

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: P200416

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200416  
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: GPC-AF-02-LED-E1-AFL-7060  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12744 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

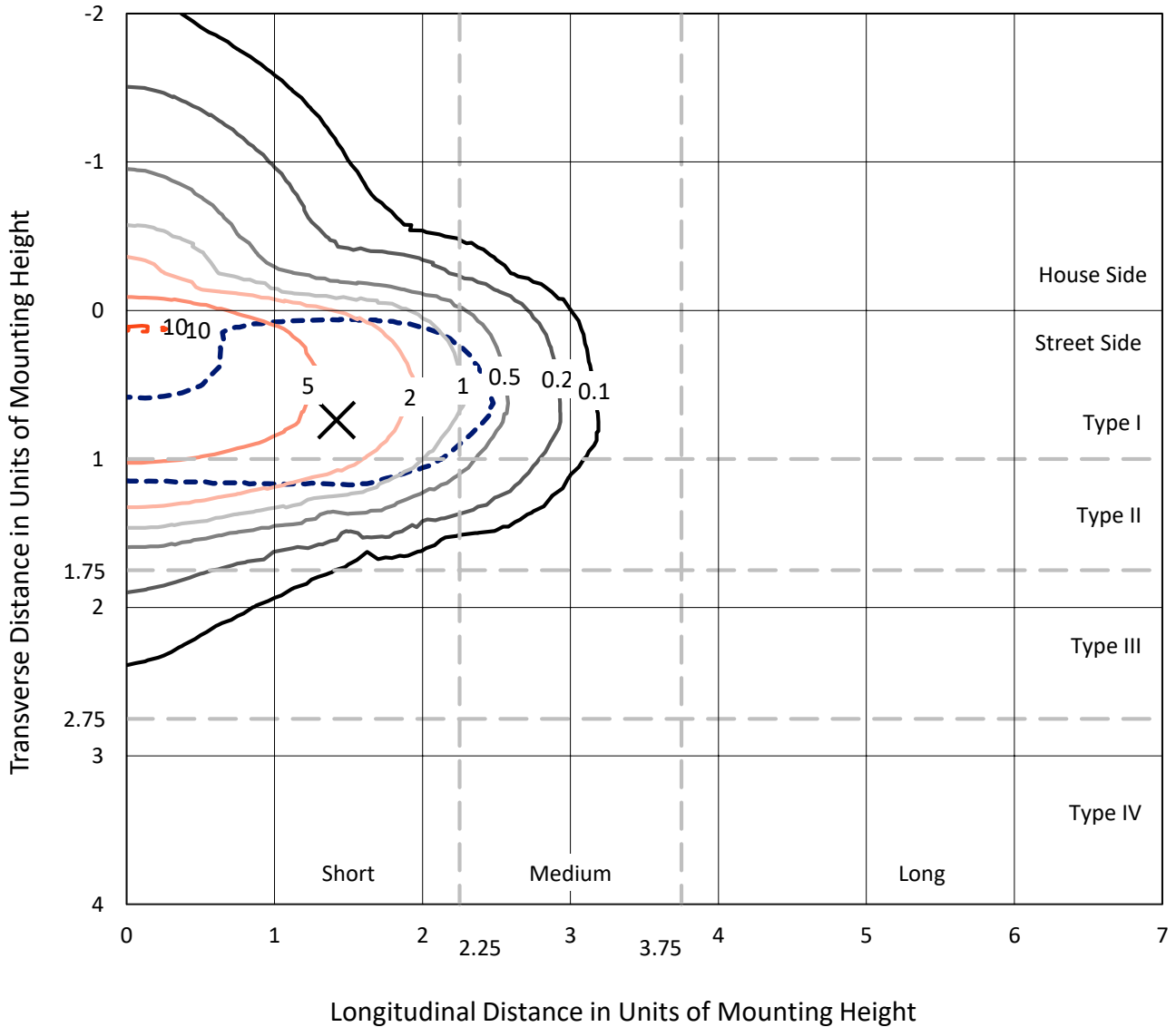
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

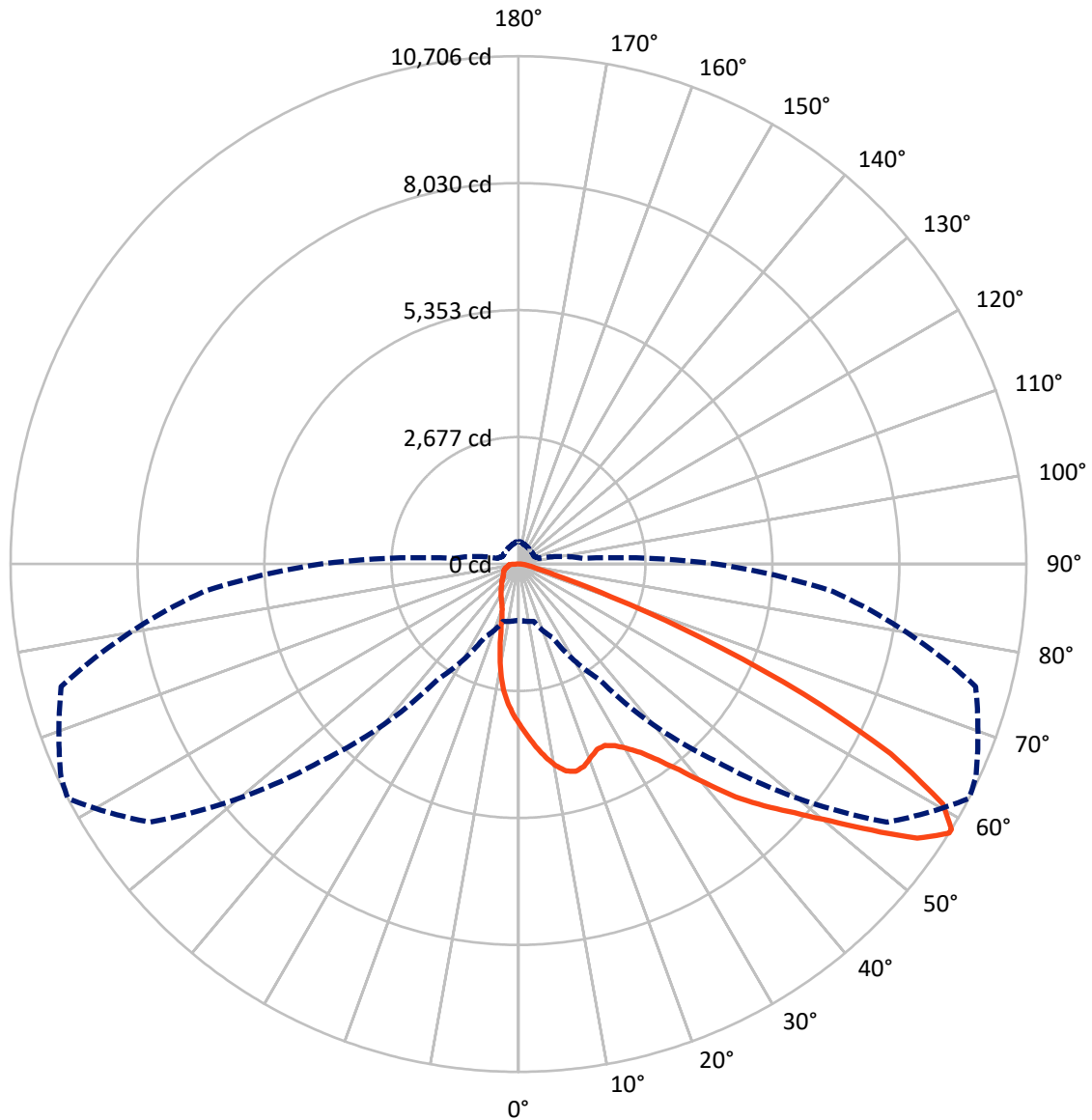
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral      - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1943.5   | 0.0    | 1943.5  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 10800.5  | 0.0    | 10800.5 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 12744.0  | 0.0    | 12744.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 302.8   | 2.4       |
| 10°-20°   | 773.9   | 6.1       |
| 20°-30°   | 1251.0  | 9.8       |
| 30°-40°   | 1986.0  | 15.6      |
| 40°-50°   | 2905.9  | 22.8      |
| 50°-60°   | 3039.3  | 23.8      |
| 60°-70°   | 1795.7  | 14.1      |
| 70°-80°   | 505.9   | 4.0       |
| 80°-90°   | 183.6   | 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°    | 12744.0 | 100.0     |
| 0°-180°   | 12744.0 | 100.0     |



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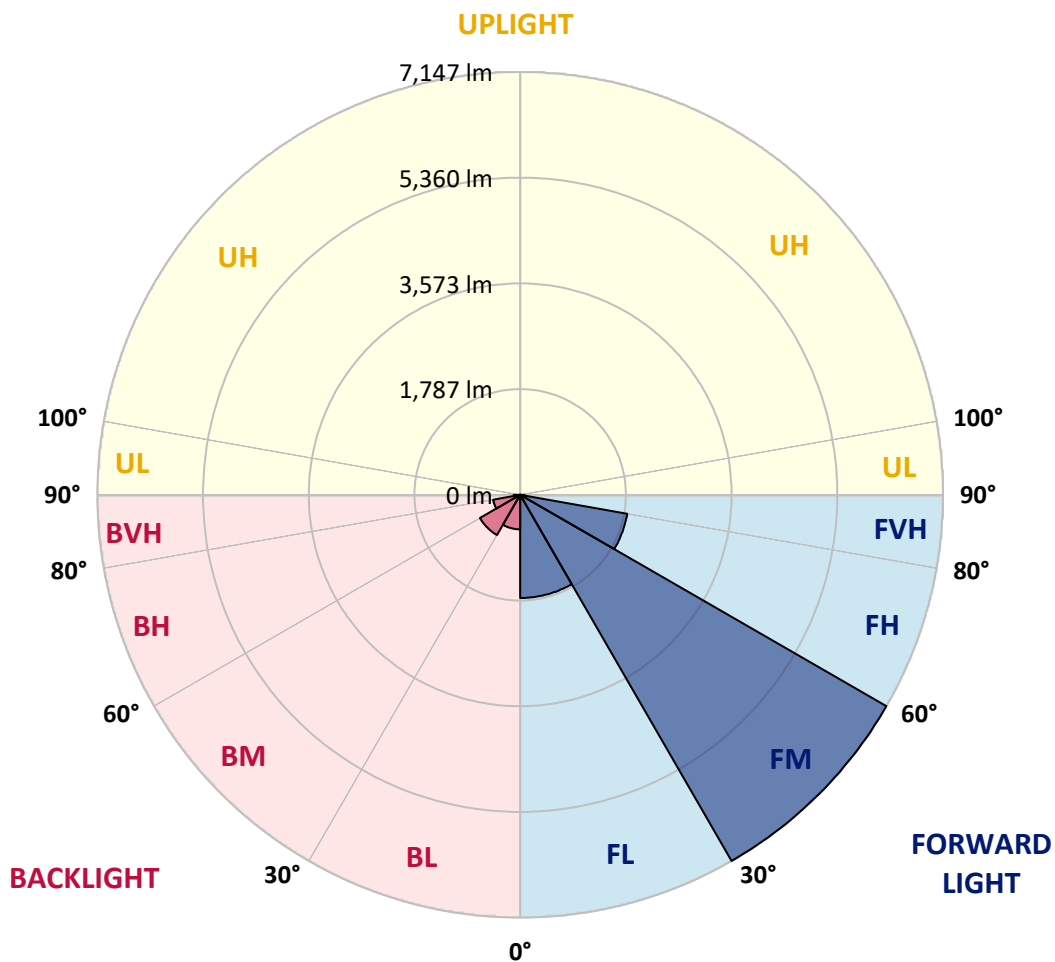
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1743.5 | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 7146.8 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 1837.7 | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 72.4   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 584.1  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 784.5  | 6.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 463.8  | 3.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 111.2  | 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°    | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2  | 3385.2  | 3385.2  | 3385.2  | 3385.2 |
| 2.5°  | 3868.3 | 3837.1 | 3817.3 | 3799.9 | 3777.1 | 3728.4 | 3663.0  | 3621.6  | 3600.6  | 3529.2  | 3444.6 |
| 5°    | 4247.5 | 4219.9 | 4199.5 | 4176.1 | 4135.3 | 4059.1 | 3953.5  | 3869.5  | 3828.1  | 3685.2  | 3516.0 |
| 7.5°  | 4158.7 | 4170.1 | 4205.5 | 4267.3 | 4320.1 | 4309.9 | 4215.7  | 4108.9  | 4054.3  | 3855.7  | 3598.8 |
| 10°   | 3623.4 | 3643.2 | 3704.4 | 3849.1 | 4083.1 | 4323.1 | 4396.4  | 4322.5  | 4267.3  | 4024.3  | 3684.0 |
| 12.5° | 3516.0 | 3515.4 | 3520.2 | 3558.6 | 3697.8 | 4035.7 | 4402.4  | 4476.8  | 4443.8  | 4185.1  | 3771.1 |
| 15°   | 3559.8 | 3561.0 | 3557.4 | 3573.6 | 3616.8 | 3750.6 | 4218.7  | 4536.2  | 4559.6  | 4347.2  | 3861.1 |
| 17.5° | 3675.0 | 3672.0 | 3658.2 | 3658.2 | 3673.8 | 3726.0 | 4002.7  | 4481.0  | 4589.0  | 4490.6  | 3940.3 |
| 20°   | 3868.3 | 3854.5 | 3817.9 | 3784.3 | 3767.5 | 3795.7 | 3913.9  | 4353.8  | 4538.0  | 4616.0  | 4005.7 |
| 22.5° | 4102.3 | 4091.5 | 4032.1 | 3960.1 | 3901.9 | 3901.3 | 3959.5  | 4242.7  | 4449.8  | 4734.2  | 4060.9 |
| 25°   | 4404.8 | 4387.4 | 4299.1 | 4183.9 | 4081.9 | 4042.9 | 4059.1  | 4237.3  | 4401.8  | 4862.6  | 4110.1 |
| 27.5° | 4760.0 | 4728.2 | 4623.8 | 4457.6 | 4307.5 | 4228.9 | 4205.5  | 4335.1  | 4445.6  | 5021.7  | 4178.5 |
| 30°   | 5190.9 | 5154.3 | 5020.5 | 4803.8 | 4592.0 | 4463.0 | 4413.2  | 4508.6  | 4590.8  | 5215.5  | 4288.3 |
| 32.5° | 5681.2 | 5628.4 | 5473.5 | 5234.7 | 4956.3 | 4759.4 | 4678.4  | 4737.8  | 4803.2  | 5448.9  | 4425.8 |
| 35°   | 6358.7 | 6295.7 | 6071.8 | 5742.4 | 5427.9 | 5157.3 | 5027.7  | 5070.9  | 5134.5  | 5797.0  | 4624.4 |
| 37.5° | 6820.8 | 6792.6 | 6643.7 | 6334.1 | 5992.0 | 5680.6 | 5480.1  | 5505.3  | 5541.4  | 6232.1  | 4878.8 |
| 40°   | 6816.6 | 6828.0 | 6831.0 | 6834.0 | 6601.1 | 6302.9 | 6087.5  | 6061.0  | 6053.8  | 6709.8  | 5168.1 |
| 42.5° | 6475.1 | 6521.9 | 6673.2 | 6979.8 | 7121.4 | 6984.6 | 6787.2  | 6711.0  | 6673.2  | 7272.7  | 5474.7 |
| 45°   | 5952.4 | 5977.6 | 6260.9 | 6859.8 | 7387.9 | 7659.7 | 7510.3  | 7270.3  | 7201.8  | 7789.9  | 5729.2 |
| 47.5° | 5683.0 | 5710.6 | 5888.8 | 6541.7 | 7384.9 | 8205.2 | 8291.6  | 7834.4  | 7711.9  | 8240.0  | 5948.8 |
| 50°   | 5041.5 | 5099.1 | 5323.5 | 5988.4 | 7115.4 | 8456.1 | 9108.4  | 8506.5  | 8253.2  | 8678.1  | 6169.1 |
| 52.5° | 3863.5 | 3952.3 | 4203.7 | 5078.7 | 6431.9 | 8331.8 | 9761.9  | 9321.4  | 8963.7  | 9131.8  | 6358.1 |
| 55°   | 2437.0 | 2503.0 | 2714.3 | 3586.8 | 5145.3 | 7685.5 | 10009.7 | 10203.0 | 9884.9  | 9561.4  | 6521.9 |
| 57.5° | 1325.0 | 1354.4 | 1433.6 | 1980.3 | 3346.8 | 6256.7 | 9648.5  | 10704.6 | 10572.6 | 9926.3  | 6645.5 |
| 58°   | 1185.8 | 1205.6 | 1254.8 | 1716.3 | 2968.1 | 5866.0 | 9488.2  | 10706.4 | 10640.4 | 9979.7  | 6655.1 |
| 60°   | 879.8  | 869.6  | 825.7  | 979.4  | 1652.1 | 4052.5 | 8519.7  | 10278.0 | 10471.8 | 10045.1 | 6608.3 |
| 62.5° | 772.9  | 748.3  | 658.9  | 648.7  | 803.5  | 1866.9 | 6518.9  | 8804.1  | 9262.0  | 9671.9  | 6323.9 |
| 65°   | 726.1  | 699.7  | 584.5  | 547.3  | 579.7  | 789.7  | 3840.1  | 6602.9  | 7177.2  | 8540.1  | 5596.6 |
| 67.5° | 691.3  | 657.1  | 537.1  | 486.1  | 488.5  | 522.1  | 1539.3  | 4158.7  | 4805.0  | 6484.1  | 4353.2 |
| 70°   | 657.7  | 620.5  | 496.9  | 438.1  | 424.3  | 412.9  | 612.1   | 2081.8  | 2668.1  | 4095.7  | 2775.5 |
| 72.5° | 621.7  | 585.1  | 461.5  | 400.3  | 373.3  | 335.5  | 399.7   | 851.5   | 1189.4  | 1937.7  | 1259.0 |
| 75°   | 569.5  | 536.5  | 426.1  | 366.7  | 328.3  | 277.8  | 301.9   | 444.7   | 533.5   | 771.7   | 606.7  |
| 77.5° | 505.3  | 478.3  | 386.5  | 339.1  | 291.1  | 225.6  | 232.2   | 308.5   | 342.1   | 441.7   | 360.7  |
| 80°   | 363.1  | 372.7  | 343.9  | 304.9  | 259.2  | 183.0  | 178.2   | 225.0   | 243.0   | 283.8   | 234.6  |
| 82.5° | 255.0  | 260.4  | 284.4  | 249.0  | 214.2  | 144.0  | 131.4   | 158.4   | 169.2   | 186.6   | 126.6  |
| 85°   | 175.8  | 169.8  | 195.0  | 173.4  | 154.8  | 96.0   | 90.0    | 107.4   | 114.0   | 115.8   | 65.4   |
| 87.5° | 105.6  | 105.6  | 112.8  | 93.0   | 83.4   | 49.8   | 48.6    | 61.2    | 65.4    | 62.4    | 36.0   |
| 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°    | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 | 3385.2 |
| 2.5°  | 3394.2 | 3351.6 | 3261.0 | 3188.4 | 3096.5 | 3001.1 | 2947.7 | 2890.7 | 2851.7 | 2823.5 | 2868.5 |
| 5°    | 3420.0 | 3333.0 | 3145.7 | 2968.1 | 2771.9 | 2567.8 | 2413.0 | 2269.0 | 2168.8 | 2106.4 | 2165.2 |
| 7.5°  | 3460.8 | 3327.0 | 3028.7 | 2725.1 | 2372.8 | 2033.2 | 1729.5 | 1539.3 | 1428.2 | 1373.6 | 1407.8 |
| 10°   | 3507.6 | 3317.4 | 2891.3 | 2395.6 | 1891.5 | 1463.7 | 1236.8 | 1160.0 | 1134.8 | 1124.6 | 1129.4 |
| 12.5° | 3546.6 | 3297.0 | 2722.7 | 1997.1 | 1420.4 | 1155.8 | 1090.4 | 1088.6 | 1094.0 | 1095.2 | 1097.0 |
| 15°   | 3574.2 | 3267.0 | 2472.4 | 1581.9 | 1136.0 | 1053.2 | 1049.6 | 1060.4 | 1070.6 | 1074.8 | 1077.2 |
| 17.5° | 3592.8 | 3205.2 | 2189.8 | 1250.6 | 1017.8 | 1003.4 | 1011.8 | 1025.6 | 1036.4 | 1039.4 | 1041.8 |
| 20°   | 3591.0 | 3114.5 | 1853.1 | 1043.0 | 953.6  | 953.6  | 968.0  | 978.8  | 979.4  | 975.8  | 977.6  |
| 22.5° | 3572.4 | 2990.3 | 1526.7 | 932.6  | 896.6  | 906.8  | 921.2  | 911.0  | 868.9  | 841.3  | 843.1  |
| 25°   | 3541.2 | 2842.1 | 1247.0 | 862.3  | 843.7  | 861.7  | 857.5  | 780.7  | 720.7  | 693.7  | 693.7  |
| 27.5° | 3513.6 | 2666.9 | 1032.2 | 801.1  | 790.9  | 813.1  | 738.7  | 669.1  | 643.9  | 631.3  | 627.1  |
| 30°   | 3493.8 | 2477.8 | 888.8  | 742.3  | 741.1  | 724.9  | 640.9  | 621.7  | 617.5  | 607.3  | 603.7  |
| 32.5° | 3498.6 | 2286.4 | 796.9  | 690.7  | 694.9  | 620.5  | 594.1  | 598.3  | 594.7  | 583.9  | 579.1  |
| 35°   | 3538.2 | 2104.6 | 736.9  | 643.9  | 631.3  | 560.5  | 566.5  | 574.3  | 573.1  | 558.1  | 553.3  |
| 37.5° | 3609.0 | 1932.3 | 697.3  | 604.9  | 550.9  | 530.5  | 540.1  | 552.1  | 549.1  | 538.9  | 535.3  |
| 40°   | 3683.4 | 1770.3 | 664.9  | 574.3  | 503.5  | 510.1  | 518.5  | 525.1  | 528.1  | 531.1  | 528.7  |
| 42.5° | 3756.0 | 1601.1 | 625.3  | 543.1  | 483.7  | 490.9  | 494.5  | 501.1  | 517.3  | 528.7  | 528.1  |
| 45°   | 3799.3 | 1442.0 | 584.5  | 498.7  | 468.1  | 472.3  | 469.9  | 483.1  | 502.9  | 521.5  | 522.1  |
| 47.5° | 3847.3 | 1318.4 | 552.1  | 457.9  | 453.1  | 456.1  | 448.9  | 462.1  | 480.1  | 502.9  | 505.3  |
| 50°   | 3905.5 | 1244.6 | 526.3  | 425.5  | 432.7  | 432.7  | 430.9  | 442.9  | 468.1  | 494.5  | 499.3  |
| 52.5° | 3971.5 | 1230.2 | 504.7  | 402.1  | 412.3  | 411.7  | 413.5  | 431.5  | 459.1  | 484.9  | 489.1  |
| 55°   | 4051.9 | 1269.2 | 481.3  | 384.7  | 392.5  | 394.9  | 400.9  | 421.3  | 444.7  | 474.1  | 475.9  |
| 57.5° | 4145.5 | 1348.4 | 462.7  | 370.9  | 374.5  | 382.3  | 391.9  | 410.5  | 435.7  | 468.1  | 469.9  |
| 58°   | 4161.1 | 1365.2 | 459.7  | 369.7  | 370.9  | 379.9  | 390.7  | 408.7  | 433.9  | 469.3  | 471.1  |
| 60°   | 4161.7 | 1421.0 | 453.1  | 364.3  | 357.1  | 372.1  | 384.1  | 402.1  | 430.9  | 473.5  | 477.7  |
| 62.5° | 4014.1 | 1420.4 | 448.3  | 356.5  | 342.7  | 361.3  | 375.1  | 396.1  | 427.9  | 483.7  | 492.1  |
| 65°   | 3534.6 | 1290.8 | 425.5  | 344.5  | 331.3  | 351.7  | 367.3  | 391.9  | 436.3  | 528.1  | 533.5  |
| 67.5° | 2764.7 | 1058.0 | 382.9  | 327.7  | 316.3  | 342.1  | 362.5  | 391.3  | 445.3  | 538.3  | 541.9  |
| 70°   | 1827.9 | 791.5  | 336.1  | 308.5  | 300.7  | 330.7  | 364.9  | 411.7  | 435.1  | 516.7  | 507.1  |
| 72.5° | 948.8  | 555.7  | 298.3  | 284.4  | 282.6  | 320.5  | 399.7  | 409.3  | 424.9  | 486.1  | 474.1  |
| 75°   | 498.1  | 385.9  | 265.2  | 258.0  | 261.0  | 318.1  | 471.7  | 398.5  | 411.7  | 465.1  | 487.9  |
| 77.5° | 304.9  | 311.5  | 237.0  | 234.0  | 240.0  | 310.9  | 471.1  | 384.7  | 392.5  | 427.9  | 453.1  |
| 80°   | 204.0  | 252.6  | 215.4  | 216.0  | 220.2  | 284.4  | 423.1  | 363.1  | 369.1  | 404.5  | 430.3  |
| 82.5° | 129.0  | 149.4  | 195.6  | 205.8  | 200.4  | 234.6  | 359.5  | 330.7  | 339.1  | 462.7  | 489.1  |
| 85°   | 65.4   | 93.6   | 169.8  | 198.0  | 180.6  | 164.4  | 291.7  | 289.9  | 294.1  | 333.7  | 348.7  |
| 87.5° | 30.0   | 51.6   | 132.6  | 172.8  | 136.2  | 102.6  | 211.8  | 214.8  | 231.6  | 237.0  | 237.0  |
| 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)