

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: P299357

Luminaire Tested: **GLNA-AF-04-LED-E1-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-04-LED-E1-SLR-7050  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21032.2 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 225  
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: 25 FT



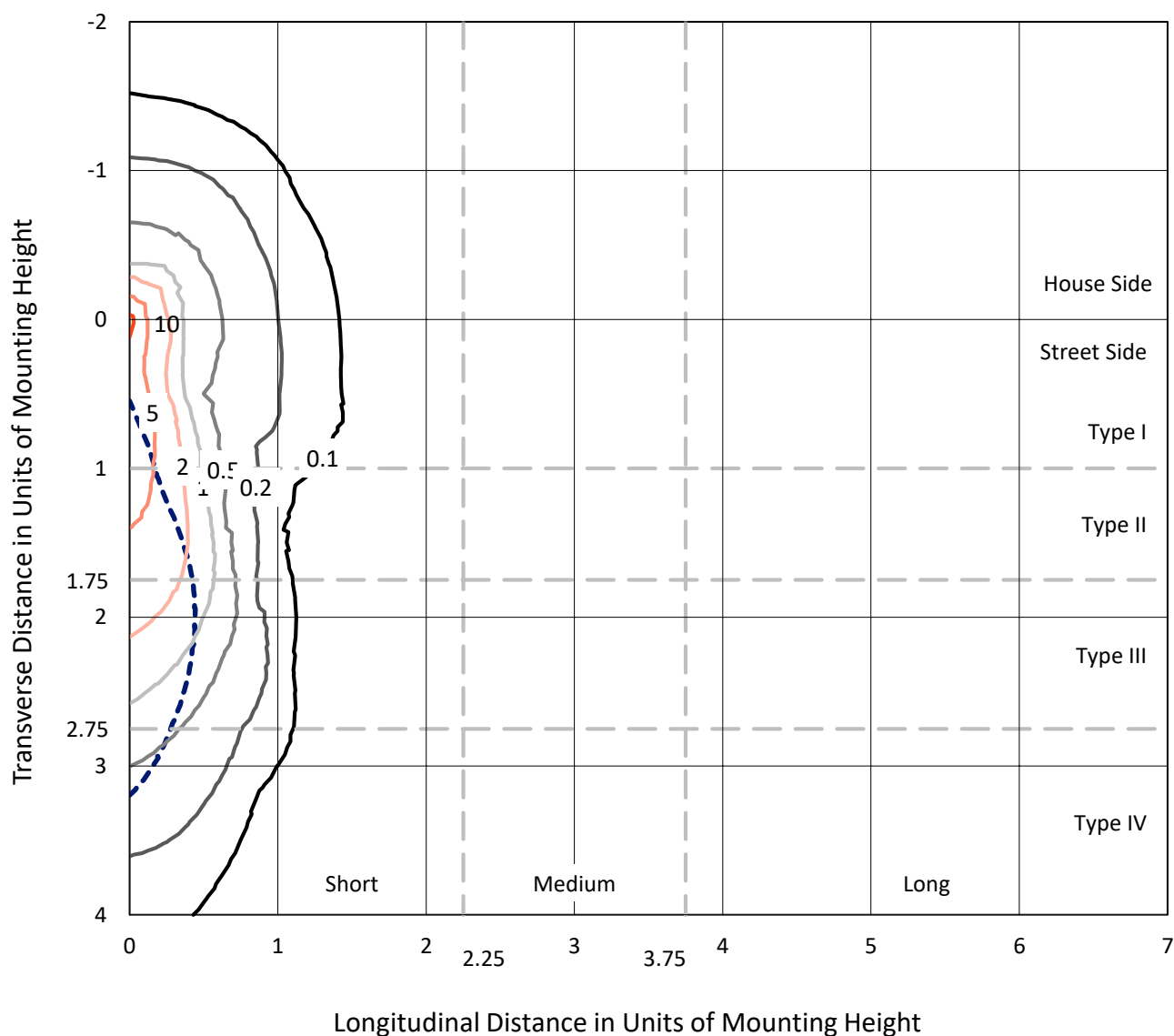
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

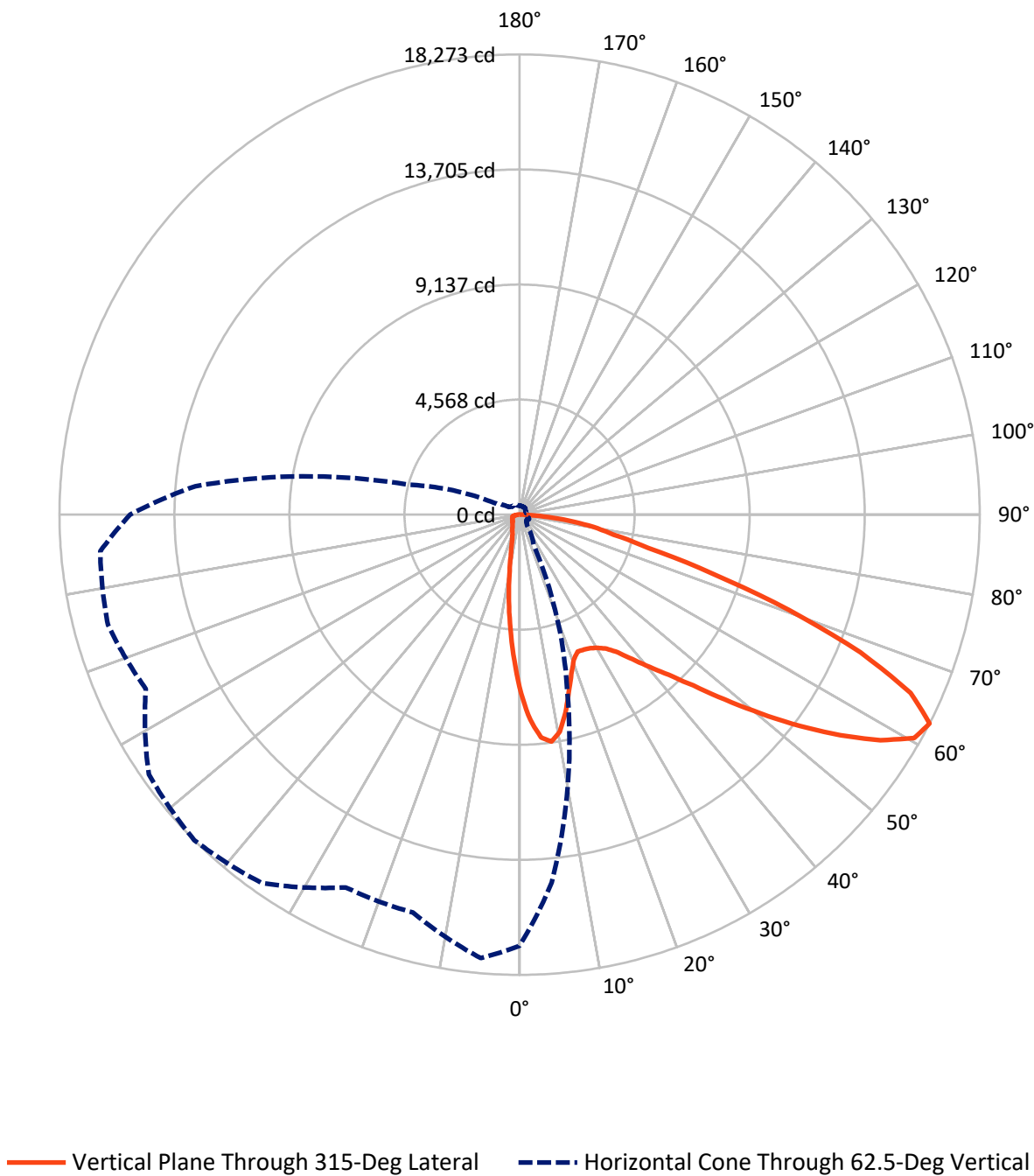


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3480.6   | 0.0    | 3480.6  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 17551.6  | 0.0    | 17551.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 21032.2  | 0.0    | 21032.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 517.3   | 2.5       |
| 10°-20°   | 948.5   | 4.5       |
| 20°-30°   | 1383.0  | 6.6       |
| 30°-40°   | 2130.0  | 10.1      |
| 40°-50°   | 3134.7  | 14.9      |
| 50°-60°   | 4598.0  | 21.9      |
| 60°-70°   | 5139.9  | 24.4      |
| 70°-80°   | 2516.4  | 12.0      |
| 80°-90°   | 664.4   | 3.2       |
| 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°    | 21032.2 | 100.0     |
| 0°-180°   | 21032.2 | 100.0     |

**Coefficient of Utilization**



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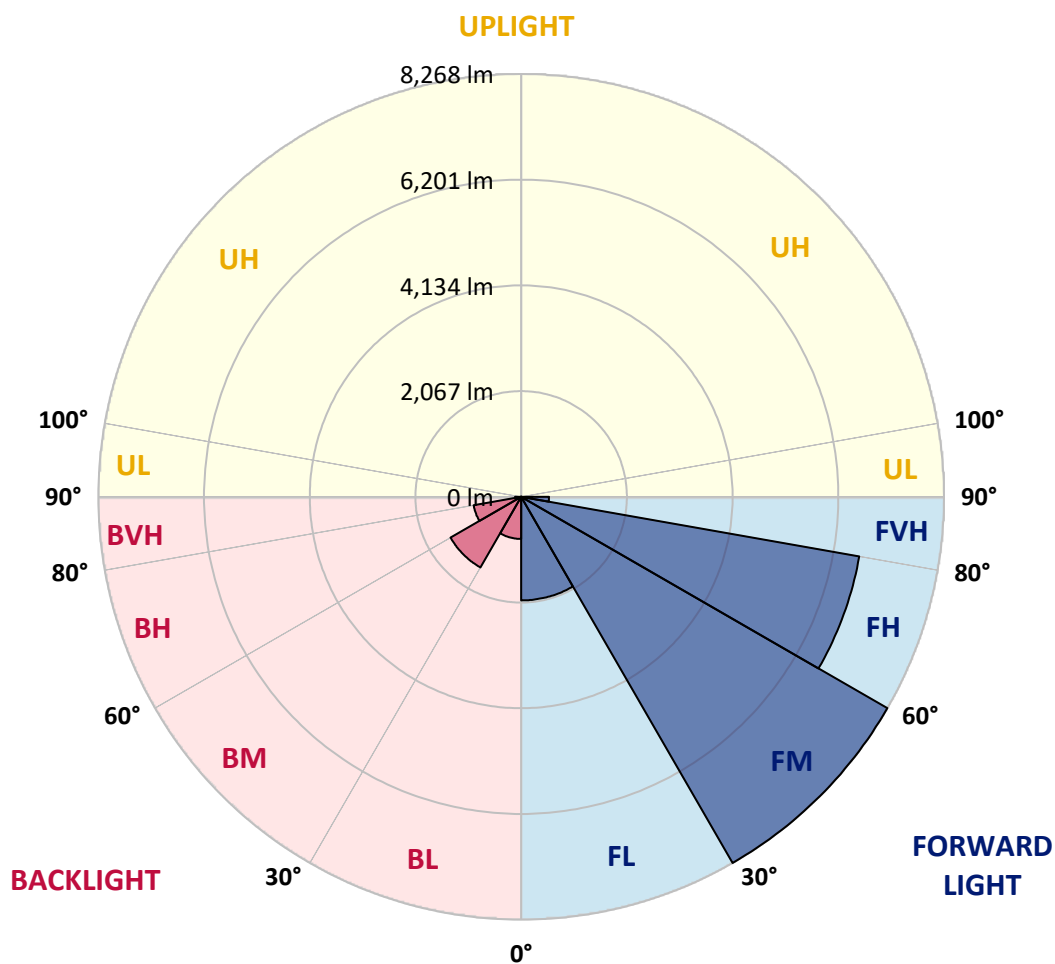
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2025.3 | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 8267.9 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 6712.7 | 31.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 545.6  | 2.6       |                         |      | G4/750  |
| BL   | (0°-30°)    | 823.4  | 3.9       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1594.8 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 943.6  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 118.8  | 0.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7105.9  | 7105.9  | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 |
| 2.5°  | 7383.1  | 7233.0  | 6983.1 | 6723.0 | 6564.8 | 6379.7 | 6235.1 | 6108.0 | 5853.6 | 5803.9 | 5849.0 |
| 5°    | 6942.8  | 6641.1  | 6170.3 | 5696.4 | 5380.7 | 5041.9 | 4778.4 | 4566.9 | 4244.2 | 4187.5 | 4255.8 |
| 7.5°  | 6236.5  | 5875.6  | 5253.7 | 4648.8 | 4202.6 | 3779.4 | 3495.2 | 3268.4 | 3016.4 | 2907.9 | 2914.5 |
| 10°   | 5627.1  | 5220.1  | 4484.7 | 3827.0 | 3461.6 | 3176.0 | 2936.6 | 2704.2 | 2448.7 | 2281.0 | 2234.8 |
| 12.5° | 5285.9  | 4817.9  | 3970.2 | 3382.9 | 3044.0 | 2743.7 | 2485.8 | 2237.3 | 1964.3 | 1793.1 | 1744.8 |
| 15°   | 5227.1  | 4718.1  | 3777.3 | 3098.6 | 2674.1 | 2294.0 | 1989.8 | 1712.3 | 1431.2 | 1292.6 | 1263.5 |
| 17.5° | 5482.6  | 4896.3  | 3714.7 | 2845.2 | 2326.2 | 1856.8 | 1483.3 | 1173.6 | 944.7  | 875.4  | 869.4  |
| 20°   | 5972.6  | 5238.6  | 3706.6 | 2607.2 | 1982.8 | 1432.6 | 1033.6 | 808.2  | 707.7  | 687.8  | 689.2  |
| 22.5° | 6660.7  | 5769.2  | 3806.0 | 2428.0 | 1667.1 | 1068.2 | 777.0  | 676.2  | 637.0  | 618.5  | 618.5  |
| 25°   | 7550.8  | 6500.1  | 4034.9 | 2297.5 | 1393.0 | 853.3  | 685.7  | 625.5  | 588.4  | 575.8  | 578.2  |
| 27.5° | 8413.6  | 7210.9  | 4300.9 | 2194.6 | 1213.8 | 774.6  | 649.6  | 595.4  | 563.2  | 550.2  | 556.2  |
| 30°   | 9086.3  | 7842.3  | 4522.8 | 2054.6 | 1122.5 | 752.5  | 662.6  | 606.9  | 560.7  | 541.1  | 542.2  |
| 32.5° | 9643.5  | 8395.0  | 4709.0 | 1953.8 | 1041.6 | 645.1  | 571.2  | 546.7  | 541.1  | 518.0  | 506.5  |
| 35°   | 10355.8 | 8997.4  | 4834.0 | 1956.2 | 1003.5 | 575.8  | 508.6  | 465.9  | 434.7  | 408.1  | 408.1  |
| 37.5° | 11190.6 | 9688.7  | 4967.0 | 1982.8 | 989.8  | 535.2  | 486.9  | 443.8  | 415.1  | 389.6  | 385.0  |
| 40°   | 12015.9 | 10366.3 | 5088.5 | 2008.4 | 981.4  | 511.0  | 469.4  | 430.2  | 403.6  | 378.0  | 371.0  |
| 42.5° | 12718.0 | 10923.5 | 5197.0 | 2021.0 | 953.8  | 508.6  | 456.8  | 420.7  | 395.5  | 367.5  | 360.9  |
| 45°   | 13237.1 | 11390.4 | 5313.9 | 2040.6 | 926.1  | 518.0  | 456.8  | 419.7  | 388.5  | 361.9  | 354.9  |
| 47.5° | 13700.5 | 11938.5 | 5509.2 | 2040.6 | 892.5  | 500.5  | 471.8  | 420.7  | 387.5  | 359.5  | 353.9  |
| 50°   | 14321.4 | 12690.0 | 5879.1 | 1993.3 | 845.3  | 482.0  | 497.0  | 416.2  | 377.0  | 354.9  | 347.9  |
| 52.5° | 15176.8 | 13653.2 | 6466.5 | 1911.1 | 772.5  | 446.3  | 493.5  | 414.1  | 366.5  | 343.4  | 335.3  |
| 55°   | 16188.7 | 14684.4 | 7107.0 | 1815.2 | 663.6  | 420.7  | 476.4  | 408.1  | 354.9  | 329.4  | 321.3  |
| 57.5° | 16978.3 | 15394.2 | 7557.8 | 1667.1 | 568.8  | 407.1  | 422.1  | 402.5  | 340.9  | 314.3  | 307.7  |
| 60°   | 17292.6 | 15366.5 | 7681.7 | 1469.3 | 522.6  | 395.5  | 368.9  | 450.8  | 329.4  | 302.8  | 294.7  |
| 62.5° | 17122.9 | 14656.7 | 7334.8 | 1330.7 | 512.1  | 380.5  | 345.8  | 417.2  | 320.3  | 294.7  | 283.2  |
| 65°   | 16337.8 | 13398.8 | 6415.7 | 1293.6 | 542.2  | 365.4  | 330.8  | 327.3  | 307.7  | 283.2  | 271.6  |
| 67.5° | 14627.7 | 11518.9 | 5136.8 | 1297.1 | 580.3  | 350.4  | 315.7  | 299.6  | 290.2  | 270.6  | 260.1  |
| 70°   | 11914.4 | 9107.3  | 3829.1 | 1306.6 | 599.9  | 332.9  | 299.6  | 282.1  | 271.6  | 252.0  | 245.0  |
| 72.5° | 8760.4  | 7019.1  | 2781.9 | 1246.4 | 603.4  | 313.3  | 277.6  | 262.5  | 252.0  | 231.4  | 225.4  |
| 75°   | 5993.6  | 5369.2  | 1929.6 | 1032.5 | 526.1  | 285.6  | 253.1  | 239.4  | 232.4  | 206.9  | 203.4  |
| 77.5° | 4378.3  | 4030.4  | 1234.8 | 766.5  | 405.7  | 251.0  | 223.3  | 212.8  | 208.3  | 180.3  | 175.7  |
| 80°   | 3513.8  | 3188.6  | 772.5  | 525.0  | 297.2  | 210.4  | 187.3  | 181.7  | 176.8  | 149.1  | 145.6  |
| 82.5° | 2437.1  | 2135.4  | 496.0  | 340.9  | 223.3  | 163.1  | 148.1  | 145.6  | 138.6  | 113.4  | 109.9  |
| 85°   | 1285.6  | 1159.6  | 314.3  | 232.4  | 161.7  | 112.0  | 102.9  | 102.9  | 99.4   | 75.3   | 72.8   |
| 87.5° | 164.2   | 267.1   | 159.6  | 121.5  | 88.9   | 49.7   | 49.7   | 48.7   | 52.2   | 42.7   | 37.1   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 |
| 2.5°  | 5742.6 | 5798.3 | 5745.1 | 5748.6 | 5807.4 | 5983.1 | 6062.9 | 6128.7 | 6199.4 | 6245.6 | 6266.2 |
| 5°    | 4162.3 | 4291.8 | 4335.6 | 4428.0 | 4564.5 | 4788.9 | 4877.8 | 4942.5 | 4985.6 | 5010.8 | 5021.3 |
| 7.5°  | 2846.6 | 2925.0 | 3012.9 | 3162.0 | 3459.2 | 3591.1 | 3649.9 | 3634.9 | 3586.6 | 3569.1 | 3551.9 |
| 10°   | 2145.9 | 2114.8 | 2098.3 | 2180.6 | 2421.0 | 2554.0 | 2595.7 | 2555.1 | 2528.5 | 2534.4 | 2563.1 |
| 12.5° | 1662.6 | 1608.3 | 1542.5 | 1533.0 | 1691.6 | 1810.6 | 1837.2 | 1839.3 | 1888.0 | 1930.7 | 1994.4 |
| 15°   | 1211.7 | 1205.8 | 1173.6 | 1154.0 | 1243.9 | 1341.2 | 1352.8 | 1373.4 | 1417.5 | 1448.7 | 1504.0 |
| 17.5° | 854.4  | 885.5  | 911.1  | 923.7  | 991.9  | 1061.2 | 1048.6 | 1038.1 | 1030.1 | 1030.1 | 1056.7 |
| 20°   | 689.2  | 709.8  | 742.4  | 779.1  | 848.8  | 897.1  | 865.9  | 824.3  | 794.2  | 785.1  | 788.6  |
| 22.5° | 620.9  | 637.0  | 655.6  | 687.8  | 750.4  | 784.0  | 750.4  | 720.3  | 690.2  | 679.7  | 676.2  |
| 25°   | 586.3  | 606.9  | 624.4  | 648.6  | 694.8  | 717.9  | 685.7  | 663.6  | 645.1  | 632.5  | 623.0  |
| 27.5° | 566.7  | 584.9  | 589.8  | 601.3  | 640.5  | 661.2  | 645.1  | 636.0  | 624.4  | 612.9  | 601.3  |
| 30°   | 545.7  | 542.2  | 534.1  | 535.2  | 566.7  | 587.3  | 586.3  | 588.4  | 587.3  | 583.8  | 581.7  |
| 32.5° | 498.4  | 491.4  | 484.4  | 491.4  | 520.1  | 538.7  | 540.1  | 544.6  | 544.6  | 543.6  | 552.7  |
| 35°   | 415.1  | 427.7  | 435.8  | 456.8  | 491.4  | 507.5  | 500.5  | 489.0  | 468.3  | 455.4  | 454.3  |
| 37.5° | 384.0  | 386.1  | 400.1  | 428.8  | 467.3  | 482.0  | 471.8  | 445.2  | 431.2  | 428.8  | 432.3  |
| 40°   | 368.9  | 371.0  | 379.1  | 405.7  | 443.8  | 458.9  | 449.8  | 430.2  | 417.2  | 416.2  | 422.1  |
| 42.5° | 358.4  | 360.9  | 365.4  | 384.0  | 415.1  | 433.7  | 434.7  | 420.7  | 405.7  | 407.1  | 412.7  |
| 45°   | 352.5  | 353.9  | 352.5  | 361.9  | 390.6  | 412.7  | 422.1  | 412.7  | 400.1  | 402.5  | 409.2  |
| 47.5° | 351.4  | 347.9  | 343.4  | 345.8  | 375.9  | 397.6  | 409.2  | 405.7  | 400.1  | 402.5  | 408.1  |
| 50°   | 346.9  | 338.8  | 332.9  | 331.8  | 361.9  | 385.0  | 395.5  | 395.5  | 397.6  | 402.5  | 408.1  |
| 52.5° | 332.9  | 323.8  | 323.8  | 320.3  | 352.5  | 374.5  | 381.5  | 382.6  | 386.1  | 394.1  | 402.5  |
| 55°   | 315.7  | 312.2  | 315.7  | 309.8  | 345.8  | 366.5  | 370.0  | 372.4  | 374.5  | 381.5  | 393.1  |
| 57.5° | 300.7  | 296.1  | 304.2  | 301.7  | 339.9  | 358.4  | 358.4  | 363.0  | 363.0  | 372.4  | 381.5  |
| 60°   | 292.6  | 283.2  | 286.7  | 289.1  | 331.8  | 351.4  | 349.3  | 353.9  | 356.0  | 364.4  | 371.0  |
| 62.5° | 282.1  | 274.1  | 274.1  | 279.7  | 322.7  | 340.9  | 339.9  | 343.4  | 352.5  | 354.9  | 361.9  |
| 65°   | 269.5  | 266.0  | 262.5  | 269.5  | 313.3  | 329.4  | 330.8  | 335.3  | 343.4  | 345.8  | 351.4  |
| 67.5° | 256.6  | 258.0  | 251.0  | 258.0  | 305.2  | 317.8  | 317.8  | 327.3  | 330.8  | 335.3  | 340.9  |
| 70°   | 242.9  | 244.0  | 238.0  | 246.4  | 299.6  | 305.2  | 304.2  | 316.8  | 319.2  | 322.7  | 328.3  |
| 72.5° | 225.4  | 225.4  | 223.3  | 234.9  | 290.2  | 292.6  | 290.2  | 300.7  | 301.7  | 305.2  | 307.7  |
| 75°   | 206.9  | 206.9  | 204.8  | 220.9  | 284.6  | 278.6  | 271.6  | 279.7  | 282.1  | 284.6  | 284.6  |
| 77.5° | 182.7  | 185.2  | 185.2  | 204.8  | 264.6  | 273.0  | 249.6  | 254.5  | 258.0  | 259.0  | 255.5  |
| 80°   | 152.6  | 158.6  | 160.7  | 186.2  | 221.9  | 252.0  | 223.3  | 226.5  | 227.9  | 227.9  | 223.3  |
| 82.5° | 116.9  | 127.1  | 133.0  | 160.7  | 170.1  | 211.4  | 194.3  | 197.8  | 194.3  | 187.3  | 185.2  |
| 85°   | 80.9   | 94.9   | 101.9  | 122.5  | 128.5  | 163.1  | 161.7  | 161.7  | 155.1  | 145.6  | 144.6  |
| 87.5° | 44.1   | 52.2   | 56.7   | 72.8   | 87.9   | 109.9  | 119.0  | 115.5  | 109.9  | 104.0  | 105.4  |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    | 285°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9 | 7105.9  | 7105.9  | 7105.9  | 7105.9  |
| 2.5°  | 6375.1 | 6532.3 | 6783.2 | 6975.0 | 7168.2 | 7354.4 | 7555.7 | 7709.3  | 7839.9  | 7891.0  | 8045.7  |
| 5°    | 5126.6 | 5323.0 | 5559.9 | 5987.6 | 6290.7 | 6624.7 | 7011.1 | 7522.1  | 7718.4  | 7990.4  | 8435.3  |
| 7.5°  | 3624.7 | 3802.5 | 4184.0 | 4529.8 | 4959.0 | 5431.8 | 5953.0 | 6658.3  | 6916.2  | 7352.0  | 8076.9  |
| 10°   | 2706.6 | 2913.5 | 3219.8 | 3511.3 | 3889.3 | 4372.7 | 4971.6 | 5760.1  | 6073.4  | 6546.3  | 7381.0  |
| 12.5° | 2180.6 | 2424.5 | 2749.3 | 3023.4 | 3316.0 | 3656.9 | 4238.6 | 5103.2  | 5523.2  | 5936.9  | 6780.8  |
| 15°   | 1675.2 | 1930.7 | 2232.7 | 2580.6 | 2903.0 | 3270.9 | 3880.2 | 4826.0  | 5309.0  | 5740.5  | 6460.5  |
| 17.5° | 1159.6 | 1378.0 | 1758.5 | 2121.4 | 2534.4 | 3004.8 | 3780.8 | 4884.8  | 5461.6  | 5958.9  | 6516.2  |
| 20°   | 822.2  | 946.8  | 1259.0 | 1680.1 | 2194.6 | 2785.0 | 3762.3 | 5194.5  | 5944.9  | 6512.7  | 6872.1  |
| 22.5° | 691.3  | 737.5  | 919.1  | 1305.2 | 1899.5 | 2620.9 | 3827.0 | 5629.2  | 6597.0  | 7321.9  | 7439.8  |
| 25°   | 630.0  | 658.0  | 752.5  | 1024.5 | 1637.0 | 2501.9 | 4045.4 | 6276.7  | 7404.1  | 8131.5  | 8110.5  |
| 27.5° | 596.4  | 625.5  | 687.8  | 864.9  | 1439.6 | 2428.0 | 4263.8 | 7044.7  | 8326.8  | 9010.0  | 8751.0  |
| 30°   | 586.3  | 625.5  | 691.3  | 815.2  | 1298.5 | 2311.1 | 4443.0 | 7718.4  | 9036.6  | 9603.3  | 9042.5  |
| 32.5° | 578.2  | 583.8  | 613.9  | 702.8  | 1164.1 | 2174.6 | 4564.5 | 8323.3  | 9731.4  | 10167.5 | 9462.2  |
| 35°   | 467.3  | 496.0  | 544.6  | 630.0  | 1085.7 | 2092.7 | 4564.5 | 8844.8  | 10416.0 | 10737.3 | 9862.3  |
| 37.5° | 449.8  | 475.3  | 518.0  | 590.8  | 1041.6 | 2052.1 | 4473.1 | 9347.7  | 11115.3 | 11383.8 | 10191.6 |
| 40°   | 440.7  | 461.3  | 501.9  | 560.7  | 1023.1 | 2005.9 | 4340.1 | 9791.6  | 11798.5 | 12030.9 | 10499.3 |
| 42.5° | 433.7  | 452.2  | 490.4  | 542.2  | 998.9  | 1955.2 | 4232.7 | 10147.5 | 12391.8 | 12583.6 | 10792.9 |
| 45°   | 430.2  | 449.8  | 491.4  | 551.6  | 950.3  | 1888.0 | 4197.0 | 10532.5 | 12879.7 | 13044.9 | 11110.8 |
| 47.5° | 430.2  | 453.3  | 497.0  | 571.2  | 892.5  | 1818.7 | 4309.0 | 11040.4 | 13341.0 | 13421.9 | 11485.3 |
| 50°   | 426.7  | 452.2  | 513.5  | 551.6  | 808.2  | 1730.8 | 4572.5 | 11679.5 | 13840.5 | 13849.6 | 11959.5 |
| 52.5° | 419.7  | 449.8  | 552.7  | 540.1  | 710.9  | 1615.3 | 4928.9 | 12500.6 | 14579.4 | 14634.7 | 12701.6 |
| 55°   | 411.6  | 446.3  | 542.2  | 513.5  | 631.4  | 1477.7 | 5220.1 | 13498.2 | 15617.5 | 15771.1 | 13793.2 |
| 57.5° | 401.1  | 441.7  | 525.0  | 476.4  | 579.3  | 1300.6 | 5325.4 | 14229.0 | 16342.4 | 16728.4 | 15023.2 |
| 60°   | 392.0  | 438.2  | 473.9  | 454.3  | 546.7  | 1151.5 | 5121.7 | 14084.4 | 16292.7 | 17125.0 | 16113.5 |
| 62.5° | 382.6  | 441.7  | 432.3  | 440.7  | 531.7  | 1055.6 | 4590.0 | 12927.0 | 15468.4 | 16715.8 | 16921.6 |
| 65°   | 372.4  | 410.6  | 408.1  | 428.8  | 528.5  | 1017.5 | 3805.0 | 11191.6 | 13875.1 | 15422.2 | 17112.4 |
| 67.5° | 358.4  | 379.1  | 390.6  | 414.1  | 540.1  | 983.9  | 3070.6 | 9231.9  | 11661.0 | 13483.1 | 16118.0 |
| 70°   | 343.4  | 360.9  | 373.5  | 395.5  | 533.1  | 968.8  | 2554.0 | 7280.2  | 9252.9  | 11050.5 | 14156.2 |
| 72.5° | 323.8  | 338.8  | 350.4  | 371.0  | 526.1  | 960.8  | 2157.5 | 5863.0  | 6908.2  | 8208.8  | 11509.8 |
| 75°   | 300.7  | 314.3  | 322.7  | 343.4  | 504.0  | 879.9  | 1696.2 | 4961.1  | 5169.3  | 5710.4  | 9167.1  |
| 77.5° | 274.1  | 284.6  | 291.2  | 314.3  | 446.3  | 731.9  | 1226.8 | 3827.0  | 4014.3  | 4145.9  | 7028.2  |
| 80°   | 242.9  | 253.1  | 256.6  | 278.6  | 370.0  | 572.3  | 800.1  | 2826.7  | 3002.4  | 3032.5  | 4590.0  |
| 82.5° | 206.9  | 217.4  | 217.4  | 238.0  | 302.8  | 411.6  | 525.0  | 1936.6  | 1971.3  | 2073.1  | 3244.3  |
| 85°   | 166.6  | 174.7  | 174.7  | 185.2  | 234.9  | 307.7  | 360.9  | 972.3   | 961.8   | 1098.3  | 2810.6  |
| 87.5° | 119.0  | 125.0  | 130.6  | 133.0  | 167.7  | 203.4  | 217.4  | 296.1   | 195.3   | 224.4   | 1804.7  |
| 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):**

|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7105.9  | 7105.9  | 7105.9  | 7105.9  | 7105.9  | 7105.9  | 7105.9  | 7105.9  |
| 2.5°  | 8162.6  | 8228.4  | 8161.2  | 8112.9  | 7903.6  | 7731.4  | 7501.1  | 7383.1  |
| 5°    | 8774.1  | 8941.7  | 8885.0  | 8681.7  | 8244.5  | 7753.1  | 7194.8  | 6942.8  |
| 7.5°  | 8700.2  | 9089.8  | 9098.9  | 8718.8  | 8074.8  | 7350.9  | 6594.9  | 6236.5  |
| 10°   | 8124.5  | 8622.5  | 8765.0  | 8396.1  | 7712.8  | 6903.6  | 6036.3  | 5627.1  |
| 12.5° | 7481.5  | 7969.4  | 8078.3  | 7950.9  | 7380.0  | 6566.9  | 5687.3  | 5285.9  |
| 15°   | 6955.4  | 7174.2  | 7303.3  | 7414.6  | 7094.4  | 6432.9  | 5667.4  | 5227.1  |
| 17.5° | 6635.2  | 6611.0  | 6648.1  | 6841.0  | 6895.2  | 6586.5  | 5968.0  | 5482.6  |
| 20°   | 6519.7  | 6148.6  | 6139.2  | 6405.2  | 6801.8  | 6953.3  | 6555.4  | 5972.6  |
| 22.5° | 6583.4  | 5982.0  | 5905.7  | 6221.4  | 6851.5  | 7481.5  | 7325.4  | 6660.7  |
| 25°   | 6802.8  | 5996.0  | 5934.4  | 6240.0  | 7031.7  | 8044.7  | 8156.7  | 7550.8  |
| 27.5° | 7148.6  | 6083.9  | 6002.7  | 6316.3  | 7271.1  | 8517.5  | 8975.3  | 8413.6  |
| 30°   | 7476.9  | 6236.5  | 6135.7  | 6466.5  | 7489.5  | 8704.8  | 9477.2  | 9086.3  |
| 32.5° | 7875.9  | 6522.1  | 6345.0  | 6742.6  | 7760.1  | 9003.0  | 9924.6  | 9643.5  |
| 35°   | 8266.6  | 6928.8  | 6709.4  | 7169.3  | 8061.8  | 9374.3  | 10435.6 | 10355.8 |
| 37.5° | 8695.7  | 7460.8  | 7279.2  | 7720.9  | 8474.8  | 9724.4  | 11087.7 | 11190.6 |
| 40°   | 9153.5  | 8166.1  | 7950.9  | 8525.6  | 9115.3  | 10164.0 | 11768.8 | 12015.9 |
| 42.5° | 9614.8  | 8948.7  | 8692.2  | 9274.6  | 9819.2  | 10597.3 | 12351.2 | 12718.0 |
| 45°   | 10143.0 | 9798.6  | 9677.1  | 10307.1 | 10495.8 | 11010.3 | 12781.4 | 13237.1 |
| 47.5° | 10758.3 | 10762.8 | 10958.1 | 11210.2 | 11178.0 | 11477.2 | 13214.0 | 13700.5 |
| 50°   | 11476.2 | 11966.2 | 12397.7 | 12565.0 | 11880.8 | 11979.1 | 13813.9 | 14321.4 |
| 52.5° | 12338.6 | 13405.8 | 13939.9 | 13830.0 | 12638.2 | 12591.6 | 14764.2 | 15176.8 |
| 55°   | 13417.3 | 14929.7 | 15460.3 | 15381.6 | 13508.7 | 13426.4 | 15948.3 | 16188.7 |
| 57.5° | 14665.8 | 16406.1 | 16894.0 | 16540.1 | 14553.8 | 14342.4 | 16927.6 | 16978.3 |
| 60°   | 15763.1 | 17576.2 | 18003.9 | 17611.9 | 15608.4 | 15316.8 | 17539.1 | 17292.6 |
| 62.5° | 16373.5 | 17972.7 | 18273.4 | 17851.3 | 16330.8 | 16355.0 | 17673.1 | 17122.9 |
| 65°   | 16100.9 | 16970.3 | 17067.2 | 17032.6 | 16144.6 | 16957.3 | 17191.1 | 16337.8 |
| 67.5° | 14607.0 | 14435.9 | 14599.0 | 14824.4 | 14549.3 | 16164.2 | 15855.5 | 14627.7 |
| 70°   | 11975.6 | 11035.5 | 11360.7 | 11511.9 | 11636.8 | 13909.8 | 13761.7 | 11914.4 |
| 72.5° | 9025.0  | 7731.4  | 7988.0  | 7956.8  | 8534.7  | 11157.0 | 10702.6 | 8760.4  |
| 75°   | 6394.7  | 5242.1  | 5274.3  | 5261.7  | 5955.4  | 8728.9  | 7749.9  | 5993.6  |
| 77.5° | 4474.2  | 3798.0  | 3815.5  | 3886.9  | 4003.8  | 6583.4  | 5536.8  | 4378.3  |
| 80°   | 3076.6  | 2882.3  | 2978.2  | 2984.2  | 2774.9  | 4422.4  | 4090.6  | 3513.8  |
| 82.5° | 2291.5  | 2003.5  | 1980.4  | 2014.0  | 2174.6  | 3583.1  | 3143.4  | 2437.1  |
| 85°   | 1876.4  | 1186.2  | 953.8   | 1195.6  | 1927.2  | 3548.4  | 2088.2  | 1285.6  |
| 87.5° | 1056.7  | 563.2   | 254.5   | 471.8   | 769.0   | 2349.3  | 603.4   | 164.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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