

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: P197708

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C2-LED-E1-MQ-CG-7060  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS  
Light Source: (168) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3911.8 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 34  
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

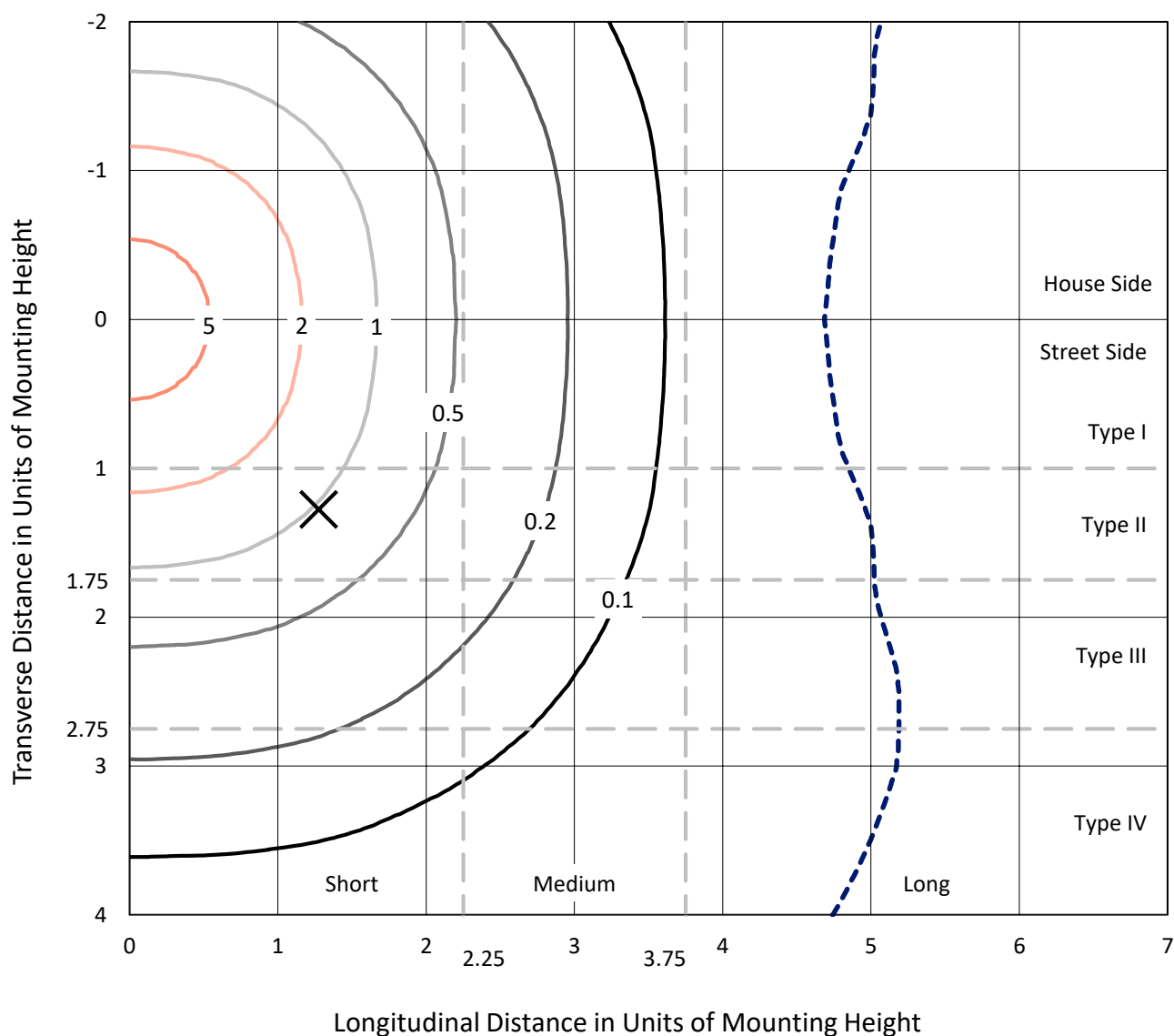


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

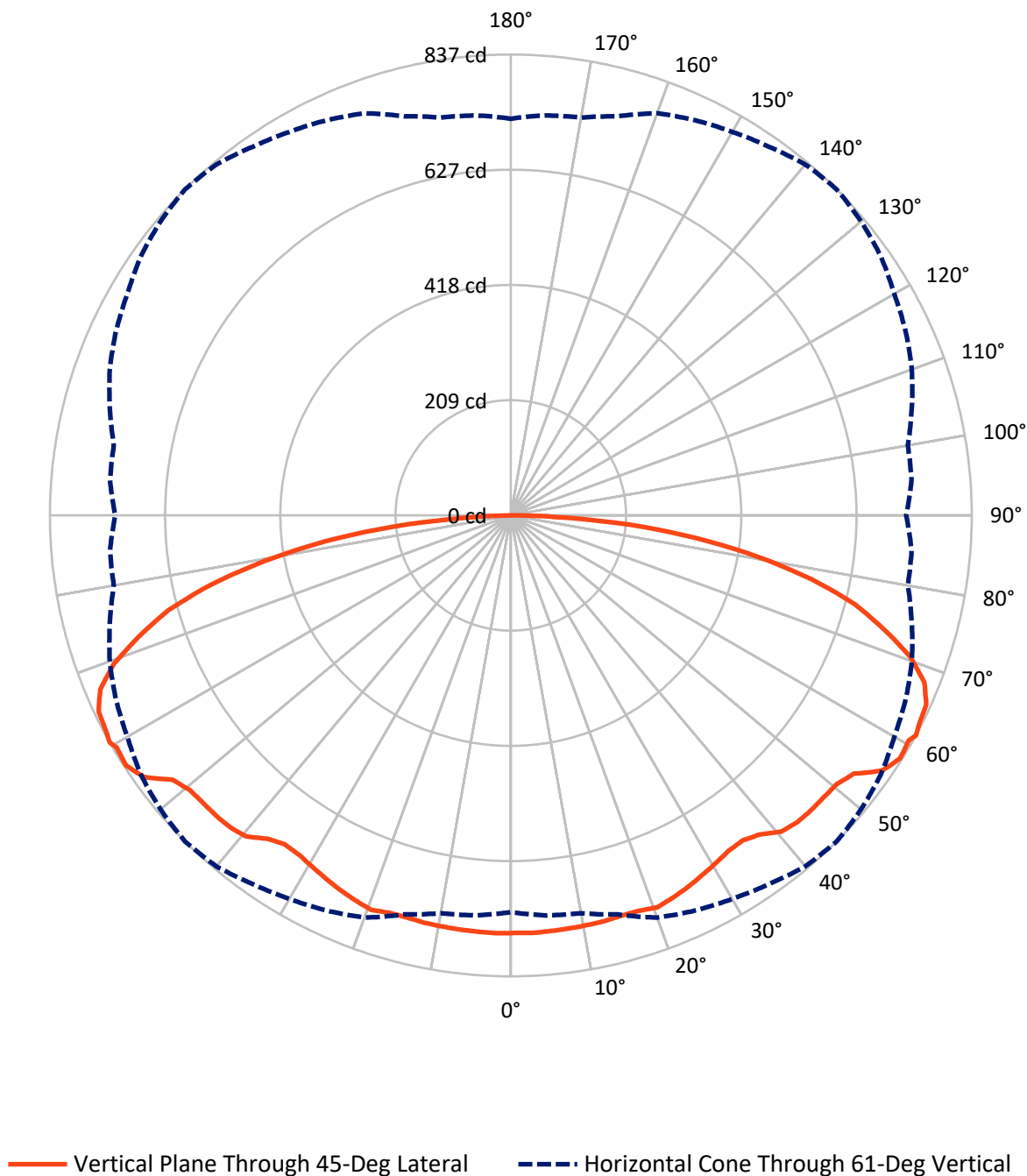


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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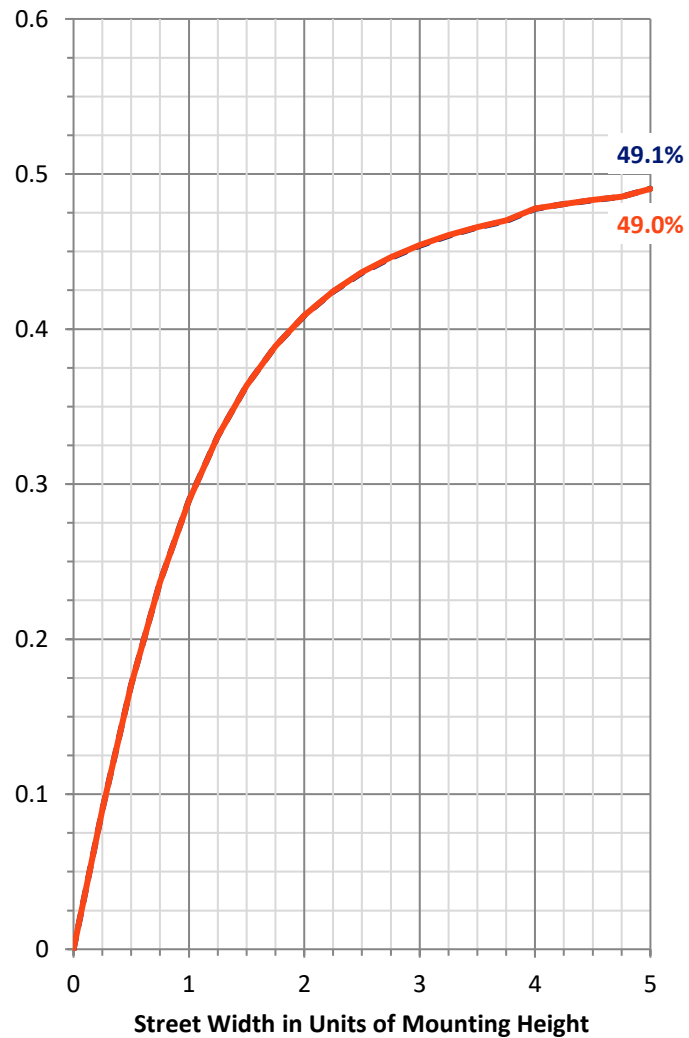
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1955.9   | 0.0    | 1955.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1955.9   | 0.0    | 1955.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3911.8   | 0.0    | 3911.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.3   | 1.8       |
| 10°-20°   | 213.8  | 5.5       |
| 20°-30°   | 343.9  | 8.8       |
| 30°-40°   | 455.6  | 11.6      |
| 40°-50°   | 575.4  | 14.7      |
| 50°-60°   | 689.4  | 17.6      |
| 60°-70°   | 753.8  | 19.3      |
| 70°-80°   | 603.4  | 15.4      |
| 80°-90°   | 204.2  | 5.2       |
| 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°    | 3911.8 | 100.0     |
| 0°-180°   | 3911.8 | 100.0     |

**Coefficient of Utilization**



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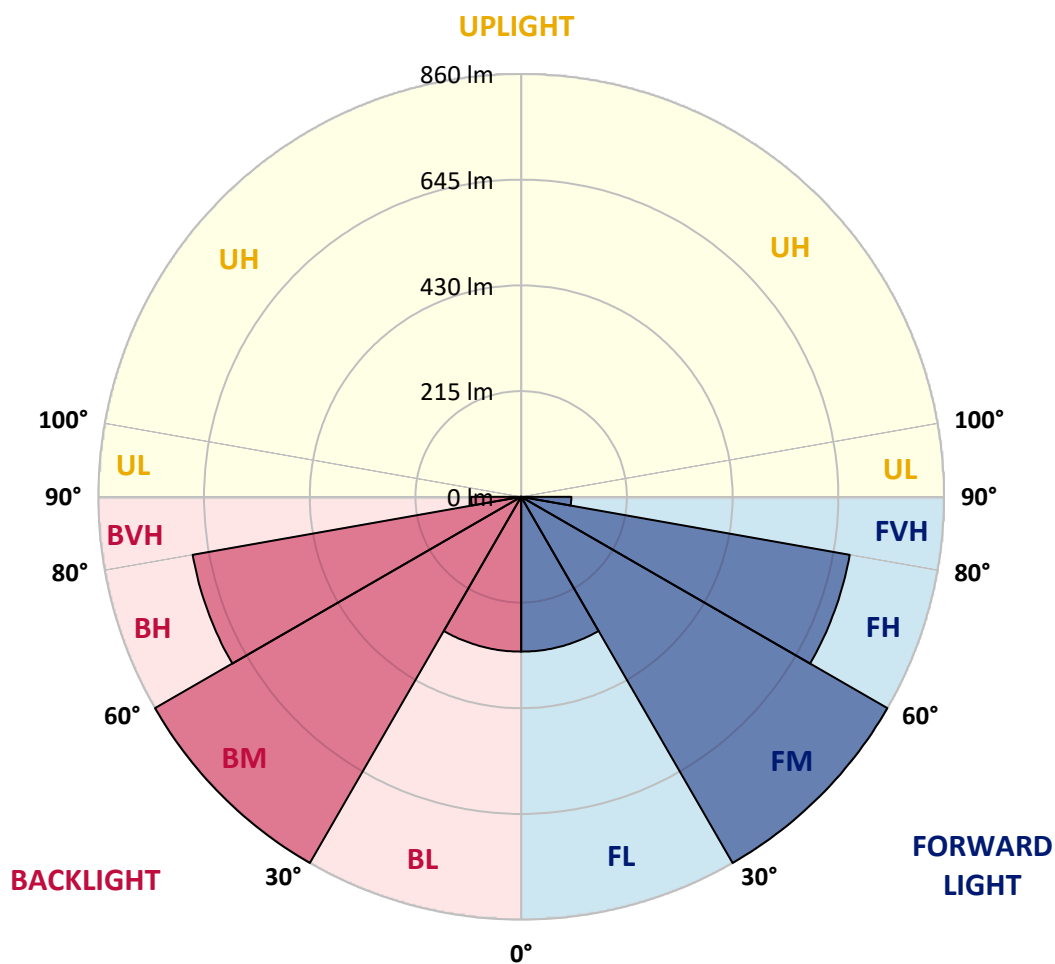
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 315.0  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 860.2  | 22.0      |                         |      |         |
| FH   | (60°-80°)   | 678.6  | 17.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 102.1  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 315.0  | 8.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 860.2  | 22.0      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 678.6  | 17.3      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 102.1  | 2.6       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 |
| 2.5°  | 758.6 | 757.9 | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 |
| 5°    | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 |
| 7.5°  | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.9 | 757.1 | 757.9 |
| 10°   | 755.7 | 755.7 | 755.7 | 755.7 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 | 756.4 |
| 12.5° | 754.3 | 754.3 | 754.3 | 754.3 | 755.0 | 755.0 | 755.0 | 755.0 | 755.7 | 755.7 | 755.0 |
| 15°   | 752.8 | 752.0 | 752.0 | 752.8 | 752.8 | 753.5 | 753.5 | 753.5 | 754.3 | 753.5 | 753.5 |
| 17.5° | 751.3 | 750.6 | 751.3 | 752.0 | 752.0 | 752.8 | 753.5 | 753.5 | 754.3 | 754.3 | 754.3 |
| 20°   | 753.5 | 752.8 | 753.5 | 754.3 | 755.0 | 756.4 | 757.1 | 757.9 | 758.6 | 759.3 | 759.3 |
| 22.5° | 749.2 | 748.4 | 749.2 | 749.2 | 749.9 | 750.6 | 752.0 | 752.8 | 753.5 | 753.5 | 753.5 |
| 25°   | 742.6 | 742.6 | 743.3 | 743.3 | 744.1 | 744.7 | 745.5 | 746.2 | 746.2 | 747.0 | 746.2 |
| 27.5° | 735.3 | 735.3 | 736.0 | 736.0 | 737.5 | 737.5 | 738.2 | 738.9 | 739.6 | 739.6 | 739.6 |
| 30°   | 726.6 | 726.6 | 727.2 | 728.0 | 729.5 | 730.2 | 730.9 | 731.7 | 732.4 | 732.4 | 732.4 |
| 32.5° | 718.5 | 717.8 | 718.5 | 720.0 | 722.2 | 723.6 | 725.1 | 725.9 | 725.9 | 725.9 | 726.6 |
| 35°   | 712.0 | 712.7 | 714.2 | 715.6 | 718.5 | 720.0 | 721.4 | 723.6 | 724.4 | 724.4 | 724.4 |
| 37.5° | 713.5 | 714.2 | 716.3 | 719.3 | 722.9 | 727.2 | 730.2 | 733.1 | 735.3 | 734.6 | 733.8 |
| 40°   | 722.9 | 724.4 | 728.0 | 732.4 | 738.2 | 744.1 | 748.4 | 752.0 | 754.3 | 755.0 | 754.3 |
| 42.5° | 724.4 | 725.9 | 728.7 | 735.3 | 741.9 | 748.4 | 754.3 | 757.9 | 760.8 | 761.6 | 760.8 |
| 45°   | 723.6 | 723.6 | 728.0 | 735.3 | 741.9 | 748.4 | 755.7 | 760.8 | 763.7 | 763.7 | 763.7 |
| 47.5° | 718.5 | 720.8 | 723.6 | 730.9 | 739.6 | 746.2 | 753.5 | 758.6 | 762.2 | 764.4 | 762.2 |
| 50°   | 718.5 | 718.5 | 723.6 | 728.7 | 736.8 | 748.4 | 758.6 | 763.7 | 767.4 | 766.7 | 767.4 |
| 52.5° | 717.1 | 721.4 | 724.4 | 731.7 | 746.2 | 757.9 | 765.9 | 773.2 | 778.3 | 779.1 | 777.6 |
| 55°   | 730.2 | 730.9 | 737.5 | 751.3 | 765.2 | 778.3 | 792.8 | 803.8 | 812.5 | 817.6 | 810.3 |
| 57.5° | 740.4 | 736.8 | 749.9 | 761.6 | 777.6 | 797.3 | 819.1 | 827.8 | 834.4 | 832.9 | 835.1 |
| 60°   | 726.6 | 731.7 | 741.1 | 753.5 | 779.1 | 798.7 | 810.3 | 819.9 | 827.8 | 830.0 | 827.1 |
| 61°   | 720.0 | 728.7 | 733.1 | 749.9 | 776.8 | 791.4 | 803.8 | 816.9 | 831.5 | 836.6 | 830.0 |
| 62.5° | 709.1 | 722.9 | 721.4 | 748.4 | 765.2 | 781.9 | 805.2 | 820.6 | 830.8 | 832.3 | 830.8 |
| 65°   | 709.8 | 707.6 | 724.4 | 744.1 | 760.8 | 790.7 | 810.3 | 819.9 | 825.7 | 828.6 | 827.1 |
| 67.5° | 686.4 | 679.2 | 699.6 | 713.5 | 741.9 | 765.2 | 784.1 | 797.9 | 806.7 | 809.6 | 806.0 |
| 70°   | 632.6 | 637.7 | 652.2 | 673.4 | 696.7 | 725.1 | 742.6 | 760.8 | 768.1 | 768.8 | 768.8 |
| 72.5° | 580.8 | 583.7 | 598.3 | 618.0 | 644.9 | 669.7 | 687.2 | 701.8 | 708.4 | 709.1 | 710.5 |
| 75°   | 512.3 | 515.2 | 532.0 | 550.2 | 577.2 | 598.3 | 610.7 | 628.2 | 637.7 | 645.6 | 639.1 |
| 77.5° | 432.8 | 438.0 | 451.1 | 470.8 | 495.6 | 507.2 | 529.1 | 549.5 | 556.1 | 558.2 | 556.1 |
| 80°   | 343.3 | 349.8 | 361.5 | 387.7 | 398.6 | 417.6 | 438.7 | 447.4 | 453.3 | 454.8 | 455.5 |
| 82.5° | 247.0 | 252.1 | 264.5 | 282.8 | 295.2 | 310.4 | 325.0 | 336.0 | 342.5 | 341.0 | 340.3 |
| 85°   | 145.7 | 147.2 | 160.3 | 172.7 | 182.2 | 191.6 | 203.3 | 211.3 | 212.8 | 215.7 | 214.9 |
| 87.5° | 43.8  | 44.4  | 50.2  | 56.8  | 61.2  | 65.6  | 72.9  | 82.3  | 84.6  | 78.7  | 79.5  |
| 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):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 |
| 2.5°  | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 | 758.6 | 757.9 | 758.6 |
| 5°    | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 | 757.9 |
| 7.5°  | 757.9 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |
| 10°   | 756.4 | 756.4 | 756.4 | 756.4 | 755.7 | 755.7 | 755.7 | 755.7 |
| 12.5° | 755.0 | 755.0 | 755.0 | 755.0 | 754.3 | 754.3 | 754.3 | 754.3 |
| 15°   | 753.5 | 753.5 | 753.5 | 753.5 | 752.8 | 752.8 | 752.8 | 752.8 |
| 17.5° | 754.3 | 753.5 | 752.8 | 752.8 | 752.0 | 751.3 | 751.3 | 751.3 |
| 20°   | 758.6 | 757.9 | 756.4 | 755.0 | 754.3 | 753.5 | 753.5 | 753.5 |
| 22.5° | 752.8 | 752.0 | 750.6 | 749.9 | 749.9 | 749.2 | 748.4 | 748.4 |
| 25°   | 746.2 | 744.7 | 744.7 | 744.1 | 744.1 | 742.6 | 742.6 | 741.9 |
| 27.5° | 738.9 | 738.2 | 737.5 | 736.8 | 736.8 | 736.0 | 735.3 | 734.6 |
| 30°   | 732.4 | 730.9 | 729.5 | 728.7 | 728.0 | 727.2 | 727.2 | 727.2 |
| 32.5° | 725.9 | 724.4 | 723.6 | 721.4 | 720.0 | 719.3 | 718.5 | 718.5 |
| 35°   | 723.6 | 721.4 | 720.0 | 717.8 | 715.6 | 714.2 | 713.5 | 712.0 |
| 37.5° | 732.4 | 729.5 | 727.2 | 723.6 | 718.5 | 716.3 | 714.2 | 713.5 |
| 40°   | 751.3 | 748.4 | 744.1 | 738.2 | 732.4 | 728.0 | 724.4 | 722.9 |
| 42.5° | 757.9 | 754.3 | 748.4 | 742.6 | 735.3 | 728.7 | 725.9 | 724.4 |
| 45°   | 760.1 | 756.4 | 748.4 | 741.1 | 734.6 | 728.7 | 724.4 | 722.9 |
| 47.5° | 757.9 | 752.8 | 745.5 | 739.6 | 730.2 | 722.9 | 720.0 | 717.8 |
| 50°   | 763.0 | 758.6 | 749.2 | 736.0 | 728.0 | 723.6 | 718.5 | 717.8 |
| 52.5° | 773.2 | 765.2 | 756.4 | 747.0 | 731.7 | 722.9 | 720.0 | 716.3 |
| 55°   | 803.8 | 792.8 | 777.6 | 762.2 | 752.8 | 738.9 | 730.2 | 730.2 |
| 57.5° | 827.1 | 818.4 | 798.7 | 778.3 | 760.8 | 750.6 | 737.5 | 738.2 |
| 60°   | 820.6 | 808.9 | 799.4 | 779.1 | 754.3 | 740.4 | 735.3 | 725.9 |
| 61°   | 819.9 | 803.8 | 790.7 | 774.6 | 753.5 | 731.7 | 730.2 | 717.8 |
| 62.5° | 821.3 | 806.7 | 781.9 | 765.2 | 749.2 | 720.8 | 720.0 | 708.4 |
| 65°   | 819.9 | 806.0 | 793.6 | 762.2 | 740.4 | 728.7 | 703.9 | 713.5 |
| 67.5° | 797.3 | 784.9 | 762.2 | 744.7 | 711.2 | 696.7 | 682.8 | 682.8 |
| 70°   | 761.6 | 743.3 | 721.4 | 699.6 | 677.0 | 652.2 | 639.8 | 632.6 |
| 72.5° | 701.8 | 686.4 | 669.0 | 645.6 | 618.0 | 595.4 | 583.7 | 578.6 |
| 75°   | 626.8 | 609.9 | 594.7 | 577.2 | 548.0 | 529.1 | 516.7 | 513.0 |
| 77.5° | 548.0 | 533.4 | 506.5 | 489.7 | 470.0 | 448.2 | 437.3 | 432.8 |
| 80°   | 447.4 | 439.4 | 420.5 | 393.5 | 384.1 | 357.1 | 349.8 | 343.3 |
| 82.5° | 336.0 | 327.2 | 309.7 | 290.8 | 279.1 | 263.8 | 250.7 | 249.3 |
| 85°   | 211.3 | 205.5 | 194.6 | 180.7 | 166.2 | 157.4 | 145.7 | 148.7 |
| 87.5° | 78.7  | 75.0  | 68.5  | 59.8  | 53.2  | 47.4  | 41.5  | 43.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)