

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: P534052

Luminaire Tested: **GALN-SA9C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53574 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

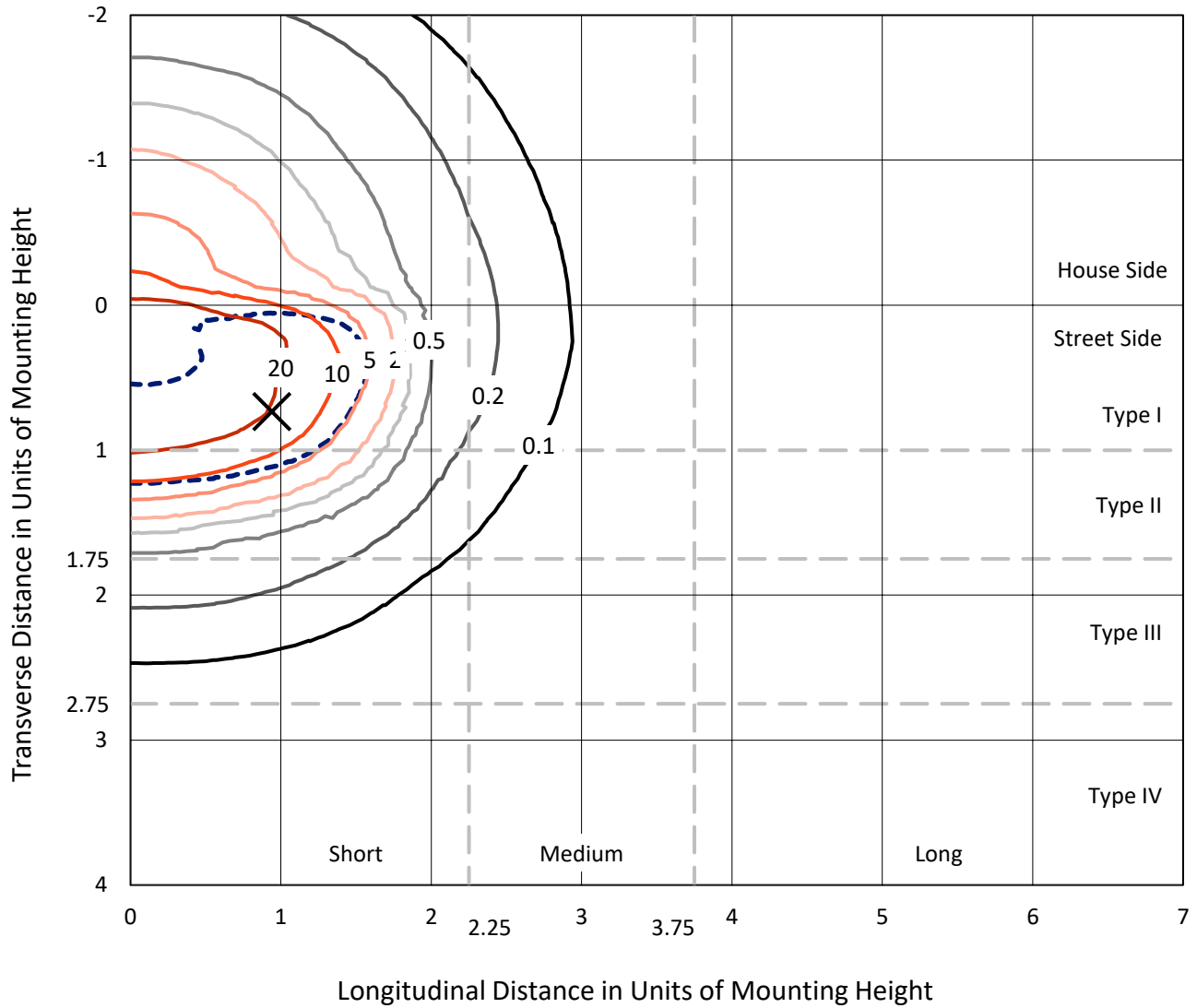
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

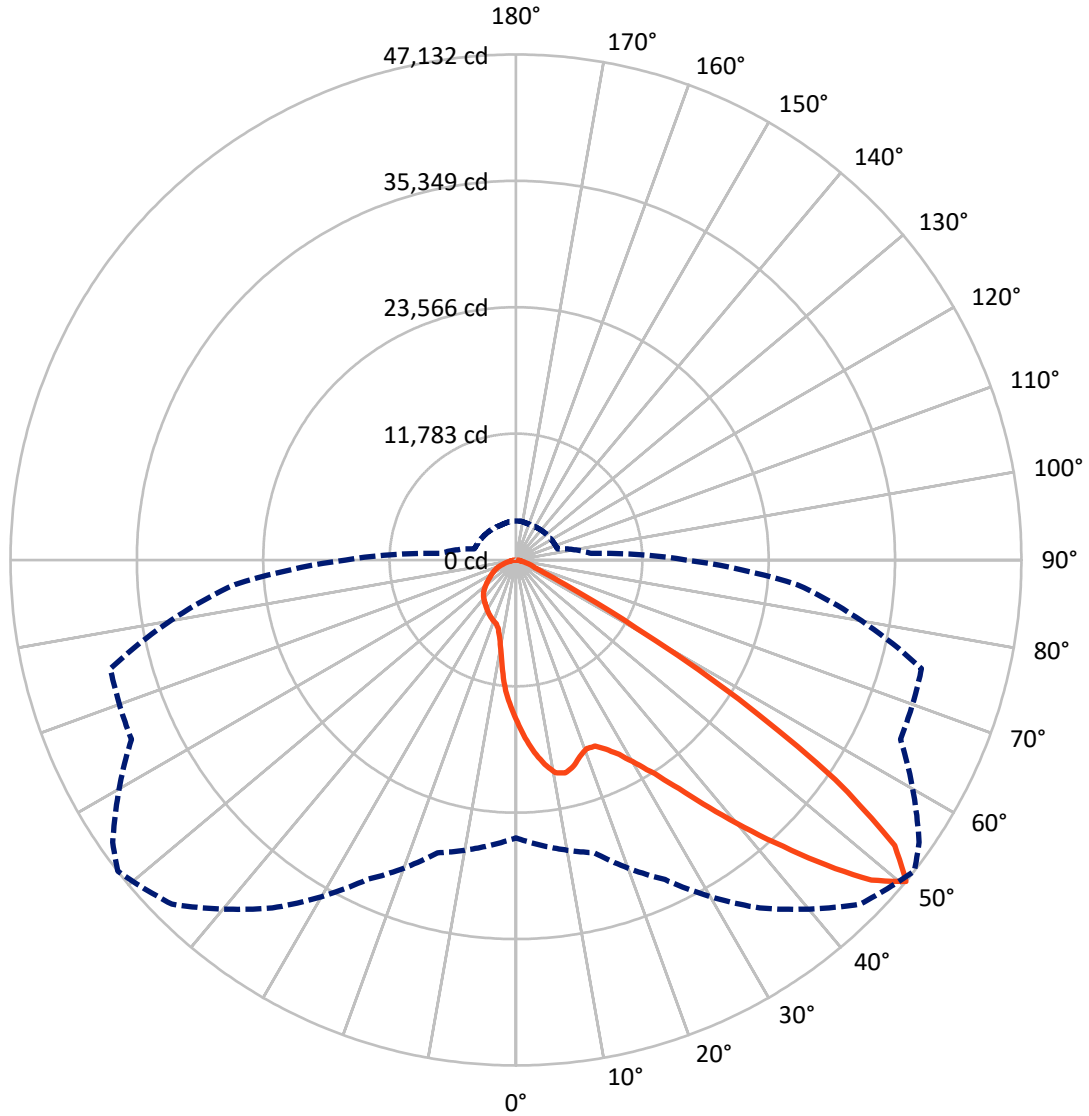
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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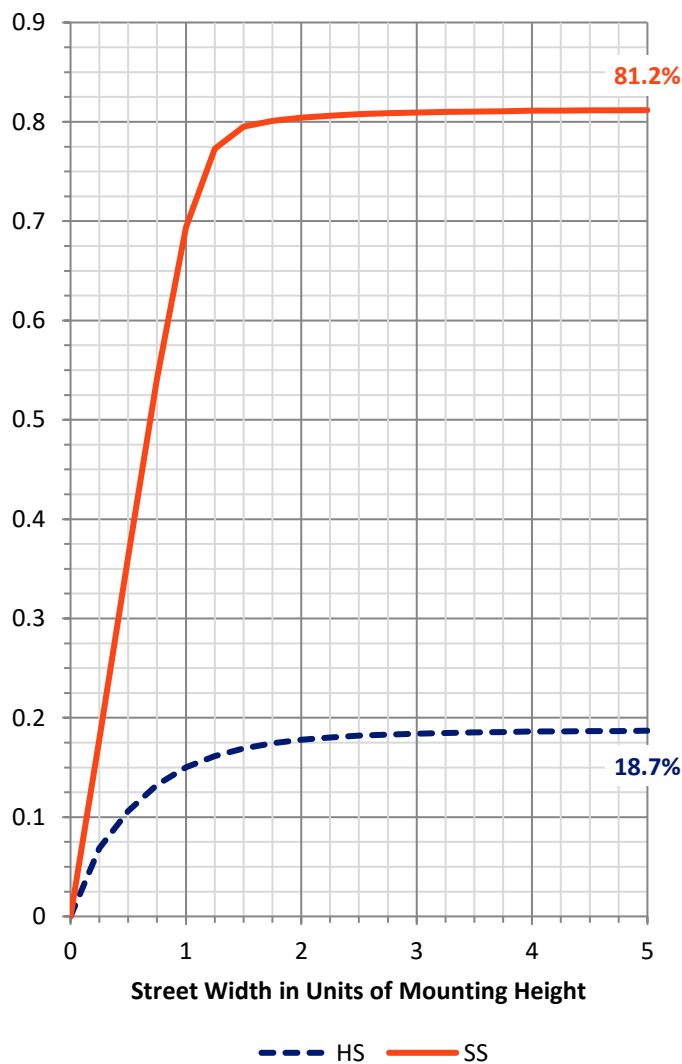
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10070.6  | 0.0    | 10070.6 |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 43503.3  | 0.0    | 43503.3 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 53574.0  | 0.0    | 53574.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1391.9  | 2.6       |
| 10°-20°   | 3730.7  | 7.0       |
| 20°-30°   | 6284.2  | 11.7      |
| 30°-40°   | 10545.4 | 19.7      |
| 40°-50°   | 16131.8 | 30.1      |
| 50°-60°   | 11761.4 | 22.0      |
| 60°-70°   | 2617.5  | 4.9       |
| 70°-80°   | 944.1   | 1.8       |
| 80°-90°   | 167.1   | 0.3       |
| 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°    | 53574.0 | 100.0     |
| 0°-180°   | 53574.0 | 100.0     |

**Coefficient of Utilization**



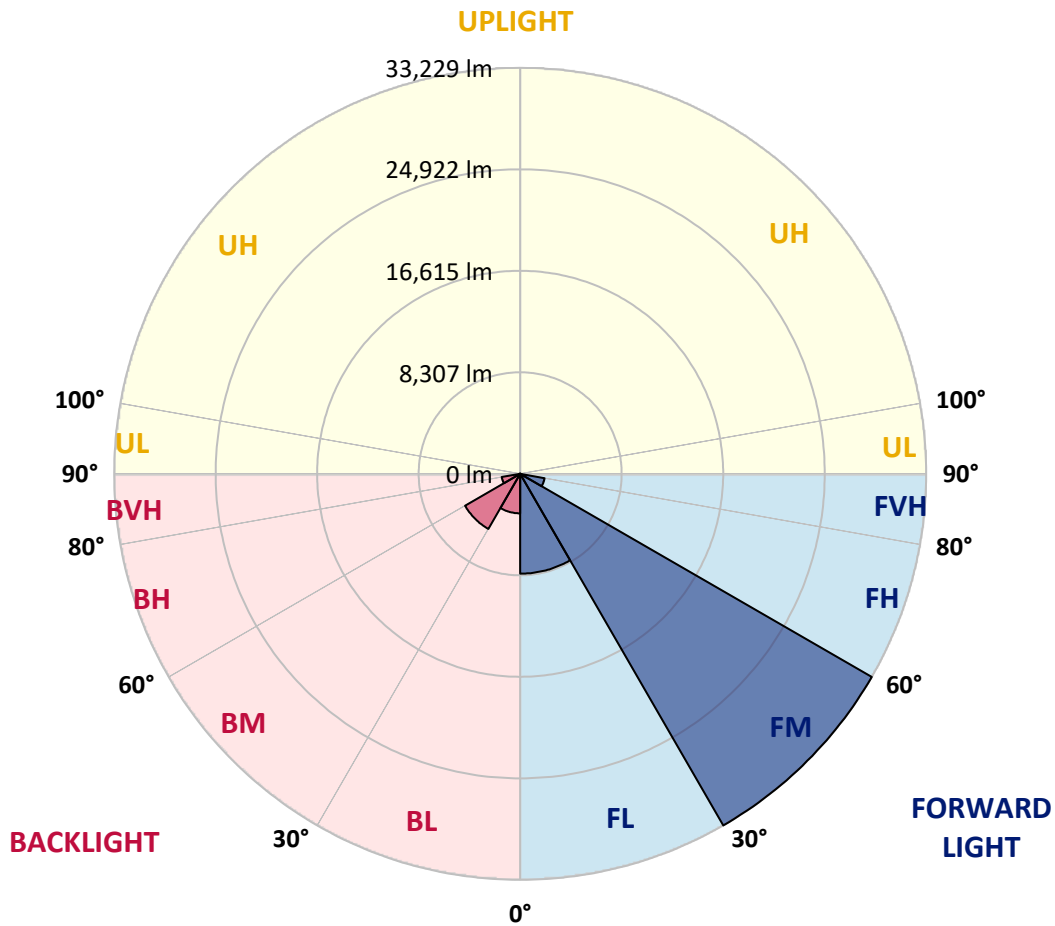
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 8171.9  | 15.3      |                         |      |         |
| FM (30°-60°)   | 33229.3 | 62.0      |                         |      |         |
| FH (60°-80°)   | 2027.3  | 3.8       |                         |      | G2/5000 |
| FVH (80°-90°)  | 74.9    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 3234.9  | 6.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 5209.2  | 9.7       | B4/8500                 |      |         |
| BH (60°-80°)   | 1534.3  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 92.2    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 |
| 2.5°  | 17781.0 | 17438.9 | 17477.6 | 17232.2 | 16967.5 | 16890.1 | 16618.9 | 16360.6 | 16166.9 | 15753.7 | 15372.8 |
| 5°    | 19433.9 | 19330.6 | 19175.6 | 18981.9 | 18781.8 | 18291.1 | 18013.5 | 17690.7 | 16980.4 | 16341.3 | 15708.5 |
| 7.5°  | 19672.8 | 19653.4 | 19737.3 | 19737.3 | 19808.4 | 19621.1 | 19227.3 | 19001.3 | 18245.9 | 17206.4 | 16031.4 |
| 10°   | 17994.1 | 18052.2 | 18459.0 | 18988.4 | 19724.4 | 20234.5 | 20169.9 | 20111.8 | 19285.4 | 17865.0 | 16412.3 |
| 12.5° | 16657.6 | 16528.5 | 16767.4 | 17219.3 | 18323.4 | 19556.6 | 20389.5 | 20395.9 | 20182.8 | 18917.4 | 16689.9 |
| 15°   | 15902.2 | 15992.6 | 16057.2 | 16270.2 | 17103.1 | 18530.0 | 19995.6 | 20428.2 | 21364.4 | 19659.9 | 17128.9 |
| 17.5° | 16386.5 | 16083.0 | 16070.1 | 16121.7 | 16547.9 | 17619.6 | 19266.0 | 20008.5 | 22010.0 | 20615.4 | 17671.3 |
| 20°   | 17019.2 | 17012.7 | 16831.9 | 16767.4 | 16760.9 | 17716.5 | 18788.3 | 19795.5 | 22352.2 | 21855.1 | 18220.1 |
| 22.5° | 18129.7 | 18129.7 | 17832.7 | 17690.7 | 17387.2 | 18168.4 | 18852.8 | 19537.2 | 22920.4 | 22707.3 | 18484.8 |
| 25°   | 19989.2 | 19685.7 | 19175.6 | 18827.0 | 18652.7 | 18930.3 | 19537.2 | 20150.6 | 23417.5 | 23611.2 | 19033.6 |
| 27.5° | 21706.6 | 21228.8 | 20977.0 | 20376.5 | 20144.1 | 19982.7 | 20537.9 | 21157.8 | 23998.6 | 25018.7 | 19330.6 |
| 30°   | 23656.4 | 23572.5 | 23120.5 | 22345.8 | 21771.1 | 21474.1 | 21984.2 | 22597.6 | 25063.9 | 26458.5 | 20015.0 |
| 32.5° | 27142.9 | 26381.0 | 25767.7 | 24818.6 | 23882.4 | 23249.7 | 23753.3 | 24160.0 | 26833.0 | 27962.9 | 20763.9 |
| 35°   | 30907.0 | 30661.7 | 29602.8 | 27891.8 | 26458.5 | 25890.3 | 26187.3 | 26490.8 | 28892.6 | 30261.4 | 22022.9 |
| 37.5° | 34606.5 | 34270.8 | 33399.2 | 31959.4 | 30216.2 | 29060.5 | 29273.5 | 29628.6 | 31204.0 | 33360.4 | 23559.6 |
| 40°   | 37266.6 | 36853.4 | 36414.3 | 36201.3 | 34471.0 | 32889.1 | 32766.5 | 32856.8 | 34328.9 | 36265.8 | 25264.1 |
| 42.5° | 37460.3 | 37970.3 | 38105.9 | 38964.6 | 38557.9 | 37260.1 | 36504.7 | 36524.1 | 37311.8 | 39139.0 | 26987.9 |
| 45°   | 37053.5 | 36582.2 | 37583.0 | 39926.6 | 41269.6 | 41876.5 | 40604.6 | 40443.2 | 39158.3 | 40804.7 | 27846.6 |
| 47.5° | 32785.8 | 32915.0 | 34606.5 | 38312.5 | 42192.9 | 44904.6 | 44607.6 | 44071.7 | 40146.2 | 40746.6 | 27711.1 |
| 50°   | 25916.2 | 26697.4 | 28266.3 | 32882.7 | 39610.3 | 45382.3 | 47132.0 | 45892.4 | 39558.6 | 39145.4 | 26329.4 |
| 52.5° | 17258.1 | 17580.9 | 18613.9 | 24573.2 | 31849.6 | 40565.8 | 44226.6 | 44510.7 | 39016.3 | 37047.1 | 24579.7 |
| 55°   | 7683.2  | 7657.3  | 9110.0  | 12835.4 | 19982.7 | 30868.3 | 36136.7 | 37867.0 | 36930.9 | 34910.0 | 22875.2 |
| 57.5° | 3254.0  | 3363.8  | 3957.8  | 5546.1  | 9826.7  | 18626.8 | 24482.8 | 26000.1 | 28401.9 | 28666.6 | 17548.6 |
| 60°   | 2201.6  | 2214.6  | 2376.0  | 2776.3  | 4112.8  | 8748.5  | 12841.9 | 14662.6 | 16380.0 | 16263.8 | 9310.2  |
| 62.5° | 1730.3  | 1775.5  | 1898.2  | 2059.6  | 2440.5  | 3970.7  | 5746.2  | 6759.9  | 6869.7  | 5778.5  | 3531.7  |
| 65°   | 1478.5  | 1485.0  | 1607.7  | 1743.2  | 1911.1  | 2311.4  | 2769.8  | 2821.5  | 2853.7  | 2750.4  | 2595.5  |
| 67.5° | 1220.3  | 1233.2  | 1330.0  | 1485.0  | 1639.9  | 1769.1  | 1898.2  | 1962.8  | 2111.3  | 2401.8  | 2363.1  |
| 70°   | 968.5   | 987.8   | 1071.8  | 1200.9  | 1342.9  | 1420.4  | 1581.8  | 1639.9  | 1775.5  | 2001.5  | 2091.9  |
| 72.5° | 736.0   | 742.5   | 813.5   | 903.9   | 1033.0  | 1110.5  | 1246.1  | 1310.7  | 1401.0  | 1594.7  | 1678.7  |
| 75°   | 529.4   | 548.8   | 600.4   | 645.6   | 665.0   | 716.7   | 845.8   | 916.8   | 1045.9  | 1129.9  | 1136.3  |
| 77.5° | 277.6   | 290.5   | 303.5   | 303.5   | 368.0   | 464.9   | 548.8   | 587.5   | 677.9   | 742.5   | 710.2   |
| 80°   | 109.8   | 116.2   | 148.5   | 200.1   | 258.3   | 335.7   | 393.8   | 413.2   | 490.7   | 529.4   | 548.8   |
| 82.5° | 64.6    | 71.0    | 96.8    | 142.0   | 187.2   | 238.9   | 284.1   | 303.5   | 355.1   | 400.3   | 413.2   |
| 85°   | 32.3    | 38.7    | 58.1    | 90.4    | 122.7   | 148.5   | 142.0   | 135.6   | 135.6   | 129.1   | 135.6   |
| 87.5° | 12.9    | 12.9    | 19.4    | 19.4    | 19.4    | 25.8    | 32.3    | 32.3    | 32.3    | 38.7    | 38.7    |
| 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°    | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 | 15101.6 |
| 2.5°  | 15121.0 | 14862.7 | 14623.8 | 14184.8 | 13707.0 | 13571.4 | 13016.2 | 12816.0 | 12674.0 | 12506.1 | 12454.5 |
| 5°    | 15198.5 | 14856.3 | 14088.0 | 13203.4 | 12499.7 | 11595.8 | 11001.8 | 10362.6 | 9897.7  | 9781.5  | 9749.2  |
| 7.5°  | 15359.9 | 14772.3 | 13448.8 | 12112.3 | 10672.5 | 9445.8  | 8509.6  | 8006.0  | 7560.5  | 7534.7  | 7489.5  |
| 10°   | 15540.7 | 14520.5 | 12751.5 | 10653.1 | 8813.0  | 7676.7  | 7115.0  | 6895.5  | 6785.7  | 6759.9  | 6747.0  |
| 12.5° | 15689.2 | 14468.9 | 11970.2 | 9232.7  | 7495.9  | 6811.5  | 6643.7  | 6624.3  | 6669.5  | 6682.4  | 6708.2  |
| 15°   | 15753.7 | 14262.3 | 11027.6 | 7960.8  | 6676.0  | 6424.2  | 6495.2  | 6572.7  | 6604.9  | 6688.9  | 6624.3  |
| 17.5° | 15876.4 | 13997.6 | 9865.4  | 6953.6  | 6217.6  | 6262.8  | 6385.4  | 6475.8  | 6527.5  | 6585.6  | 6501.6  |
| 20°   | 15941.0 | 13758.7 | 8774.3  | 6353.1  | 6056.1  | 6140.1  | 6307.9  | 6379.0  | 6443.5  | 6469.4  | 6372.5  |
| 22.5° | 15882.9 | 13268.0 | 7812.3  | 5868.9  | 5901.2  | 6010.9  | 6159.4  | 6236.9  | 6198.2  | 6094.9  | 6036.8  |
| 25°   | 15727.9 | 12577.2 | 6811.5  | 5559.0  | 5681.7  | 5875.4  | 5991.6  | 5933.5  | 5862.5  | 5804.3  | 5785.0  |
| 27.5° | 15721.4 | 11731.4 | 6088.4  | 5274.9  | 5494.4  | 5759.1  | 5720.4  | 5668.8  | 5701.0  | 5655.8  | 5604.2  |
| 30°   | 15753.7 | 10911.4 | 5494.4  | 5113.5  | 5358.8  | 5488.0  | 5533.2  | 5481.5  | 5520.3  | 5436.3  | 5462.2  |
| 32.5° | 15585.9 | 10110.8 | 5107.0  | 4926.3  | 5197.4  | 5191.0  | 5339.5  | 5378.2  | 5287.8  | 5113.5  | 5139.3  |
| 35°   | 15656.9 | 9465.1  | 4777.8  | 4842.3  | 5016.7  | 5016.7  | 5132.9  | 5087.7  | 4848.8  | 4745.5  | 4771.3  |
| 37.5° | 16147.6 | 8832.4  | 4616.4  | 4726.1  | 4842.3  | 4894.0  | 4855.2  | 4661.6  | 4603.4  | 4603.4  | 4616.4  |
| 40°   | 16612.4 | 8290.1  | 4519.5  | 4700.3  | 4680.9  | 4713.2  | 4429.1  | 4448.5  | 4448.5  | 4454.9  | 4422.7  |
| 42.5° | 17025.6 | 7922.1  | 4442.0  | 4545.3  | 4577.6  | 4409.8  | 4235.4  | 4216.1  | 4261.3  | 4254.8  | 4229.0  |
| 45°   | 17174.1 | 7618.6  | 4332.3  | 4371.0  | 4396.8  | 4119.2  | 4035.3  | 3996.5  | 4048.2  | 4067.6  | 4093.4  |
| 47.5° | 16606.0 | 7366.8  | 4209.6  | 4132.1  | 4080.5  | 3899.7  | 3789.9  | 3718.9  | 3783.5  | 3893.2  | 3919.1  |
| 50°   | 15876.4 | 7037.5  | 4015.9  | 3867.4  | 3757.7  | 3680.2  | 3602.7  | 3531.7  | 3576.9  | 3654.3  | 3635.0  |
| 52.5° | 14798.2 | 6521.0  | 3770.6  | 3615.6  | 3428.4  | 3447.7  | 3376.7  | 3338.0  | 3363.8  | 3363.8  | 3344.4  |
| 55°   | 13261.5 | 5358.8  | 3357.4  | 3247.6  | 3092.6  | 3144.3  | 3157.2  | 3105.5  | 3053.9  | 3099.1  | 3060.4  |
| 57.5° | 9051.9  | 3783.5  | 2995.8  | 2995.8  | 2840.8  | 2911.9  | 2905.4  | 2782.7  | 2660.1  | 2673.0  | 2647.1  |
| 60°   | 5236.2  | 3015.2  | 2763.4  | 2737.5  | 2576.1  | 2634.2  | 2647.1  | 2563.2  | 2376.0  | 2388.9  | 2363.1  |
| 62.5° | 2976.4  | 2576.1  | 2414.7  | 2376.0  | 2343.7  | 2395.3  | 2395.3  | 2285.6  | 2124.2  | 2137.1  | 2111.3  |
| 65°   | 2530.9  | 2388.9  | 2156.5  | 2150.0  | 2137.1  | 2150.0  | 2098.3  | 1982.1  | 1840.1  | 1782.0  | 1788.4  |
| 67.5° | 2298.5  | 2208.1  | 1982.1  | 1924.0  | 1885.3  | 1878.8  | 1782.0  | 1672.2  | 1607.7  | 1556.0  | 1549.5  |
| 70°   | 2014.4  | 1943.4  | 1775.5  | 1698.0  | 1659.3  | 1568.9  | 1472.1  | 1401.0  | 1310.7  | 1284.8  | 1310.7  |
| 72.5° | 1594.7  | 1588.3  | 1523.7  | 1439.8  | 1355.9  | 1284.8  | 1200.9  | 1104.1  | 1020.1  | 1000.7  | 955.6   |
| 75°   | 1104.1  | 1117.0  | 1129.9  | 1117.0  | 1045.9  | 955.6   | 858.7   | 781.2   | 677.9   | 619.8   | 606.9   |
| 77.5° | 723.1   | 742.5   | 761.9   | 736.0   | 690.8   | 606.9   | 542.3   | 445.5   | 368.0   | 322.8   | 316.4   |
| 80°   | 529.4   | 555.3   | 568.2   | 548.8   | 497.1   | 432.6   | 361.6   | 284.1   | 226.0   | 187.2   | 187.2   |
| 82.5° | 406.8   | 432.6   | 445.5   | 413.2   | 361.6   | 309.9   | 258.3   | 200.1   | 155.0   | 122.7   | 116.2   |
| 85°   | 142.0   | 135.6   | 161.4   | 167.9   | 200.1   | 187.2   | 155.0   | 116.2   | 90.4    | 64.6    | 58.1    |
| 87.5° | 38.7    | 38.7    | 45.2    | 45.2    | 38.7    | 32.3    | 32.3    | 32.3    | 25.8    | 19.4    | 19.4    |
| 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)