

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: P595014

Luminaire Tested: **IST-PA1A-AMB-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-AMB-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 962 lumens  
Efficiency: N/A  
Efficacy: 30.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G0

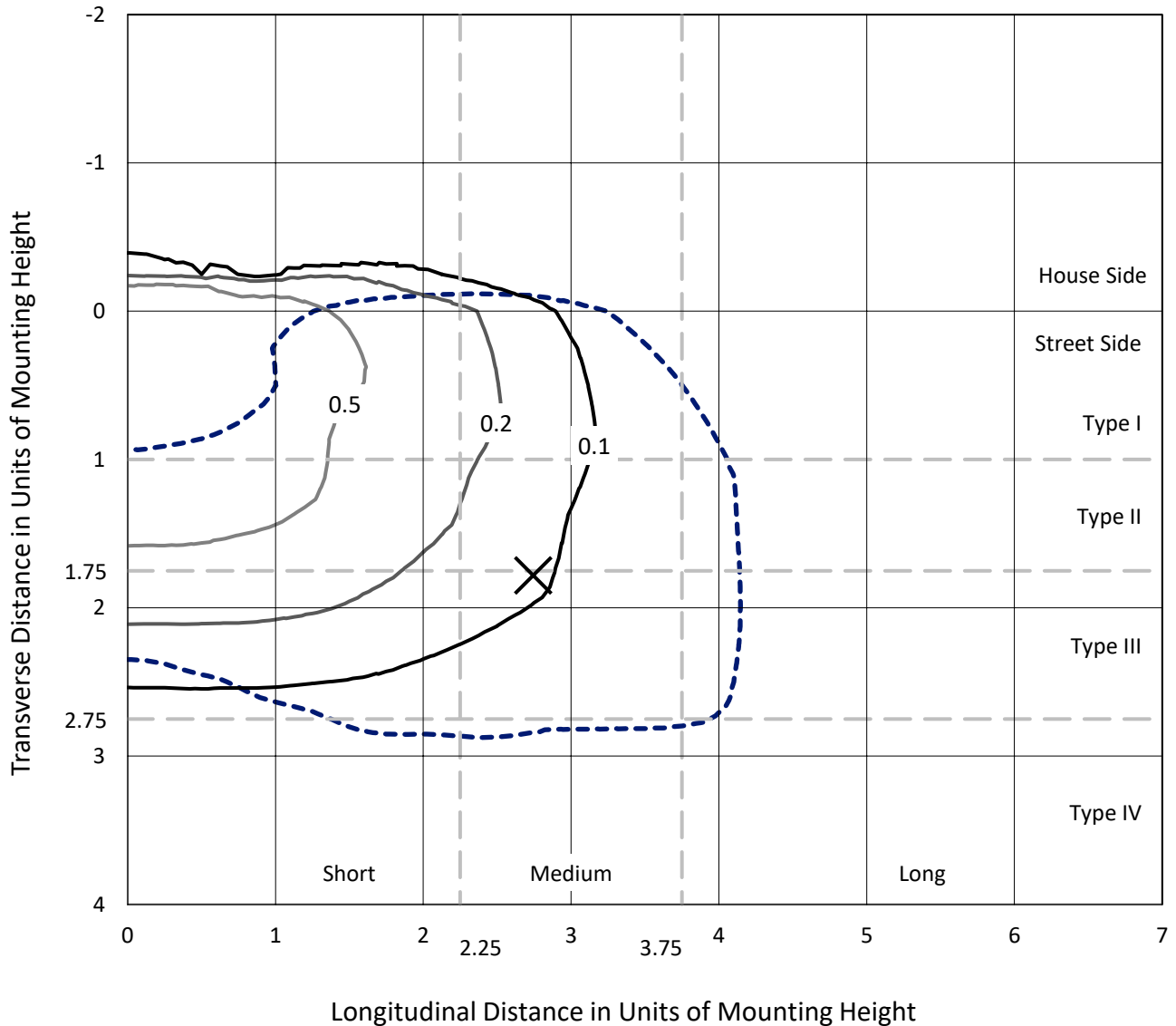
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

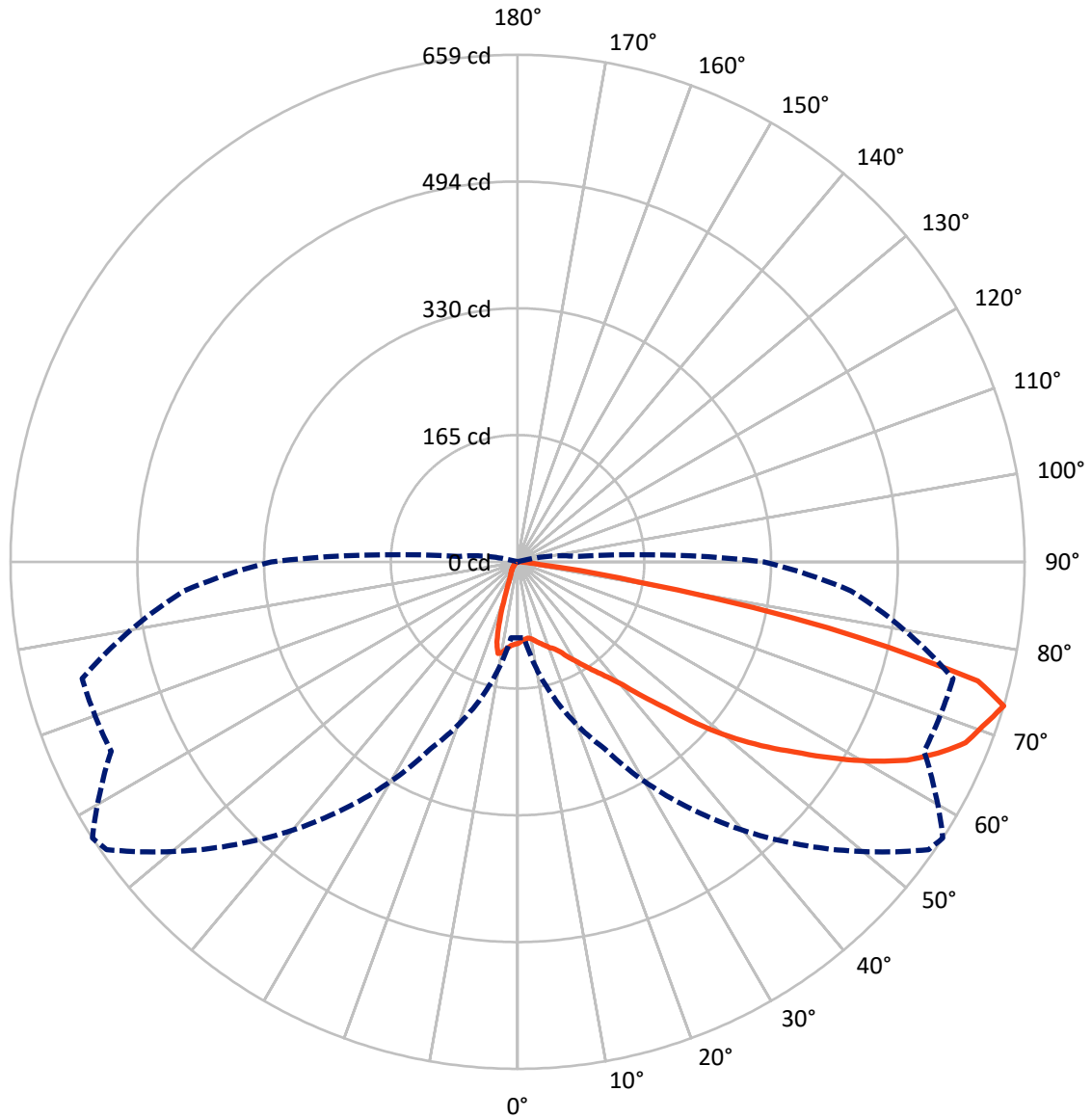
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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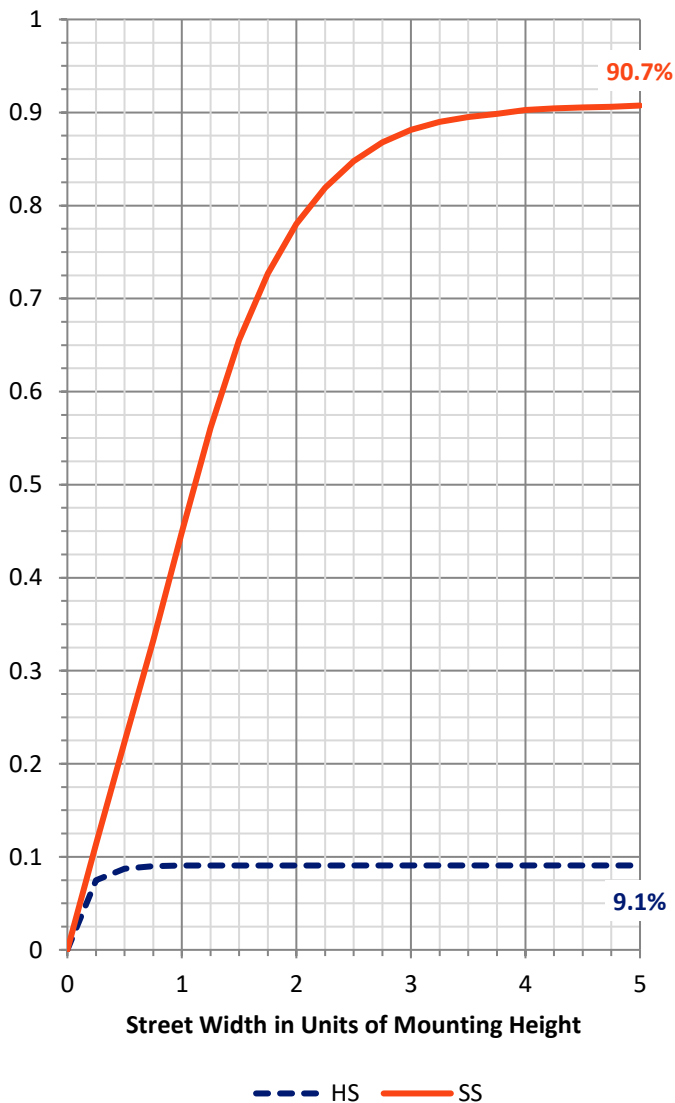
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| <b>House Side</b>  | Lumens    | 87.9     | 0.0    | 87.9  |
|                    | % Fixture | 9.1      | 0.0    | 9.1   |
| <b>Street Side</b> | Lumens    | 874.1    | 0.0    | 874.1 |
|                    | % Fixture | 90.9     | 0.0    | 90.9  |
| <b>Total</b>       | Lumens    | 962.0    | 0.0    | 962.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0 |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.8    | 1.0       |
| 10°-20°   | 26.1   | 2.7       |
| 20°-30°   | 42.6   | 4.4       |
| 30°-40°   | 72.5   | 7.5       |
| 40°-50°   | 137.1  | 14.2      |
| 50°-60°   | 231.6  | 24.1      |
| 60°-70°   | 272.4  | 28.3      |
| 70°-80°   | 162.3  | 16.9      |
| 80°-90°   | 7.6    | 0.8       |
| 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°    | 962.0  | 100.0     |
| 0°-180°   | 962.0  | 100.0     |

**Coefficient of Utilization**



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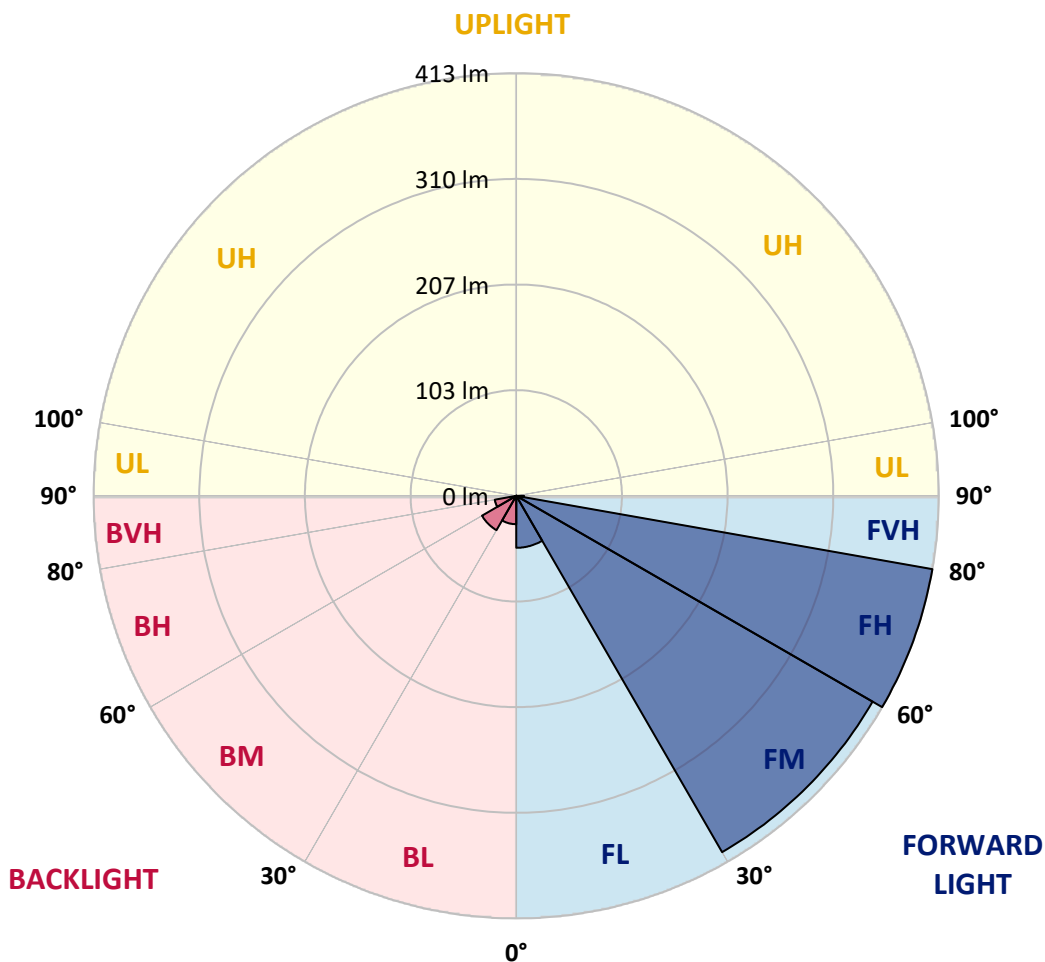
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 50.8   | 5.3       |                         |      |        |
| FM (30°-60°)   | 402.4  | 41.8      |                         |      |        |
| FH (60°-80°)   | 413.3  | 43.0      |                         |      | G0/660 |
| FVH (80°-90°)  | 7.6    | 0.8       |                         |      | G0/10  |
| BL (0°-30°)    | 27.8   | 2.9       | B0/110                  |      |        |
| BM (30°-60°)   | 38.7   | 4.0       | B0/220                  |      |        |
| BH (60°-80°)   | 21.4   | 2.2       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.1    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B0-U0-G0**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 57°   | 65°   | 75°   | 85°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 |
| 2.5°  | 98.0  | 98.0  | 99.0  | 99.0  | 101.0 | 102.0 | 103.0 | 103.0 | 104.0 | 106.0 | 106.0 |
| 5°    | 87.0  | 87.0  | 88.0  | 89.0  | 92.0  | 96.0  | 100.0 | 101.0 | 104.0 | 108.0 | 109.0 |
| 7.5°  | 84.0  | 85.0  | 86.0  | 87.0  | 89.0  | 93.0  | 98.0  | 100.0 | 105.0 | 111.0 | 115.0 |
| 10°   | 86.0  | 87.0  | 87.0  | 88.0  | 91.0  | 95.0  | 101.0 | 102.0 | 109.0 | 117.0 | 122.0 |
| 12.5° | 89.0  | 89.0  | 89.0  | 91.0  | 93.0  | 97.0  | 104.0 | 106.0 | 114.0 | 125.0 | 131.0 |
| 15°   | 92.0  | 91.0  | 92.0  | 93.0  | 96.0  | 99.0  | 108.0 | 110.0 | 120.0 | 134.0 | 141.0 |
| 17.5° | 94.0  | 94.0  | 94.0  | 96.0  | 99.0  | 103.0 | 112.0 | 114.0 | 127.0 | 142.0 | 150.0 |
| 20°   | 96.0  | 96.0  | 96.0  | 98.0  | 102.0 | 107.0 | 116.0 | 119.0 | 133.0 | 152.0 | 159.0 |
| 22.5° | 100.0 | 99.0  | 99.0  | 101.0 | 106.0 | 111.0 | 121.0 | 123.0 | 140.0 | 162.0 | 167.0 |
| 25°   | 106.0 | 106.0 | 103.0 | 105.0 | 109.0 | 116.0 | 127.0 | 130.0 | 148.0 | 173.0 | 175.0 |
| 27.5° | 120.0 | 120.0 | 116.0 | 113.0 | 115.0 | 123.0 | 136.0 | 140.0 | 158.0 | 185.0 | 184.0 |
| 30°   | 143.0 | 143.0 | 137.0 | 129.0 | 124.0 | 131.0 | 146.0 | 150.0 | 170.0 | 197.0 | 192.0 |
| 32.5° | 175.0 | 173.0 | 166.0 | 154.0 | 142.0 | 143.0 | 158.0 | 162.0 | 181.0 | 210.1 | 201.1 |
| 35°   | 206.1 | 202.1 | 198.0 | 184.0 | 169.0 | 158.0 | 170.0 | 175.0 | 196.0 | 226.1 | 212.1 |
| 37.5° | 237.1 | 236.1 | 231.1 | 217.1 | 199.1 | 182.0 | 186.0 | 190.0 | 213.1 | 244.1 | 227.1 |
| 40°   | 273.1 | 272.1 | 272.1 | 254.1 | 232.1 | 213.1 | 208.1 | 210.1 | 234.1 | 267.1 | 245.1 |
| 42.5° | 311.1 | 312.1 | 312.1 | 295.1 | 269.1 | 249.1 | 238.1 | 239.1 | 257.1 | 294.1 | 269.1 |
| 45°   | 361.1 | 363.1 | 358.1 | 343.1 | 316.1 | 291.1 | 275.1 | 272.1 | 285.1 | 325.1 | 294.1 |
| 47.5° | 420.1 | 422.1 | 417.1 | 397.1 | 369.1 | 342.1 | 320.1 | 315.1 | 316.1 | 363.1 | 323.1 |
| 50°   | 472.1 | 476.1 | 469.1 | 457.1 | 432.1 | 407.1 | 364.1 | 357.1 | 351.1 | 399.1 | 353.1 |
| 52.5° | 501.1 | 506.1 | 504.1 | 510.1 | 497.1 | 481.1 | 408.1 | 397.1 | 387.1 | 440.1 | 382.1 |
| 55°   | 501.1 | 500.1 | 514.1 | 535.1 | 552.1 | 552.1 | 450.1 | 436.1 | 426.1 | 478.1 | 409.1 |
| 57.5° | 474.1 | 475.1 | 510.1 | 540.1 | 584.1 | 600.2 | 498.1 | 481.1 | 465.1 | 516.1 | 439.1 |
| 60°   | 432.1 | 436.1 | 484.1 | 531.1 | 596.1 | 624.2 | 538.1 | 526.1 | 504.1 | 554.1 | 467.1 |
| 62.5° | 400.1 | 400.1 | 444.1 | 513.1 | 585.1 | 620.2 | 579.1 | 568.1 | 539.1 | 586.1 | 494.1 |
| 65°   | 360.1 | 361.1 | 399.1 | 478.1 | 562.1 | 606.2 | 605.2 | 600.2 | 572.1 | 611.2 | 517.1 |
| 67.5° | 317.1 | 320.1 | 356.1 | 431.1 | 532.1 | 594.1 | 623.2 | 628.2 | 593.1 | 629.2 | 535.1 |
| 70°   | 250.1 | 256.1 | 299.1 | 375.1 | 489.1 | 567.1 | 630.2 | 641.2 | 599.2 | 633.2 | 543.1 |
| 72.5° | 121.0 | 134.0 | 209.1 | 290.1 | 415.1 | 533.1 | 647.2 | 656.2 | 591.1 | 602.2 | 462.1 |
| 73°   | 99.0  | 99.0  | 183.0 | 268.1 | 391.1 | 520.1 | 652.2 | 659.2 | 583.1 | 586.1 | 435.1 |
| 75°   | 49.0  | 49.0  | 84.0  | 166.0 | 257.1 | 409.1 | 608.2 | 618.2 | 513.1 | 477.1 | 295.1 |
| 77.5° | 30.0  | 30.0  | 38.0  | 71.0  | 106.0 | 187.0 | 405.1 | 413.1 | 340.1 | 263.1 | 116.0 |
| 80°   | 7.0   | 8.0   | 10.0  | 25.0  | 47.0  | 48.0  | 148.0 | 161.0 | 137.0 | 87.0  | 20.0  |
| 82.5° | 4.0   | 4.0   | 6.0   | 12.0  | 31.0  | 19.0  | 24.0  | 30.0  | 32.0  | 19.0  | 5.0   |
| 85°   | 1.0   | 2.0   | 3.0   | 7.0   | 15.0  | 8.0   | 6.0   | 8.0   | 9.0   | 9.0   | 2.0   |
| 87.5° | 0.0   | 0.0   | 1.0   | 4.0   | 4.0   | 1.0   | 1.0   | 2.0   | 2.0   | 4.0   | 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   |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 | 106.0 |
| 2.5°  | 107.0 | 107.0 | 108.0 | 108.0 | 107.0 | 107.0 | 107.0 | 107.0 | 107.0 | 106.0 | 106.0 |
| 5°    | 110.0 | 111.0 | 111.0 | 110.0 | 109.0 | 108.0 | 108.0 | 107.0 | 107.0 | 106.0 | 106.0 |
| 7.5°  | 116.0 | 117.0 | 116.0 | 115.0 | 113.0 | 111.0 | 109.0 | 107.0 | 105.0 | 104.0 | 103.0 |
| 10°   | 124.0 | 125.0 | 124.0 | 122.0 | 119.0 | 113.0 | 98.0  | 82.0  | 72.0  | 63.0  | 62.0  |
| 12.5° | 133.0 | 133.0 | 132.0 | 129.0 | 120.0 | 91.0  | 60.0  | 41.0  | 32.0  | 29.0  | 29.0  |
| 15°   | 142.0 | 142.0 | 140.0 | 135.0 | 101.0 | 53.0  | 29.0  | 23.0  | 22.0  | 22.0  | 22.0  |
| 17.5° | 151.0 | 151.0 | 148.0 | 129.0 | 67.0  | 28.0  | 21.0  | 21.0  | 20.0  | 20.0  | 21.0  |
| 20°   | 159.0 | 158.0 | 152.0 | 108.0 | 36.0  | 21.0  | 20.0  | 20.0  | 19.0  | 19.0  | 19.0  |
| 22.5° | 166.0 | 164.0 | 153.0 | 77.0  | 24.0  | 20.0  | 19.0  | 18.0  | 18.0  | 17.0  | 17.0  |
| 25°   | 173.0 | 169.0 | 150.0 | 47.0  | 20.0  | 18.0  | 17.0  | 16.0  | 15.0  | 15.0  | 15.0  |
| 27.5° | 180.0 | 174.0 | 138.0 | 28.0  | 18.0  | 17.0  | 16.0  | 14.0  | 13.0  | 12.0  | 12.0  |
| 30°   | 186.0 | 178.0 | 118.0 | 20.0  | 17.0  | 16.0  | 14.0  | 11.0  | 10.0  | 9.0   | 9.0   |
| 32.5° | 193.0 | 181.0 | 94.0  | 17.0  | 15.0  | 13.0  | 11.0  | 9.0   | 7.0   | 7.0   | 7.0   |
| 35°   | 201.1 | 186.0 | 66.0  | 15.0  | 13.0  | 11.0  | 8.0   | 6.0   | 5.0   | 4.0   | 4.0   |
| 37.5° | 211.1 | 195.0 | 43.0  | 13.0  | 11.0  | 9.0   | 6.0   | 4.0   | 3.0   | 3.0   | 3.0   |
| 40°   | 225.1 | 206.1 | 27.0  | 12.0  | 10.0  | 7.0   | 4.0   | 3.0   | 2.0   | 2.0   | 2.0   |
| 42.5° | 244.1 | 220.1 | 18.0  | 11.0  | 8.0   | 5.0   | 3.0   | 2.0   | 1.0   | 1.0   | 1.0   |
| 45°   | 265.1 | 236.1 | 14.0  | 9.0   | 6.0   | 3.0   | 1.0   | 1.0   | 0.0   | 1.0   | 1.0   |
| 47.5° | 289.1 | 251.1 | 12.0  | 8.0   | 5.0   | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°   | 312.1 | 261.1 | 11.0  | 7.0   | 3.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5° | 337.1 | 268.1 | 10.0  | 6.0   | 3.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 361.1 | 270.1 | 9.0   | 4.0   | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 391.1 | 266.1 | 8.0   | 3.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 422.1 | 257.1 | 6.0   | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 451.1 | 244.1 | 5.0   | 2.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 481.1 | 227.1 | 4.0   | 1.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 488.1 | 204.1 | 3.0   | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 455.1 | 165.0 | 2.0   | 1.0   | 0.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 345.1 | 103.0 | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 73°   | 320.1 | 79.0  | 2.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 184.0 | 23.0  | 1.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 58.0  | 7.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 12.0  | 2.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 3.0   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 1.0   | 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   |
| 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)