

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: P192645

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-5WQ-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47050.3 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 448  
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

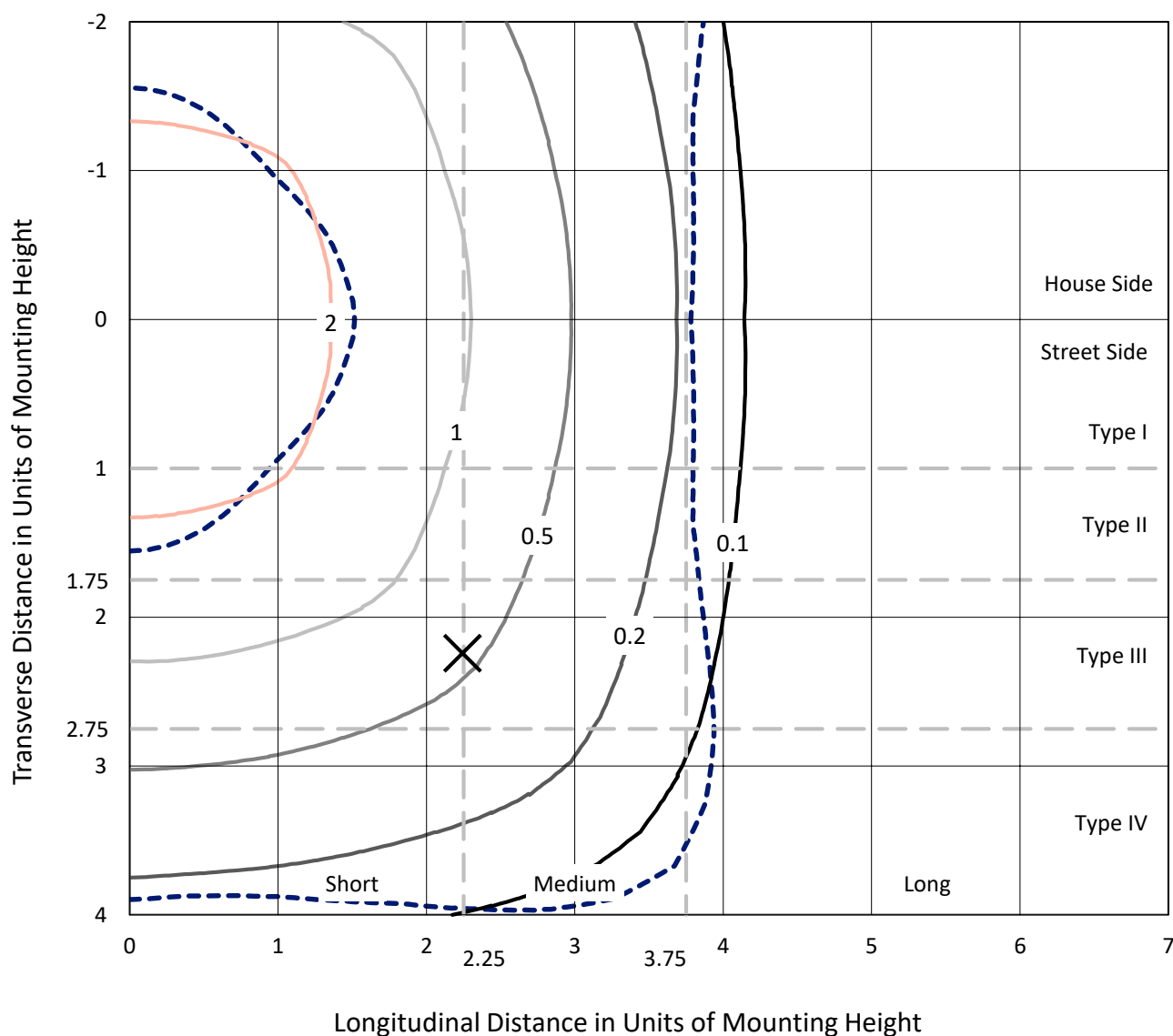


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

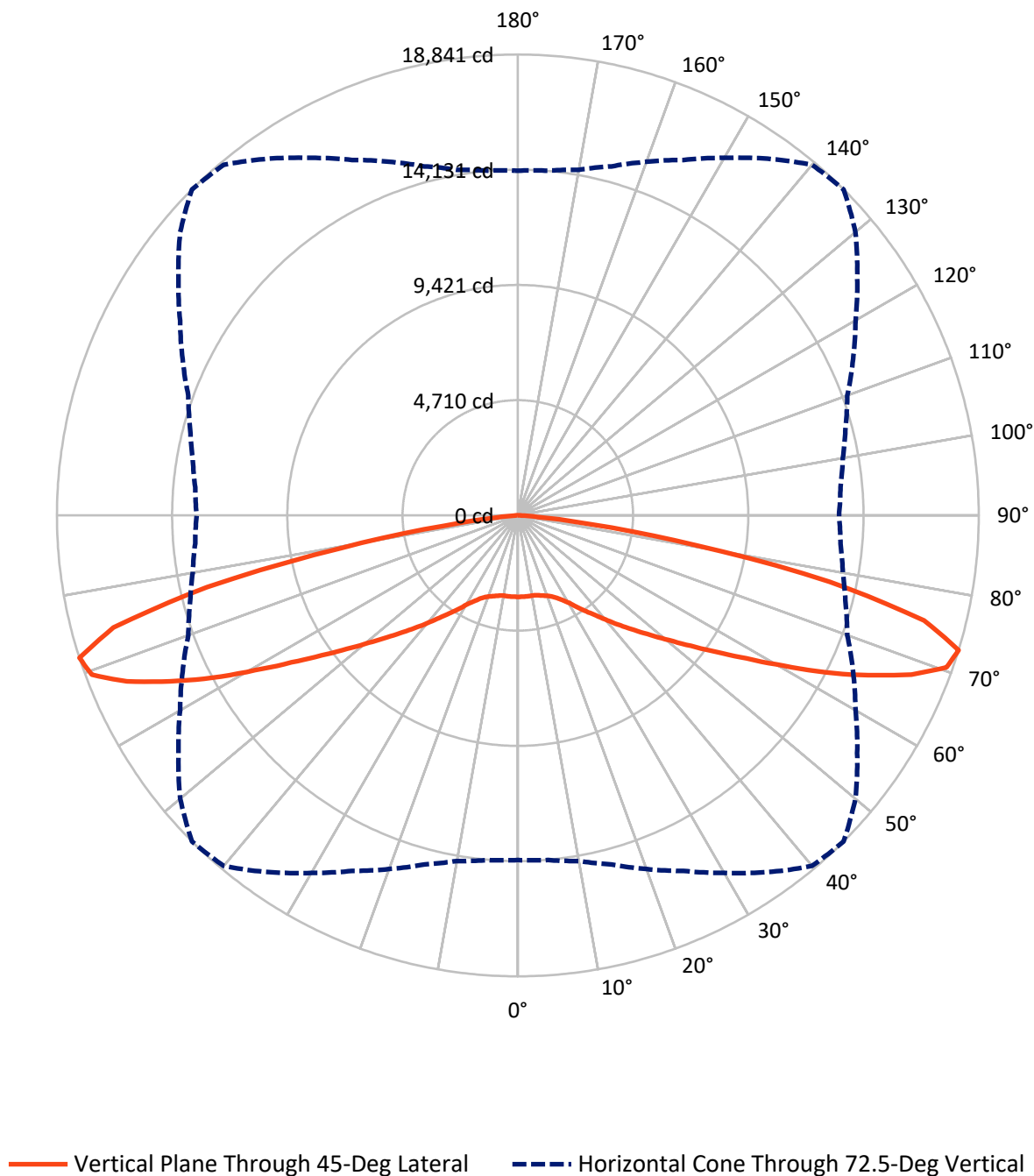


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 23525.2  | 0.0    | 23525.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 23525.2  | 0.0    | 23525.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 47050.3  | 0.0    | 47050.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 318.2   | 0.7       |
| 10°-20°   | 966.3   | 2.1       |
| 20°-30°   | 1765.8  | 3.8       |
| 30°-40°   | 3044.5  | 6.5       |
| 40°-50°   | 5204.6  | 11.1      |
| 50°-60°   | 8436.0  | 17.9      |
| 60°-70°   | 13994.9 | 29.7      |
| 70°-80°   | 12326.3 | 26.2      |
| 80°-90°   | 993.8   | 2.1       |
| 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°    | 47050.3 | 100.0     |
| 0°-180°   | 47050.3 | 100.0     |

**Coefficient of Utilization**



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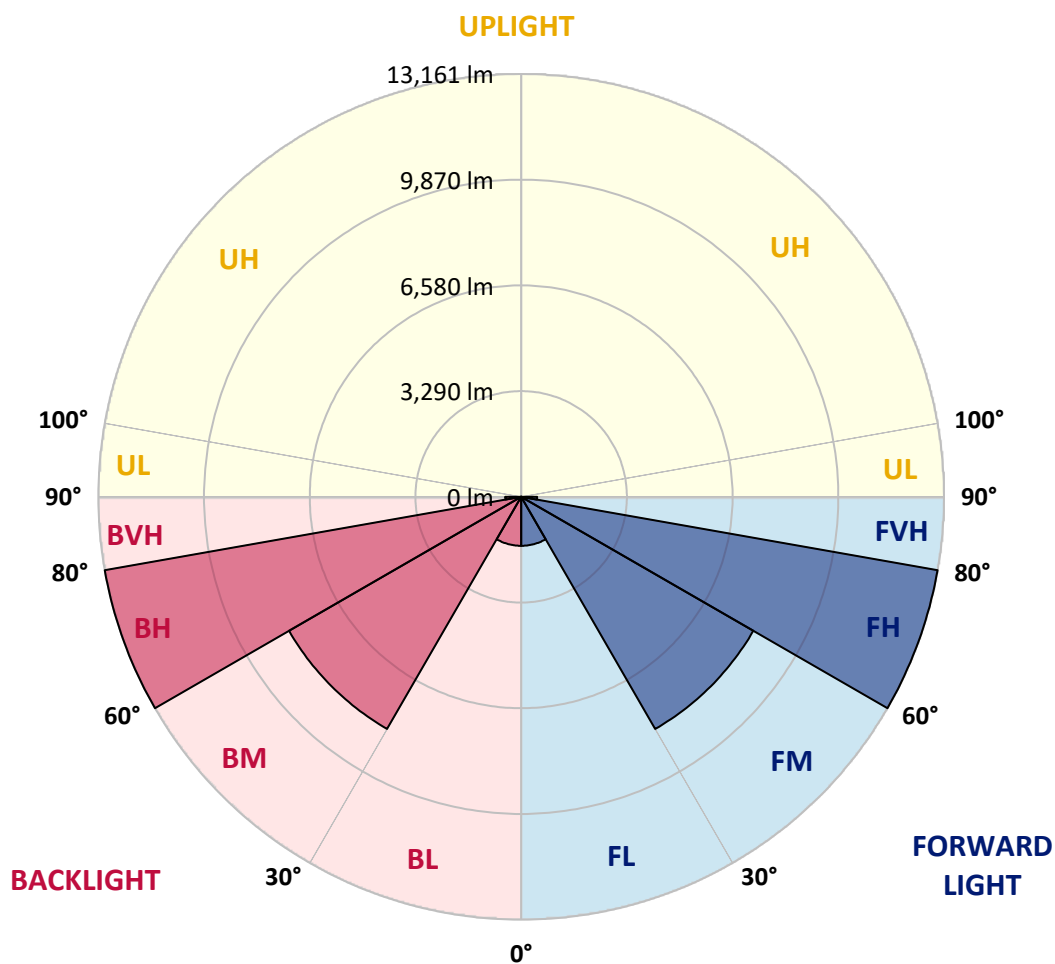
CATALOG NUMBER: GLEON-AF-07-LED-E1-5WQ-7030-1200

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1525.1  | 3.2       |                         |      |        |
| FM   | (30°-60°)   | 8342.5  | 17.7      |                         |      |        |
| FH   | (60°-80°)   | 13160.6 | 28.0      |                         |      | G5     |
| FVH  | (80°-90°)   | 496.9   | 1.1       |                         |      | G3/500 |
| BL   | (0°-30°)    | 1525.1  | 3.2       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 8342.5  | 17.7      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 13160.6 | 28.0      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 496.9   | 1.1       |                         |      | G3/500 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

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

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  |
| 2.5°  | 3331.9  | 3334.0  | 3336.2  | 3334.0  | 3334.0  | 3331.9  | 3329.7  | 3331.9  | 3329.7  | 3325.5  | 3327.6  |
| 5°    | 3342.7  | 3347.0  | 3347.0  | 3342.7  | 3344.9  | 3342.7  | 3338.4  | 3340.5  | 3336.2  | 3329.7  | 3329.7  |
| 7.5°  | 3355.7  | 3357.7  | 3357.7  | 3353.5  | 3355.7  | 3351.3  | 3347.0  | 3344.9  | 3340.5  | 3331.9  | 3325.5  |
| 10°   | 3375.0  | 3377.2  | 3375.0  | 3370.7  | 3370.7  | 3364.3  | 3353.5  | 3349.2  | 3340.5  | 3327.6  | 3321.2  |
| 12.5° | 3396.7  | 3398.8  | 3396.7  | 3392.3  | 3390.2  | 3379.4  | 3370.7  | 3364.3  | 3357.7  | 3347.0  | 3336.2  |
| 15°   | 3426.8  | 3431.2  | 3426.8  | 3418.1  | 3411.7  | 3403.1  | 3398.8  | 3400.9  | 3403.1  | 3394.4  | 3383.6  |
| 17.5° | 3482.9  | 3485.2  | 3478.6  | 3459.2  | 3450.6  | 3442.0  | 3442.0  | 3446.2  | 3452.7  | 3448.4  | 3437.7  |
| 20°   | 3586.6  | 3580.1  | 3564.9  | 3541.2  | 3530.3  | 3515.3  | 3513.1  | 3515.3  | 3515.3  | 3513.1  | 3504.5  |
| 22.5° | 3716.0  | 3711.6  | 3692.3  | 3662.1  | 3647.0  | 3638.4  | 3625.3  | 3614.7  | 3612.4  | 3606.0  | 3597.4  |
| 25°   | 3871.4  | 3869.2  | 3845.5  | 3819.6  | 3808.8  | 3798.0  | 3787.3  | 3772.0  | 3759.2  | 3744.1  | 3735.5  |
| 27.5° | 4069.9  | 4061.2  | 4026.7  | 4013.8  | 3998.7  | 3992.3  | 3977.1  | 3959.9  | 3949.0  | 3929.6  | 3918.9  |
| 30°   | 4287.9  | 4287.9  | 4259.8  | 4255.5  | 4255.5  | 4240.4  | 4223.1  | 4193.0  | 4173.4  | 4154.0  | 4147.6  |
| 32.5° | 4505.9  | 4508.0  | 4479.9  | 4488.6  | 4495.0  | 4505.9  | 4510.1  | 4499.3  | 4486.4  | 4484.2  | 4471.3  |
| 35°   | 4820.8  | 4812.3  | 4784.3  | 4790.7  | 4788.5  | 4786.3  | 4786.3  | 4810.1  | 4814.4  | 4818.8  | 4792.8  |
| 37.5° | 5211.4  | 5211.4  | 5183.5  | 5183.5  | 5170.4  | 5157.6  | 5140.2  | 5155.4  | 5179.1  | 5185.6  | 5168.3  |
| 40°   | 5658.2  | 5673.3  | 5638.8  | 5636.5  | 5640.9  | 5599.9  | 5580.5  | 5604.2  | 5619.3  | 5645.2  | 5625.8  |
| 42.5° | 6184.7  | 6173.9  | 6139.4  | 6135.1  | 6111.3  | 6098.5  | 6081.2  | 6100.6  | 6124.3  | 6141.6  | 6148.0  |
| 45°   | 6689.7  | 6681.1  | 6642.2  | 6642.2  | 6618.5  | 6607.7  | 6616.3  | 6648.7  | 6659.5  | 6683.2  | 6707.0  |
| 47.5° | 7188.1  | 7177.4  | 7151.4  | 7162.3  | 7164.4  | 7183.9  | 7211.8  | 7242.1  | 7272.3  | 7304.7  | 7315.5  |
| 50°   | 7697.5  | 7699.6  | 7671.5  | 7697.5  | 7729.9  | 7783.7  | 7859.3  | 7908.9  | 7971.5  | 8012.5  | 8025.4  |
| 52.5° | 8161.4  | 8170.1  | 8200.2  | 8260.6  | 8325.4  | 8431.2  | 8560.7  | 8681.5  | 8785.1  | 8854.2  | 8849.8  |
| 55°   | 8718.2  | 8731.1  | 8804.4  | 8908.0  | 9013.8  | 9173.5  | 9365.6  | 9579.2  | 9751.8  | 9851.2  | 9788.5  |
| 57.5° | 9430.2  | 9458.3  | 9540.3  | 9680.6  | 9838.1  | 10045.3 | 10308.6 | 10630.2 | 10897.7 | 11031.5 | 10930.1 |
| 60°   | 10407.8 | 10425.1 | 10524.4 | 10679.8 | 10869.6 | 11126.4 | 11478.2 | 11909.8 | 12287.4 | 12464.4 | 12347.8 |
| 62.5° | 11696.2 | 11728.6 | 11808.4 | 11965.8 | 12160.1 | 12451.4 | 12880.9 | 13420.4 | 13890.7 | 14136.8 | 13873.5 |
| 65°   | 13234.8 | 13338.4 | 13405.2 | 13565.0 | 13746.2 | 14054.8 | 14503.6 | 15082.0 | 15586.9 | 15748.8 | 15444.6 |
| 67.5° | 14758.3 | 14849.0 | 14965.5 | 15148.9 | 15332.4 | 15679.8 | 16096.2 | 16657.3 | 17211.9 | 17358.7 | 16886.0 |
| 70°   | 15425.1 | 15476.9 | 15658.2 | 15908.4 | 16260.3 | 16670.2 | 17151.5 | 17781.6 | 18467.9 | 18588.8 | 17988.8 |
| 72.5° | 14089.3 | 14141.1 | 14344.0 | 14769.1 | 15381.9 | 16033.7 | 16873.1 | 17798.9 | 18705.1 | 18841.2 | 18014.6 |
| 75°   | 10656.0 | 10571.8 | 10871.9 | 11435.1 | 12261.5 | 13170.0 | 14344.0 | 15671.2 | 16981.0 | 17151.5 | 16165.4 |
| 77.5° | 5507.1  | 5496.3  | 5722.9  | 6422.0  | 7408.4  | 8441.9  | 9734.6  | 11234.4 | 12516.2 | 13034.1 | 12231.3 |
| 80°   | 1551.6  | 1568.9  | 1676.7  | 2024.1  | 2600.4  | 3347.0  | 4356.9  | 5761.8  | 6810.5  | 7345.7  | 6896.9  |
| 82.5° | 608.6   | 656.0   | 697.1   | 761.7   | 837.3   | 947.4   | 1264.5  | 1881.8  | 2524.8  | 3016.8  | 2470.9  |
| 85°   | 218.0   | 233.0   | 330.2   | 390.6   | 397.0   | 418.7   | 476.9   | 556.7   | 671.2   | 800.7   | 658.2   |
| 87.5° | 82.1    | 90.6    | 105.8   | 174.9   | 172.6   | 157.6   | 192.1   | 200.7   | 151.1   | 138.1   | 170.5   |
| 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°    | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  | 3331.9  |
| 2.5°  | 3323.2  | 3325.5  | 3325.5  | 3327.6  | 3329.7  | 3329.7  | 3334.0  | 3334.0  |
| 5°    | 3325.5  | 3325.5  | 3321.2  | 3323.2  | 3321.2  | 3321.2  | 3323.2  | 3323.2  |
| 7.5°  | 3321.2  | 3319.0  | 3314.6  | 3312.5  | 3308.2  | 3308.2  | 3308.2  | 3308.2  |
| 10°   | 3314.6  | 3312.5  | 3308.2  | 3305.9  | 3303.9  | 3303.9  | 3303.9  | 3303.9  |
| 12.5° | 3331.9  | 3325.5  | 3321.2  | 3319.0  | 3319.0  | 3319.0  | 3319.0  | 3319.0  |
| 15°   | 3377.2  | 3362.1  | 3351.3  | 3351.3  | 3353.5  | 3357.7  | 3357.7  | 3362.1  |
| 17.5° | 3433.4  | 3416.1  | 3405.3  | 3396.7  | 3400.9  | 3407.5  | 3411.7  | 3416.1  |
| 20°   | 3500.2  | 3491.6  | 3476.5  | 3467.9  | 3467.9  | 3476.5  | 3480.8  | 3482.9  |
| 22.5° | 3593.0  | 3586.6  | 3580.1  | 3569.3  | 3569.3  | 3573.6  | 3582.2  | 3582.2  |
| 25°   | 3731.1  | 3726.9  | 3722.5  | 3713.8  | 3711.6  | 3711.6  | 3716.0  | 3720.3  |
| 27.5° | 3903.8  | 3905.9  | 3901.6  | 3899.5  | 3893.0  | 3890.8  | 3897.3  | 3895.1  |
| 30°   | 4134.7  | 4145.4  | 4156.2  | 4147.6  | 4136.8  | 4130.3  | 4123.9  | 4115.2  |
| 32.5° | 4447.5  | 4434.7  | 4426.0  | 4410.9  | 4391.4  | 4374.2  | 4361.2  | 4346.2  |
| 35°   | 4743.2  | 4721.6  | 4713.0  | 4725.9  | 4723.9  | 4713.0  | 4697.9  | 4684.9  |
| 37.5° | 5105.6  | 5101.5  | 5105.6  | 5129.5  | 5125.2  | 5135.9  | 5105.6  | 5103.6  |
| 40°   | 5563.3  | 5567.6  | 5597.8  | 5625.8  | 5640.9  | 5656.1  | 5638.8  | 5621.5  |
| 42.5° | 6094.1  | 6092.0  | 6102.6  | 6141.6  | 6167.4  | 6184.7  | 6148.0  | 6143.7  |
| 45°   | 6655.2  | 6640.0  | 6648.7  | 6681.1  | 6707.0  | 6726.3  | 6685.3  | 6685.3  |
| 47.5° | 7272.3  | 7246.4  | 7218.4  | 7255.1  | 7270.2  | 7283.1  | 7250.8  | 7239.9  |
| 50°   | 7960.7  | 7906.8  | 7846.4  | 7861.4  | 7861.4  | 7857.2  | 7816.2  | 7814.0  |
| 52.5° | 8750.6  | 8651.2  | 8541.3  | 8500.3  | 8476.5  | 8450.5  | 8379.4  | 8344.7  |
| 55°   | 9659.1  | 9510.2  | 9337.6  | 9231.8  | 9175.7  | 9104.5  | 8985.7  | 8953.4  |
| 57.5° | 10720.7 | 10487.7 | 10189.8 | 10060.4 | 9935.3  | 9818.7  | 9687.2  | 9650.5  |
| 60°   | 11978.8 | 11635.8 | 11240.8 | 11001.4 | 10865.3 | 10753.1 | 10617.2 | 10610.7 |
| 62.5° | 13381.5 | 12839.8 | 12393.2 | 12177.4 | 12078.1 | 11978.8 | 11849.3 | 11866.6 |
| 65°   | 14807.9 | 14242.6 | 13823.9 | 13649.1 | 13556.4 | 13474.3 | 13344.8 | 13364.3 |
| 67.5° | 16214.9 | 15694.9 | 15235.2 | 15056.2 | 14952.5 | 14849.0 | 14732.4 | 14751.8 |
| 70°   | 17224.8 | 16579.6 | 16061.6 | 15664.6 | 15416.5 | 15135.9 | 14954.7 | 14909.4 |
| 72.5° | 16935.7 | 15940.8 | 15118.6 | 14331.0 | 13869.3 | 13493.7 | 13239.1 | 13129.0 |
| 75°   | 14656.9 | 13297.4 | 12240.0 | 11273.2 | 10729.4 | 10287.0 | 9965.4  | 9764.8  |
| 77.5° | 10884.7 | 9357.0  | 8107.5  | 6993.9  | 6113.5  | 5522.2  | 5105.6  | 4836.1  |
| 80°   | 5958.1  | 4531.7  | 3312.5  | 2328.5  | 1711.2  | 1422.1  | 1255.9  | 1176.0  |
| 82.5° | 1855.9  | 1197.7  | 882.6   | 761.7   | 707.8   | 677.6   | 627.9   | 548.2   |
| 85°   | 591.3   | 517.9   | 481.2   | 459.7   | 438.0   | 382.0   | 263.4   | 239.5   |
| 87.5° | 228.8   | 235.2   | 233.0   | 220.1   | 224.4   | 161.8   | 129.5   | 114.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)