

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: P594516

Luminaire Tested: **ISS-PA1A-AMB-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-AMB-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

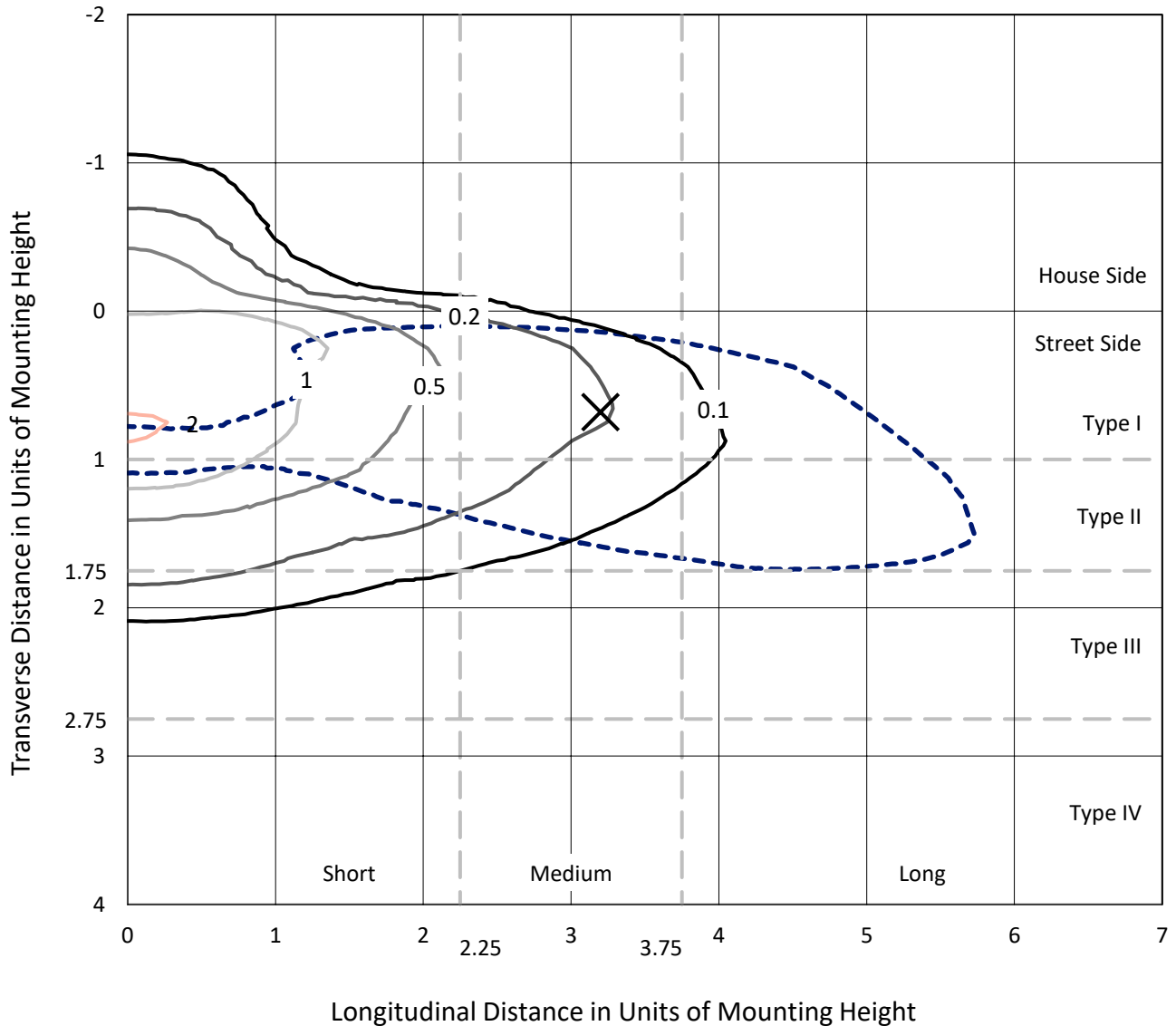
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

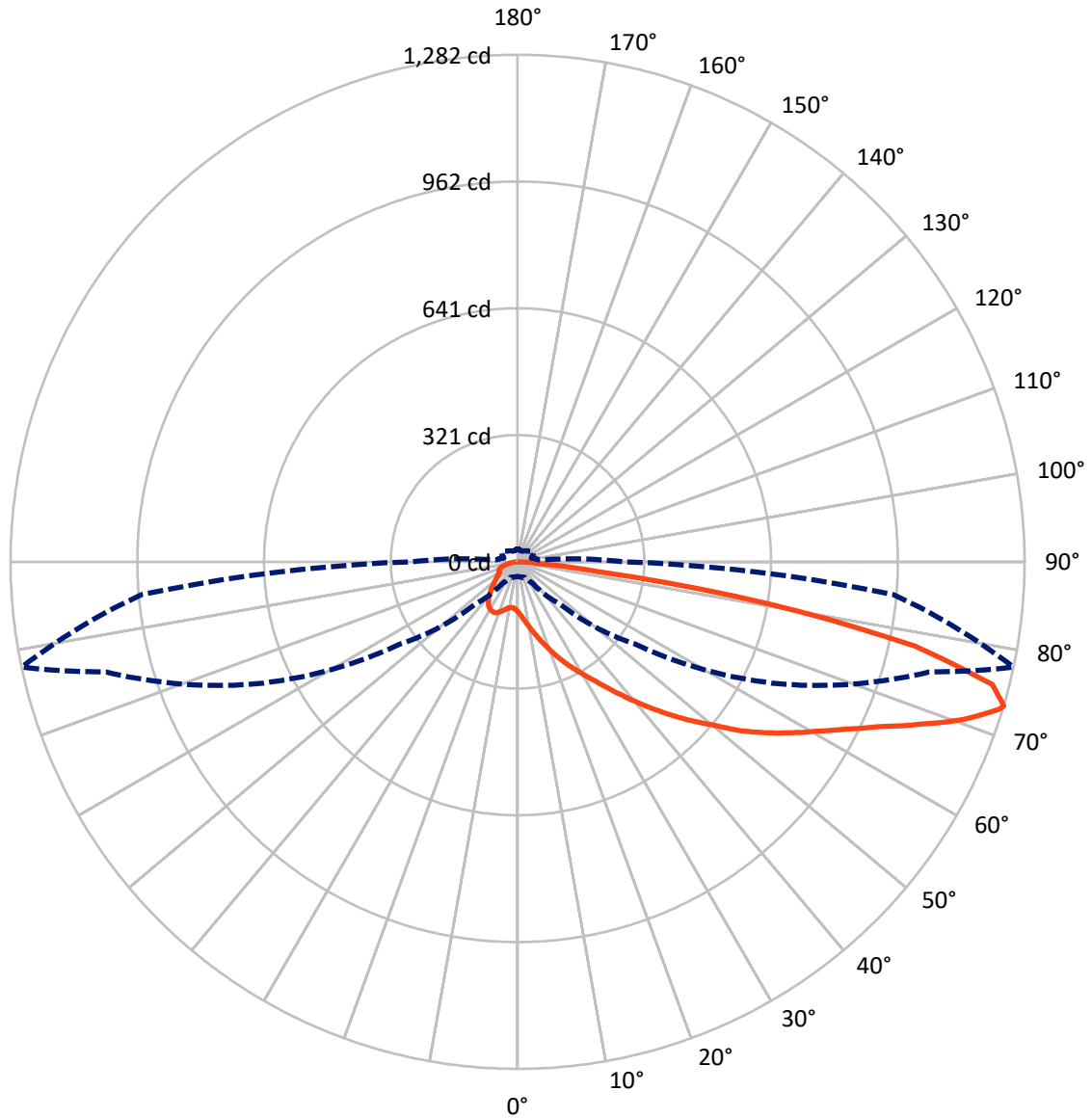
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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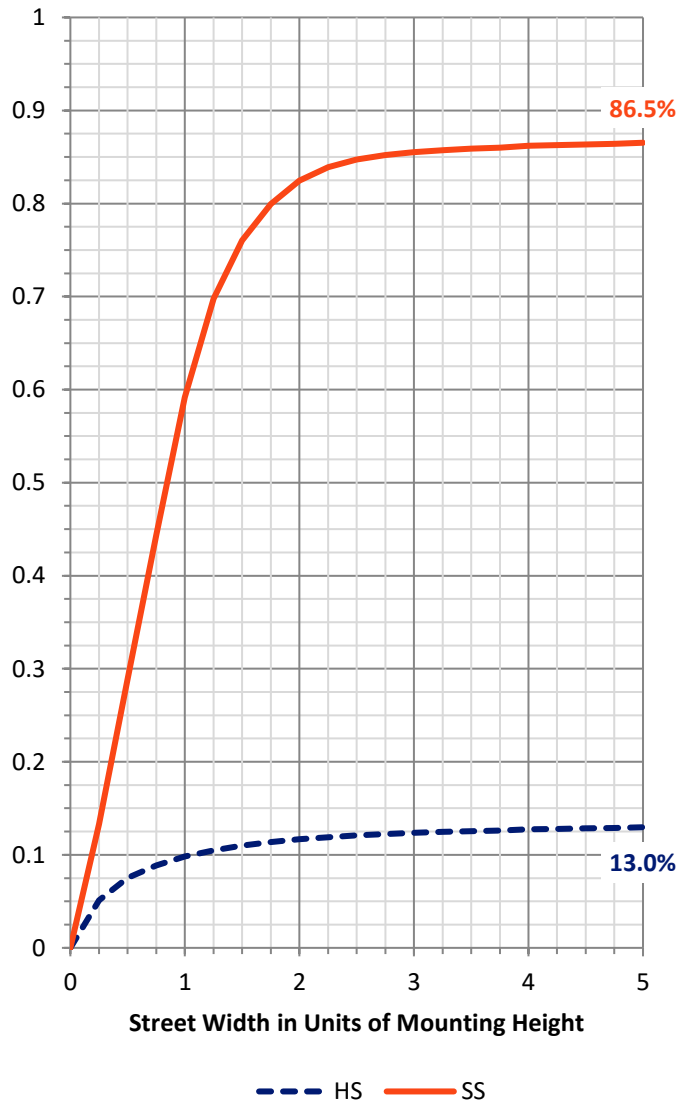
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 176.5 | 0.0 | 176.5 |
| | % Fixture | 13.2 | 0.0 | 13.2 |
| Street Side | Lumens | 1162.4 | 0.0 | 1162.4 |
| | % Fixture | 86.8 | 0.0 | 86.8 |
| Total | Lumens | 1339.0 | 0.0 | 1339.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 14.9 | 1.1 |
| 10°-20° | 53.0 | 4.0 |
| 20°-30° | 94.2 | 7.0 |
| 30°-40° | 161.4 | 12.1 |
| 40°-50° | 250.5 | 18.7 |
| 50°-60° | 279.1 | 20.8 |
| 60°-70° | 264.5 | 19.8 |
| 70°-80° | 190.3 | 14.2 |
| 80°-90° | 31.1 | 2.3 |
| 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° | 1339.0 | 100.0 |
| 0°-180° | 1339.0 | 100.0 |

Coefficient of Utilization

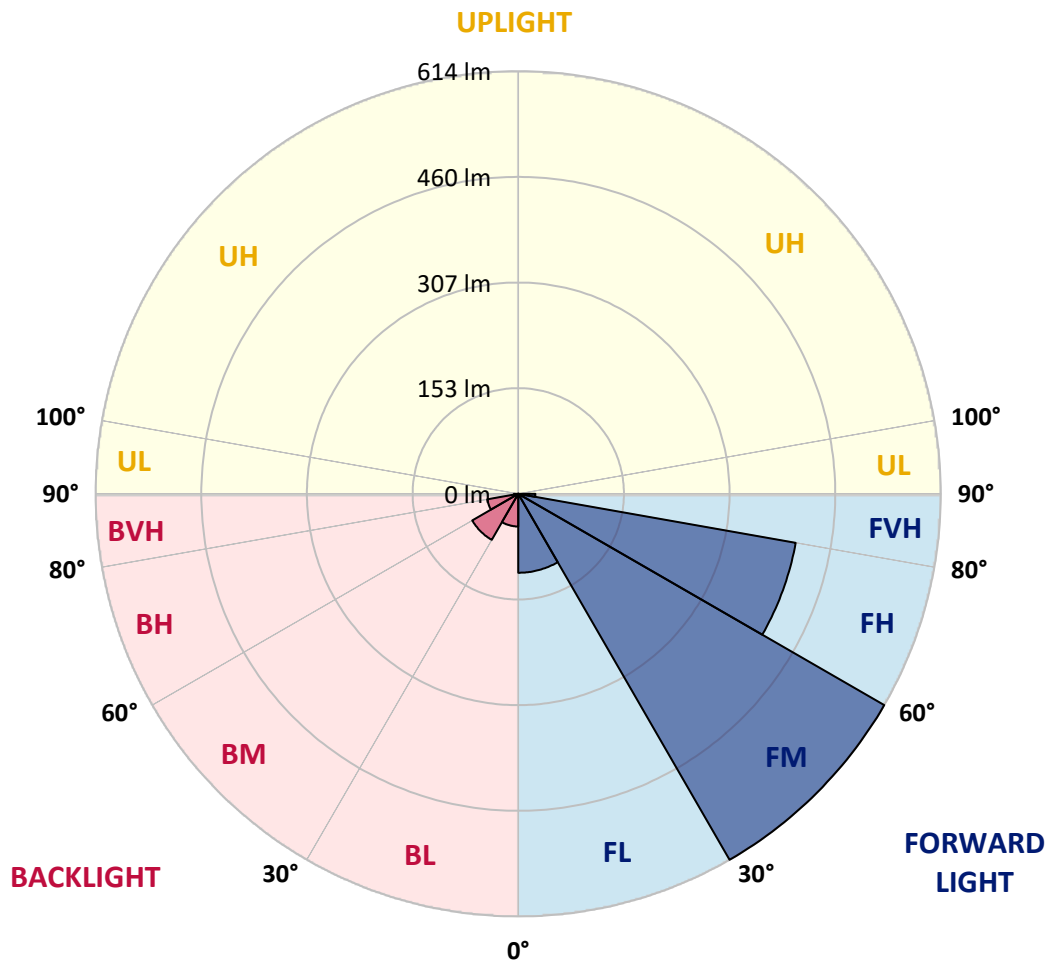


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 114.7 | 8.6 | | | |
| FM (30°-60°) | 613.8 | 45.8 | | | |
| FH (60°-80°) | 409.1 | 30.6 | | | G0/660 |
| FVH (80°-90°) | 24.9 | 1.9 | | | G1/100 |
| BL (0°-30°) | 47.5 | 3.5 | B0/110 | | |
| BM (30°-60°) | 77.1 | 5.8 | B0/220 | | |
| BH (60°-80°) | 45.7 | 3.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 6.2 | 0.5 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| 0° | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 |
| 2.5° | 170.4 | 169.4 | 166.4 | 164.4 | 161.4 | 156.4 | 148.4 | 142.5 | 135.5 | 133.5 | 129.5 |
| 5° | 221.2 | 220.2 | 217.2 | 213.2 | 207.2 | 195.3 | 179.3 | 162.4 | 147.4 | 143.5 | 133.5 |
| 7.5° | 250.1 | 250.1 | 248.1 | 244.1 | 238.1 | 226.1 | 209.2 | 188.3 | 161.4 | 155.4 | 139.5 |
| 10° | 266.0 | 266.0 | 264.0 | 262.0 | 259.0 | 249.1 | 234.1 | 211.2 | 178.3 | 168.4 | 146.4 |
| 12.5° | 271.0 | 271.0 | 273.0 | 274.0 | 274.0 | 267.0 | 253.0 | 231.1 | 197.3 | 184.3 | 156.4 |
| 15° | 261.0 | 262.0 | 266.0 | 274.0 | 281.9 | 279.9 | 270.0 | 250.1 | 215.2 | 201.2 | 167.4 |
| 17.5° | 257.0 | 258.0 | 263.0 | 270.0 | 282.9 | 290.9 | 285.9 | 268.0 | 234.1 | 220.2 | 181.3 |
| 20° | 261.0 | 261.0 | 267.0 | 276.0 | 285.9 | 295.9 | 300.9 | 286.9 | 255.0 | 240.1 | 197.3 |
| 22.5° | 268.0 | 269.0 | 274.0 | 283.9 | 296.9 | 305.8 | 310.8 | 303.9 | 275.0 | 262.0 | 215.2 |
| 25° | 281.9 | 281.9 | 284.9 | 292.9 | 307.8 | 320.8 | 322.8 | 317.8 | 297.9 | 284.9 | 235.1 |
| 27.5° | 306.8 | 306.8 | 303.9 | 304.8 | 318.8 | 337.7 | 338.7 | 329.8 | 319.8 | 306.8 | 256.0 |
| 30° | 368.6 | 363.6 | 348.7 | 333.7 | 330.7 | 352.7 | 357.6 | 341.7 | 342.7 | 331.7 | 276.0 |
| 32.5° | 445.3 | 442.3 | 423.4 | 388.5 | 360.6 | 368.6 | 381.6 | 359.6 | 367.6 | 358.6 | 299.9 |
| 35° | 549.9 | 545.9 | 520.0 | 463.2 | 410.4 | 391.5 | 404.5 | 380.6 | 396.5 | 391.5 | 324.8 |
| 37.5° | 628.6 | 626.6 | 599.7 | 547.9 | 477.2 | 432.4 | 431.4 | 405.5 | 426.4 | 427.4 | 352.7 |
| 40° | 676.4 | 673.5 | 655.5 | 616.7 | 551.9 | 482.2 | 464.2 | 435.4 | 459.3 | 468.2 | 382.6 |
| 42.5° | 684.4 | 682.4 | 676.4 | 657.5 | 613.7 | 545.9 | 502.1 | 466.2 | 494.1 | 511.1 | 413.4 |
| 45° | 670.5 | 670.5 | 670.5 | 667.5 | 651.5 | 606.7 | 547.9 | 499.1 | 533.0 | 556.9 | 446.3 |
| 47.5° | 632.6 | 636.6 | 647.6 | 661.5 | 662.5 | 648.5 | 600.7 | 533.0 | 569.8 | 602.7 | 480.2 |
| 50° | 556.9 | 564.9 | 592.8 | 629.6 | 655.5 | 668.5 | 649.5 | 569.8 | 608.7 | 651.5 | 520.0 |
| 52.5° | 425.4 | 430.4 | 487.2 | 559.9 | 626.6 | 666.5 | 692.4 | 617.7 | 654.5 | 710.3 | 561.9 |
| 55° | 348.7 | 349.7 | 378.6 | 456.3 | 563.9 | 650.5 | 719.3 | 662.5 | 693.4 | 763.1 | 604.7 |
| 57.5° | 328.8 | 328.8 | 336.7 | 371.6 | 461.3 | 612.7 | 731.2 | 710.3 | 730.2 | 815.9 | 651.5 |
| 60° | 300.9 | 299.9 | 310.8 | 333.7 | 388.5 | 542.9 | 725.3 | 750.2 | 767.1 | 869.7 | 701.3 |
| 62.5° | 239.1 | 244.1 | 261.0 | 298.9 | 340.7 | 457.3 | 703.3 | 780.1 | 808.9 | 931.5 | 760.1 |
| 65° | 157.4 | 163.4 | 184.3 | 232.1 | 299.9 | 392.5 | 656.5 | 805.0 | 856.8 | 1005.2 | 822.9 |
| 67.5° | 80.7 | 83.7 | 104.6 | 151.4 | 224.2 | 336.7 | 580.8 | 816.9 | 919.5 | 1096.9 | 888.6 |
| 70° | 45.8 | 46.8 | 54.8 | 79.7 | 141.5 | 259.0 | 489.2 | 809.9 | 989.3 | 1195.5 | 949.4 |
| 72.5° | 37.9 | 38.9 | 39.8 | 46.8 | 74.7 | 167.4 | 387.5 | 747.2 | 1066.0 | 1274.2 | 965.3 |
| 73° | 36.9 | 37.9 | 39.8 | 43.8 | 65.8 | 151.4 | 362.6 | 730.2 | 1076.9 | 1282.2 | 954.4 |
| 75° | 33.9 | 33.9 | 35.9 | 37.9 | 42.8 | 91.7 | 260.0 | 650.5 | 1084.9 | 1239.3 | 869.7 |
| 77.5° | 29.9 | 29.9 | 31.9 | 32.9 | 34.9 | 50.8 | 145.4 | 506.1 | 983.3 | 1027.1 | 652.5 |
| 80° | 24.9 | 24.9 | 25.9 | 27.9 | 30.9 | 35.9 | 61.8 | 338.7 | 701.3 | 647.6 | 326.8 |
| 82.5° | 17.9 | 17.9 | 21.9 | 22.9 | 25.9 | 25.9 | 27.9 | 143.5 | 264.0 | 207.2 | 69.7 |
| 85° | 10.0 | 11.0 | 15.9 | 17.9 | 20.9 | 13.0 | 14.9 | 50.8 | 66.7 | 48.8 | 10.0 |
| 87.5° | 1.0 | 2.0 | 6.0 | 7.0 | 8.0 | 3.0 | 5.0 | 9.0 | 12.0 | 11.0 | 3.0 |
| 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° | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 | 126.5 |
| 2.5° | 126.5 | 123.5 | 119.5 | 116.6 | 113.6 | 111.6 | 110.6 | 109.6 | 109.6 | 108.6 | 108.6 |
| 5° | 128.5 | 122.5 | 115.6 | 111.6 | 109.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 | 108.6 |
| 7.5° | 130.5 | 122.5 | 113.6 | 110.6 | 110.6 | 110.6 | 111.6 | 112.6 | 112.6 | 113.6 | 113.6 |
| 10° | 133.5 | 123.5 | 114.6 | 112.6 | 113.6 | 114.6 | 116.6 | 117.6 | 118.6 | 118.6 | 118.6 |
| 12.5° | 139.5 | 127.5 | 116.6 | 115.6 | 117.6 | 118.6 | 120.5 | 121.5 | 121.5 | 122.5 | 122.5 |
| 15° | 147.4 | 131.5 | 121.5 | 120.5 | 121.5 | 121.5 | 121.5 | 121.5 | 120.5 | 120.5 | 120.5 |
| 17.5° | 156.4 | 138.5 | 125.5 | 123.5 | 122.5 | 121.5 | 118.6 | 116.6 | 115.6 | 115.6 | 114.6 |
| 20° | 168.4 | 145.4 | 129.5 | 125.5 | 122.5 | 116.6 | 112.6 | 108.6 | 105.6 | 105.6 | 105.6 |
| 22.5° | 181.3 | 153.4 | 132.5 | 124.5 | 116.6 | 109.6 | 103.6 | 98.6 | 95.6 | 94.6 | 92.6 |
| 25° | 196.3 | 161.4 | 132.5 | 120.5 | 109.6 | 100.6 | 92.6 | 87.7 | 82.7 | 81.7 | 80.7 |
| 27.5° | 209.2 | 166.4 | 129.5 | 113.6 | 101.6 | 90.7 | 81.7 | 75.7 | 72.7 | 70.7 | 70.7 |
| 30° | 224.2 | 171.4 | 125.5 | 106.6 | 91.7 | 79.7 | 70.7 | 65.8 | 63.8 | 61.8 | 61.8 |
| 32.5° | 238.1 | 173.3 | 119.5 | 97.6 | 81.7 | 69.7 | 61.8 | 59.8 | 57.8 | 54.8 | 54.8 |
| 35° | 253.0 | 173.3 | 111.6 | 87.7 | 71.7 | 61.8 | 58.8 | 55.8 | 52.8 | 49.8 | 48.8 |
| 37.5° | 268.0 | 170.4 | 101.6 | 77.7 | 62.8 | 57.8 | 58.8 | 51.8 | 48.8 | 47.8 | 46.8 |
| 40° | 282.9 | 165.4 | 91.7 | 66.7 | 55.8 | 56.8 | 56.8 | 48.8 | 46.8 | 46.8 | 45.8 |
| 42.5° | 297.9 | 156.4 | 80.7 | 58.8 | 51.8 | 55.8 | 53.8 | 48.8 | 45.8 | 44.8 | 44.8 |
| 45° | 312.8 | 146.4 | 70.7 | 51.8 | 49.8 | 52.8 | 52.8 | 48.8 | 44.8 | 44.8 | 44.8 |
| 47.5° | 327.8 | 135.5 | 61.8 | 47.8 | 46.8 | 46.8 | 48.8 | 46.8 | 44.8 | 43.8 | 43.8 |
| 50° | 342.7 | 122.5 | 54.8 | 44.8 | 45.8 | 44.8 | 46.8 | 44.8 | 43.8 | 42.8 | 42.8 |
| 52.5° | 353.7 | 110.6 | 49.8 | 42.8 | 44.8 | 42.8 | 43.8 | 42.8 | 42.8 | 41.8 | 40.8 |
| 55° | 364.6 | 98.6 | 46.8 | 42.8 | 43.8 | 41.8 | 41.8 | 41.8 | 41.8 | 39.8 | 39.8 |
| 57.5° | 369.6 | 87.7 | 44.8 | 42.8 | 41.8 | 40.8 | 40.8 | 40.8 | 39.8 | 39.8 | 39.8 |
| 60° | 374.6 | 77.7 | 43.8 | 42.8 | 41.8 | 40.8 | 39.8 | 39.8 | 38.9 | 39.8 | 38.9 |
| 62.5° | 379.6 | 70.7 | 43.8 | 43.8 | 40.8 | 39.8 | 38.9 | 37.9 | 37.9 | 38.9 | 38.9 |
| 65° | 382.6 | 66.7 | 44.8 | 44.8 | 40.8 | 39.8 | 38.9 | 36.9 | 35.9 | 37.9 | 37.9 |
| 67.5° | 374.6 | 63.8 | 44.8 | 45.8 | 41.8 | 38.9 | 36.9 | 34.9 | 33.9 | 36.9 | 35.9 |
| 70° | 346.7 | 60.8 | 42.8 | 46.8 | 42.8 | 38.9 | 34.9 | 32.9 | 31.9 | 35.9 | 34.9 |
| 72.5° | 286.9 | 55.8 | 37.9 | 44.8 | 44.8 | 37.9 | 33.9 | 30.9 | 28.9 | 32.9 | 30.9 |
| 73° | 271.0 | 54.8 | 35.9 | 43.8 | 45.8 | 37.9 | 33.9 | 29.9 | 28.9 | 31.9 | 29.9 |
| 75° | 205.2 | 46.8 | 30.9 | 37.9 | 44.8 | 38.9 | 32.9 | 28.9 | 25.9 | 26.9 | 25.9 |
| 77.5° | 120.5 | 34.9 | 23.9 | 27.9 | 39.8 | 40.8 | 30.9 | 25.9 | 21.9 | 21.9 | 21.9 |
| 80° | 59.8 | 23.9 | 18.9 | 19.9 | 30.9 | 40.8 | 28.9 | 21.9 | 16.9 | 16.9 | 15.9 |
| 82.5° | 21.9 | 13.9 | 13.0 | 13.0 | 19.9 | 35.9 | 25.9 | 16.9 | 13.0 | 13.0 | 11.0 |
| 85° | 8.0 | 8.0 | 8.0 | 8.0 | 9.0 | 20.9 | 21.9 | 11.0 | 8.0 | 7.0 | 6.0 |
| 87.5° | 2.0 | 3.0 | 3.0 | 2.0 | 3.0 | 2.0 | 9.0 | 4.0 | 2.0 | 1.0 | 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)