

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: P833884

Luminaire Tested: **TTN-D3-735-U-DL-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833884
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-D3-735-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: 6568.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B1 - U3 - G2

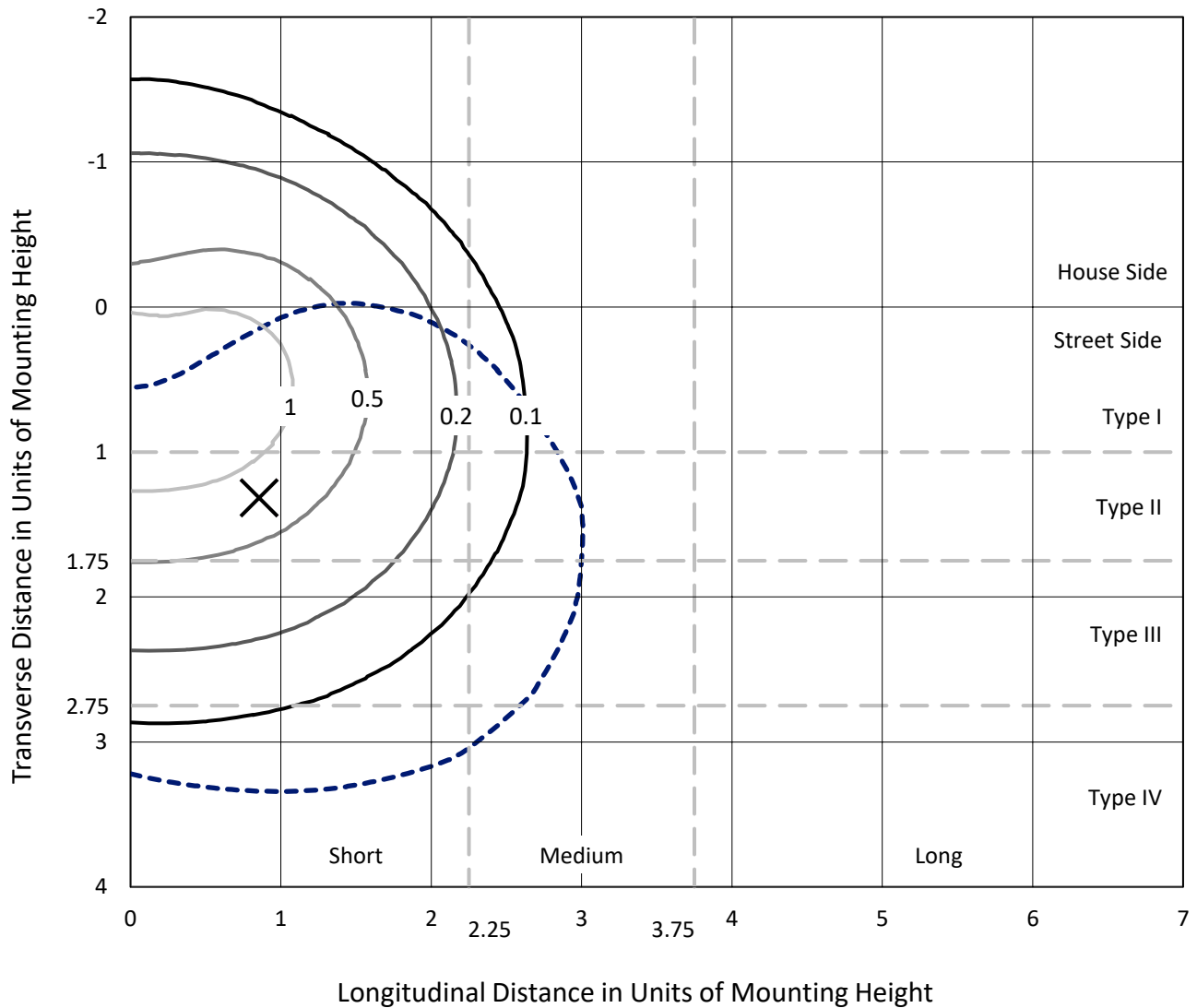
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P833884
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Iso-Footcandle Lines of Horizontal Illumination

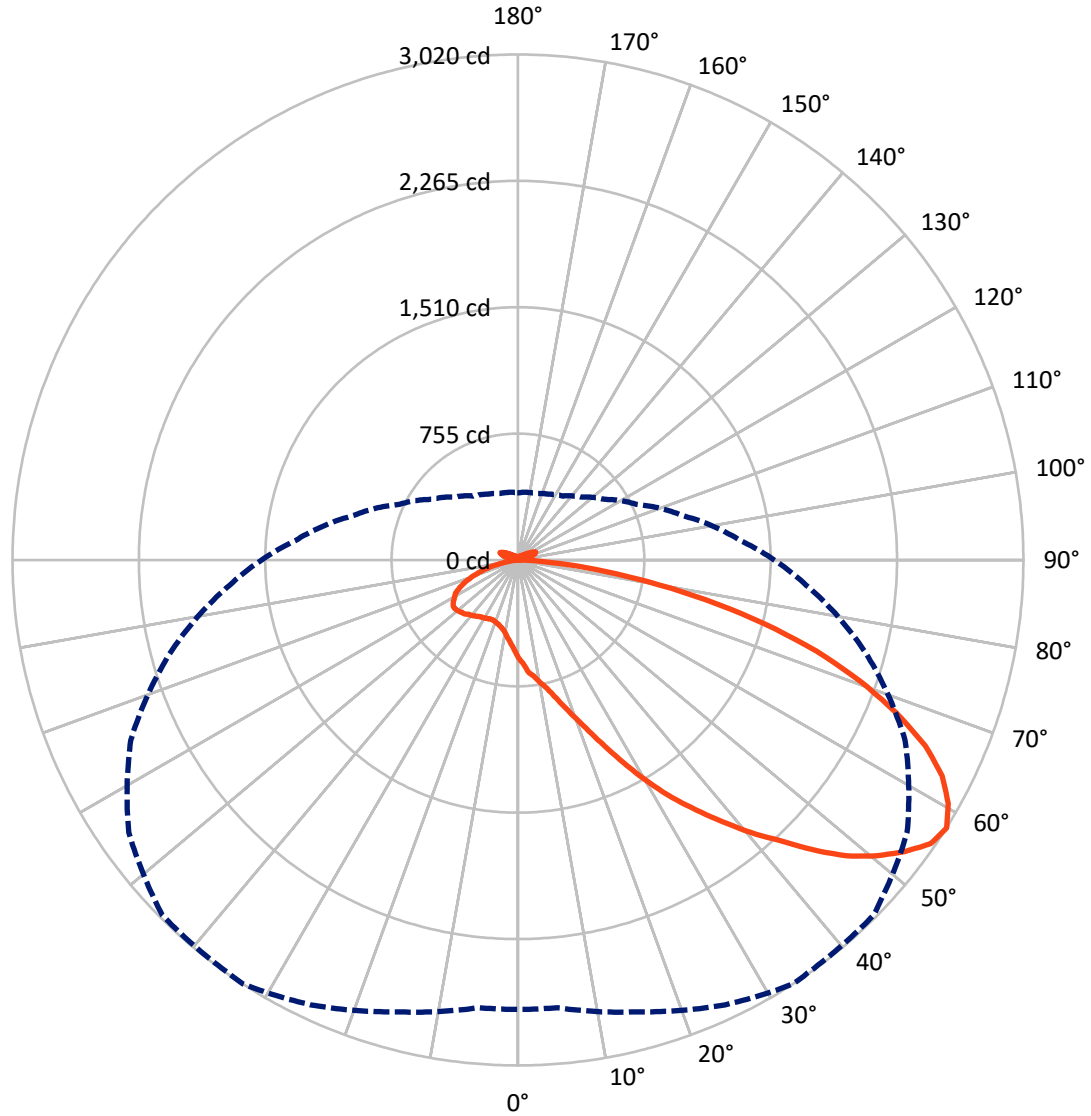
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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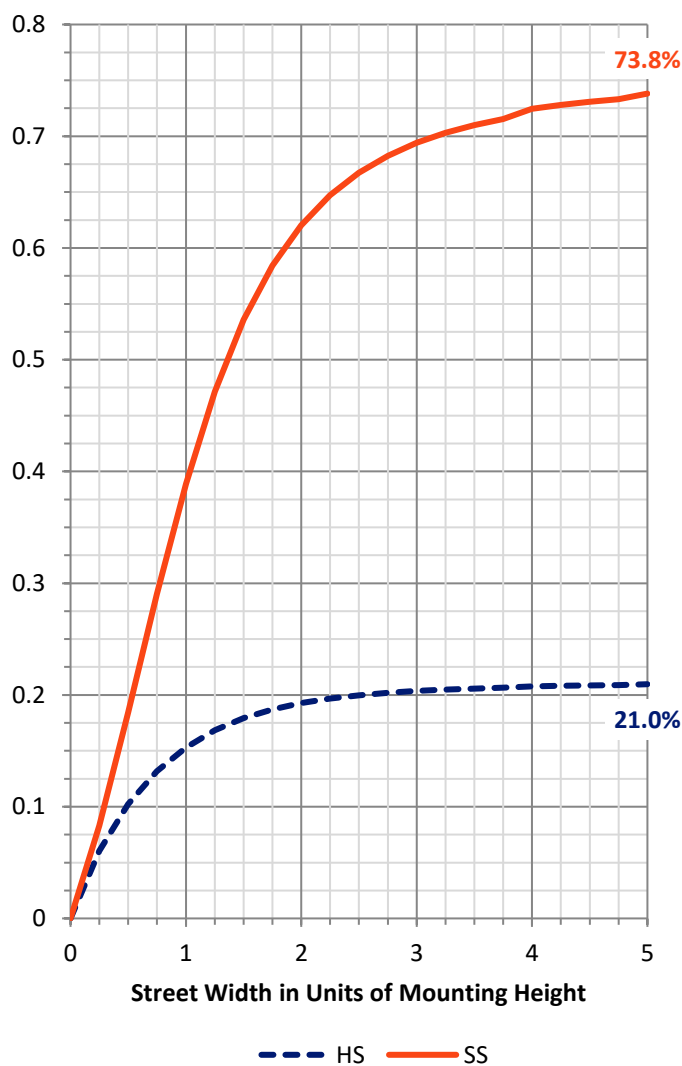
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1383.3 | 150.2 | 1533.6 |
| | % Fixture | 21.1 | 2.3 | 23.3 |
| Street Side | Lumens | 4885.1 | 150.2 | 5035.4 |
| | % Fixture | 74.4 | 2.3 | 76.7 |
| Total | Lumens | 6268.4 | 300.5 | 6568.9 |
| | % Fixture | 95.4 | 4.6 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.2 | 0.9 |
| 10°-20° | 182.3 | 2.8 |
| 20°-30° | 384.4 | 5.9 |
| 30°-40° | 698.0 | 10.6 |
| 40°-50° | 1103.0 | 16.8 |
| 50°-60° | 1464.8 | 22.3 |
| 60°-70° | 1409.8 | 21.5 |
| 70°-80° | 827.6 | 12.6 |
| 80°-90° | 142.5 | 2.2 |
| 90°-100° | 6.7 | 0.1 |
| 100°-110° | 68.2 | 1.0 |
| 110°-120° | 99.6 | 1.5 |
| 120°-130° | 57.8 | 0.9 |
| 130°-140° | 30.6 | 0.5 |
| 140°-150° | 18.2 | 0.3 |
| 150°-160° | 11.2 | 0.2 |
| 160°-170° | 6.1 | 0.1 |
| 170°-180° | 2.0 | 0.0 |
| 0°-90° | 6268.4 | 95.4 |
| 0°-180° | 6568.9 | 100.0 |

Coefficient of Utilization



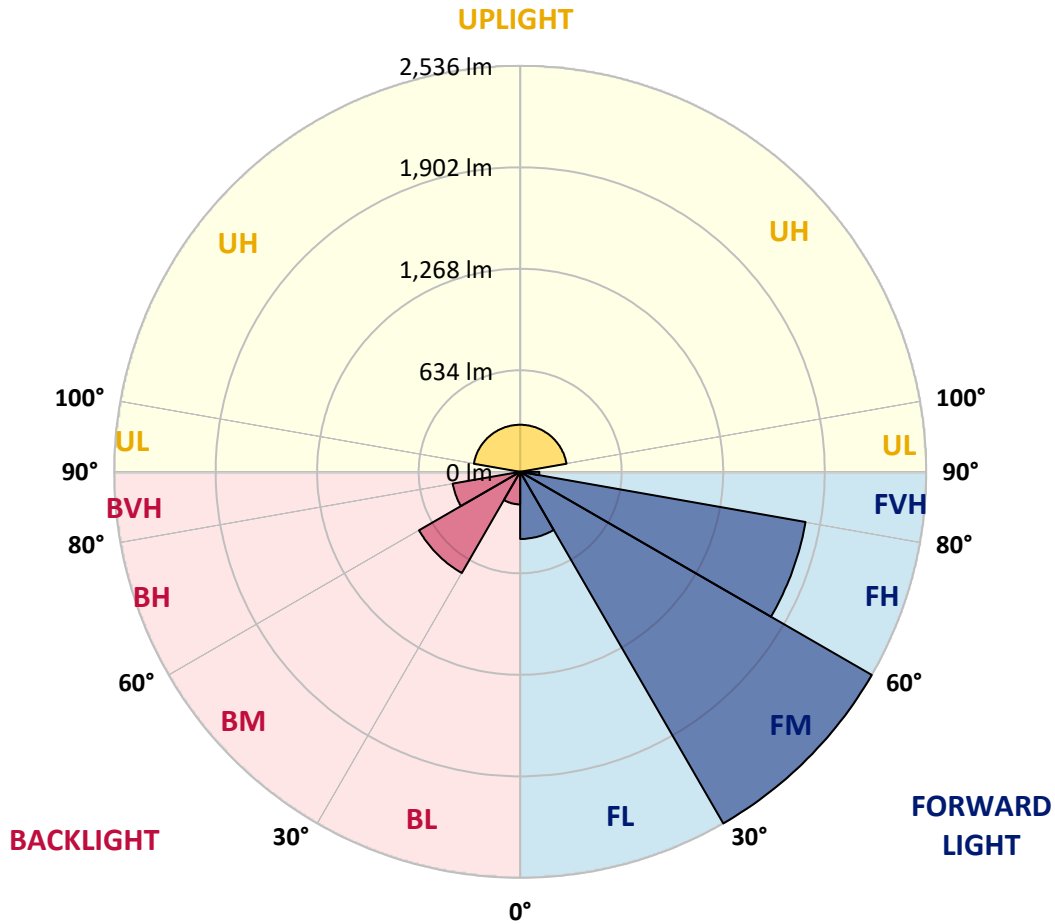
REPORT NUMBER: P833884
 CATALOG NUMBER: TTN-D3-735-U-DL-CG-UPL1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 419.4 | 6.4 | | | |
| FM (30°-60°) | 2535.8 | 38.6 | | | |
| FH (60°-80°) | 1809.7 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 120.2 | 1.8 | | | G2/225 |
| BL (0°-30°) | 203.5 | 3.1 | B1/500 | | |
| BM (30°-60°) | 729.9 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 427.7 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 6.7 | 0.1 | | U1/10 | |
| UH (100°-180°) | 293.8 | 4.5 | | U3/500 | |

BUG Rating: B1-U3-G2

Type IV Short





REPORT NUMBER: P833884

CATALOG NUMBER: TTN-D3-735-U-DL-CG-UPL1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 |
| 2.5° | 625.9 | 631.4 | 625.9 | 625.9 | 620.4 | 620.4 | 614.9 | 609.4 | 603.9 | 598.4 | 587.5 |
| 5° | 697.3 | 697.3 | 691.8 | 680.8 | 675.3 | 669.8 | 658.8 | 642.4 | 631.4 | 614.9 | 598.4 |
| 7.5° | 730.2 | 730.2 | 724.7 | 713.7 | 702.8 | 697.3 | 680.8 | 658.8 | 642.4 | 620.4 | 598.4 |
| 10° | 774.1 | 779.6 | 768.6 | 757.7 | 746.7 | 741.2 | 719.2 | 691.8 | 664.3 | 636.9 | 603.9 |
| 12.5° | 823.5 | 829.0 | 823.5 | 807.1 | 790.6 | 785.1 | 763.2 | 730.2 | 697.3 | 658.8 | 620.4 |
| 15° | 889.4 | 900.4 | 883.9 | 873.0 | 856.5 | 851.0 | 823.5 | 785.1 | 746.7 | 697.3 | 647.9 |
| 17.5° | 966.3 | 971.8 | 960.8 | 944.3 | 933.4 | 927.9 | 900.4 | 856.5 | 801.6 | 746.7 | 686.3 |
| 20° | 1054.1 | 1059.6 | 1054.1 | 1032.2 | 1021.2 | 1015.7 | 988.3 | 938.8 | 873.0 | 812.6 | 735.7 |
| 22.5° | 1158.5 | 1169.4 | 1153.0 | 1136.5 | 1125.5 | 1125.5 | 1092.6 | 1037.7 | 960.8 | 883.9 | 796.1 |
| 25° | 1279.2 | 1295.7 | 1273.8 | 1262.8 | 1251.8 | 1246.3 | 1218.8 | 1153.0 | 1065.1 | 971.8 | 862.0 |
| 27.5° | 1427.5 | 1438.5 | 1422.0 | 1416.5 | 1394.5 | 1394.5 | 1350.6 | 1273.8 | 1180.4 | 1070.6 | 944.3 |
| 30° | 1559.2 | 1570.2 | 1559.2 | 1559.2 | 1542.8 | 1537.3 | 1493.4 | 1416.5 | 1301.2 | 1169.4 | 1015.7 |
| 32.5° | 1685.5 | 1696.5 | 1691.0 | 1696.5 | 1691.0 | 1685.5 | 1630.6 | 1548.3 | 1433.0 | 1262.8 | 1087.1 |
| 35° | 1811.8 | 1828.3 | 1822.8 | 1839.3 | 1833.8 | 1828.3 | 1784.4 | 1685.5 | 1548.3 | 1378.1 | 1163.9 |
| 37.5° | 1943.6 | 1960.0 | 1960.0 | 1976.5 | 1982.0 | 1982.0 | 1932.6 | 1828.3 | 1674.5 | 1482.4 | 1251.8 |
| 40° | 2086.3 | 2102.8 | 2102.8 | 2130.2 | 2141.2 | 2141.2 | 2086.3 | 1982.0 | 1811.8 | 1597.7 | 1345.1 |
| 42.5° | 2223.6 | 2240.0 | 2245.5 | 2273.0 | 2289.5 | 2295.0 | 2251.0 | 2130.2 | 1932.6 | 1713.0 | 1433.0 |
| 45° | 2355.3 | 2371.8 | 2388.3 | 2443.2 | 2470.6 | 2465.2 | 2432.2 | 2305.9 | 2086.3 | 1833.8 | 1526.3 |
| 47.5° | 2481.6 | 2503.6 | 2531.0 | 2602.4 | 2640.8 | 2635.3 | 2613.4 | 2470.6 | 2229.1 | 1949.1 | 1608.7 |
| 50° | 2580.4 | 2596.9 | 2651.8 | 2728.7 | 2778.1 | 2783.6 | 2750.6 | 2613.4 | 2349.9 | 2036.9 | 1669.1 |
| 52.5° | 2657.3 | 2679.3 | 2745.2 | 2855.0 | 2893.4 | 2909.9 | 2871.4 | 2734.2 | 2470.6 | 2113.8 | 1718.5 |
| 55° | 2712.2 | 2712.2 | 2811.0 | 2937.3 | 2992.2 | 3003.2 | 3003.2 | 2833.0 | 2542.0 | 2163.2 | 1745.9 |
| 57.5° | 2684.8 | 2684.8 | 2794.6 | 2931.8 | 3019.7 | 3014.2 | 3003.2 | 2838.5 | 2553.0 | 2152.2 | 1729.4 |
| 60° | 2607.9 | 2624.4 | 2728.7 | 2865.9 | 2953.8 | 2948.3 | 2915.4 | 2767.1 | 2498.1 | 2108.3 | 1696.5 |
| 62.5° | 2503.6 | 2531.0 | 2640.8 | 2745.2 | 2844.0 | 2860.5 | 2816.5 | 2684.8 | 2404.8 | 2042.4 | 1636.1 |
| 65° | 2305.9 | 2344.4 | 2481.6 | 2596.9 | 2673.8 | 2706.7 | 2651.8 | 2531.0 | 2278.5 | 1916.1 | 1509.8 |
| 67.5° | 2086.3 | 2113.8 | 2229.1 | 2393.8 | 2437.7 | 2470.6 | 2443.2 | 2316.9 | 2102.8 | 1713.0 | 1367.1 |
| 70° | 1833.8 | 1877.7 | 1954.6 | 2119.3 | 2168.7 | 2201.6 | 2201.6 | 2075.3 | 1872.2 | 1504.3 | 1196.9 |
| 72.5° | 1537.3 | 1586.7 | 1680.0 | 1800.8 | 1866.7 | 1888.7 | 1883.2 | 1778.9 | 1597.7 | 1273.8 | 1010.2 |
| 75° | 1213.4 | 1251.8 | 1361.6 | 1449.4 | 1520.8 | 1537.3 | 1531.8 | 1444.0 | 1279.2 | 1026.7 | 801.6 |
| 77.5° | 894.9 | 933.4 | 1015.7 | 1081.6 | 1147.5 | 1136.5 | 1136.5 | 1070.6 | 966.3 | 763.2 | 609.4 |
| 80° | 587.5 | 620.4 | 691.8 | 713.7 | 785.1 | 779.6 | 779.6 | 730.2 | 658.8 | 510.6 | 406.3 |
| 82.5° | 323.9 | 351.4 | 400.8 | 422.8 | 466.7 | 455.7 | 461.2 | 428.2 | 384.3 | 285.5 | 230.6 |
| 85° | 115.3 | 137.3 | 164.7 | 181.2 | 203.1 | 203.1 | 203.1 | 175.7 | 164.7 | 109.8 | 93.3 |
| 87.5° | 5.5 | 11.0 | 22.0 | 22.0 | 32.9 | 32.9 | 32.9 | 22.0 | 22.0 | 5.5 | 5.5 |
| 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: P833884
 CATALOG NUMBER: TTN-D3-735-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: P833884

CATALOG NUMBER: TTN-D3-735-U-DL-CG-UPL1

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 | 587.5 |
| 2.5° | 582.0 | 576.5 | 571.0 | 560.0 | 554.5 | 549.0 | 543.5 | 538.1 | 538.1 | 538.1 | 538.1 |
| 5° | 587.5 | 582.0 | 565.5 | 549.0 | 532.6 | 516.1 | 505.1 | 499.6 | 494.1 | 488.6 | 488.6 |
| 7.5° | 587.5 | 576.5 | 554.5 | 532.6 | 516.1 | 494.1 | 477.7 | 461.2 | 450.2 | 444.7 | 444.7 |
| 10° | 593.0 | 576.5 | 549.0 | 527.1 | 499.6 | 472.2 | 450.2 | 428.2 | 417.3 | 406.3 | 406.3 |
| 12.5° | 603.9 | 587.5 | 549.0 | 521.6 | 488.6 | 455.7 | 428.2 | 406.3 | 389.8 | 378.8 | 378.8 |
| 15° | 625.9 | 603.9 | 560.0 | 521.6 | 483.1 | 444.7 | 417.3 | 389.8 | 373.3 | 362.4 | 362.4 |
| 17.5° | 658.8 | 631.4 | 576.5 | 521.6 | 477.7 | 439.2 | 406.3 | 378.8 | 356.9 | 345.9 | 345.9 |
| 20° | 697.3 | 664.3 | 598.4 | 532.6 | 477.7 | 433.7 | 400.8 | 367.9 | 345.9 | 334.9 | 334.9 |
| 22.5° | 752.2 | 702.8 | 625.9 | 549.0 | 488.6 | 439.2 | 395.3 | 362.4 | 340.4 | 329.4 | 329.4 |
| 25° | 812.6 | 757.7 | 658.8 | 571.0 | 499.6 | 439.2 | 395.3 | 362.4 | 340.4 | 329.4 | 323.9 |
| 27.5° | 878.4 | 818.1 | 697.3 | 593.0 | 510.6 | 450.2 | 400.8 | 362.4 | 340.4 | 329.4 | 329.4 |
| 30° | 938.8 | 867.5 | 735.7 | 620.4 | 527.1 | 455.7 | 406.3 | 367.9 | 340.4 | 329.4 | 329.4 |
| 32.5° | 1004.7 | 922.4 | 774.1 | 647.9 | 543.5 | 466.7 | 411.8 | 373.3 | 345.9 | 334.9 | 329.4 |
| 35° | 1070.6 | 977.3 | 812.6 | 669.8 | 560.0 | 477.7 | 417.3 | 378.8 | 351.4 | 340.4 | 340.4 |
| 37.5° | 1142.0 | 1037.7 | 851.0 | 697.3 | 576.5 | 488.6 | 428.2 | 384.3 | 356.9 | 345.9 | 345.9 |
| 40° | 1218.8 | 1098.1 | 889.4 | 719.2 | 593.0 | 499.6 | 439.2 | 395.3 | 367.9 | 356.9 | 356.9 |
| 42.5° | 1295.7 | 1163.9 | 933.4 | 746.7 | 609.4 | 510.6 | 444.7 | 406.3 | 378.8 | 367.9 | 367.9 |
| 45° | 1372.6 | 1218.8 | 971.8 | 774.1 | 625.9 | 527.1 | 461.2 | 417.3 | 389.8 | 378.8 | 378.8 |
| 47.5° | 1444.0 | 1279.2 | 1004.7 | 790.6 | 642.4 | 538.1 | 466.7 | 428.2 | 400.8 | 395.3 | 389.8 |
| 50° | 1493.4 | 1317.7 | 1026.7 | 807.1 | 647.9 | 543.5 | 477.7 | 433.7 | 411.8 | 400.8 | 400.8 |
| 52.5° | 1531.8 | 1356.1 | 1043.2 | 818.1 | 653.3 | 549.0 | 483.1 | 444.7 | 422.8 | 411.8 | 406.3 |
| 55° | 1553.8 | 1361.6 | 1043.2 | 807.1 | 647.9 | 549.0 | 483.1 | 444.7 | 422.8 | 411.8 | 411.8 |
| 57.5° | 1531.8 | 1334.1 | 1021.2 | 785.1 | 631.4 | 532.6 | 466.7 | 433.7 | 411.8 | 406.3 | 400.8 |
| 60° | 1487.9 | 1290.2 | 977.3 | 752.2 | 603.9 | 505.1 | 444.7 | 417.3 | 400.8 | 395.3 | 389.8 |
| 62.5° | 1427.5 | 1235.3 | 933.4 | 708.3 | 565.5 | 472.2 | 428.2 | 395.3 | 384.3 | 378.8 | 373.3 |
| 65° | 1306.7 | 1131.0 | 862.0 | 653.3 | 516.1 | 433.7 | 389.8 | 367.9 | 356.9 | 345.9 | 340.4 |
| 67.5° | 1174.9 | 1015.7 | 763.2 | 587.5 | 455.7 | 389.8 | 351.4 | 329.4 | 312.9 | 312.9 | 307.5 |
| 70° | 1032.2 | 894.9 | 658.8 | 499.6 | 395.3 | 340.4 | 302.0 | 285.5 | 274.5 | 274.5 | 269.0 |
| 72.5° | 862.0 | 752.2 | 549.0 | 406.3 | 323.9 | 280.0 | 252.6 | 236.1 | 230.6 | 230.6 | 225.1 |
| 75° | 691.8 | 593.0 | 433.7 | 318.4 | 252.6 | 219.6 | 197.7 | 186.7 | 181.2 | 181.2 | 175.7 |
| 77.5° | 510.6 | 433.7 | 312.9 | 230.6 | 181.2 | 159.2 | 142.7 | 137.3 | 131.8 | 131.8 | 126.3 |
| 80° | 340.4 | 285.5 | 203.1 | 148.2 | 109.8 | 98.8 | 87.8 | 87.8 | 82.4 | 87.8 | 82.4 |
| 82.5° | 186.7 | 153.7 | 109.8 | 76.9 | 54.9 | 49.4 | 43.9 | 43.9 | 49.4 | 49.4 | 43.9 |
| 85° | 71.4 | 54.9 | 38.4 | 22.0 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 11.0 |
| 87.5° | 5.5 | 5.5 | 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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