.0 | 41.0 | 41.0 | 41.0 | 40.2 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 41.0 |
| 175° | 41.0 | 41.0 | 41.0 | 41.0 | 40.2 | 40.0 | 40.0 | 40.0 | 41.0 | 41.0 | 41.0 |
| 177.5° | 41.0 | 41.0 | 41.0 | 41.0 | 40.2 | 40.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 |
| 180° | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 |



REPORT NUMBER: P833555

CATALOG NUMBER: TTN-D2-740-U-DL-CG-UPL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 | 465.6 |
| 2.5° | 461.3 | 456.9 | 452.6 | 443.9 | 439.5 | 435.2 | 430.8 | 426.5 | 426.5 | 426.5 | 426.5 |
| 5° | 465.6 | 461.3 | 448.2 | 435.2 | 422.1 | 409.1 | 400.3 | 396.0 | 391.6 | 387.3 | 387.3 |
| 7.5° | 465.6 | 456.9 | 439.5 | 422.1 | 409.1 | 391.6 | 378.6 | 365.5 | 356.8 | 352.5 | 352.5 |
| 10° | 470.0 | 456.9 | 435.2 | 417.8 | 396.0 | 374.2 | 356.8 | 339.4 | 330.7 | 322.0 | 322.0 |
| 12.5° | 478.7 | 465.6 | 435.2 | 413.4 | 387.3 | 361.2 | 339.4 | 322.0 | 309.0 | 300.3 | 300.3 |
| 15° | 496.1 | 478.7 | 443.9 | 413.4 | 382.9 | 352.5 | 330.7 | 309.0 | 295.9 | 287.2 | 287.2 |
| 17.5° | 522.2 | 500.4 | 456.9 | 413.4 | 378.6 | 348.1 | 322.0 | 300.3 | 282.9 | 274.2 | 274.2 |
| 20° | 552.7 | 526.5 | 474.3 | 422.1 | 378.6 | 343.8 | 317.7 | 291.6 | 274.2 | 265.4 | 265.4 |
| 22.5° | 596.2 | 557.0 | 496.1 | 435.2 | 387.3 | 348.1 | 313.3 | 287.2 | 269.8 | 261.1 | 261.1 |
| 25° | 644.0 | 600.5 | 522.2 | 452.6 | 396.0 | 348.1 | 313.3 | 287.2 | 269.8 | 261.1 | 256.7 |
| 27.5° | 696.3 | 648.4 | 552.7 | 470.0 | 404.7 | 356.8 | 317.7 | 287.2 | 269.8 | 261.1 | 261.1 |
| 30° | 744.1 | 687.6 | 583.1 | 491.7 | 417.8 | 361.2 | 322.0 | 291.6 | 269.8 | 261.1 | 261.1 |
| 32.5° | 796.3 | 731.1 | 613.6 | 513.5 | 430.8 | 369.9 | 326.4 | 295.9 | 274.2 | 265.4 | 261.1 |
| 35° | 848.6 | 774.6 | 644.0 | 530.9 | 443.9 | 378.6 | 330.7 | 300.3 | 278.5 | 269.8 | 269.8 |
| 37.5° | 905.1 | 822.5 | 674.5 | 552.7 | 456.9 | 387.3 | 339.4 | 304.6 | 282.9 | 274.2 | 274.2 |
| 40° | 966.1 | 870.3 | 705.0 | 570.1 | 470.0 | 396.0 | 348.1 | 313.3 | 291.6 | 282.9 | 282.9 |
| 42.5° | 1027.0 | 922.5 | 739.8 | 591.8 | 483.0 | 404.7 | 352.5 | 322.0 | 300.3 | 291.6 | 291.6 |
| 45° | 1087.9 | 966.1 | 770.2 | 613.6 | 496.1 | 417.8 | 365.5 | 330.7 | 309.0 | 300.3 | 300.3 |
| 47.5° | 1144.5 | 1013.9 | 796.3 | 626.6 | 509.1 | 426.5 | 369.9 | 339.4 | 317.7 | 313.3 | 309.0 |
| 50° | 1183.6 | 1044.4 | 813.8 | 639.7 | 513.5 | 430.8 | 378.6 | 343.8 | 326.4 | 317.7 | 317.7 |
| 52.5° | 1214.1 | 1074.8 | 826.8 | 648.4 | 517.8 | 435.2 | 382.9 | 352.5 | 335.1 | 326.4 | 322.0 |
| 55° | 1231.5 | 1079.2 | 826.8 | 639.7 | 513.5 | 435.2 | 382.9 | 352.5 | 335.1 | 326.4 | 326.4 |
| 57.5° | 1214.1 | 1057.4 | 809.4 | 622.3 | 500.4 | 422.1 | 369.9 | 343.8 | 326.4 | 322.0 | 317.7 |
| 60° | 1179.3 | 1022.6 | 774.6 | 596.2 | 478.7 | 400.3 | 352.5 | 330.7 | 317.7 | 313.3 | 309.0 |
| 62.5° | 1131.4 | 979.1 | 739.8 | 561.4 | 448.2 | 374.2 | 339.4 | 313.3 | 304.6 | 300.3 | 295.9 |
| 65° | 1035.7 | 896.4 | 683.2 | 517.8 | 409.1 | 343.8 | 309.0 | 291.6 | 282.9 | 274.2 | 269.8 |
| 67.5° | 931.2 | 805.0 | 604.9 | 465.6 | 361.2 | 309.0 | 278.5 | 261.1 | 248.0 | 248.0 | 243.7 |
| 70° | 818.1 | 709.3 | 522.2 | 396.0 | 313.3 | 269.8 | 239.3 | 226.3 | 217.6 | 217.6 | 213.2 |
| 72.5° | 683.2 | 596.2 | 435.2 | 322.0 | 256.7 | 221.9 | 200.2 | 187.1 | 182.8 | 182.8 | 178.4 |
| 75° | 548.3 | 470.0 | 343.8 | 252.4 | 200.2 | 174.1 | 156.7 | 148.0 | 143.6 | 143.6 | 139.3 |
| 77.5° | 404.7 | 343.8 | 248.0 | 182.8 | 143.6 | 126.2 | 113.1 | 108.8 | 104.4 | 104.4 | 100.1 |
| 80° | 269.8 | 226.3 | 161.0 | 117.5 | 87.0 | 78.3 | 69.6 | 69.6 | 65.3 | 69.6 | 65.3 |
| 82.5° | 148.0 | 121.8 | 87.0 | 60.9 | 43.5 | 39.2 | 34.8 | 34.8 | 39.2 | 39.2 | 34.8 |
| 85° | 56.6 | 43.5 | 30.5 | 17.4 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 8.7 |
| 87.5° | 4.4 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.0 | 5.0 |
| 92.5° | 5.0 | 5.0 | 6.0 | 6.0 | 8.0 | 7.0 | 8.0 | 7.0 | 5.0 | 5.0 | 5.0 |
| 95° | 6.0 | 6.0 | 7.0 | 7.0 | 12.0 | 12.0 | 11.0 | 9.0 | 7.0 | 6.0 | 6.0 |
| 97.5° | 8.0 | 9.0 | 10.0 | 10.0 | 20.0 | 33.0 | 18.0 | 11.0 | 9.0 | 9.0 | 8.0 |
| 100° | 14.0 | 14.0 | 19.0 | 26.0 | 51.0 | 71.1 | 53.0 | 25.0 | 14.0 | 14.0 | 13.0 |
| 102.5° | 46.0 | 48.0 | 60.0 | 87.1 | 92.1 | 109.1 | 120.1 | 81.1 | 54.0 | 44.0 | 42.0 |
| 105° | 110.1 | 110.1 | 119.1 | 138.1 | 152.1 | 165.1 | 168.1 | 135.1 | 114.1 | 106.1 | 107.1 |
| 107.5° | 146.1 | 147.1 | 157.1 | 179.1 | 226.2 | 223.2 | 191.1 | 166.1 | 148.1 | 141.1 | 141.1 |
| 110° | 179.1 | 181.1 | 194.1 | 221.2 | 256.2 | 258.2 | 213.2 | 180.1 | 165.1 | 159.1 | 159.1 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 204.2 | 206.2 | 216.2 | 228.2 | 242.2 | 251.2 | 231.2 | 195.1 | 172.1 | 164.1 | 163.1 |
| 115° | 197.1 | 195.1 | 199.2 | 207.2 | 218.2 | 228.2 | 220.2 | 200.2 | 178.1 | 169.1 | 169.1 |
| 117.5° | 172.1 | 175.1 | 177.1 | 183.1 | 198.1 | 203.2 | 197.1 | 184.1 | 172.1 | 170.1 | 167.1 |
| 120° | 153.1 | 155.1 | 156.1 | 161.1 | 171.1 | 173.1 | 170.1 | 163.1 | 157.1 | 155.1 | 155.1 |
| 122.5° | 135.1 | 137.1 | 137.1 | 139.1 | 147.1 | 149.1 | 146.1 | 141.1 | 138.1 | 139.1 | 138.1 |
| 125° | 119.1 | 120.1 | 120.1 | 121.1 | 125.1 | 124.1 | 125.1 | 122.1 | 120.1 | 121.1 | 121.1 |
| 127.5° | 106.1 | 107.1 | 106.1 | 105.1 | 109.1 | 108.1 | 108.1 | 107.1 | 106.1 | 108.1 | 109.1 |
| 130° | 96.1 | 95.1 | 94.1 | 93.1 | 95.1 | 93.1 | 95.1 | 95.1 | 95.1 | 97.1 | 97.1 |
| 132.5° | 86.1 | 86.1 | 84.1 | 82.1 | 83.1 | 82.1 | 82.1 | 82.1 | 83.1 | 86.1 | 86.1 |
| 135° | 77.1 | 77.1 | 76.1 | 74.1 | 75.1 | 74.1 | 75.1 | 75.1 | 74.1 | 77.1 | 77.1 |
| 137.5° | 72.1 | 71.1 | 69.1 | 68.1 | 68.1 | 67.1 | 68.1 | 68.1 | 68.1 | 70.1 | 70.1 |
| 140° | 65.0 | 65.0 | 64.0 | 63.0 | 63.0 | 63.0 | 62.0 | 63.0 | 63.0 | 64.0 | 64.0 |
| 142.5° | 61.0 | 61.0 | 59.0 | 58.0 | 59.0 | 59.0 | 59.0 | 58.0 | 59.0 | 60.0 | 61.0 |
| 145° | 57.0 | 56.0 | 56.0 | 55.0 | 55.0 | 56.0 | 55.0 | 55.0 | 55.0 | 56.0 | 56.0 |
| 147.5° | 54.0 | 53.0 | 53.0 | 52.0 | 53.0 | 53.0 | 53.0 | 53.0 | 52.0 | 53.0 | 53.0 |
| 150° | 51.0 | 51.0 | 50.0 | 50.0 | 50.0 | 50.0 | 51.0 | 51.0 | 50.0 | 51.0 | 52.0 |
| 152.5° | 50.0 | 49.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 49.0 | 48.0 | 49.0 | 49.0 |
| 155° | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.0 | 47.0 | 47.0 |
| 157.5° | 46.0 | 46.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 46.0 | 45.0 |
| 160° | 45.0 | 44.0 | 44.0 | 44.0 | 43.0 | 43.0 | 43.0 | 44.0 | 44.0 | 44.0 | 44.0 |
| 162.5° | 44.0 | 43.0 | 43.0 | 42.0 | 42.0 | 42.0 | 42.0 | 43.0 | 43.0 | 43.0 | 43.0 |
| 165° | 42.0 | 43.0 | 42.0 | 41.0 | 41.0 | 41.0 | 41.0 | 42.0 | 42.0 | 42.0 | 43.0 |
| 167.5° | 42.0 | 41.0 | 41.0 | 41.0 | 40.0 | 40.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 |
| 170° | 41.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 41.0 | 41.0 |
| 172.5° | 41.0 | 41.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 41.0 | 41.0 | 41.0 | 41.0 |
| 175° | 40.0 | 41.0 | 41.0 | 41.0 | 40.0 | 40.0 | 40.0 | 41.0 | 41.0 | 41.0 | 41.0 |
| 177.5° | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 40.0 | 41.0 | 41.0 | 41.0 | 41.0 |
| 180° | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 | 41.0 |

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