

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: P192763

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-RW-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32264.2 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 320  
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

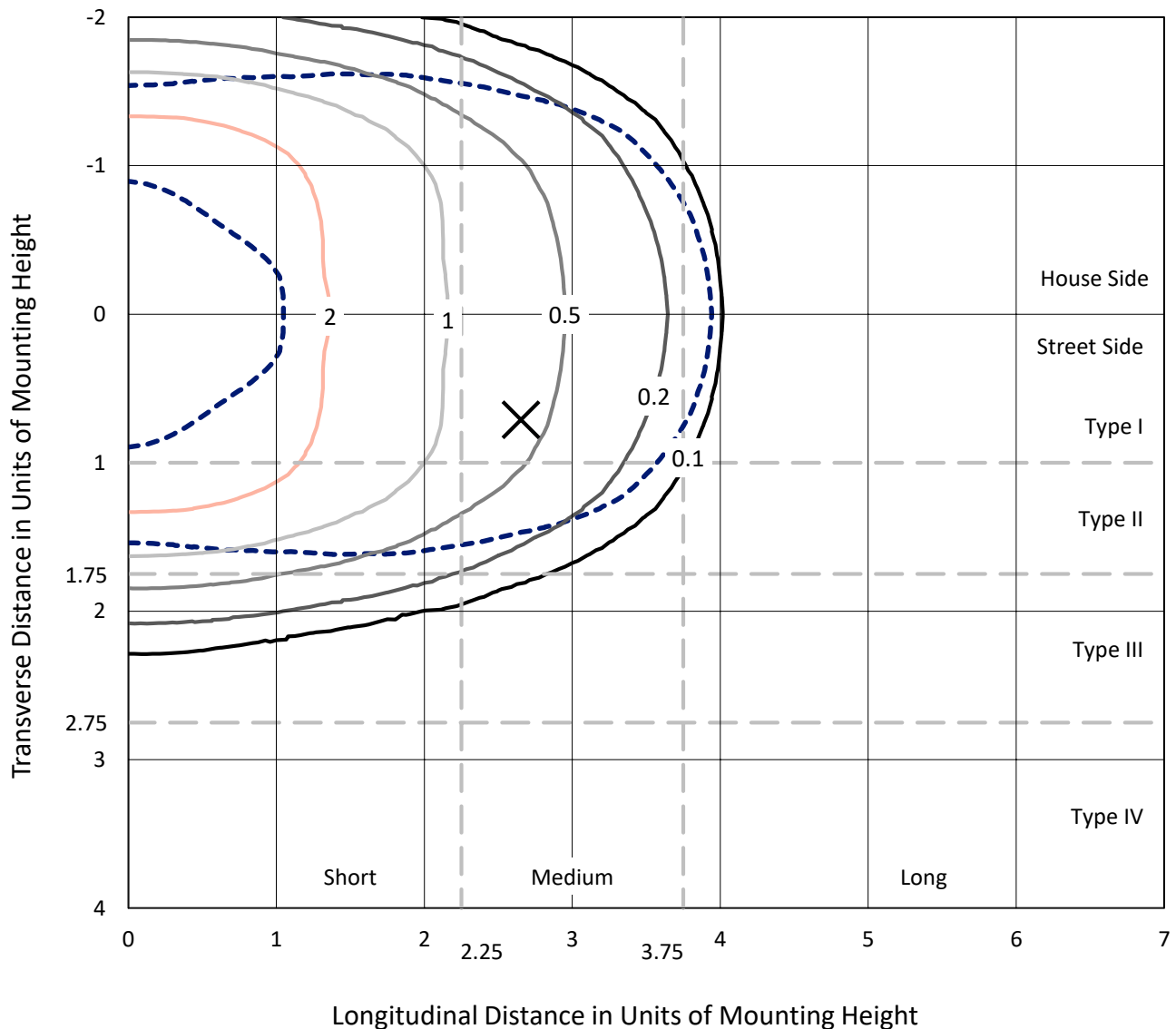


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

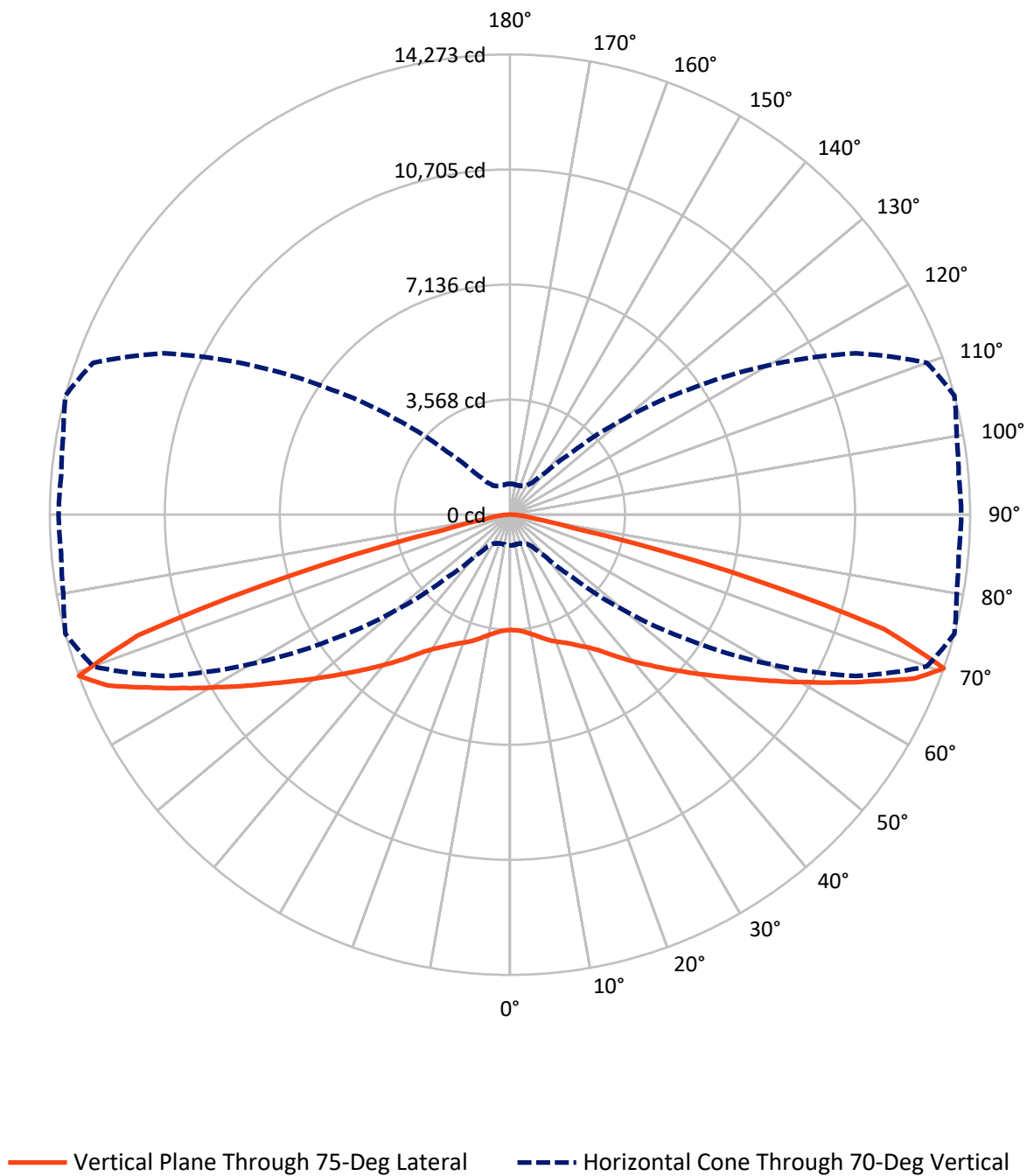


Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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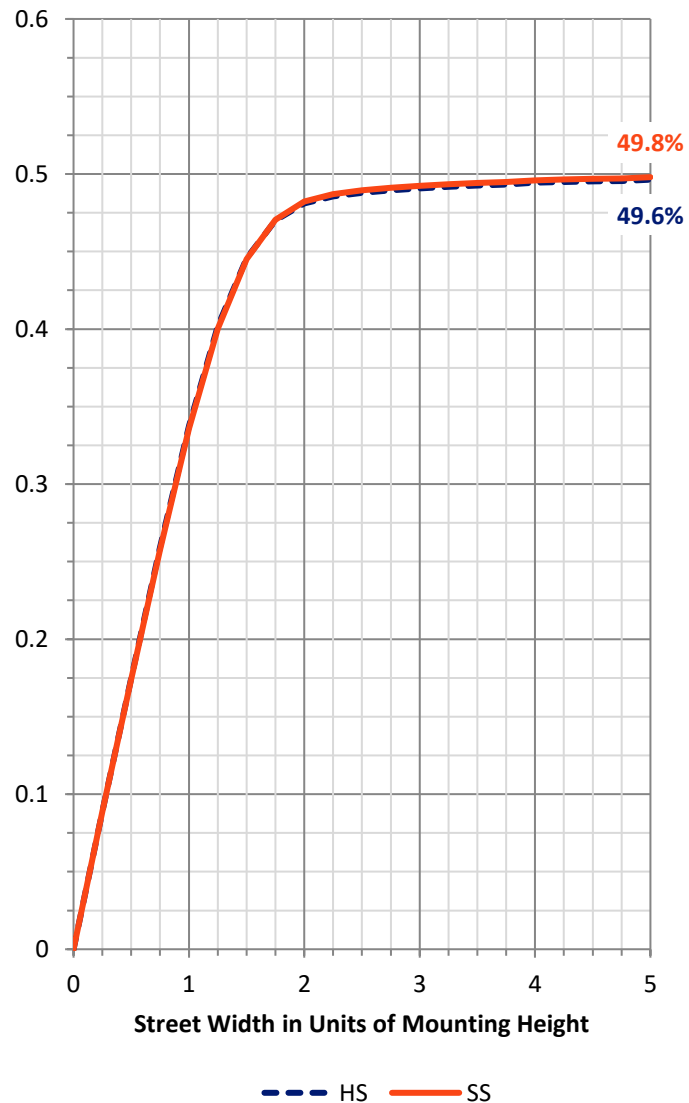
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16132.1  | 0.0    | 16132.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16132.1  | 0.0    | 16132.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 32264.2  | 0.0    | 32264.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 343.2   | 1.1       |
| 10°-20°   | 1066.5  | 3.3       |
| 20°-30°   | 2007.3  | 6.2       |
| 30°-40°   | 3554.6  | 11.0      |
| 40°-50°   | 5944.4  | 18.4      |
| 50°-60°   | 8283.5  | 25.7      |
| 60°-70°   | 7681.6  | 23.8      |
| 70°-80°   | 3061.4  | 9.5       |
| 80°-90°   | 321.8   | 1.0       |
| 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°    | 32264.2 | 100.0     |
| 0°-180°   | 32264.2 | 100.0     |

**Coefficient of Utilization**



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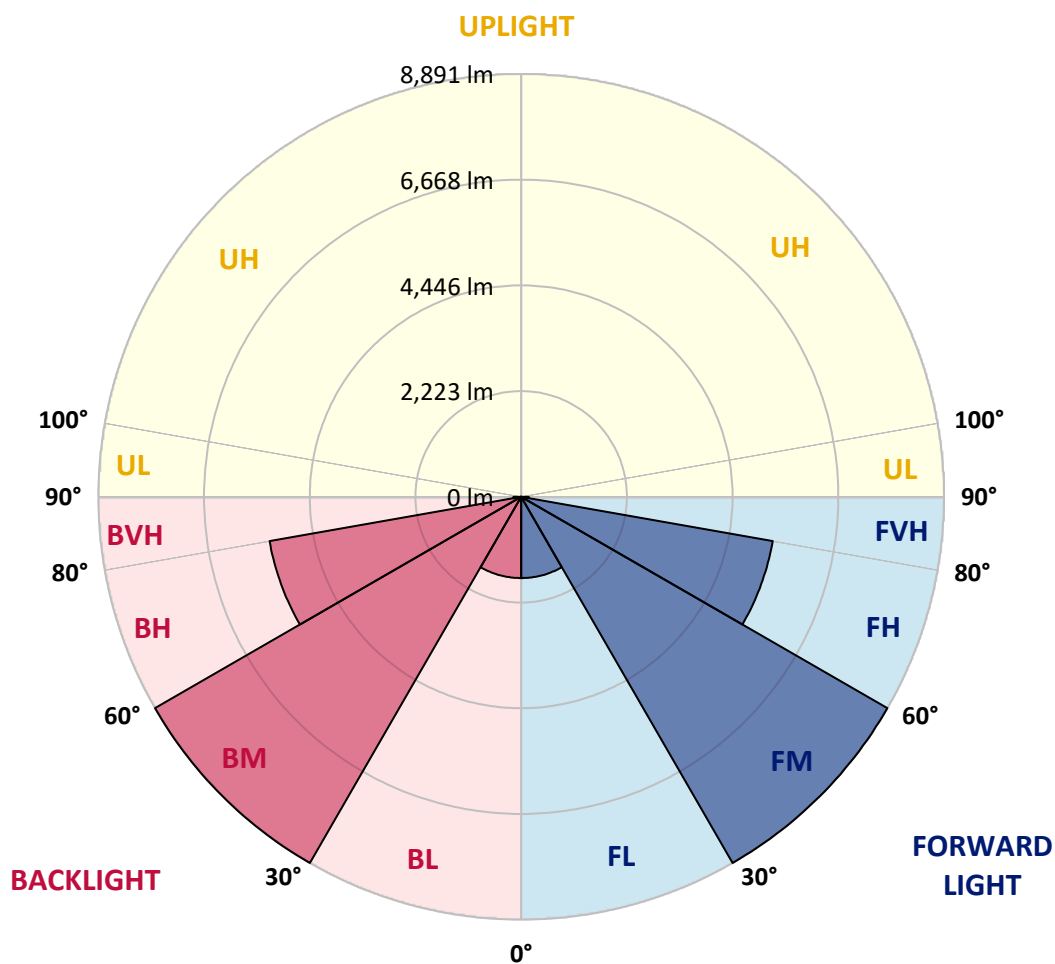
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1708.5 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 8891.2 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 5371.5 | 16.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 160.9  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1708.5 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8891.2 | 27.6      | B5                      |      |         |
| BH   | (60°-80°)   | 5371.5 | 16.6      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 160.9  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3578.9 | 3578.9 | 3578.9 | 3578.9 | 3578.9 | 3578.9 | 3578.9 | 3578.9  | 3578.9  | 3578.9  | 3578.9  |
| 2.5°  | 3572.8 | 3569.7 | 3572.8 | 3571.2 | 3574.3 | 3574.3 | 3577.3 | 3583.4  | 3583.4  | 3588.0  | 3586.4  |
| 5°    | 3537.7 | 3536.1 | 3540.8 | 3545.4 | 3549.9 | 3559.0 | 3568.2 | 3581.9  | 3592.6  | 3600.2  | 3607.8  |
| 7.5°  | 3469.1 | 3469.1 | 3475.2 | 3485.8 | 3496.6 | 3516.3 | 3537.7 | 3565.1  | 3592.6  | 3615.5  | 3635.3  |
| 10°   | 3412.6 | 3415.7 | 3423.3 | 3441.6 | 3459.9 | 3490.4 | 3519.3 | 3559.0  | 3597.2  | 3635.3  | 3665.7  |
| 12.5° | 3379.1 | 3383.6 | 3397.4 | 3424.8 | 3455.4 | 3496.6 | 3540.8 | 3591.1  | 3633.8  | 3679.6  | 3710.0  |
| 15°   | 3389.8 | 3392.8 | 3412.6 | 3446.1 | 3485.8 | 3537.7 | 3597.2 | 3656.6  | 3706.9  | 3755.8  | 3796.9  |
| 17.5° | 3449.2 | 3453.8 | 3476.7 | 3514.8 | 3556.0 | 3617.0 | 3681.1 | 3748.1  | 3810.6  | 3865.5  | 3915.9  |
| 20°   | 3556.0 | 3560.5 | 3589.5 | 3630.6 | 3679.6 | 3742.0 | 3806.0 | 3876.2  | 3946.3  | 4004.3  | 4060.7  |
| 22.5° | 3706.9 | 3714.6 | 3742.0 | 3783.2 | 3838.1 | 3905.2 | 3981.4 | 4056.1  | 4123.2  | 4176.7  | 4226.9  |
| 25°   | 3905.2 | 3922.0 | 3947.9 | 3993.7 | 4051.6 | 4112.5 | 4194.9 | 4271.2  | 4335.2  | 4385.5  | 4422.2  |
| 27.5° | 4185.7 | 4208.6 | 4228.5 | 4272.7 | 4329.1 | 4387.1 | 4469.4 | 4536.5  | 4597.5  | 4646.2  | 4673.7  |
| 30°   | 4557.9 | 4580.7 | 4600.5 | 4643.2 | 4695.1 | 4749.9 | 4827.7 | 4887.1  | 4925.3  | 4963.4  | 4961.9  |
| 32.5° | 5009.2 | 5033.6 | 5041.2 | 5087.0 | 5140.3 | 5199.7 | 5269.9 | 5303.5  | 5333.9  | 5338.5  | 5311.1  |
| 35°   | 5513.9 | 5526.2 | 5556.6 | 5617.6 | 5678.6 | 5727.4 | 5794.4 | 5811.3  | 5811.3  | 5788.3  | 5727.4  |
| 37.5° | 6067.3 | 6075.1 | 6117.8 | 6186.4 | 6248.9 | 6299.3 | 6345.0 | 6378.5  | 6361.7  | 6312.9  | 6210.8  |
| 40°   | 6674.3 | 6688.1 | 6749.1 | 6810.0 | 6880.2 | 6927.5 | 6976.2 | 6982.3  | 6965.6  | 6893.9  | 6755.2  |
| 42.5° | 7253.8 | 7266.0 | 7326.9 | 7423.1 | 7514.6 | 7580.1 | 7625.9 | 7635.0  | 7581.6  | 7516.1  | 7343.8  |
| 45°   | 7752.4 | 7784.4 | 7863.7 | 7976.6 | 8109.2 | 8202.2 | 8264.8 | 8290.7  | 8243.4  | 8158.1  | 7958.2  |
| 47.5° | 8147.4 | 8179.3 | 8292.2 | 8426.4 | 8591.0 | 8742.1 | 8845.7 | 8900.6  | 8888.5  | 8824.5  | 8606.4  |
| 50°   | 8437.1 | 8467.6 | 8589.5 | 8754.3 | 8946.3 | 9134.0 | 9310.8 | 9441.9  | 9487.7  | 9458.7  | 9258.9  |
| 52.5° | 8470.7 | 8520.9 | 8664.3 | 8885.4 | 9135.5 | 9391.6 | 9643.2 | 9865.9  | 10016.9 | 10039.8 | 9891.8  |
| 55°   | 8002.4 | 8052.9 | 8251.0 | 8578.9 | 8950.9 | 9368.8 | 9771.4 | 10146.5 | 10443.8 | 10596.3 | 10518.5 |
| 57.5° | 6898.5 | 6988.4 | 7197.4 | 7581.6 | 8129.1 | 8754.3 | 9396.2 | 10062.6 | 10668.0 | 11072.0 | 11149.8 |
| 60°   | 5286.7 | 5393.5 | 5603.9 | 6012.5 | 6622.5 | 7368.1 | 8225.1 | 9210.2  | 10279.1 | 11187.9 | 11730.8 |
| 62.5° | 3391.3 | 3491.9 | 3713.0 | 4068.4 | 4565.4 | 5373.6 | 6293.2 | 7462.7  | 8899.1  | 10334.0 | 11627.1 |
| 65°   | 1742.9 | 1797.9 | 1913.6 | 2128.7 | 2516.0 | 3119.9 | 3944.8 | 5111.3  | 6753.7  | 8524.0  | 10393.5 |
| 67.5° | 1103.9 | 1114.7 | 1140.5 | 1171.1 | 1270.2 | 1479.2 | 1863.4 | 2590.7  | 3941.7  | 5788.3  | 7976.6  |
| 70°   | 954.6  | 954.6  | 942.4  | 937.8  | 950.0  | 979.0  | 1038.4 | 1207.7  | 1663.6  | 2747.8  | 4600.5  |
| 72.5° | 873.7  | 864.6  | 843.3  | 826.4  | 823.4  | 823.4  | 835.7  | 861.5   | 934.7   | 1119.3  | 1800.8  |
| 75°   | 805.1  | 779.2  | 750.3  | 730.4  | 722.8  | 715.2  | 713.7  | 718.2   | 733.4   | 762.4   | 860.0   |
| 77.5° | 721.2  | 687.7  | 654.1  | 634.4  | 625.2  | 614.5  | 605.4  | 594.7   | 587.0   | 596.2   | 638.9   |
| 80°   | 620.6  | 582.5  | 556.5  | 544.3  | 535.3  | 520.0  | 500.2  | 481.9   | 465.1   | 462.0   | 488.0   |
| 82.5° | 500.2  | 455.9  | 457.5  | 462.0  | 445.2  | 423.9  | 402.5  | 382.7   | 353.8   | 338.4   | 353.8   |
| 85°   | 404.0  | 381.2  | 370.5  | 399.6  | 375.1  | 343.1  | 309.5  | 274.5   | 228.7   | 192.2   | 208.9   |
| 87.5° | 157.2  | 157.2  | 234.8  | 361.4  | 324.8  | 265.3  | 227.3  | 193.6   | 120.5   | 93.0    | 94.5    |
| 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°    | 3578.9  | 3578.9  | 3578.9  | 3578.9  | 3578.9  | 3578.9  | 3578.9  | 3578.9  |
| 2.5°  | 3584.9  | 3588.0  | 3586.4  | 3584.9  | 3584.9  | 3583.4  | 3584.9  | 3584.9  |
| 5°    | 3612.4  | 3620.0  | 3620.0  | 3623.0  | 3623.0  | 3624.5  | 3626.1  | 3624.5  |
| 7.5°  | 3653.6  | 3667.3  | 3676.5  | 3687.2  | 3688.7  | 3690.1  | 3693.2  | 3690.1  |
| 10°   | 3694.7  | 3722.3  | 3742.0  | 3761.8  | 3771.0  | 3774.1  | 3777.1  | 3777.1  |
| 12.5° | 3746.6  | 3784.7  | 3819.8  | 3854.8  | 3871.6  | 3880.8  | 3880.8  | 3886.9  |
| 15°   | 3831.9  | 3870.1  | 3911.3  | 3958.6  | 3987.5  | 4002.8  | 4007.3  | 4007.3  |
| 17.5° | 3952.5  | 3986.0  | 4021.1  | 4066.8  | 4103.4  | 4123.2  | 4127.9  | 4126.2  |
| 20°   | 4092.8  | 4124.7  | 4144.5  | 4173.6  | 4205.6  | 4228.5  | 4234.6  | 4234.6  |
| 22.5° | 4252.8  | 4271.2  | 4274.2  | 4283.4  | 4309.3  | 4339.8  | 4353.4  | 4356.5  |
| 25°   | 4429.7  | 4434.3  | 4422.2  | 4422.2  | 4438.8  | 4467.8  | 4481.6  | 4483.1  |
| 27.5° | 4658.5  | 4635.6  | 4605.1  | 4594.5  | 4605.1  | 4638.6  | 4655.4  | 4661.5  |
| 30°   | 4943.7  | 4888.7  | 4818.6  | 4780.4  | 4774.3  | 4818.6  | 4849.0  | 4853.7  |
| 32.5° | 5269.9  | 5190.7  | 5097.6  | 5019.8  | 5000.0  | 5027.4  | 5064.0  | 5062.5  |
| 35°   | 5657.2  | 5562.7  | 5449.9  | 5350.8  | 5305.0  | 5332.5  | 5384.3  | 5390.5  |
| 37.5° | 6104.0  | 5980.6  | 5851.0  | 5725.8  | 5654.1  | 5661.9  | 5716.8  | 5735.0  |
| 40°   | 6602.6  | 6442.6  | 6279.3  | 6111.6  | 6009.5  | 5989.7  | 6056.8  | 6067.3  |
| 42.5° | 7136.4  | 6930.6  | 6724.7  | 6517.4  | 6386.1  | 6355.6  | 6433.4  | 6428.9  |
| 45°   | 7705.2  | 7442.8  | 7202.0  | 6973.3  | 6817.7  | 6771.9  | 6836.1  | 6836.1  |
| 47.5° | 8316.6  | 7993.3  | 7706.7  | 7447.4  | 7278.2  | 7212.6  | 7273.6  | 7278.2  |
| 50°   | 8964.7  | 8621.5  | 8284.6  | 7996.3  | 7793.6  | 7709.8  | 7789.0  | 7801.2  |
| 52.5° | 9609.7  | 9275.8  | 8935.7  | 8606.4  | 8360.8  | 8258.7  | 8350.1  | 8389.8  |
| 55°   | 10263.9 | 9936.0  | 9611.2  | 9289.4  | 8998.3  | 8877.8  | 8975.3  | 9025.7  |
| 57.5° | 10954.7 | 10651.1 | 10341.6 | 10016.9 | 9736.3  | 9548.7  | 9652.4  | 9719.4  |
| 60°   | 11764.4 | 11505.1 | 11183.3 | 10825.0 | 10541.5 | 10350.7 | 10410.2 | 10469.8 |
| 62.5° | 12404.7 | 12505.4 | 12232.4 | 11817.7 | 11453.2 | 11209.2 | 11267.3 | 11329.7 |
| 65°   | 12095.2 | 13127.6 | 13370.0 | 12950.7 | 12445.9 | 12066.3 | 12041.9 | 12073.9 |
| 67.5° | 10109.9 | 12115.1 | 13577.4 | 13976.9 | 13554.4 | 13026.9 | 12929.3 | 12976.6 |
| 70°   | 6762.8  | 9260.5  | 11840.5 | 13761.9 | 14272.7 | 14068.4 | 13972.3 | 14001.3 |
| 72.5° | 3248.0  | 5393.5  | 8033.0  | 10587.1 | 12142.5 | 12856.1 | 13084.9 | 13196.3 |
| 75°   | 1187.8  | 2140.9  | 3871.6  | 5834.1  | 7043.4  | 8153.5  | 8877.8  | 9173.6  |
| 77.5° | 716.7   | 864.6   | 1236.7  | 1861.9  | 2108.9  | 2360.4  | 2262.9  | 2311.7  |
| 80°   | 530.7   | 599.3   | 678.6   | 762.4   | 789.8   | 789.8   | 759.4   | 735.0   |
| 82.5° | 372.0   | 416.3   | 454.4   | 500.2   | 512.3   | 489.5   | 402.5   | 320.2   |
| 85°   | 239.4   | 259.3   | 276.0   | 305.0   | 297.3   | 283.6   | 190.6   | 169.3   |
| 87.5° | 109.8   | 125.0   | 131.1   | 144.9   | 138.8   | 132.6   | 94.5    | 79.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)