

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: P823272

Luminaire Tested: **TTN-D0-750-U-DL**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-11)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D0-750-U-DL
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
5000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1151.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

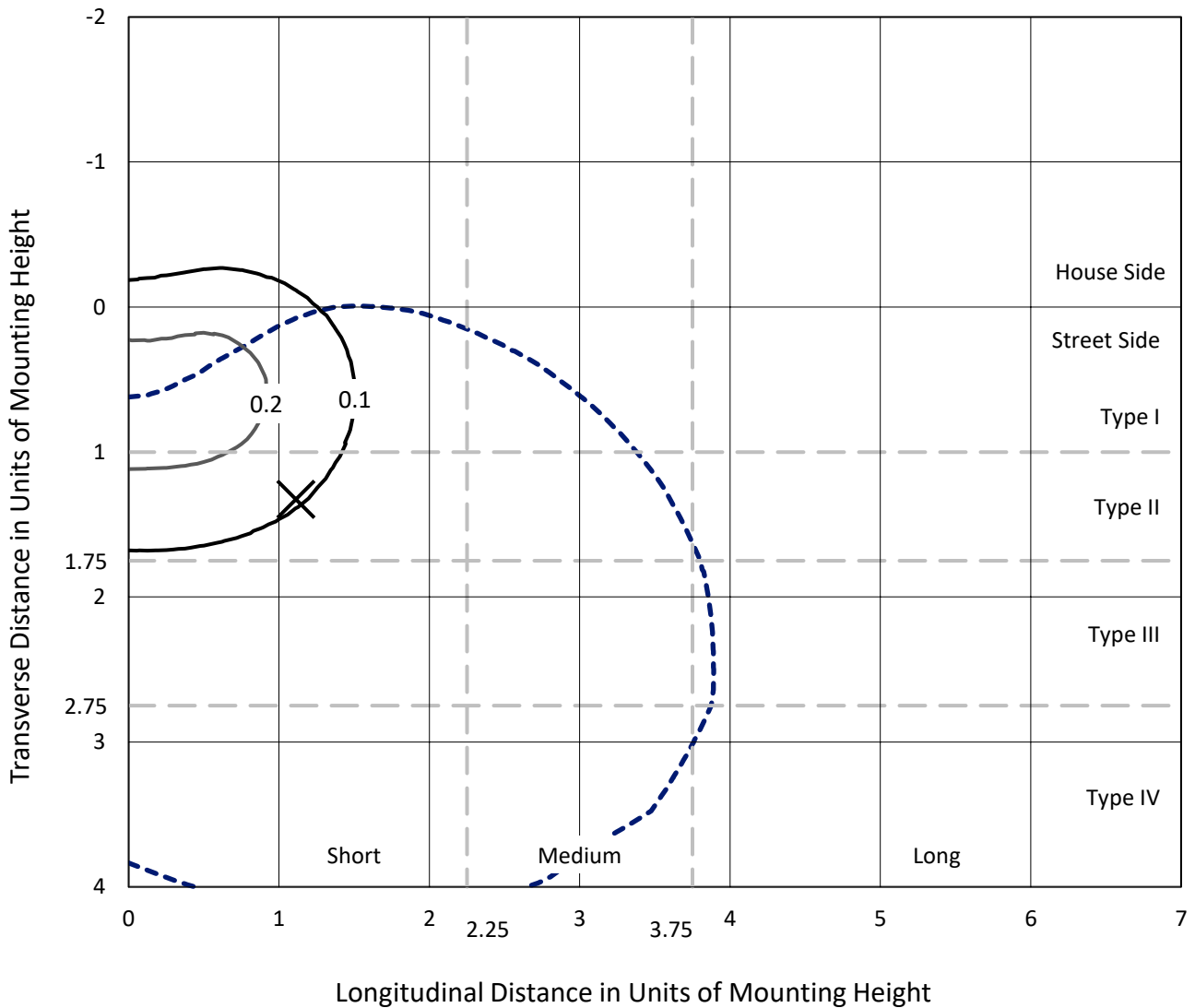
Input Watts (W): 10.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

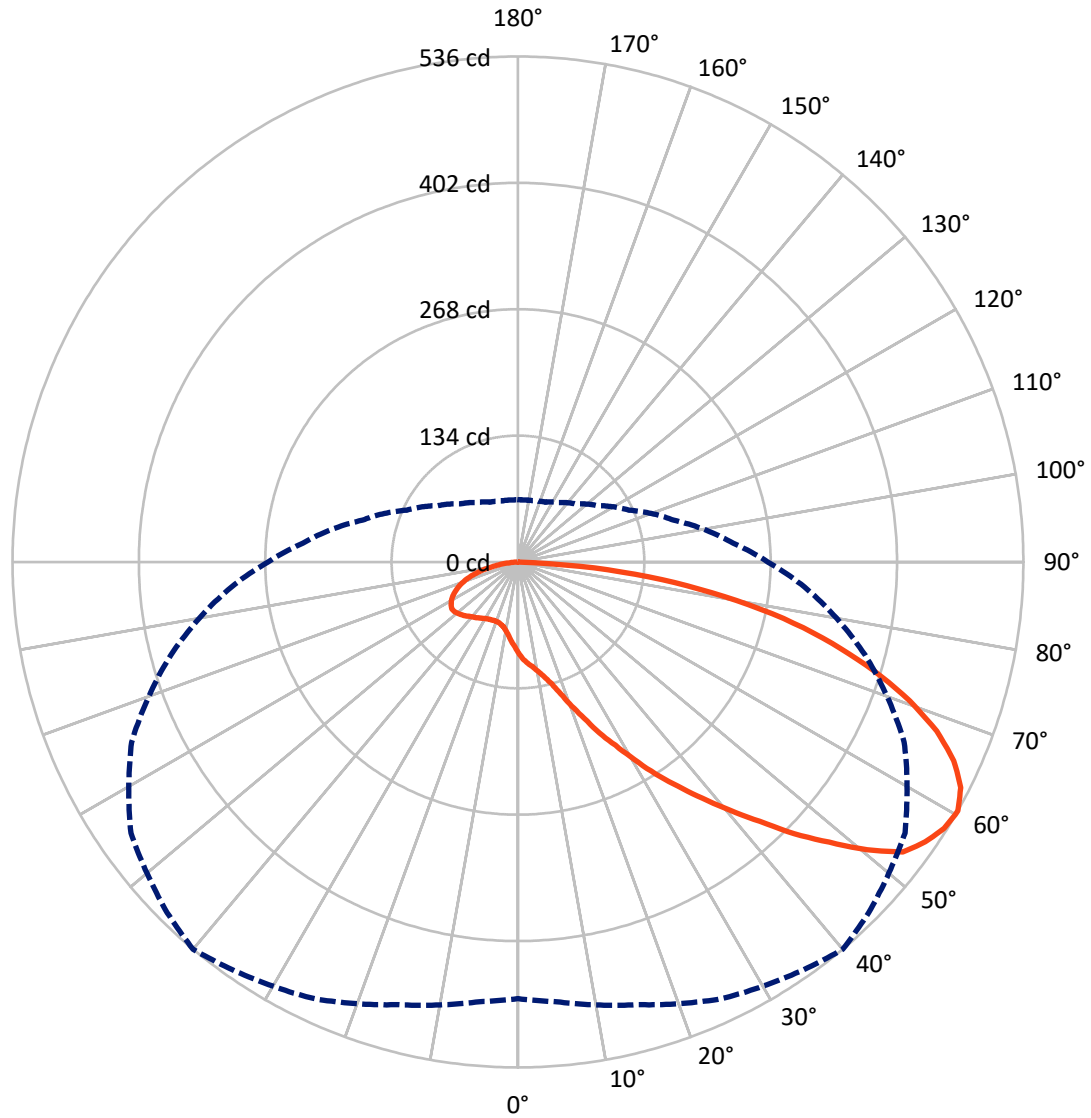
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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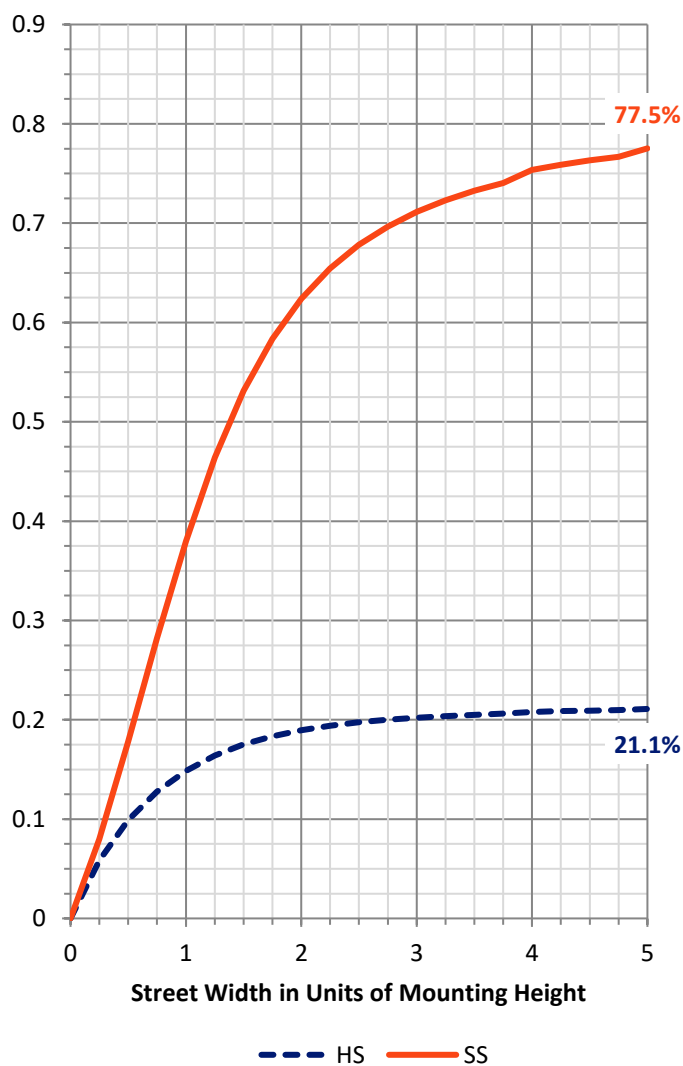
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 245.3 | 0.0 | 245.3 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 906.7 | 0.0 | 906.7 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 1151.9 | 0.0 | 1151.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 9.1 | 0.8 |
| 10°-20° | 29.2 | 2.5 |
| 20°-30° | 61.7 | 5.4 |
| 30°-40° | 112.7 | 9.8 |
| 40°-50° | 183.2 | 15.9 |
| 50°-60° | 254.6 | 22.1 |
| 60°-70° | 264.0 | 22.9 |
| 70°-80° | 189.2 | 16.4 |
| 80°-90° | 48.2 | 4.2 |
| 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° | 1151.9 | 100.0 |
| 0°-180° | 1151.9 | 100.0 |

Coefficient of Utilization

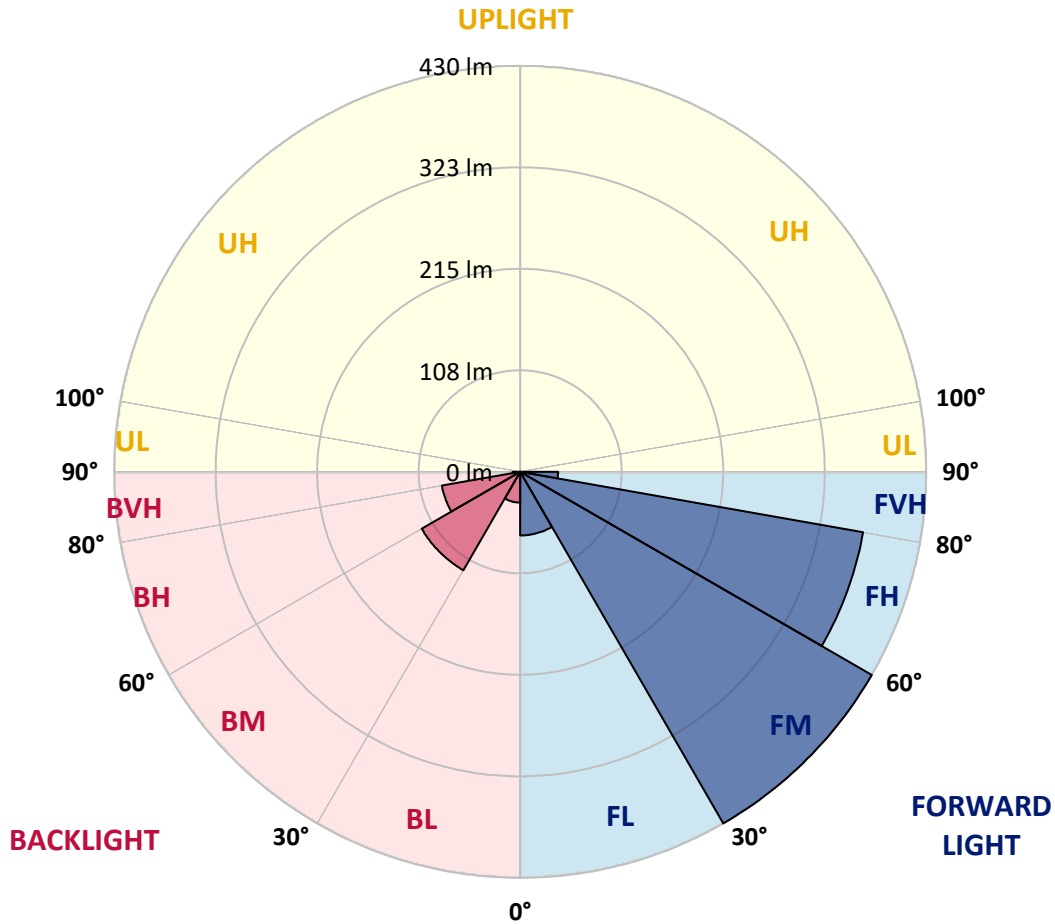


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 67.4 | 5.9 | | | |
| FM (30°-60°) | 430.2 | 37.3 | | | |
| FH (60°-80°) | 368.9 | 32.0 | | | G0/660 |
| FVH (80°-90°) | 40.2 | 3.5 | | | G1/100 |
| BL (0°-30°) | 32.6 | 2.8 | B0/110 | | |
| BM (30°-60°) | 120.4 | 10.5 | B0/220 | | |
| BH (60°-80°) | 84.2 | 7.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 8.1 | 0.7 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 |
| 2.5° | 104.0 | 104.0 | 104.0 | 104.0 | 103.0 | 103.0 | 102.0 | 101.0 | 100.0 | 99.0 | 97.0 |
| 5° | 113.0 | 113.0 | 112.0 | 111.0 | 109.0 | 108.0 | 107.0 | 105.0 | 103.0 | 101.0 | 98.0 |
| 7.5° | 117.0 | 117.0 | 117.0 | 116.0 | 113.0 | 112.0 | 110.0 | 107.0 | 104.0 | 101.0 | 97.0 |
| 10° | 124.0 | 124.0 | 123.0 | 122.0 | 119.0 | 118.0 | 116.0 | 112.0 | 107.0 | 102.0 | 97.0 |
| 12.5° | 133.0 | 132.0 | 131.0 | 130.0 | 127.0 | 125.0 | 122.0 | 118.0 | 112.0 | 106.0 | 100.0 |
| 15° | 144.0 | 142.0 | 142.0 | 140.0 | 137.0 | 134.0 | 132.0 | 126.0 | 120.0 | 112.0 | 104.0 |
| 17.5° | 156.0 | 155.0 | 154.0 | 152.0 | 149.0 | 147.0 | 144.0 | 137.0 | 129.0 | 119.0 | 110.0 |
| 20° | 171.0 | 169.0 | 170.0 | 167.0 | 164.0 | 163.0 | 158.0 | 150.0 | 140.0 | 129.0 | 118.0 |
| 22.5° | 189.0 | 187.0 | 187.0 | 184.0 | 182.0 | 180.0 | 175.0 | 166.0 | 153.0 | 141.0 | 127.0 |
| 25° | 209.1 | 207.1 | 207.1 | 205.1 | 203.0 | 201.0 | 195.0 | 185.0 | 170.0 | 155.0 | 139.0 |
| 27.5° | 231.1 | 229.1 | 229.1 | 228.1 | 223.1 | 220.1 | 215.1 | 204.1 | 189.0 | 170.0 | 151.0 |
| 30° | 254.1 | 252.1 | 254.1 | 252.1 | 249.1 | 243.1 | 237.1 | 225.1 | 208.1 | 187.0 | 164.0 |
| 32.5° | 272.1 | 272.1 | 273.1 | 275.1 | 273.1 | 268.1 | 261.1 | 251.1 | 228.1 | 202.0 | 176.0 |
| 35° | 293.1 | 293.1 | 295.1 | 298.1 | 297.1 | 292.1 | 285.1 | 274.1 | 250.1 | 219.1 | 189.0 |
| 37.5° | 316.1 | 316.1 | 318.1 | 323.1 | 321.1 | 318.1 | 313.1 | 299.1 | 272.1 | 236.1 | 203.0 |
| 40° | 341.1 | 340.1 | 342.1 | 349.1 | 350.1 | 346.1 | 340.1 | 326.1 | 295.1 | 258.1 | 218.1 |
| 42.5° | 366.1 | 365.1 | 369.1 | 376.1 | 377.1 | 376.1 | 370.1 | 354.1 | 319.1 | 280.1 | 233.1 |
| 45° | 391.1 | 391.1 | 397.1 | 408.1 | 413.1 | 411.1 | 406.1 | 386.1 | 349.1 | 303.1 | 253.1 |
| 47.5° | 417.1 | 417.1 | 425.1 | 439.1 | 445.1 | 444.1 | 442.1 | 418.1 | 378.1 | 327.1 | 270.1 |
| 50° | 437.1 | 437.1 | 450.1 | 466.1 | 476.1 | 480.1 | 470.1 | 448.1 | 403.1 | 348.1 | 284.1 |
| 52.5° | 457.1 | 457.1 | 470.1 | 495.1 | 505.1 | 511.1 | 498.1 | 475.1 | 431.1 | 367.1 | 297.1 |
| 55° | 467.1 | 469.1 | 487.1 | 511.1 | 527.1 | 524.1 | 529.1 | 498.1 | 449.1 | 381.1 | 305.1 |
| 57.5° | 468.1 | 471.1 | 491.1 | 516.1 | 534.1 | 533.1 | 534.1 | 506.1 | 456.1 | 384.1 | 306.1 |
| 60° | 463.1 | 468.1 | 486.1 | 511.1 | 528.1 | 536.1 | 526.1 | 501.1 | 452.1 | 381.1 | 305.1 |
| 62.5° | 451.1 | 461.1 | 480.1 | 499.1 | 524.1 | 527.1 | 519.1 | 498.1 | 441.1 | 378.1 | 300.1 |
| 65° | 424.1 | 435.1 | 462.1 | 484.1 | 504.1 | 508.1 | 499.1 | 481.1 | 430.1 | 364.1 | 284.1 |
| 67.5° | 397.1 | 404.1 | 427.1 | 461.1 | 475.1 | 479.1 | 476.1 | 455.1 | 411.1 | 336.1 | 265.1 |
| 70° | 366.1 | 375.1 | 393.1 | 428.1 | 442.1 | 441.1 | 450.1 | 426.1 | 382.1 | 312.1 | 245.1 |
| 72.5° | 324.1 | 337.1 | 355.1 | 384.1 | 401.1 | 395.1 | 409.1 | 389.1 | 344.1 | 282.1 | 218.1 |
| 75° | 275.1 | 286.1 | 309.1 | 332.1 | 351.1 | 344.1 | 355.1 | 341.1 | 300.1 | 246.1 | 187.0 |
| 77.5° | 220.1 | 233.1 | 254.1 | 275.1 | 288.1 | 288.1 | 293.1 | 281.1 | 249.1 | 202.0 | 153.0 |
| 80° | 163.0 | 175.0 | 194.0 | 209.1 | 221.1 | 222.1 | 227.1 | 221.1 | 192.0 | 157.0 | 117.0 |
| 82.5° | 108.0 | 114.0 | 131.0 | 143.0 | 155.0 | 154.0 | 162.0 | 158.0 | 134.0 | 108.0 | 78.0 |
| 85° | 46.0 | 50.0 | 64.0 | 74.0 | 85.0 | 81.0 | 92.0 | 91.0 | 72.0 | 52.0 | 35.0 |
| 87.5° | 2.0 | 3.0 | 3.0 | 2.0 | 3.0 | 1.0 | 3.0 | 4.0 | 3.0 | 2.0 | 2.0 |
| 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: TTN-D0-750-U-DL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 0° | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 |
| 2.5° | 97.0 | 96.0 | 94.0 | 93.0 | 92.0 | 90.0 | 90.0 | 89.0 | 89.0 | 89.0 | 88.0 |
| 5° | 97.0 | 95.0 | 93.0 | 90.0 | 88.0 | 86.0 | 84.0 | 82.0 | 81.0 | 81.0 | 80.0 |
| 7.5° | 95.0 | 93.0 | 90.0 | 87.0 | 84.0 | 80.0 | 78.0 | 74.0 | 73.0 | 72.0 | 72.0 |
| 10° | 95.0 | 93.0 | 88.0 | 84.0 | 80.0 | 76.0 | 73.0 | 69.0 | 66.0 | 65.0 | 65.0 |
| 12.5° | 96.0 | 93.0 | 88.0 | 83.0 | 78.0 | 73.0 | 69.0 | 65.0 | 62.0 | 60.0 | 60.0 |
| 15° | 100.0 | 96.0 | 90.0 | 83.0 | 77.0 | 71.0 | 67.0 | 62.0 | 59.0 | 57.0 | 57.0 |
| 17.5° | 105.0 | 101.0 | 92.0 | 84.0 | 77.0 | 70.0 | 65.0 | 60.0 | 57.0 | 55.0 | 54.0 |
| 20° | 112.0 | 106.0 | 96.0 | 85.0 | 77.0 | 70.0 | 64.0 | 59.0 | 55.0 | 53.0 | 53.0 |
| 22.5° | 120.0 | 113.0 | 100.0 | 87.0 | 78.0 | 70.0 | 64.0 | 58.0 | 54.0 | 52.0 | 52.0 |
| 25° | 130.0 | 121.0 | 106.0 | 91.0 | 80.0 | 71.0 | 64.0 | 58.0 | 54.0 | 52.0 | 52.0 |
| 27.5° | 141.0 | 131.0 | 112.0 | 95.0 | 82.0 | 72.0 | 64.0 | 58.0 | 54.0 | 52.0 | 52.0 |
| 30° | 151.0 | 140.0 | 118.0 | 99.0 | 85.0 | 73.0 | 65.0 | 59.0 | 55.0 | 53.0 | 52.0 |
| 32.5° | 162.0 | 148.0 | 124.0 | 103.0 | 87.0 | 75.0 | 66.0 | 60.0 | 55.0 | 53.0 | 53.0 |
| 35° | 173.0 | 158.0 | 130.0 | 108.0 | 90.0 | 77.0 | 67.0 | 61.0 | 56.0 | 54.0 | 54.0 |
| 37.5° | 185.0 | 169.0 | 137.0 | 112.0 | 93.0 | 79.0 | 69.0 | 62.0 | 57.0 | 55.0 | 55.0 |
| 40° | 199.0 | 180.0 | 144.0 | 117.0 | 96.0 | 81.0 | 70.0 | 64.0 | 59.0 | 57.0 | 57.0 |
| 42.5° | 212.1 | 190.0 | 151.0 | 121.0 | 99.0 | 83.0 | 72.0 | 65.0 | 61.0 | 59.0 | 59.0 |
| 45° | 225.1 | 202.0 | 158.0 | 126.0 | 102.0 | 86.0 | 74.0 | 68.0 | 63.0 | 61.0 | 61.0 |
| 47.5° | 240.1 | 213.1 | 166.0 | 130.0 | 105.0 | 88.0 | 76.0 | 70.0 | 65.0 | 64.0 | 63.0 |
| 50° | 252.1 | 221.1 | 171.0 | 134.0 | 107.0 | 90.0 | 78.0 | 71.0 | 67.0 | 65.0 | 65.0 |
| 52.5° | 263.1 | 229.1 | 175.0 | 136.0 | 108.0 | 91.0 | 80.0 | 73.0 | 69.0 | 67.0 | 67.0 |
| 55° | 269.1 | 232.1 | 178.0 | 136.0 | 109.0 | 92.0 | 80.0 | 73.0 | 69.0 | 68.0 | 67.0 |
| 57.5° | 269.1 | 232.1 | 176.0 | 134.0 | 107.0 | 90.0 | 79.0 | 72.0 | 69.0 | 67.0 | 67.0 |
| 60° | 265.1 | 229.1 | 171.0 | 130.0 | 104.0 | 87.0 | 77.0 | 70.0 | 67.0 | 66.0 | 66.0 |
| 62.5° | 259.1 | 224.1 | 167.0 | 125.0 | 100.0 | 83.0 | 74.0 | 67.0 | 65.0 | 65.0 | 64.0 |
| 65° | 243.1 | 209.1 | 158.0 | 118.0 | 94.0 | 78.0 | 70.0 | 64.0 | 62.0 | 61.0 | 60.0 |
| 67.5° | 226.1 | 195.0 | 144.0 | 110.0 | 86.0 | 73.0 | 65.0 | 60.0 | 57.0 | 57.0 | 56.0 |
| 70° | 209.1 | 180.0 | 131.0 | 99.0 | 77.0 | 67.0 | 59.0 | 54.0 | 52.0 | 52.0 | 52.0 |
| 72.5° | 186.0 | 161.0 | 116.0 | 87.0 | 68.0 | 59.0 | 53.0 | 48.0 | 47.0 | 47.0 | 46.0 |
| 75° | 159.0 | 137.0 | 98.0 | 74.0 | 57.0 | 50.0 | 45.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 77.5° | 130.0 | 111.0 | 78.0 | 59.0 | 45.0 | 40.0 | 37.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| 80° | 98.0 | 82.0 | 57.0 | 43.0 | 33.0 | 29.0 | 27.0 | 25.0 | 26.0 | 26.0 | 25.0 |
| 82.5° | 64.0 | 54.0 | 36.0 | 27.0 | 21.0 | 19.0 | 19.0 | 17.0 | 18.0 | 18.0 | 18.0 |
| 85° | 28.0 | 24.0 | 15.0 | 12.0 | 10.0 | 10.0 | 10.0 | 9.0 | 10.0 | 10.0 | 10.0 |
| 87.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0.0 | 1.0 | 2.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)