

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: P955437

Luminaire Tested: **GALN-SB8B-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

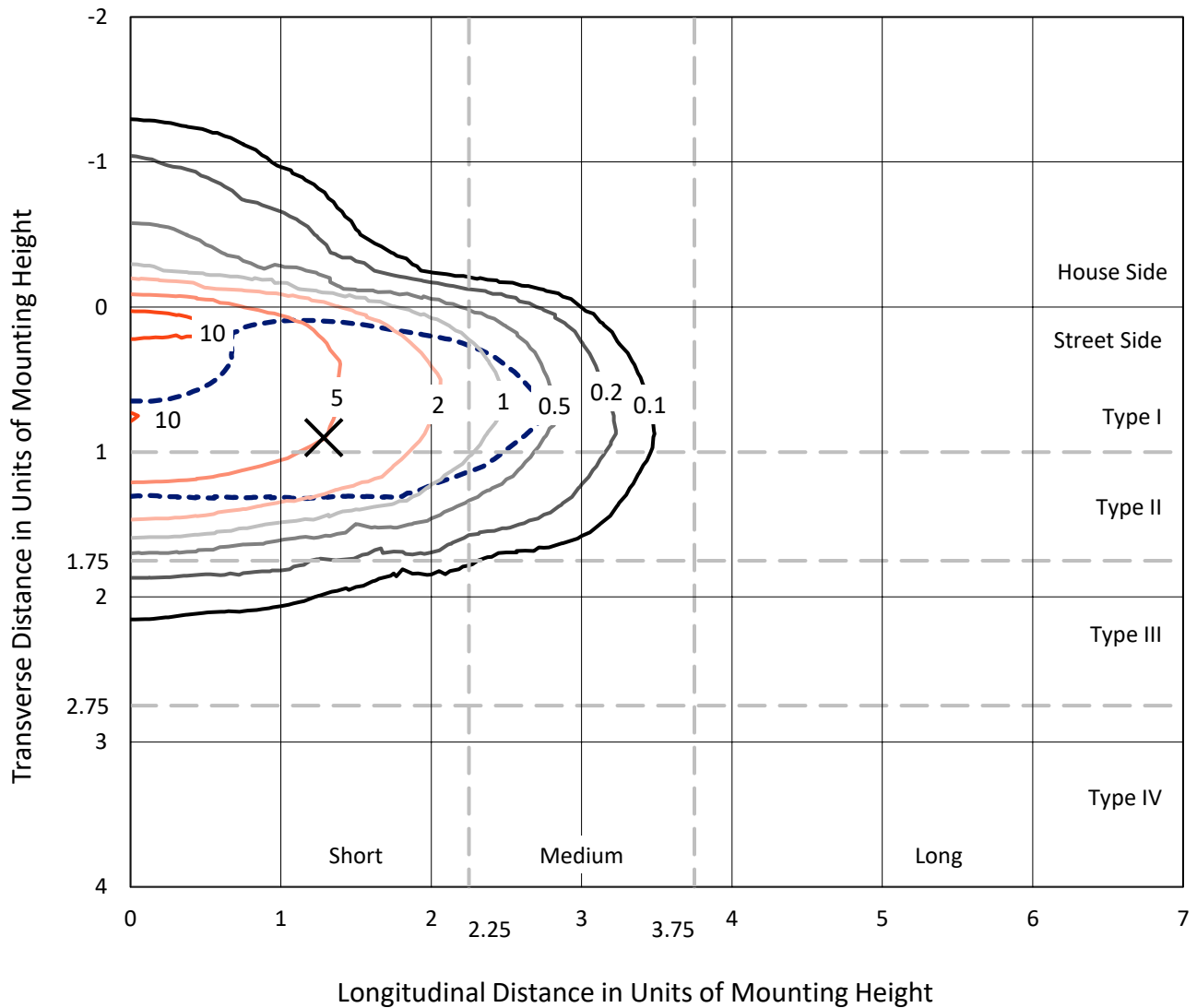
Lumens per Lamp: N/A  
Luminaire Lumens: 23631 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

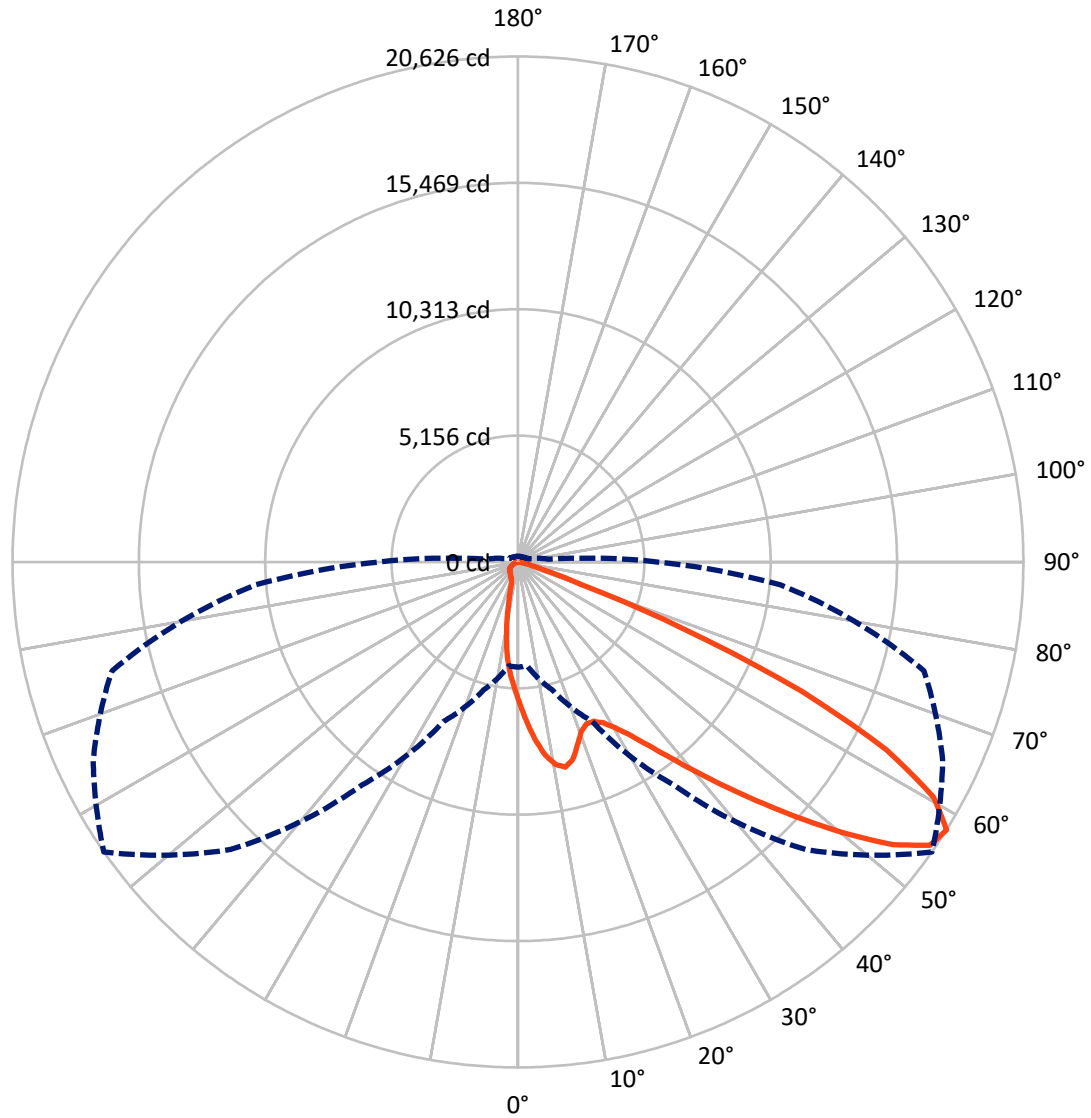
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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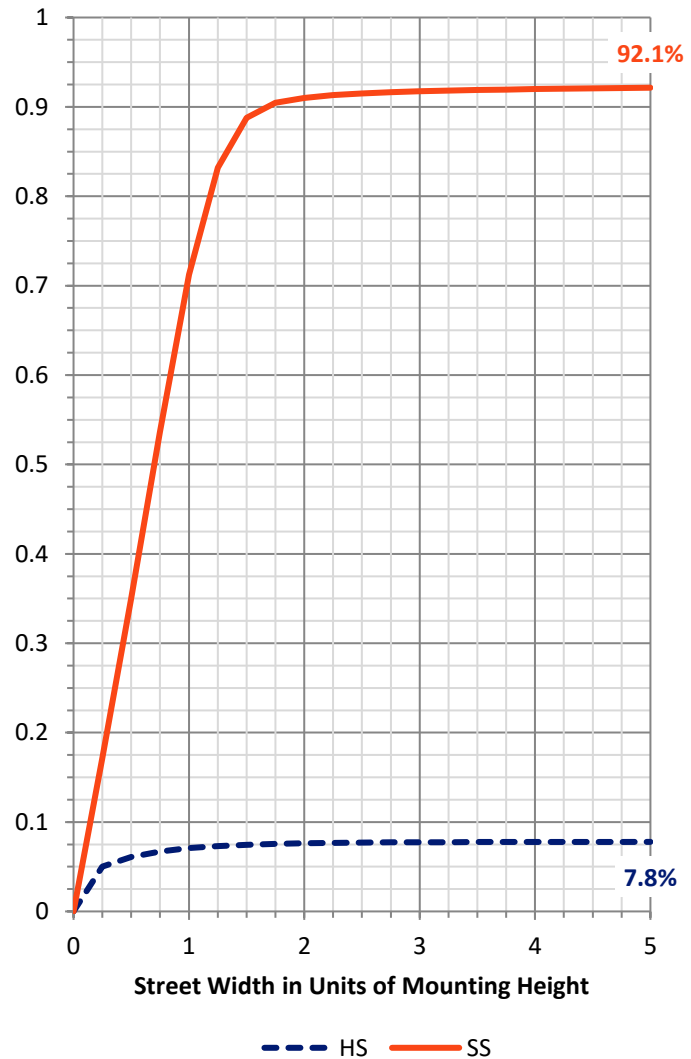
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1845.5   | 0.0    | 1845.5  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 21785.5  | 0.0    | 21785.5 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 23631.0  | 0.0    | 23631.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 529.8   | 2.2       |
| 10°-20°   | 1279.8  | 5.4       |
| 20°-30°   | 2047.7  | 8.7       |
| 30°-40°   | 3465.9  | 14.7      |
| 40°-50°   | 5690.2  | 24.1      |
| 50°-60°   | 6254.0  | 26.5      |
| 60°-70°   | 3587.3  | 15.2      |
| 70°-80°   | 733.0   | 3.1       |
| 80°-90°   | 43.2    | 0.2       |
| 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°    | 23631.0 | 100.0     |
| 0°-180°   | 23631.0 | 100.0     |

**Coefficient of Utilization**



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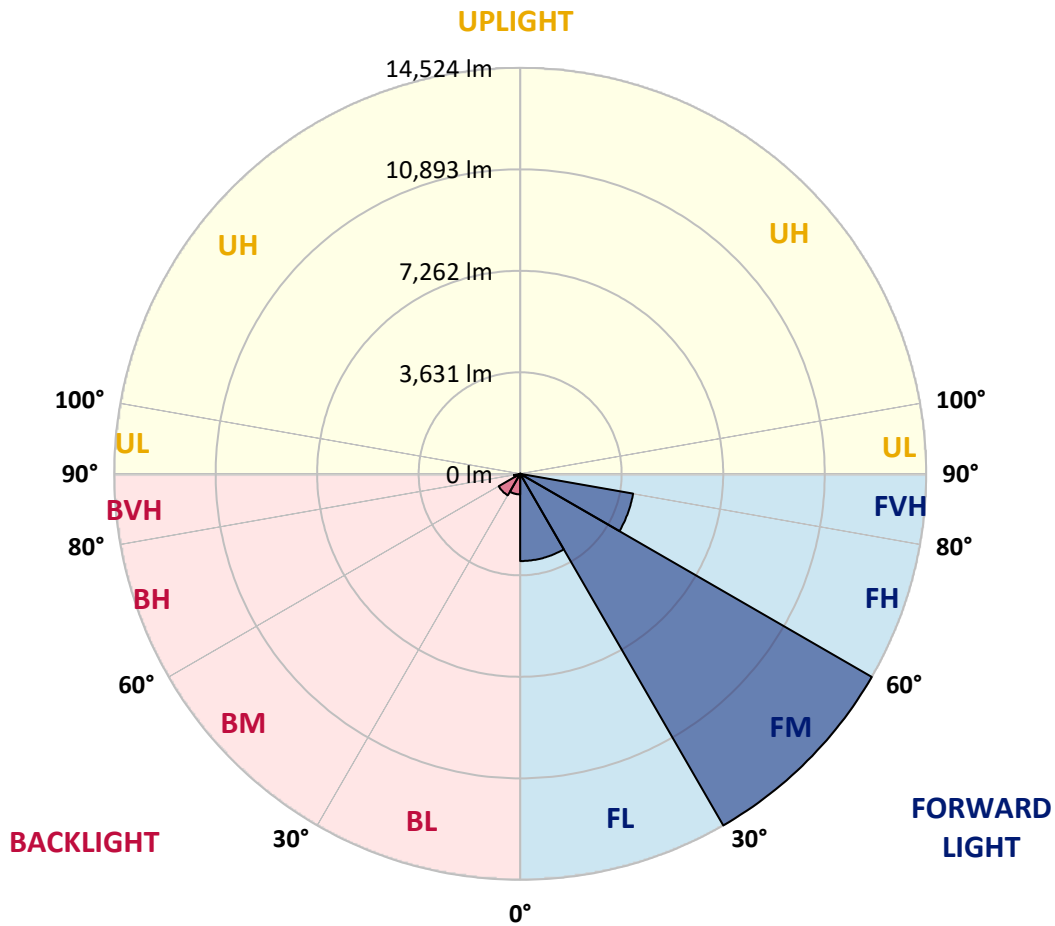
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3120.6  | 13.2      |                         |      |         |
| FM (30°-60°)   | 14523.8 | 61.5      |                         |      |         |
| FH (60°-80°)   | 4100.8  | 17.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 40.3    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 736.8   | 3.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 886.3   | 3.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 219.5   | 0.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.9     | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5694.5  | 5694.5  | 5694.5  | 5694.5  | 5694.5  | 5694.5  | 5694.5  | 5694.5  | 5694.5  | 5694.5  |
| 2.5°  | 7065.7  | 6976.8  | 6963.7  | 6946.2  | 6777.1  | 6650.4  | 6466.8  | 6265.7  | 6039.8  | 5809.6  |
| 5°    | 8162.9  | 8092.9  | 8079.8  | 7998.2  | 7805.9  | 7590.2  | 7263.8  | 6851.5  | 6430.3  | 5934.9  |
| 7.5°  | 8375.6  | 8362.5  | 8422.2  | 8419.3  | 8393.1  | 8222.6  | 7947.2  | 7456.2  | 6823.8  | 6089.4  |
| 10°   | 7427.0  | 7460.5  | 7638.3  | 7794.2  | 8215.3  | 8460.1  | 8400.4  | 7995.3  | 7228.9  | 6265.7  |
| 12.5° | 6562.9  | 6523.6  | 6650.4  | 6826.7  | 7316.3  | 8044.8  | 8588.4  | 8445.6  | 7692.2  | 6465.3  |
| 15°   | 6020.9  | 6004.9  | 6076.3  | 6157.9  | 6530.9  | 7265.3  | 8369.8  | 8811.3  | 8138.1  | 6701.4  |
| 17.5° | 5847.5  | 5834.4  | 5856.2  | 5876.6  | 6118.5  | 6686.8  | 7849.6  | 9035.7  | 8565.0  | 6970.9  |
| 20°   | 5988.8  | 5971.3  | 5968.4  | 5952.4  | 6052.9  | 6440.5  | 7378.9  | 9051.7  | 8948.3  | 7215.7  |
| 22.5° | 6401.2  | 6380.8  | 6309.4  | 6245.3  | 6254.0  | 6474.1  | 7169.1  | 8891.4  | 9236.8  | 7444.5  |
| 25°   | 7148.7  | 7115.2  | 6966.6  | 6750.9  | 6613.9  | 6707.2  | 7201.2  | 8680.2  | 9512.2  | 7623.7  |
| 27.5° | 8084.2  | 8040.5  | 7849.6  | 7529.0  | 7215.7  | 7102.1  | 7432.9  | 8534.4  | 9741.0  | 7760.7  |
| 30°   | 9000.7  | 8943.9  | 8755.9  | 8506.8  | 8049.2  | 7690.8  | 7851.1  | 8598.6  | 10013.4 | 7903.5  |
| 32.5° | 9990.1  | 9936.2  | 9687.0  | 9378.1  | 8999.3  | 8517.0  | 8423.7  | 8911.8  | 10347.1 | 8103.1  |
| 35°   | 11241.8 | 11157.3 | 10803.2 | 10382.1 | 9979.9  | 9491.8  | 9198.9  | 9452.4  | 10791.6 | 8407.7  |
| 37.5° | 12666.9 | 12553.2 | 12171.5 | 11590.1 | 11065.5 | 10519.1 | 10143.1 | 10195.6 | 11442.9 | 8815.7  |
| 40°   | 14010.4 | 13906.9 | 13554.3 | 13006.4 | 12347.8 | 11684.8 | 11284.1 | 11167.5 | 12341.9 | 9312.6  |
| 42.5° | 14816.2 | 14722.9 | 14574.3 | 14342.6 | 13787.4 | 13111.3 | 12605.7 | 12353.6 | 13405.7 | 9907.1  |
| 45°   | 14861.3 | 14779.7 | 14979.4 | 15248.9 | 15139.6 | 14689.4 | 14073.0 | 13611.1 | 14473.7 | 10465.2 |
| 47.5° | 14138.6 | 14083.2 | 14689.4 | 15630.7 | 16099.9 | 16289.3 | 15721.0 | 14763.7 | 15355.3 | 10865.9 |
| 50°   | 12168.5 | 12148.1 | 13395.5 | 15123.6 | 16465.6 | 17691.1 | 17459.4 | 15836.2 | 16038.7 | 11072.8 |
| 52.5° | 10551.1 | 10476.8 | 11203.9 | 13500.4 | 15933.8 | 18428.4 | 19158.4 | 16888.2 | 16516.6 | 11112.1 |
| 55°   | 8002.6  | 7937.0  | 8849.2  | 10784.3 | 14218.7 | 18166.1 | 20401.4 | 17973.8 | 16859.1 | 11011.6 |
| 57.5° | 4292.7  | 4251.9  | 5404.5  | 7177.9  | 11115.0 | 16592.4 | 20625.8 | 19122.0 | 17147.6 | 10744.9 |
| 60°   | 1671.3  | 1664.0  | 2095.4  | 3482.6  | 6755.3  | 13498.9 | 19493.6 | 19811.2 | 17328.3 | 10417.1 |
| 62.5° | 1011.3  | 1033.1  | 1103.1  | 1563.5  | 2984.2  | 8385.8  | 16883.8 | 19027.3 | 17449.2 | 10116.9 |
| 65°   | 836.4   | 837.9   | 846.6   | 1073.9  | 1429.5  | 3508.8  | 12710.6 | 16448.2 | 17150.5 | 9582.1  |
| 67.5° | 716.9   | 730.0   | 763.5   | 852.4   | 1008.3  | 1538.7  | 7317.7  | 12741.2 | 15333.4 | 8337.7  |
| 70°   | 565.4   | 582.9   | 625.1   | 700.9   | 778.1   | 963.2   | 2704.4  | 8477.6  | 11713.9 | 6284.6  |
| 72.5° | 476.5   | 475.0   | 496.9   | 569.7   | 617.8   | 677.6   | 1040.4  | 4750.3  | 6807.7  | 3000.2  |
| 75°   | 368.7   | 383.2   | 410.9   | 476.5   | 505.6   | 491.1   | 563.9   | 1735.4  | 2439.2  | 909.3   |
| 77.5° | 288.5   | 300.2   | 324.9   | 389.1   | 418.2   | 348.3   | 324.9   | 620.7   | 783.9   | 326.4   |
| 80°   | 129.7   | 139.9   | 221.5   | 287.1   | 341.0   | 240.4   | 176.3   | 317.7   | 348.3   | 148.6   |
| 82.5° | 23.3    | 39.3    | 129.7   | 151.5   | 174.9   | 155.9   | 91.8    | 164.7   | 170.5   | 59.7    |
| 85°   | 1.5     | 2.9     | 45.2    | 55.4    | 69.9    | 51.0    | 27.7    | 65.6    | 56.8    | 20.4    |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.5     | 1.5     | 7.3     | 8.7     | 11.7    | 8.7     | 7.3     |
| 90°   | 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5694.5 | 0°    | 5694.5 | 5694.5 | 5694.5 | 5694.5 | 5694.5 | 5694.5 | 5694.5 | 5694.5 | 5694.5 | 5694.5 |
| 5707.6 | 2.5°  | 5602.7 | 5395.8 | 5194.7 | 5030.0 | 4933.9 | 4770.7 | 4662.8 | 4645.4 | 4600.2 | 4639.5 |
| 5722.2 | 5°    | 5494.9 | 5124.7 | 4750.3 | 4415.1 | 4139.7 | 3784.2 | 3519.0 | 3406.8 | 3309.2 | 3342.7 |
| 5760.1 | 7.5°  | 5443.9 | 4859.5 | 4276.7 | 3704.0 | 3115.4 | 2547.1 | 2124.5 | 1948.2 | 1814.1 | 1833.1 |
| 5802.3 | 10°   | 5375.4 | 4584.2 | 3670.5 | 2796.2 | 2007.9 | 1446.9 | 1155.5 | 1047.7 | 987.9  | 989.4  |
| 5865.0 | 12.5° | 5322.9 | 4254.8 | 2966.7 | 1895.7 | 1222.5 | 923.8  | 833.5  | 807.3  | 789.8  | 791.2  |
| 5959.7 | 15°   | 5296.7 | 3867.2 | 2271.7 | 1263.3 | 874.3  | 782.5  | 760.6  | 749.0  | 737.3  | 735.9  |
| 6064.6 | 17.5° | 5253.0 | 3435.9 | 1662.6 | 922.4  | 765.0  | 732.9  | 714.0  | 700.9  | 686.3  | 683.4  |
| 6154.9 | 20°   | 5187.4 | 2946.3 | 1215.3 | 779.6  | 716.9  | 692.1  | 665.9  | 648.4  | 630.9  | 628.0  |
| 6211.8 | 22.5° | 5066.5 | 2429.0 | 934.0  | 721.3  | 681.9  | 654.3  | 622.2  | 601.8  | 584.3  | 581.4  |
| 6184.1 | 25°   | 4842.1 | 1943.8 | 786.9  | 684.9  | 651.3  | 617.8  | 582.9  | 555.2  | 539.1  | 536.2  |
| 6124.3 | 27.5° | 4557.9 | 1527.1 | 714.0  | 651.3  | 612.0  | 581.4  | 542.1  | 515.8  | 501.3  | 498.3  |
| 6045.7 | 30°   | 4222.8 | 1175.9 | 671.7  | 613.5  | 565.4  | 539.1  | 504.2  | 482.3  | 473.6  | 473.6  |
| 5990.3 | 32.5° | 3861.4 | 939.9  | 654.3  | 575.6  | 524.6  | 495.4  | 467.7  | 459.0  | 456.1  | 454.6  |
| 6020.9 | 35°   | 3521.9 | 816.0  | 645.5  | 545.0  | 488.1  | 460.5  | 448.8  | 450.3  | 456.1  | 456.1  |
| 6115.6 | 37.5° | 3220.3 | 776.7  | 641.1  | 523.1  | 456.1  | 431.3  | 438.6  | 451.7  | 445.9  | 445.9  |
| 6281.7 | 40°   | 2947.8 | 781.0  | 638.2  | 507.1  | 429.9  | 415.3  | 429.9  | 419.7  | 405.1  | 403.6  |
| 6484.3 | 42.5° | 2739.4 | 817.5  | 632.4  | 494.0  | 413.8  | 403.6  | 397.8  | 381.8  | 380.3  | 383.2  |
| 6694.1 | 45°   | 2587.9 | 849.5  | 630.9  | 488.1  | 396.3  | 377.4  | 370.1  | 354.1  | 383.2  | 390.5  |
| 6780.1 | 47.5° | 2408.6 | 849.5  | 630.9  | 467.7  | 367.2  | 359.9  | 348.3  | 330.8  | 359.9  | 367.2  |
| 6698.5 | 50°   | 2177.0 | 795.6  | 606.2  | 444.4  | 343.9  | 339.5  | 319.1  | 297.3  | 291.4  | 295.8  |
| 6507.6 | 52.5° | 1884.1 | 698.0  | 543.5  | 412.4  | 320.6  | 311.8  | 287.1  | 271.0  | 266.7  | 266.7  |
| 6165.1 | 55°   | 1550.4 | 584.3  | 459.0  | 365.7  | 295.8  | 279.8  | 262.3  | 255.0  | 250.6  | 247.7  |
| 5685.7 | 57.5° | 1260.4 | 479.4  | 368.7  | 324.9  | 272.5  | 252.1  | 246.3  | 237.5  | 230.2  | 225.9  |
| 5285.0 | 60°   | 1034.6 | 377.4  | 304.5  | 288.5  | 249.2  | 230.2  | 228.8  | 217.1  | 198.2  | 195.3  |
| 4954.3 | 62.5° | 798.5  | 276.9  | 256.5  | 250.6  | 225.9  | 209.8  | 206.9  | 183.6  | 154.5  | 148.6  |
| 4485.1 | 65°   | 563.9  | 215.7  | 206.9  | 220.0  | 201.1  | 186.5  | 179.2  | 144.3  | 113.7  | 109.3  |
| 3753.6 | 67.5° | 396.3  | 180.7  | 163.2  | 192.3  | 174.9  | 155.9  | 151.5  | 122.4  | 94.7   | 91.8   |
| 2838.5 | 70°   | 282.7  | 147.2  | 134.1  | 164.7  | 139.9  | 137.0  | 128.2  | 102.0  | 77.2   | 74.3   |
| 1404.7 | 72.5° | 199.6  | 112.2  | 103.5  | 142.8  | 96.2   | 118.0  | 104.9  | 78.7   | 58.3   | 55.4   |
| 477.9  | 75°   | 147.2  | 80.1   | 72.9   | 83.1   | 69.9   | 88.9   | 74.3   | 52.5   | 36.4   | 35.0   |
| 215.7  | 77.5° | 107.8  | 51.0   | 43.7   | 40.8   | 40.8   | 55.4   | 40.8   | 21.9   | 16.0   | 14.6   |
| 109.3  | 80°   | 75.8   | 23.3   | 20.4   | 17.5   | 16.0   | 13.1   | 5.8    | 2.9    | 1.5    | 1.5    |
| 37.9   | 82.5° | 45.2   | 10.2   | 10.2   | 7.3    | 4.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14.6   | 85°   | 10.2   | 4.4    | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 5.8    | 87.5° | 1.5    | 1.5    | 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    |

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