

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: P192691

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-AFL-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11880.8 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 96  
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



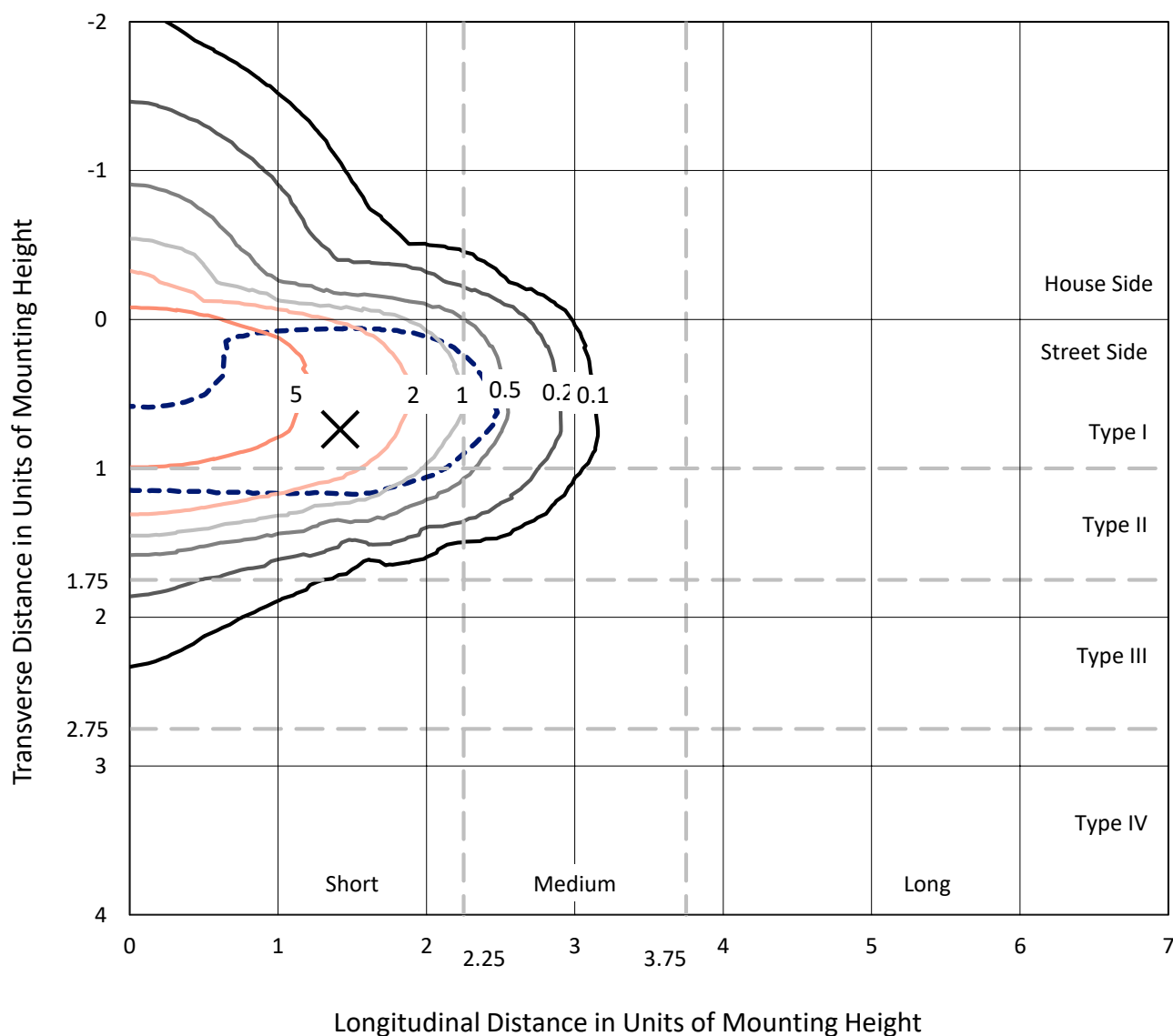
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

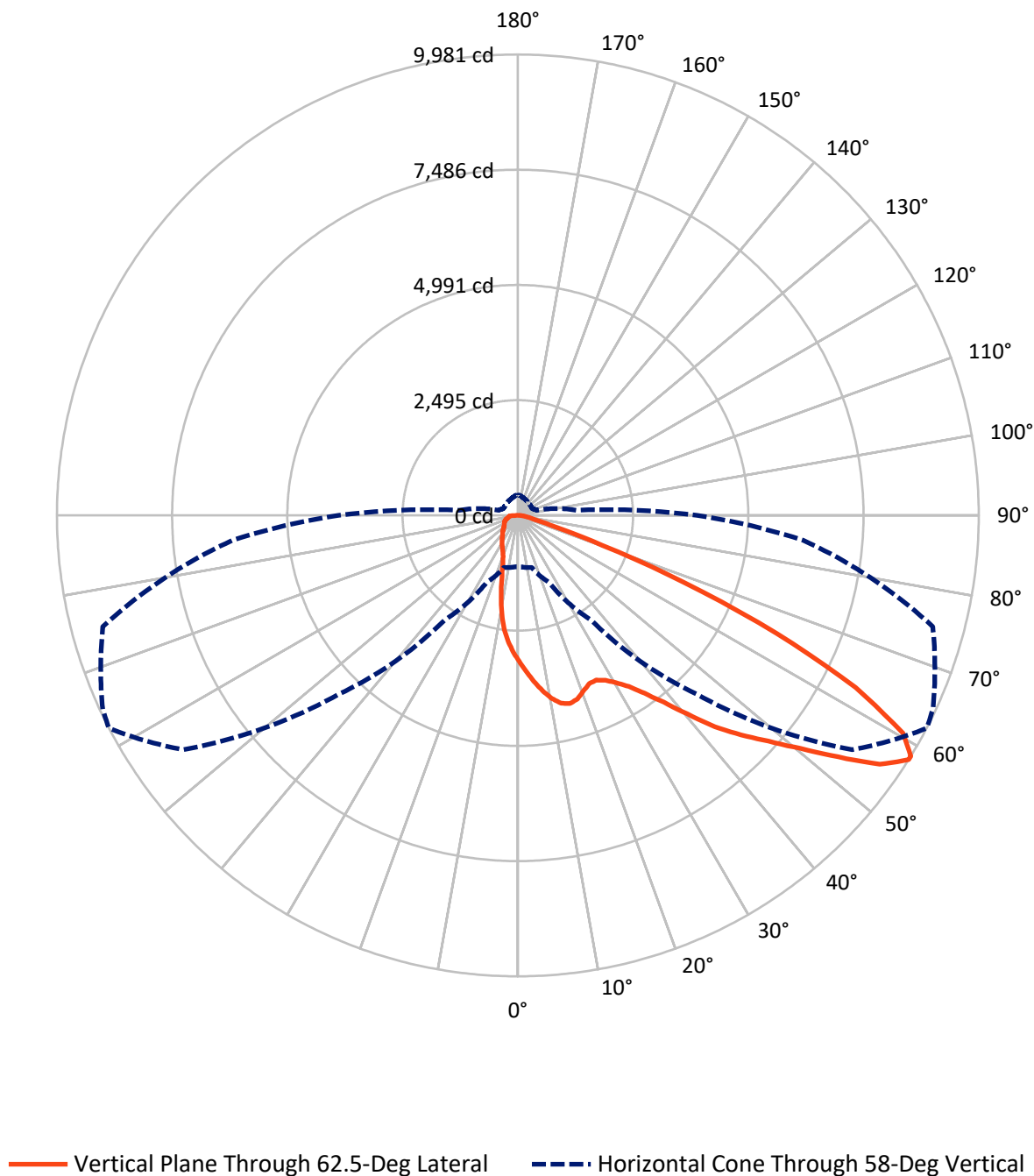


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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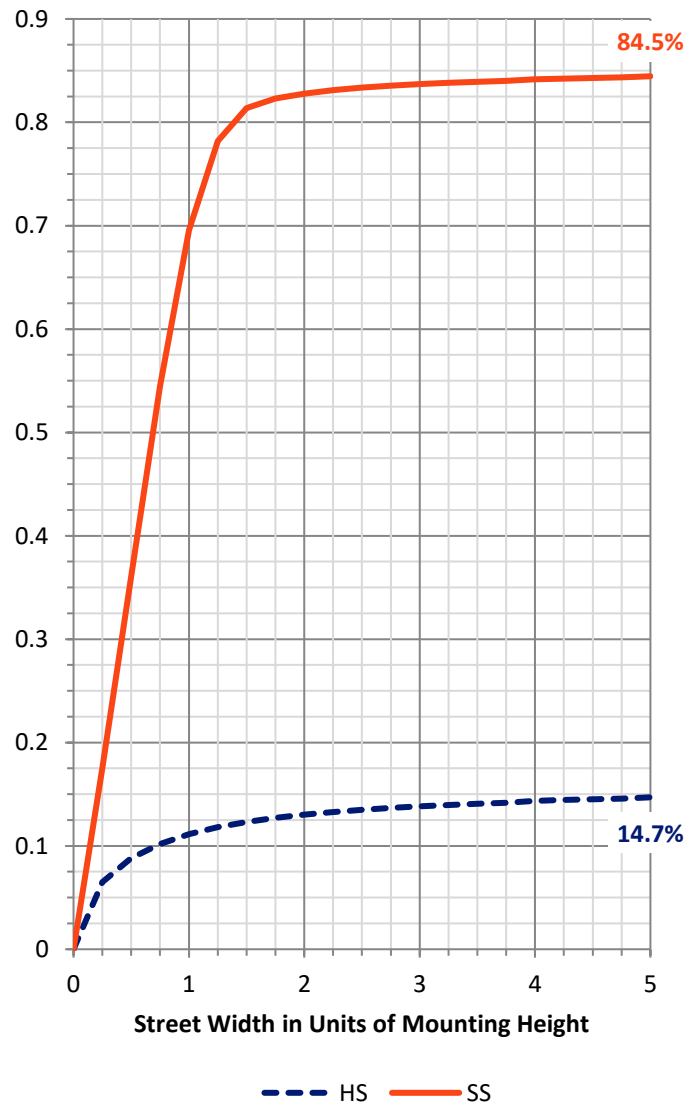
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1811.9   | 0.0    | 1811.9  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 10069.0  | 0.0    | 10069.0 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 11880.8  | 0.0    | 11880.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 282.3   | 2.4       |
| 10°-20°   | 721.5   | 6.1       |
| 20°-30°   | 1166.3  | 9.8       |
| 30°-40°   | 1851.5  | 15.6      |
| 40°-50°   | 2709.1  | 22.8      |
| 50°-60°   | 2833.5  | 23.8      |
| 60°-70°   | 1674.0  | 14.1      |
| 70°-80°   | 471.6   | 4.0       |
| 80°-90°   | 171.2   | 1.4       |
| 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°    | 11880.8 | 100.0     |
| 0°-180°   | 11880.8 | 100.0     |

**Coefficient of Utilization**



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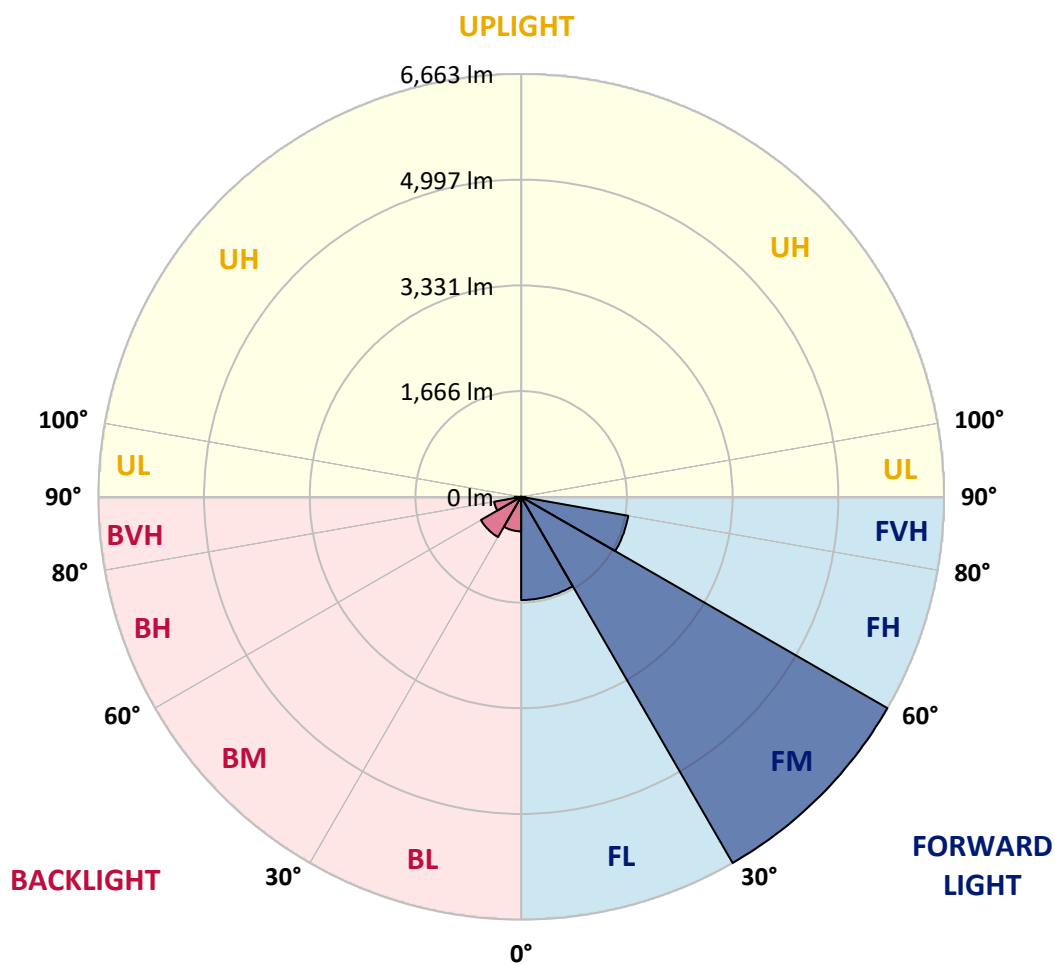
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1625.4 | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 6662.7 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 1713.3 | 14.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 67.5   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 544.6  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 731.3  | 6.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 432.3  | 3.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 103.7  | 0.9       |                         |      | G2/225  |
| 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°    | 62.5°  | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 |
| 2.5°  | 3606.3 | 3577.1 | 3558.7 | 3542.5 | 3521.2 | 3475.9 | 3414.9 | 3376.3 | 3356.8 | 3290.2 | 3211.2 |
| 5°    | 3959.9 | 3934.1 | 3915.1 | 3893.2 | 3855.2 | 3784.2 | 3685.8 | 3607.4 | 3568.7 | 3435.6 | 3277.9 |
| 7.5°  | 3877.1 | 3887.7 | 3920.7 | 3978.3 | 4027.6 | 4018.0 | 3930.2 | 3830.6 | 3779.8 | 3594.5 | 3355.1 |
| 10°   | 3378.0 | 3396.5 | 3453.5 | 3588.4 | 3806.6 | 4030.3 | 4098.7 | 4029.8 | 3978.3 | 3751.8 | 3434.6 |
| 12.5° | 3277.9 | 3277.3 | 3281.8 | 3317.5 | 3447.3 | 3762.4 | 4104.3 | 4173.6 | 4142.8 | 3901.6 | 3515.6 |
| 15°   | 3318.7 | 3319.9 | 3316.4 | 3331.6 | 3371.8 | 3496.7 | 3933.0 | 4229.0 | 4250.7 | 4052.8 | 3599.5 |
| 17.5° | 3426.2 | 3423.3 | 3410.4 | 3410.4 | 3425.1 | 3473.7 | 3731.6 | 4177.5 | 4278.1 | 4186.4 | 3673.4 |
| 20°   | 3606.3 | 3593.4 | 3559.2 | 3528.0 | 3512.2 | 3538.6 | 3648.8 | 4058.9 | 4230.6 | 4303.4 | 3734.4 |
| 22.5° | 3824.5 | 3814.3 | 3758.9 | 3691.9 | 3637.6 | 3637.0 | 3691.4 | 3955.4 | 4148.3 | 4413.5 | 3785.9 |
| 25°   | 4106.4 | 4090.2 | 4007.9 | 3900.5 | 3805.4 | 3769.1 | 3784.2 | 3950.4 | 4103.7 | 4533.2 | 3831.7 |
| 27.5° | 4437.7 | 4407.9 | 4310.6 | 4155.6 | 4015.9 | 3942.5 | 3920.7 | 4041.5 | 4144.4 | 4681.5 | 3895.5 |
| 30°   | 4839.3 | 4805.2 | 4680.4 | 4478.4 | 4281.0 | 4160.7 | 4114.2 | 4203.2 | 4279.9 | 4862.2 | 3997.9 |
| 32.5° | 5296.4 | 5247.1 | 5102.9 | 4880.2 | 4620.6 | 4437.0 | 4361.5 | 4417.0 | 4477.9 | 5079.9 | 4125.9 |
| 35°   | 5928.0 | 5869.3 | 5660.6 | 5353.4 | 5060.4 | 4808.0 | 4687.1 | 4727.4 | 4786.7 | 5404.4 | 4311.2 |
| 37.5° | 6358.8 | 6332.5 | 6193.8 | 5905.1 | 5586.2 | 5295.8 | 5109.0 | 5132.5 | 5166.0 | 5810.0 | 4548.4 |
| 40°   | 6354.8 | 6365.6 | 6368.2 | 6371.1 | 6154.0 | 5876.0 | 5675.2 | 5650.6 | 5643.8 | 6255.3 | 4818.0 |
| 42.5° | 6036.6 | 6080.2 | 6221.2 | 6507.1 | 6639.1 | 6511.6 | 6327.5 | 6256.4 | 6221.2 | 6780.1 | 5103.9 |
| 45°   | 5549.3 | 5572.8 | 5836.8 | 6395.2 | 6887.4 | 7140.9 | 7001.7 | 6777.8 | 6714.1 | 7262.4 | 5341.1 |
| 47.5° | 5298.1 | 5323.7 | 5489.9 | 6098.7 | 6884.7 | 7649.5 | 7730.1 | 7303.8 | 7189.6 | 7681.9 | 5545.9 |
| 50°   | 4700.0 | 4753.8 | 4963.0 | 5582.8 | 6633.4 | 7883.4 | 8491.4 | 7930.4 | 7694.2 | 8090.3 | 5751.2 |
| 52.5° | 3601.8 | 3684.6 | 3919.0 | 4734.8 | 5996.2 | 7767.6 | 9100.8 | 8690.1 | 8356.5 | 8513.3 | 5927.5 |
| 55°   | 2271.9 | 2333.4 | 2530.5 | 3343.9 | 4796.8 | 7165.0 | 9331.8 | 9511.9 | 9215.4 | 8913.8 | 6080.2 |
| 57.5° | 1235.2 | 1262.7 | 1336.6 | 1846.3 | 3120.1 | 5833.0 | 8995.0 | 9979.6 | 9856.5 | 9254.0 | 6195.4 |
| 58°   | 1105.4 | 1124.0 | 1169.8 | 1600.1 | 2767.1 | 5468.8 | 8845.6 | 9981.3 | 9919.7 | 9303.8 | 6204.4 |
| 60°   | 820.2  | 810.7  | 769.8  | 913.1  | 1540.2 | 3778.0 | 7942.6 | 9581.8 | 9762.6 | 9364.8 | 6160.8 |
| 62.5° | 720.6  | 697.6  | 614.2  | 604.8  | 749.1  | 1740.5 | 6077.4 | 8207.8 | 8634.6 | 9016.8 | 5895.6 |
| 65°   | 677.0  | 652.3  | 544.8  | 510.2  | 540.4  | 736.3  | 3580.0 | 6155.7 | 6691.1 | 7961.6 | 5217.4 |
| 67.5° | 644.5  | 612.6  | 500.7  | 453.2  | 455.4  | 486.7  | 1435.0 | 3877.1 | 4479.6 | 6045.0 | 4058.3 |
| 70°   | 613.2  | 578.5  | 463.3  | 408.4  | 395.5  | 384.9  | 570.7  | 1940.8 | 2487.4 | 3818.3 | 2587.5 |
| 72.5° | 579.6  | 545.4  | 430.3  | 373.1  | 348.0  | 312.7  | 372.6  | 793.9  | 1108.9 | 1806.5 | 1173.8 |
| 75°   | 530.9  | 500.2  | 397.2  | 341.9  | 306.0  | 259.1  | 281.5  | 414.5  | 497.3  | 719.5  | 565.6  |
| 77.5° | 471.0  | 445.9  | 360.3  | 316.1  | 271.3  | 210.4  | 216.6  | 287.6  | 318.9  | 411.8  | 336.2  |
| 80°   | 338.4  | 347.5  | 320.5  | 284.2  | 241.7  | 170.7  | 166.2  | 209.8  | 226.6  | 264.6  | 218.7  |
| 82.5° | 237.7  | 242.8  | 265.2  | 232.1  | 199.7  | 134.3  | 122.5  | 147.7  | 157.8  | 173.9  | 118.0  |
| 85°   | 163.9  | 158.3  | 181.8  | 161.7  | 144.3  | 89.5   | 83.9   | 100.2  | 106.3  | 107.9  | 60.9   |
| 87.5° | 98.5   | 98.5   | 105.2  | 86.8   | 77.8   | 46.4   | 45.4   | 57.1   | 60.9   | 58.2   | 33.6   |
| 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°    | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 | 3156.0 |
| 2.5°  | 3164.2 | 3124.6 | 3040.1 | 2972.4 | 2886.8 | 2797.8 | 2748.1 | 2694.9 | 2658.5 | 2632.3 | 2674.2 |
| 5°    | 3188.4 | 3107.3 | 2932.6 | 2767.1 | 2584.1 | 2393.9 | 2249.5 | 2115.3 | 2021.9 | 1963.7 | 2018.6 |
| 7.5°  | 3226.4 | 3101.7 | 2823.6 | 2540.5 | 2212.1 | 1895.4 | 1612.3 | 1435.0 | 1331.6 | 1280.6 | 1312.5 |
| 10°   | 3270.0 | 3092.7 | 2695.4 | 2233.4 | 1763.5 | 1364.5 | 1153.0 | 1081.4 | 1057.9 | 1048.5 | 1052.9 |
| 12.5° | 3306.4 | 3073.7 | 2538.3 | 1861.9 | 1324.2 | 1077.6 | 1016.5 | 1014.9 | 1019.9 | 1021.0 | 1022.6 |
| 15°   | 3332.2 | 3045.7 | 2305.0 | 1474.8 | 1059.0 | 981.8  | 978.5  | 988.6  | 998.1  | 1002.0 | 1004.2 |
| 17.5° | 3349.5 | 2988.0 | 2041.5 | 1165.9 | 948.8  | 935.4  | 943.2  | 956.1  | 966.2  | 969.0  | 971.2  |
| 20°   | 3347.8 | 2903.6 | 1727.6 | 972.3  | 889.0  | 889.0  | 902.4  | 912.5  | 913.1  | 909.7  | 911.3  |
| 22.5° | 3330.4 | 2787.8 | 1423.2 | 869.3  | 835.9  | 845.3  | 858.8  | 849.3  | 810.0  | 784.4  | 786.0  |
| 25°   | 3301.4 | 2649.6 | 1162.5 | 803.9  | 786.5  | 803.4  | 799.4  | 727.8  | 672.0  | 646.7  | 646.7  |
| 27.5° | 3275.6 | 2486.2 | 962.2  | 746.9  | 737.4  | 758.0  | 688.7  | 623.8  | 600.3  | 588.6  | 584.6  |
| 30°   | 3257.1 | 2310.0 | 828.5  | 692.0  | 690.9  | 675.9  | 597.5  | 579.6  | 575.7  | 566.2  | 562.8  |
| 32.5° | 3261.6 | 2131.5 | 743.0  | 644.0  | 647.9  | 578.5  | 553.8  | 557.8  | 554.4  | 544.3  | 539.8  |
| 35°   | 3298.5 | 1962.0 | 687.0  | 600.3  | 588.6  | 522.6  | 528.2  | 535.4  | 534.3  | 520.3  | 515.8  |
| 37.5° | 3364.6 | 1801.4 | 650.1  | 563.9  | 513.6  | 494.5  | 503.4  | 514.7  | 511.9  | 502.4  | 499.0  |
| 40°   | 3433.9 | 1650.4 | 619.8  | 535.4  | 469.4  | 475.5  | 483.4  | 489.5  | 492.3  | 495.2  | 492.9  |
| 42.5° | 3501.6 | 1492.6 | 583.0  | 506.3  | 450.9  | 457.7  | 461.0  | 467.2  | 482.3  | 492.9  | 492.3  |
| 45°   | 3541.9 | 1344.3 | 544.8  | 464.9  | 436.4  | 440.4  | 438.0  | 450.3  | 468.8  | 486.2  | 486.7  |
| 47.5° | 3586.7 | 1229.1 | 514.7  | 426.8  | 422.4  | 425.2  | 418.5  | 430.8  | 447.5  | 468.8  | 471.0  |
| 50°   | 3640.9 | 1160.4 | 490.7  | 396.6  | 403.3  | 403.3  | 401.6  | 412.9  | 436.4  | 461.0  | 465.5  |
| 52.5° | 3702.5 | 1146.9 | 470.5  | 374.9  | 384.4  | 383.8  | 385.4  | 402.3  | 428.0  | 452.0  | 455.9  |
| 55°   | 3777.4 | 1183.3 | 448.7  | 358.6  | 365.9  | 368.1  | 373.6  | 392.8  | 414.5  | 442.0  | 443.7  |
| 57.5° | 3864.7 | 1257.1 | 431.3  | 345.7  | 349.1  | 356.4  | 365.4  | 382.6  | 406.1  | 436.4  | 438.0  |
| 58°   | 3879.2 | 1272.8 | 428.6  | 344.6  | 345.7  | 354.1  | 364.2  | 381.0  | 404.5  | 437.5  | 439.2  |
| 60°   | 3879.8 | 1324.8 | 422.4  | 339.6  | 332.9  | 346.9  | 358.1  | 374.9  | 401.6  | 441.4  | 445.3  |
| 62.5° | 3742.2 | 1324.2 | 417.9  | 332.3  | 319.5  | 336.8  | 349.6  | 369.3  | 398.9  | 450.9  | 458.8  |
| 65°   | 3295.3 | 1203.4 | 396.6  | 321.1  | 308.7  | 327.9  | 342.4  | 365.4  | 406.8  | 492.3  | 497.3  |
| 67.5° | 2577.4 | 986.3  | 356.9  | 305.5  | 294.8  | 318.9  | 337.9  | 364.8  | 415.0  | 501.8  | 505.3  |
| 70°   | 1704.1 | 737.9  | 313.2  | 287.6  | 280.2  | 308.2  | 340.2  | 383.8  | 405.6  | 481.8  | 472.8  |
| 72.5° | 884.5  | 518.1  | 278.1  | 265.2  | 263.6  | 298.8  | 372.6  | 381.6  | 396.1  | 453.2  | 442.0  |
| 75°   | 464.4  | 359.7  | 247.3  | 240.6  | 243.3  | 296.5  | 439.8  | 371.5  | 383.8  | 433.5  | 454.8  |
| 77.5° | 284.2  | 290.4  | 221.0  | 218.2  | 223.8  | 289.7  | 439.2  | 358.6  | 365.9  | 398.9  | 422.4  |
| 80°   | 190.2  | 235.6  | 200.8  | 201.4  | 205.3  | 265.2  | 394.4  | 338.4  | 344.0  | 377.1  | 401.1  |
| 82.5° | 120.3  | 139.3  | 182.4  | 191.9  | 186.9  | 218.7  | 335.1  | 308.2  | 316.1  | 431.3  | 455.9  |
| 85°   | 60.9   | 87.3   | 158.3  | 184.6  | 168.4  | 153.3  | 271.9  | 270.2  | 274.1  | 311.1  | 325.0  |
| 87.5° | 28.0   | 48.1   | 123.7  | 161.1  | 127.0  | 95.7   | 197.5  | 200.3  | 216.0  | 221.0  | 221.0  |
| 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)