

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: P194434

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-SL2-7060  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34877 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 333  
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



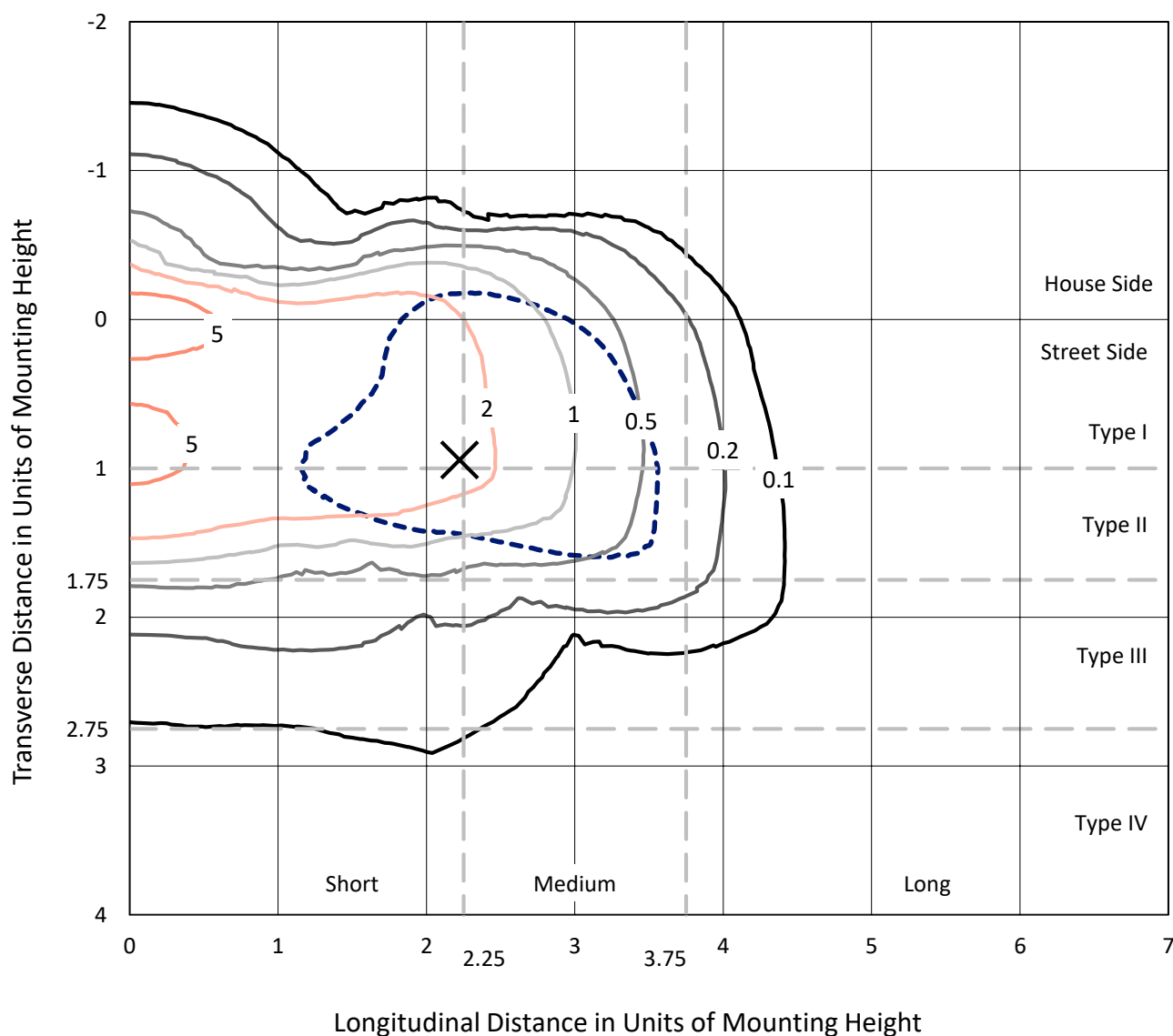
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

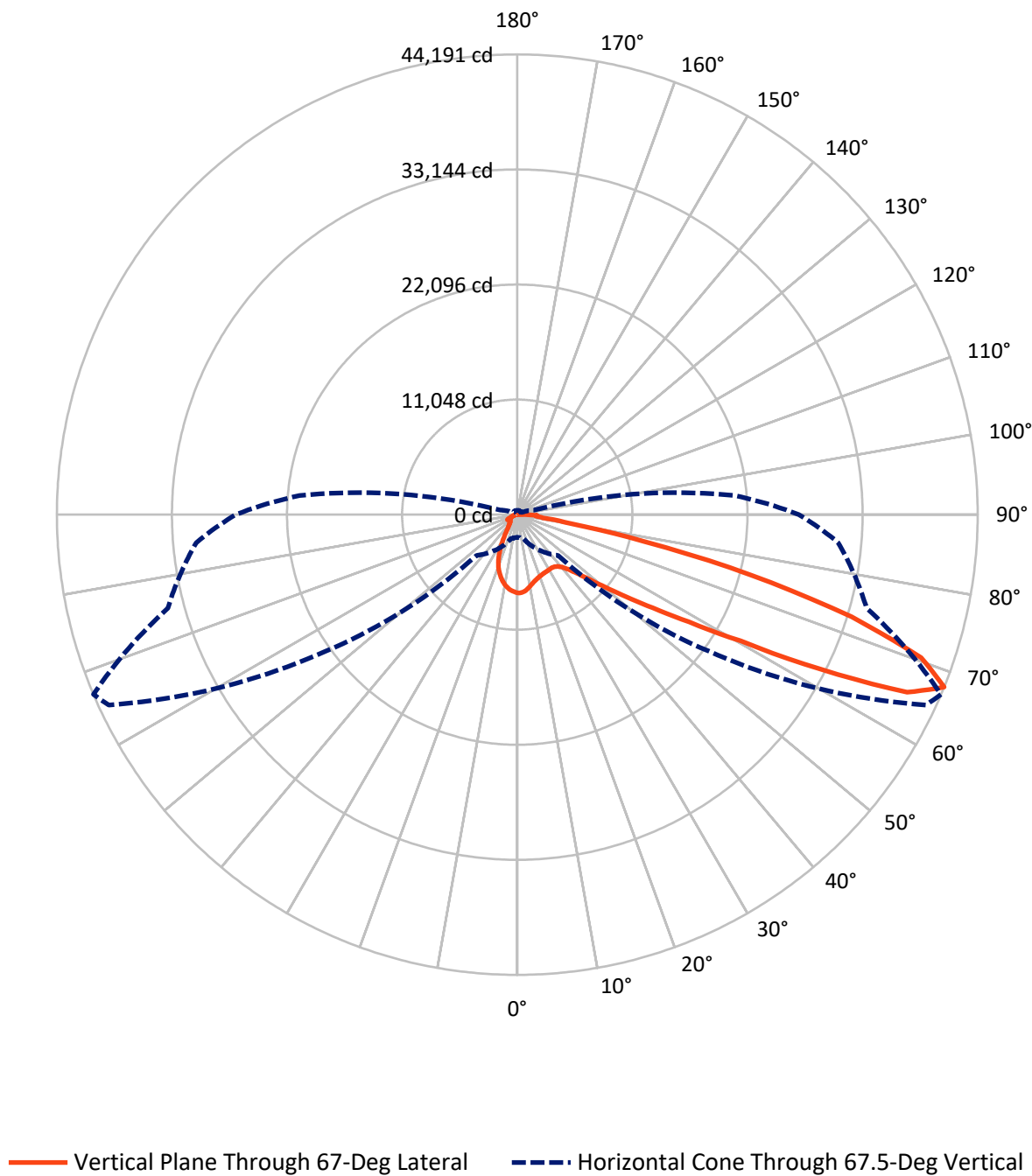


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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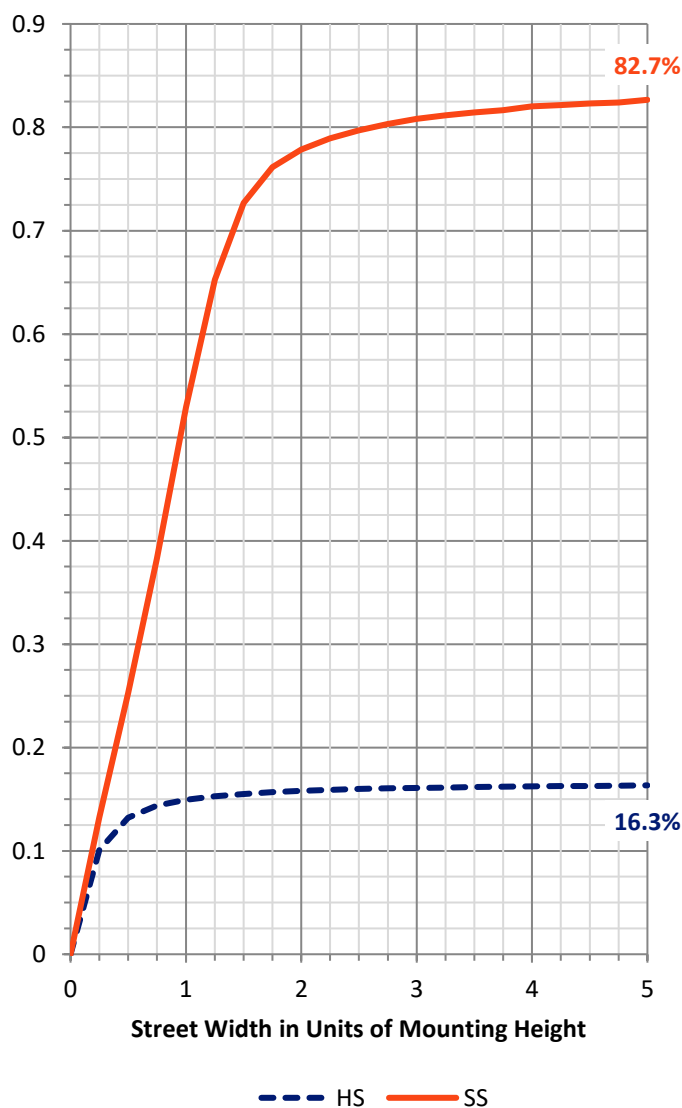
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5778.7   | 0.0    | 5778.7  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 29098.3  | 0.0    | 29098.3 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 34877.0  | 0.0    | 34877.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 641.8   | 1.8       |
| 10°-20°   | 1485.1  | 4.3       |
| 20°-30°   | 2013.0  | 5.8       |
| 30°-40°   | 2861.7  | 8.2       |
| 40°-50°   | 4787.8  | 13.7      |
| 50°-60°   | 7574.2  | 21.7      |
| 60°-70°   | 9648.8  | 27.7      |
| 70°-80°   | 5054.0  | 14.5      |
| 80°-90°   | 810.6   | 2.3       |
| 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°    | 34877.0 | 100.0     |
| 0°-180°   | 34877.0 | 100.0     |

**Coefficient of Utilization**



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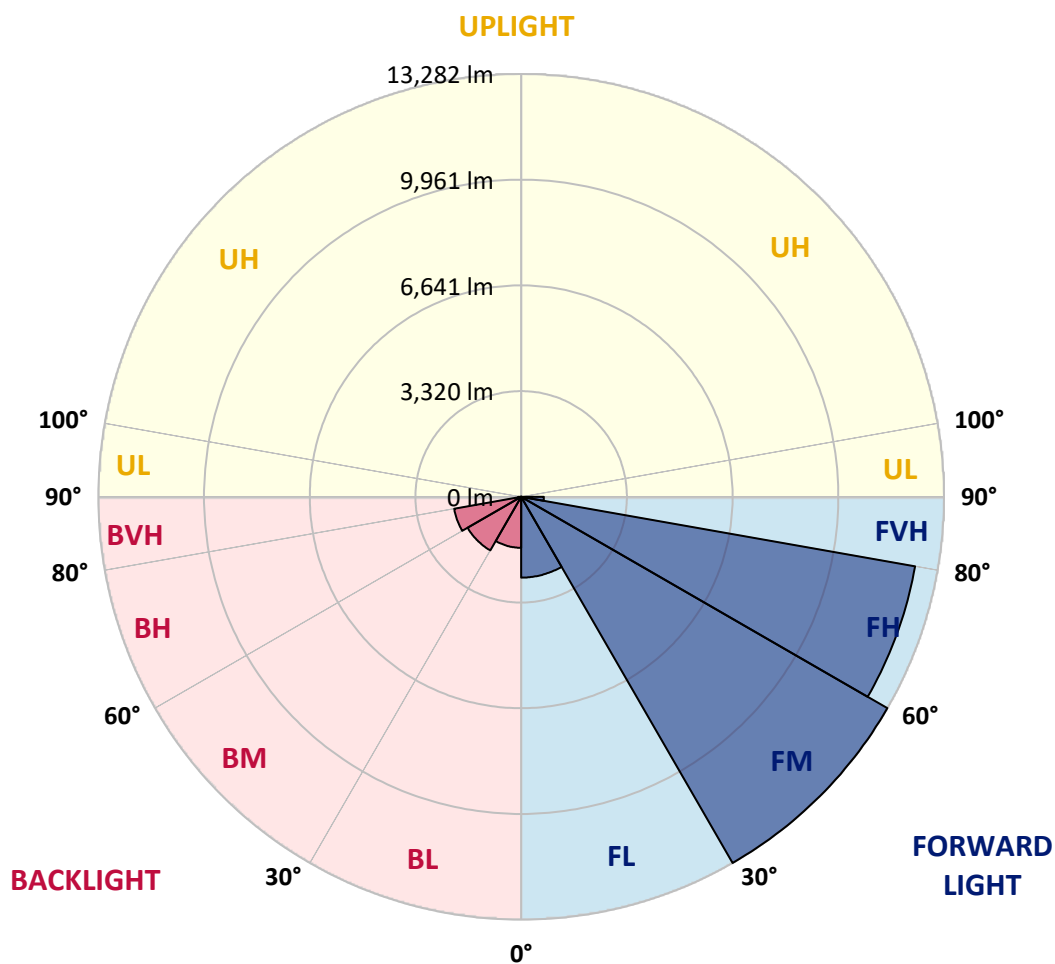
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2538.2  | 7.3       |                         |      |         |
| FM   | (30°-60°)   | 13281.9 | 38.1      |                         |      |         |
| FH   | (60°-80°)   | 12565.5 | 36.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 712.7   | 2.0       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1601.7  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1941.8  | 5.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2137.4  | 6.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 97.8    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  | 7522.9  |
| 2.5°  | 7213.3  | 7225.3  | 7263.2  | 7287.3  | 7395.6  | 7442.0  | 7474.7  | 7507.4  | 7512.6  | 7528.0  | 7512.6  |
| 5°    | 6456.5  | 6482.3  | 6552.9  | 6632.0  | 6841.8  | 7006.9  | 7180.6  | 7361.2  | 7393.9  | 7510.8  | 7543.5  |
| 7.5°  | 5870.1  | 5863.2  | 5921.6  | 6016.2  | 6231.2  | 6460.0  | 6764.4  | 7123.9  | 7194.4  | 7457.5  | 7584.8  |
| 10°   | 5441.8  | 5436.6  | 5498.6  | 5596.6  | 5801.3  | 6018.0  | 6361.9  | 6853.8  | 6953.6  | 7373.3  | 7624.4  |
| 12.5° | 5125.3  | 5127.0  | 5189.0  | 5297.3  | 5505.4  | 5723.9  | 6073.0  | 6592.4  | 6719.7  | 7275.2  | 7665.6  |
| 15°   | 4915.5  | 4929.3  | 4979.1  | 5094.4  | 5297.3  | 5515.7  | 5858.0  | 6396.3  | 6539.1  | 7197.8  | 7712.1  |
| 17.5° | 4845.0  | 4867.3  | 4884.5  | 4968.8  | 5142.5  | 5361.0  | 5696.3  | 6251.9  | 6403.2  | 7144.5  | 7753.4  |
| 20°   | 4910.3  | 4936.1  | 4903.5  | 4932.7  | 5042.8  | 5235.4  | 5569.1  | 6138.4  | 6293.1  | 7084.3  | 7758.5  |
| 22.5° | 5190.7  | 5214.8  | 5118.5  | 5034.2  | 5027.3  | 5144.2  | 5464.2  | 6048.9  | 6208.9  | 7039.6  | 7760.2  |
| 25°   | 5684.3  | 5699.8  | 5538.1  | 5342.0  | 5151.1  | 5111.6  | 5390.2  | 5987.0  | 6157.3  | 7000.0  | 7727.6  |
| 27.5° | 6289.7  | 6301.7  | 6116.0  | 5827.1  | 5443.5  | 5189.0  | 5364.4  | 5950.9  | 6128.0  | 6965.6  | 7672.5  |
| 30°   | 7025.8  | 7082.6  | 6833.2  | 6468.6  | 5909.6  | 5417.7  | 5416.0  | 5932.0  | 6095.4  | 6907.2  | 7564.2  |
| 32.5° | 7779.1  | 7803.2  | 7631.2  | 7261.5  | 6537.4  | 5820.2  | 5560.5  | 5945.7  | 6086.8  | 6836.6  | 7426.6  |
| 35°   | 8542.8  | 8573.7  | 8462.0  | 8164.4  | 7395.6  | 6410.1  | 5842.5  | 6026.6  | 6140.1  | 6812.6  | 7330.3  |
| 37.5° | 9531.7  | 9573.0  | 9418.2  | 9074.2  | 8439.6  | 7209.9  | 6312.1  | 6229.5  | 6303.5  | 6881.4  | 7301.0  |
| 40°   | 11095.1 | 11076.2 | 10623.9 | 10111.3 | 9581.6  | 8233.2  | 6982.8  | 6573.5  | 6616.5  | 7103.2  | 7390.5  |
| 42.5° | 12914.8 | 12868.4 | 12089.2 | 11284.3 | 10837.1 | 9471.5  | 7870.3  | 7170.3  | 7161.7  | 7540.1  | 7705.2  |
| 45°   | 14366.4 | 14328.6 | 13626.8 | 12634.5 | 12276.7 | 10881.9 | 9017.5  | 8059.5  | 7995.9  | 8233.2  | 8286.5  |
| 47.5° | 15152.4 | 15154.1 | 14749.9 | 13939.9 | 13931.3 | 12674.0 | 10491.4 | 9346.0  | 9235.9  | 9347.7  | 9291.0  |
| 50°   | 14877.2 | 14913.3 | 14870.3 | 14612.3 | 15441.3 | 15023.4 | 12416.0 | 11139.9 | 10918.0 | 11028.1 | 10809.6 |
| 52.5° | 13546.0 | 13592.4 | 13847.0 | 14242.6 | 16076.0 | 17863.0 | 15243.6 | 13368.9 | 13110.9 | 13071.3 | 12828.8 |
| 55°   | 11186.3 | 11243.0 | 11762.5 | 12837.4 | 15548.0 | 19770.4 | 19705.0 | 16210.1 | 15799.1 | 15425.9 | 15322.7 |
| 57.5° | 7710.4  | 7804.9  | 8640.8  | 10236.9 | 13840.1 | 20346.5 | 25017.8 | 20260.5 | 19424.7 | 18121.0 | 18145.0 |
| 60°   | 4346.2  | 4456.3  | 5441.8  | 6891.7  | 10393.4 | 19720.5 | 29059.6 | 26395.4 | 24630.8 | 21277.0 | 21455.9 |
| 62.5° | 2763.9  | 2882.6  | 3630.7  | 4788.2  | 6236.4  | 16349.5 | 30715.9 | 34924.5 | 32683.4 | 25167.4 | 25342.9 |
| 65°   | 2237.6  | 2289.2  | 2641.8  | 3952.4  | 4528.5  | 9849.9  | 29458.6 | 41950.3 | 41114.4 | 30105.3 | 29286.6 |
| 67.5° | 2184.3  | 2201.5  | 2383.8  | 3317.7  | 4342.8  | 5536.4  | 23497.4 | 43264.3 | 44191.4 | 34716.4 | 30929.1 |
| 70°   | 2158.5  | 2218.7  | 2686.5  | 3166.4  | 4158.7  | 4669.6  | 14120.5 | 39662.8 | 41126.5 | 35922.0 | 28743.1 |
| 72.5° | 1047.4  | 1044.0  | 1351.8  | 2863.6  | 4685.0  | 4843.3  | 7254.6  | 32091.8 | 33560.6 | 31121.8 | 23619.5 |
| 75°   | 844.5   | 772.2   | 737.8   | 1049.1  | 4504.4  | 5001.5  | 4623.1  | 22081.9 | 23144.8 | 20865.9 | 14519.5 |
| 77.5° | 801.5   | 715.5   | 655.3   | 657.0   | 1903.9  | 5304.2  | 3916.2  | 12221.7 | 12531.3 | 9425.1  | 3978.2  |
| 80°   | 663.9   | 584.8   | 541.8   | 610.6   | 921.9   | 5051.4  | 4234.4  | 5531.2  | 5075.5  | 2315.0  | 1324.3  |
| 82.5° | 460.9   | 419.7   | 407.6   | 512.5   | 737.8   | 3599.8  | 4924.1  | 2972.0  | 2492.1  | 1159.2  | 817.0   |
| 85°   | 294.1   | 251.1   | 278.6   | 373.2   | 574.4   | 1661.4  | 5072.0  | 2316.7  | 1842.0  | 736.1   | 460.9   |
| 87.5° | 135.9   | 110.1   | 137.6   | 206.4   | 374.9   | 572.7   | 4826.1  | 2602.2  | 1897.1  | 388.7   | 290.7   |
| 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°    | 7522.9  | 7522.9  | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 | 7522.9 |
| 2.5°  | 7526.3  | 7493.6  | 7467.8 | 7419.7 | 7366.4 | 7314.8 | 7268.3 | 7209.9 | 7192.7 | 7177.2 | 7201.3 |
| 5°    | 7550.4  | 7517.7  | 7423.1 | 7275.2 | 7111.8 | 6958.8 | 6805.7 | 6675.0 | 6594.1 | 6549.4 | 6575.2 |
| 7.5°  | 7586.5  | 7540.1  | 7344.0 | 7072.3 | 6778.2 | 6509.9 | 6233.0 | 6011.1 | 5847.7 | 5770.3 | 5792.7 |
| 10°   | 7619.2  | 7529.8  | 7209.9 | 6802.2 | 6372.3 | 5973.2 | 5536.4 | 5175.2 | 4906.9 | 4765.9 | 4800.3 |
| 12.5° | 7633.0  | 7490.2  | 7022.4 | 6465.1 | 5875.2 | 5290.4 | 4647.2 | 4107.1 | 3721.9 | 3580.9 | 3551.6 |
| 15°   | 7646.7  | 7445.5  | 6816.0 | 6081.6 | 5275.0 | 4447.7 | 3546.5 | 2899.8 | 2579.9 | 2509.3 | 2493.9 |
| 17.5° | 7650.2  | 7368.1  | 6582.1 | 5665.4 | 4571.5 | 3445.0 | 2425.1 | 2014.0 | 2015.7 | 2129.2 | 2143.0 |
| 20°   | 7614.0  | 7252.9  | 6298.3 | 5147.7 | 3728.8 | 2382.1 | 1664.9 | 1594.4 | 1854.1 | 2137.8 | 2172.2 |
| 22.5° | 7531.5  | 7099.8  | 5976.7 | 4544.0 | 2763.9 | 1568.6 | 1288.2 | 1365.6 | 1701.0 | 2048.4 | 2088.0 |
| 25°   | 7426.6  | 6914.0  | 5596.6 | 3844.0 | 1830.0 | 1121.4 | 1080.1 | 1174.7 | 1401.7 | 1633.9 | 1656.3 |
| 27.5° | 7283.8  | 6693.9  | 5170.0 | 3042.5 | 1188.5 | 923.6  | 951.1  | 1014.7 | 1107.6 | 1210.8 | 1221.1 |
| 30°   | 7099.8  | 6430.7  | 4714.3 | 2218.7 | 897.8  | 830.7  | 870.3  | 904.7  | 944.2  | 1002.7 | 1007.9 |
| 32.5° | 6888.2  | 6177.9  | 4246.5 | 1532.4 | 796.3  | 782.6  | 813.5  | 830.7  | 861.7  | 897.8  | 901.2  |
| 35°   | 6711.1  | 5937.1  | 3761.4 | 1083.5 | 753.3  | 746.4  | 767.1  | 774.0  | 803.2  | 842.8  | 846.2  |
| 37.5° | 6609.6  | 5741.1  | 3260.9 | 873.7  | 724.1  | 713.8  | 725.8  | 725.8  | 767.1  | 825.6  | 834.2  |
| 40°   | 6616.5  | 5632.7  | 2760.5 | 789.4  | 700.0  | 686.2  | 688.0  | 688.0  | 741.3  | 804.9  | 810.1  |
| 42.5° | 6804.0  | 5660.2  | 2316.7 | 756.8  | 681.1  | 665.6  | 657.0  | 662.2  | 706.9  | 748.2  | 751.6  |
| 45°   | 7244.3  | 5854.6  | 1900.5 | 736.1  | 662.2  | 657.0  | 638.1  | 636.4  | 653.6  | 672.5  | 672.5  |
| 47.5° | 7966.6  | 6238.1  | 1618.4 | 722.4  | 646.7  | 645.0  | 622.6  | 600.2  | 598.5  | 605.4  | 605.4  |
| 50°   | 9141.3  | 6898.6  | 1429.2 | 706.9  | 636.4  | 622.6  | 596.8  | 562.4  | 550.4  | 555.5  | 555.5  |
| 52.5° | 10902.5 | 8076.7  | 1357.0 | 686.2  | 614.0  | 591.6  | 562.4  | 528.0  | 517.7  | 519.4  | 519.4  |
| 55°   | 13212.3 | 9886.0  | 1346.7 | 662.2  | 589.9  | 553.8  | 529.7  | 503.9  | 491.9  | 495.3  | 495.3  |
| 57.5° | 16034.7 | 12388.5 | 1530.7 | 624.3  | 557.3  | 516.0  | 502.2  | 485.0  | 476.4  | 481.6  | 479.9  |
| 60°   | 19465.9 | 15663.2 | 2270.3 | 584.8  | 524.6  | 481.6  | 481.6  | 467.8  | 460.9  | 466.1  | 464.4  |
| 62.5° | 23418.3 | 19424.7 | 3192.2 | 555.5  | 490.2  | 454.1  | 460.9  | 454.1  | 447.2  | 450.6  | 448.9  |
| 65°   | 26923.5 | 21875.5 | 2989.2 | 533.2  | 455.8  | 428.3  | 440.3  | 436.9  | 431.7  | 435.1  | 433.4  |
| 67.5° | 27024.9 | 20967.4 | 1678.6 | 509.1  | 423.1  | 402.5  | 419.7  | 417.9  | 414.5  | 417.9  | 416.2  |
| 70°   | 24118.3 | 17704.7 | 946.0  | 464.4  | 388.7  | 371.5  | 395.6  | 393.9  | 390.4  | 397.3  | 395.6  |
| 72.5° | 19323.2 | 12847.7 | 691.4  | 409.3  | 354.3  | 338.8  | 366.3  | 364.6  | 364.6  | 374.9  | 369.8  |
| 75°   | 11119.2 | 6611.3  | 552.1  | 350.9  | 318.2  | 306.1  | 330.2  | 331.9  | 335.4  | 349.1  | 338.8  |
| 77.5° | 3169.8  | 2060.5  | 450.6  | 297.5  | 273.5  | 268.3  | 292.4  | 295.8  | 297.5  | 313.0  | 299.3  |
| 80°   | 1178.1  | 949.4   | 371.5  | 249.4  | 223.6  | 225.3  | 247.7  | 252.8  | 254.5  | 270.0  | 252.8  |
| 82.5° | 751.6   | 626.0   | 301.0  | 192.6  | 175.4  | 173.7  | 201.2  | 208.1  | 208.1  | 209.8  | 199.5  |
| 85°   | 438.6   | 374.9   | 227.0  | 139.3  | 123.8  | 118.7  | 149.6  | 161.7  | 156.5  | 153.1  | 146.2  |
| 87.5° | 294.1   | 258.0   | 139.3  | 77.4   | 67.1   | 63.6   | 87.7   | 96.3   | 92.9   | 87.7   | 82.6   |
| 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)