

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: P594067

Luminaire Tested: **ISC-PA1B-740-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1B-740-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3853 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

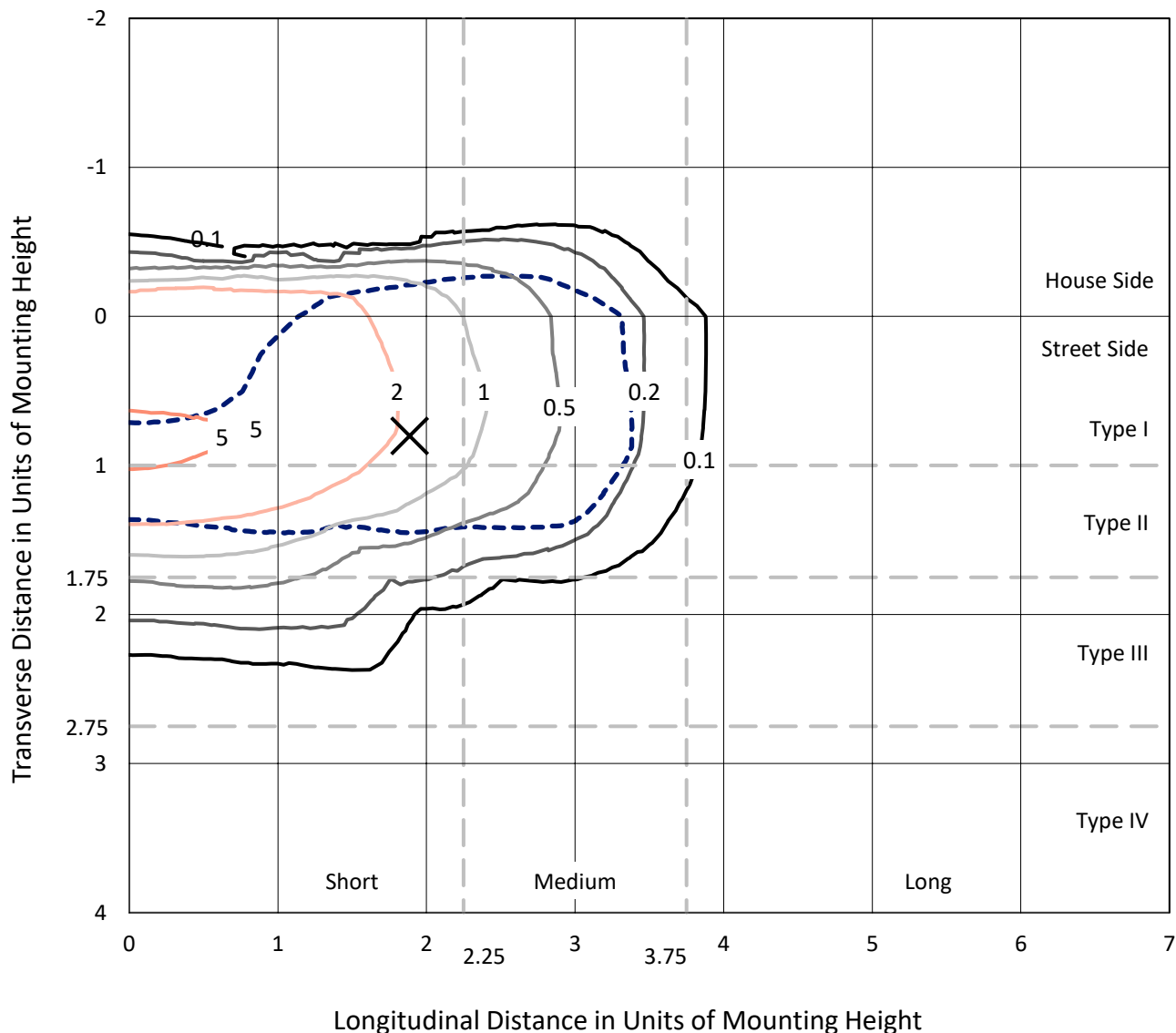
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594067  
 CATALOG NUMBER: ISC-PA1B-740-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

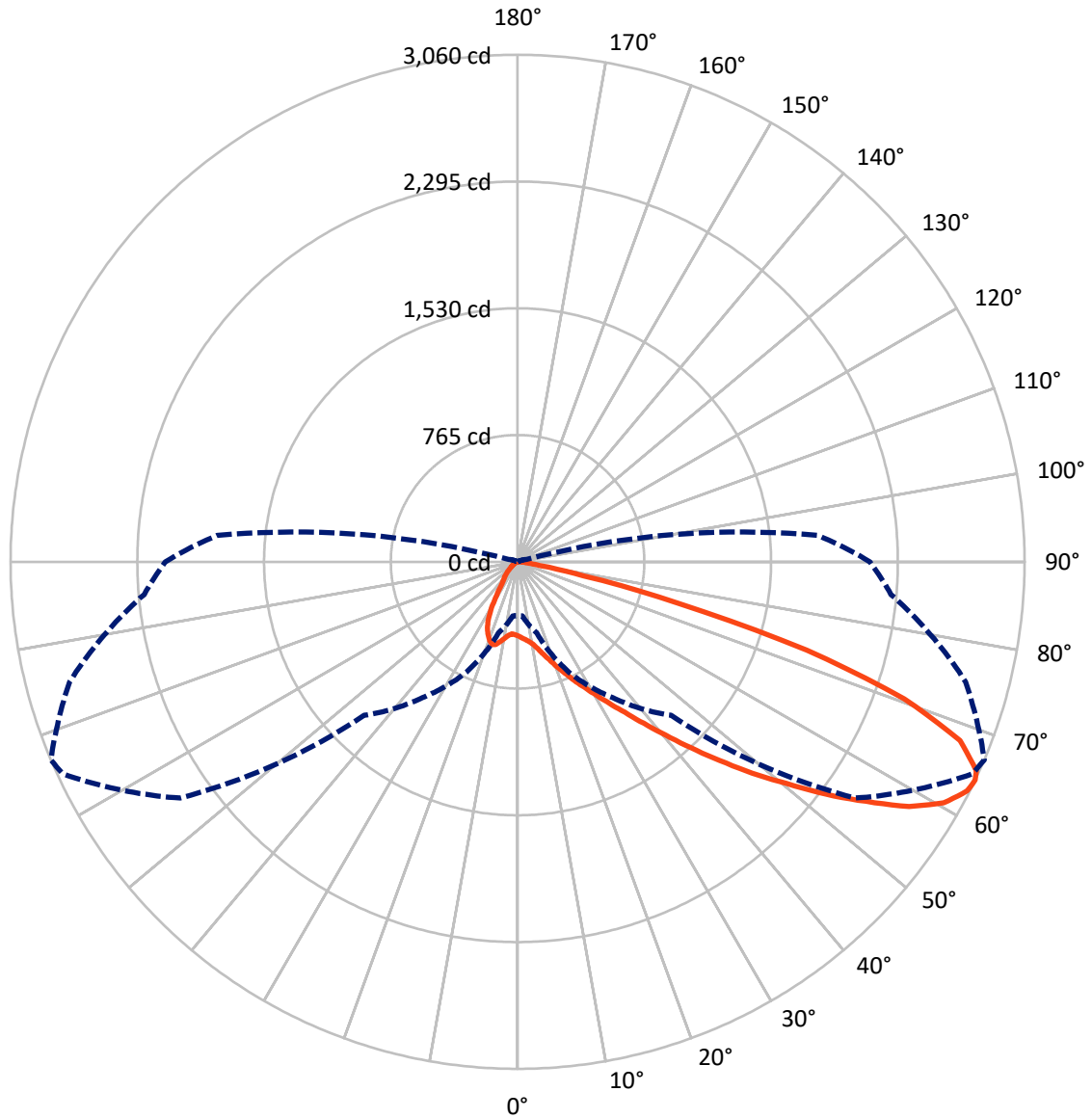
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P594067  
CATALOG NUMBER: ISC-PA1B-740-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P594067  
 CATALOG NUMBER: ISC-PA1B-740-U-T2U-HSS

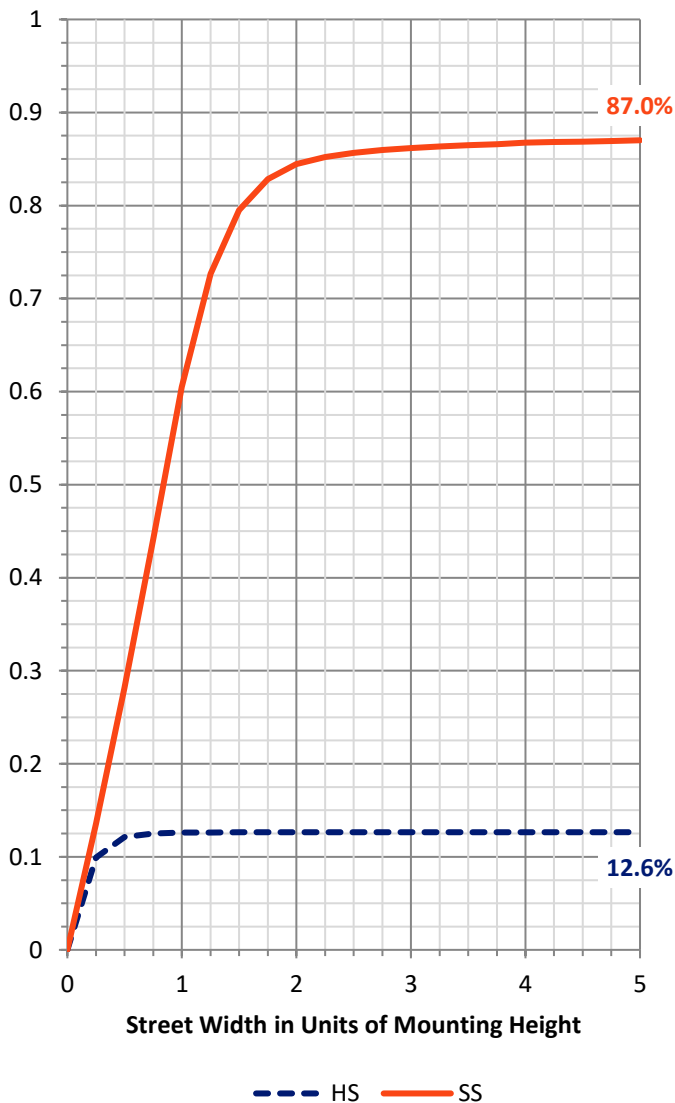
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 492.9    | 0.0    | 492.9  |
|                    | % Fixture | 12.8     | 0.0    | 12.8   |
| <b>Street Side</b> | Lumens    | 3360.1   | 0.0    | 3360.1 |
|                    | % Fixture | 87.2     | 0.0    | 87.2   |
| <b>Total</b>       | Lumens    | 3853.0   | 0.0    | 3853.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.5   | 1.1       |
| 10°-20°   | 125.4  | 3.3       |
| 20°-30°   | 227.4  | 5.9       |
| 30°-40°   | 435.7  | 11.3      |
| 40°-50°   | 803.0  | 20.8      |
| 50°-60°   | 1037.1 | 26.9      |
| 60°-70°   | 849.5  | 22.0      |
| 70°-80°   | 312.3  | 8.1       |
| 80°-90°   | 20.1   | 0.5       |
| 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°    | 3853.0 | 100.0     |
| 0°-180°   | 3853.0 | 100.0     |

**Coefficient of Utilization**

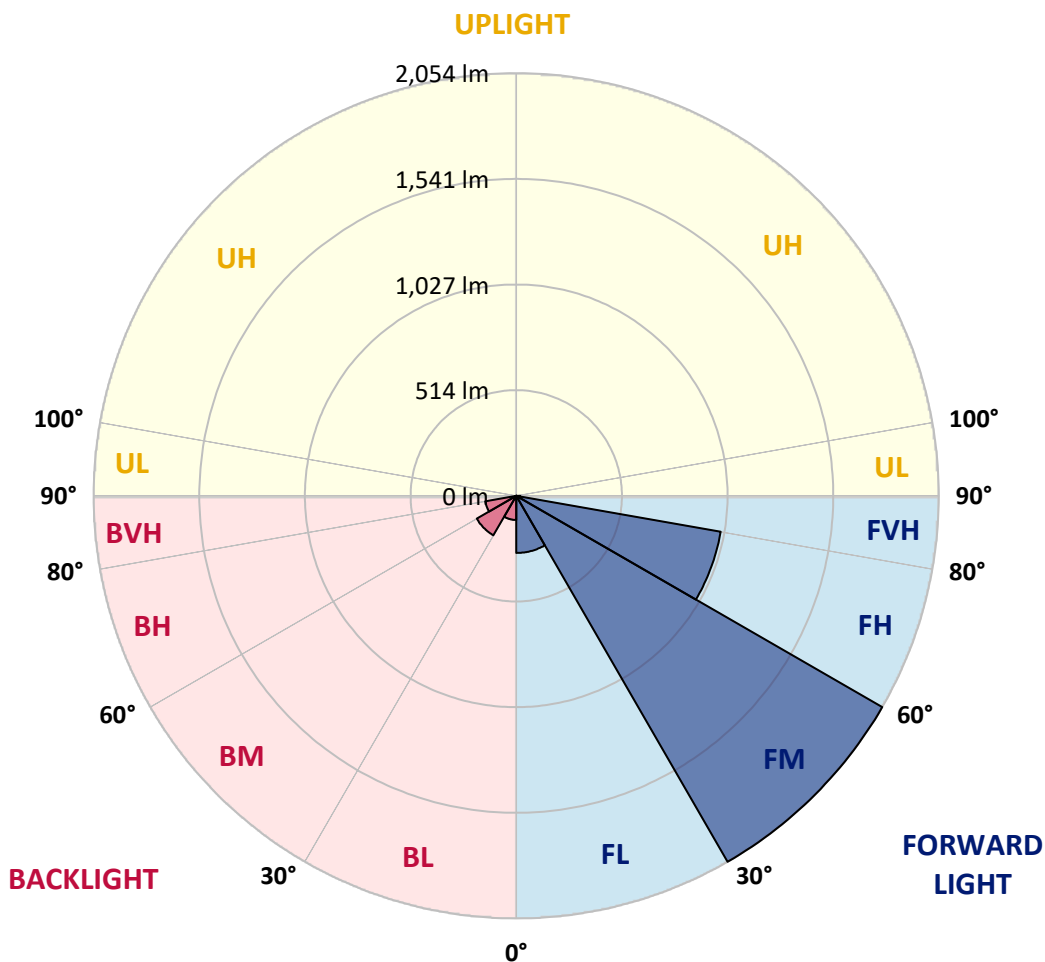


REPORT NUMBER: P594067  
 CATALOG NUMBER: ISC-PA1B-740-U-T2U-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 277.8  | 7.2       |                         |      |         |
| FM (30°-60°)   | 2054.2 | 53.3      |                         |      |         |
| FH (60°-80°)   | 1008.9 | 26.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 19.2   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 117.5  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 221.6  | 5.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 152.9  | 4.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.9    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type II Short





REPORT NUMBER: P594067  
 CATALOG NUMBER: ISC-PA1B-740-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  | 447.7  |
| 2.5°  | 463.6  | 463.6  | 466.2  | 464.9  | 464.9  | 462.3  | 458.3  | 459.6  | 458.3  | 457.0  | 453.0  |
| 5°    | 455.6  | 457.0  | 458.3  | 460.9  | 466.2  | 468.9  | 468.9  | 470.2  | 470.2  | 468.9  | 463.6  |
| 7.5°  | 451.7  | 454.3  | 457.0  | 459.6  | 466.2  | 470.2  | 476.8  | 484.8  | 484.8  | 486.1  | 480.8  |
| 10°   | 466.2  | 468.9  | 472.9  | 476.8  | 483.5  | 490.1  | 495.4  | 504.7  | 504.7  | 507.3  | 506.0  |
| 12.5° | 496.7  | 496.7  | 498.0  | 500.7  | 510.0  | 517.9  | 527.2  | 535.1  | 536.4  | 537.8  | 533.8  |
| 15°   | 533.8  | 533.8  | 535.1  | 535.1  | 540.4  | 552.3  | 569.6  | 577.5  | 576.2  | 574.9  | 566.9  |
| 17.5° | 576.2  | 576.2  | 576.2  | 577.5  | 580.2  | 586.8  | 606.6  | 622.5  | 621.2  | 619.9  | 604.0  |
| 20°   | 615.9  | 618.6  | 621.2  | 622.5  | 625.2  | 630.5  | 651.7  | 670.2  | 674.2  | 668.9  | 641.1  |
| 22.5° | 661.0  | 662.3  | 663.6  | 667.6  | 674.2  | 676.8  | 698.0  | 725.9  | 729.8  | 723.2  | 686.1  |
| 25°   | 706.0  | 708.6  | 712.6  | 717.9  | 724.5  | 737.8  | 752.3  | 789.4  | 793.4  | 785.5  | 735.1  |
| 27.5° | 805.3  | 804.0  | 792.1  | 782.8  | 784.1  | 793.4  | 813.3  | 853.0  | 857.0  | 849.0  | 784.1  |
| 30°   | 974.9  | 959.0  | 936.5  | 895.4  | 855.7  | 859.6  | 887.5  | 925.9  | 932.5  | 921.9  | 838.4  |
| 32.5° | 1215.9 | 1200.0 | 1144.4 | 1054.3 | 966.9  | 937.8  | 973.5  | 1010.6 | 1018.6 | 1006.7 | 902.0  |
| 35°   | 1450.4 | 1446.4 | 1393.4 | 1284.8 | 1136.5 | 1055.7 | 1064.9 | 1112.6 | 1115.3 | 1100.7 | 981.5  |
| 37.5° | 1740.5 | 1725.9 | 1653.0 | 1531.2 | 1356.3 | 1212.0 | 1185.5 | 1230.5 | 1237.1 | 1219.9 | 1078.2 |
| 40°   | 1932.5 | 1927.2 | 1883.5 | 1797.4 | 1609.3 | 1427.9 | 1332.5 | 1376.2 | 1374.9 | 1349.7 | 1189.5 |
| 42.5° | 2043.8 | 2046.4 | 2043.8 | 2002.7 | 1895.4 | 1687.5 | 1527.2 | 1529.9 | 1533.8 | 1507.3 | 1317.9 |
| 45°   | 2119.3 | 2119.3 | 2123.3 | 2156.4 | 2115.3 | 1997.4 | 1764.3 | 1704.7 | 1710.0 | 1668.9 | 1451.7 |
| 47.5° | 2118.0 | 2125.9 | 2147.1 | 2223.9 | 2279.6 | 2286.2 | 2061.0 | 1908.7 | 1906.0 | 1843.8 | 1589.5 |
| 50°   | 1974.9 | 1969.6 | 2057.0 | 2229.2 | 2396.1 | 2524.6 | 2341.8 | 2124.6 | 2102.1 | 2025.2 | 1732.5 |
| 52.5° | 1653.0 | 1670.3 | 1816.0 | 2069.0 | 2423.9 | 2686.2 | 2584.2 | 2360.4 | 2331.2 | 2205.4 | 1858.4 |
| 55°   | 1372.2 | 1390.8 | 1532.5 | 1780.2 | 2272.9 | 2743.2 | 2747.1 | 2610.7 | 2552.4 | 2361.7 | 1988.2 |
| 57.5° | 1030.5 | 1066.3 | 1275.5 | 1508.7 | 1941.8 | 2601.4 | 2805.4 | 2850.4 | 2786.9 | 2512.7 | 2094.1 |
| 60°   | 658.3  | 679.5  | 913.9  | 1201.4 | 1573.6 | 2230.6 | 2793.5 | 2989.5 | 2955.1 | 2650.4 | 2182.9 |
| 62.5° | 430.5  | 442.4  | 604.0  | 904.7  | 1198.7 | 1680.9 | 2651.8 | 3045.2 | 3045.2 | 2743.2 | 2249.1 |
| 64°   | 324.5  | 327.2  | 442.4  | 735.1  | 1000.0 | 1310.0 | 2484.9 | 3027.9 | 3059.7 | 2798.8 | 2262.3 |
| 65°   | 257.0  | 258.3  | 345.7  | 610.6  | 898.0  | 1074.2 | 2339.2 | 2990.8 | 3042.5 | 2820.0 | 2270.3 |
| 67.5° | 180.1  | 184.1  | 223.8  | 352.3  | 643.7  | 619.9  | 1733.8 | 2816.0 | 2879.6 | 2826.6 | 2259.7 |
| 70°   | 156.3  | 161.6  | 188.1  | 230.5  | 459.6  | 360.3  | 921.9  | 2400.1 | 2475.6 | 2633.2 | 2103.4 |
| 72.5° | 119.2  | 125.8  | 157.6  | 194.7  | 323.2  | 243.7  | 356.3  | 1704.7 | 1823.9 | 2035.8 | 1736.5 |
| 75°   | 86.1   | 88.7   | 116.6  | 158.9  | 226.5  | 188.1  | 153.6  | 879.5  | 1000.0 | 1201.4 | 1079.5 |
| 77.5° | 54.3   | 58.3   | 79.5   | 119.2  | 202.7  | 143.1  | 91.4   | 320.5  | 404.0  | 523.2  | 471.5  |
| 80°   | 31.8   | 33.1   | 47.7   | 82.1   | 136.4  | 106.0  | 58.3   | 113.9  | 137.8  | 194.7  | 125.8  |
| 82.5° | 18.5   | 19.9   | 30.5   | 55.6   | 88.7   | 82.1   | 37.1   | 58.3   | 64.9   | 74.2   | 26.5   |
| 85°   | 6.6    | 6.6    | 21.2   | 33.1   | 47.7   | 41.1   | 21.2   | 30.5   | 33.1   | 41.1   | 7.9    |
| 87.5° | 1.3    | 1.3    | 10.6   | 17.2   | 17.2   | 6.6    | 10.6   | 13.2   | 15.9   | 22.5   | 2.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P594067  
 CATALOG NUMBER: ISC-PA1B-740-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 447.7  | 447.7  | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 |
| 2.5°  | 451.7  | 447.7  | 443.7 | 438.4 | 434.5 | 426.5 | 422.5 | 417.2 | 415.9 | 413.3 | 411.9 |
| 5°    | 462.3  | 455.6  | 446.4 | 433.1 | 425.2 | 413.3 | 405.3 | 397.4 | 396.0 | 393.4 | 392.1 |
| 7.5°  | 476.8  | 470.2  | 458.3 | 443.7 | 430.5 | 418.6 | 409.3 | 397.4 | 385.4 | 376.2 | 376.2 |
| 10°   | 500.7  | 492.7  | 476.8 | 463.6 | 447.7 | 422.5 | 378.8 | 339.1 | 313.9 | 298.0 | 292.7 |
| 12.5° | 529.8  | 519.2  | 502.0 | 486.1 | 455.6 | 376.2 | 308.6 | 257.0 | 214.6 | 194.7 | 190.7 |
| 15°   | 560.3  | 551.0  | 533.8 | 510.0 | 418.6 | 313.9 | 225.2 | 145.7 | 104.6 | 86.1  | 88.7  |
| 17.5° | 593.4  | 580.2  | 560.3 | 512.6 | 368.2 | 234.4 | 120.5 | 74.2  | 63.6  | 60.9  | 60.9  |
| 20°   | 627.8  | 610.6  | 590.8 | 483.5 | 303.3 | 135.1 | 68.9  | 55.6  | 51.7  | 47.7  | 49.0  |
| 22.5° | 664.9  | 643.7  | 613.3 | 439.8 | 217.2 | 72.9  | 53.0  | 45.0  | 39.7  | 38.4  | 38.4  |
| 25°   | 704.7  | 674.2  | 635.8 | 389.4 | 125.8 | 55.6  | 43.7  | 35.8  | 31.8  | 30.5  | 29.1  |
| 27.5° | 747.0  | 708.6  | 641.1 | 323.2 | 71.5  | 46.4  | 34.4  | 27.8  | 23.8  | 22.5  | 22.5  |
| 30°   | 785.5  | 743.1  | 629.2 | 239.7 | 54.3  | 38.4  | 27.8  | 21.2  | 18.5  | 18.5  | 18.5  |
| 32.5° | 837.1  | 781.5  | 592.1 | 149.7 | 43.7  | 30.5  | 21.2  | 17.2  | 14.6  | 14.6  | 14.6  |
| 35°   | 904.7  | 838.4  | 555.0 | 79.5  | 35.8  | 25.2  | 17.2  | 13.2  | 11.9  | 11.9  | 11.9  |
| 37.5° | 997.4  | 913.9  | 521.9 | 50.3  | 29.1  | 19.9  | 13.2  | 10.6  | 9.3   | 9.3   | 9.3   |
| 40°   | 1092.8 | 1004.0 | 475.5 | 38.4  | 23.8  | 15.9  | 10.6  | 7.9   | 6.6   | 6.6   | 7.9   |
| 42.5° | 1212.0 | 1108.7 | 422.5 | 33.1  | 19.9  | 13.2  | 7.9   | 5.3   | 4.0   | 5.3   | 5.3   |
| 45°   | 1332.5 | 1218.6 | 348.4 | 27.8  | 17.2  | 10.6  | 5.3   | 2.6   | 2.6   | 4.0   | 4.0   |
| 47.5° | 1457.0 | 1335.2 | 270.2 | 23.8  | 14.6  | 7.9   | 4.0   | 1.3   | 1.3   | 2.6   | 2.6   |
| 50°   | 1585.5 | 1450.4 | 201.3 | 21.2  | 11.9  | 6.6   | 2.6   | 1.3   | 0.0   | 1.3   | 1.3   |
| 52.5° | 1714.0 | 1561.7 | 156.3 | 18.5  | 10.6  | 5.3   | 1.3   | 0.0   | 0.0   | 0.0   | 1.3   |
| 55°   | 1833.2 | 1662.3 | 124.5 | 15.9  | 9.3   | 4.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 1933.9 | 1736.5 | 99.3  | 14.6  | 7.9   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 2029.2 | 1794.8 | 76.8  | 11.9  | 6.6   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 2096.8 | 1817.3 | 62.3  | 10.6  | 5.3   | 2.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 64°   | 2125.9 | 1819.9 | 54.3  | 9.3   | 5.3   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 2143.1 | 1812.0 | 50.3  | 9.3   | 5.3   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2147.1 | 1768.3 | 38.4  | 7.9   | 4.0   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2030.5 | 1616.0 | 27.8  | 5.3   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1696.8 | 1234.5 | 18.5  | 4.0   | 2.6   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1059.6 | 533.8  | 10.6  | 4.0   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 438.4  | 161.6  | 6.6   | 2.6   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 100.7  | 38.4   | 2.6   | 1.3   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 23.8   | 6.6    | 1.3   | 1.3   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 5.3    | 1.3    | 1.3   | 1.3   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.6    | 1.3    | 1.3   | 1.3   | 1.3   | 1.3   | 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)