

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: STREETWORKS

Report Number: P850327

Luminaire Tested: **GLAN-SB7D-740-U-T3-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P850327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

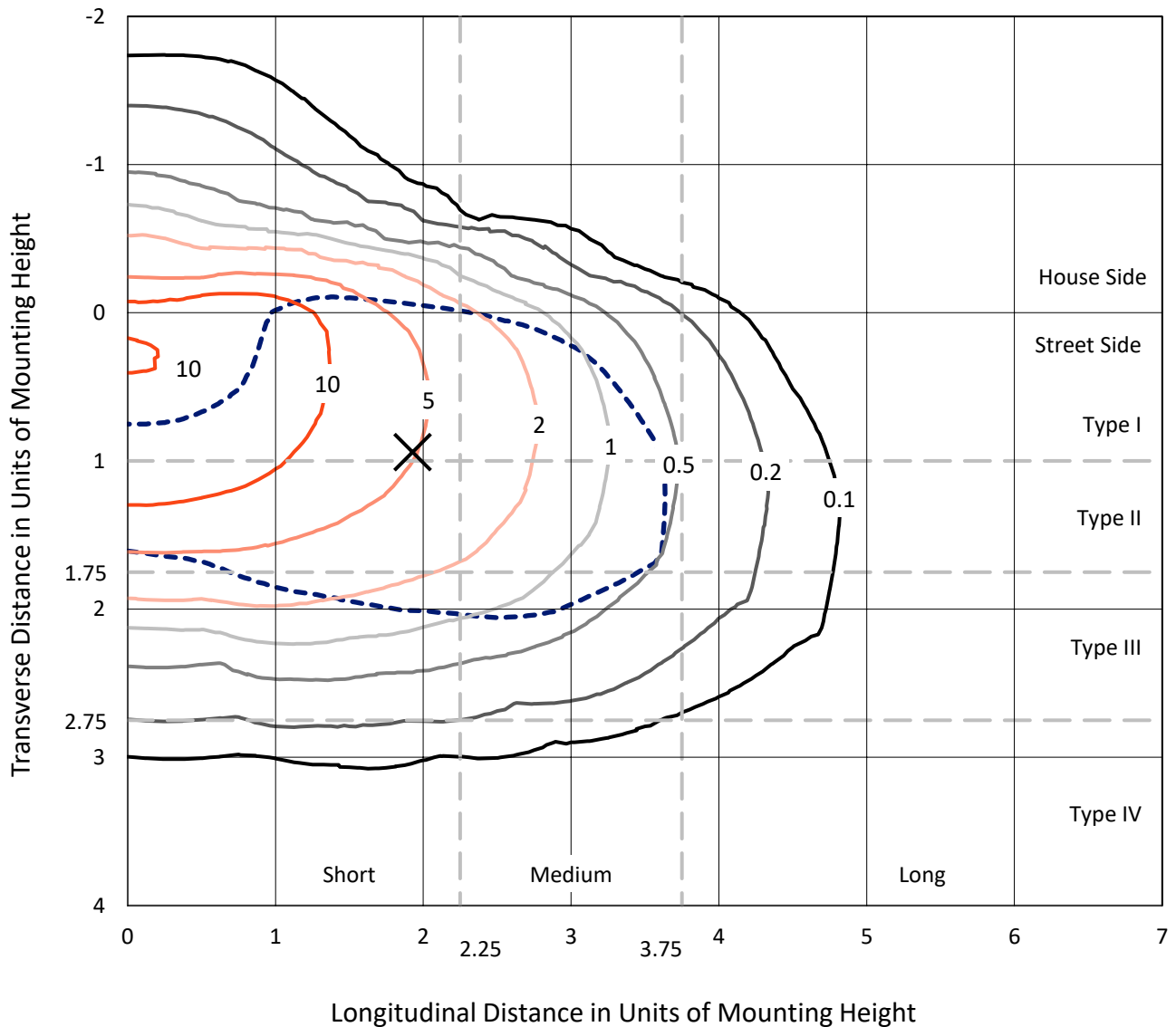
Lumens per Lamp: N/A  
Luminaire Lumens: 60047 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

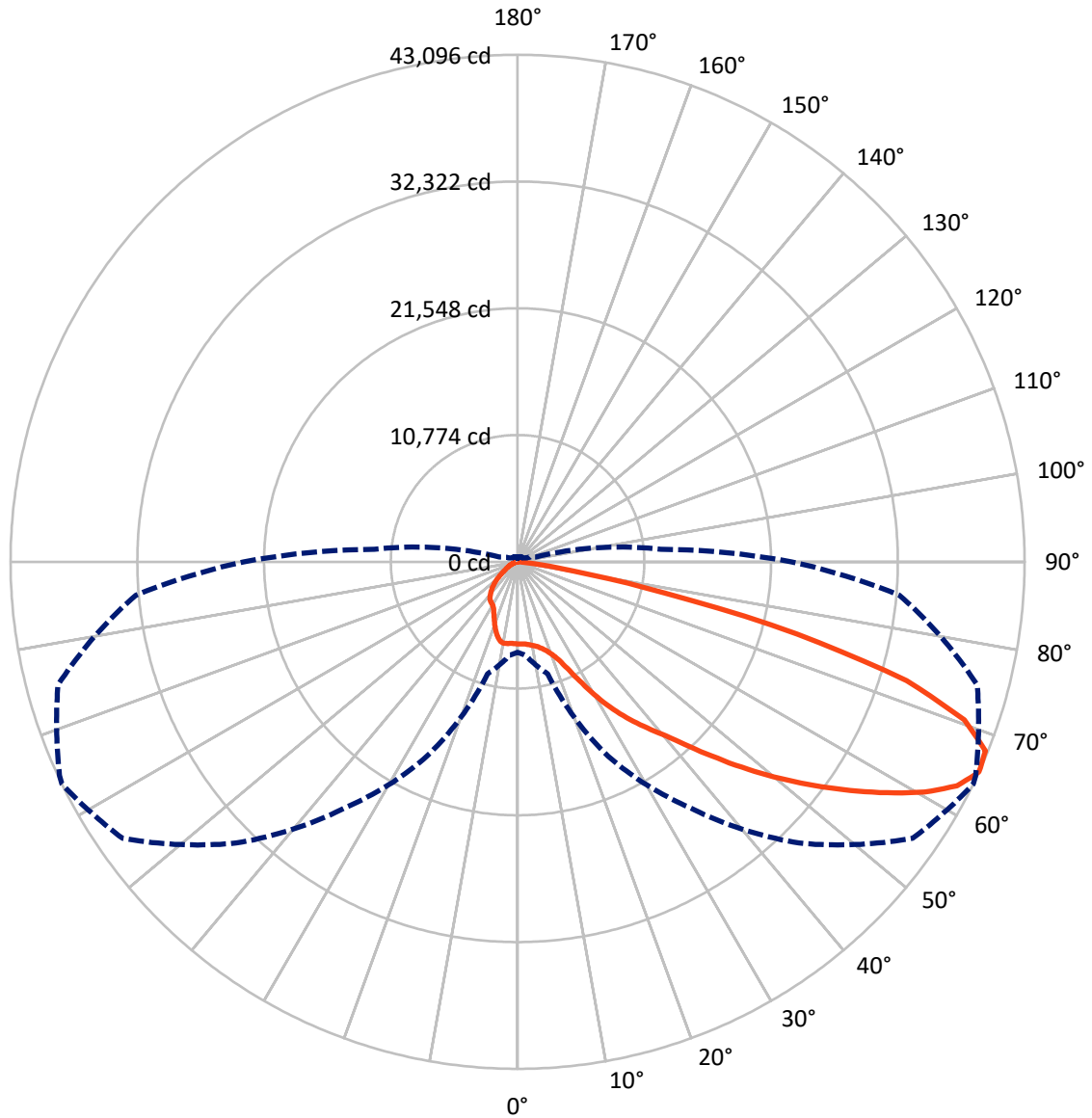
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8030.1   | 0.0    | 8030.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 52016.9  | 0.0    | 52016.9 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 60047.0  | 0.0    | 60047.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 644.4   | 1.1       |
| 10°-20°   | 1747.7  | 2.9       |
| 20°-30°   | 3311.7  | 5.5       |
| 30°-40°   | 6701.3  | 11.2      |
| 40°-50°   | 11415.7 | 19.0      |
| 50°-60°   | 15524.5 | 25.9      |
| 60°-70°   | 14578.2 | 24.3      |
| 70°-80°   | 5840.7  | 9.7       |
| 80°-90°   | 283.0   | 0.5       |
| 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°    | 60047.0 | 100.0     |
| 0°-180°   | 60047.0 | 100.0     |

**Coefficient of Utilization**



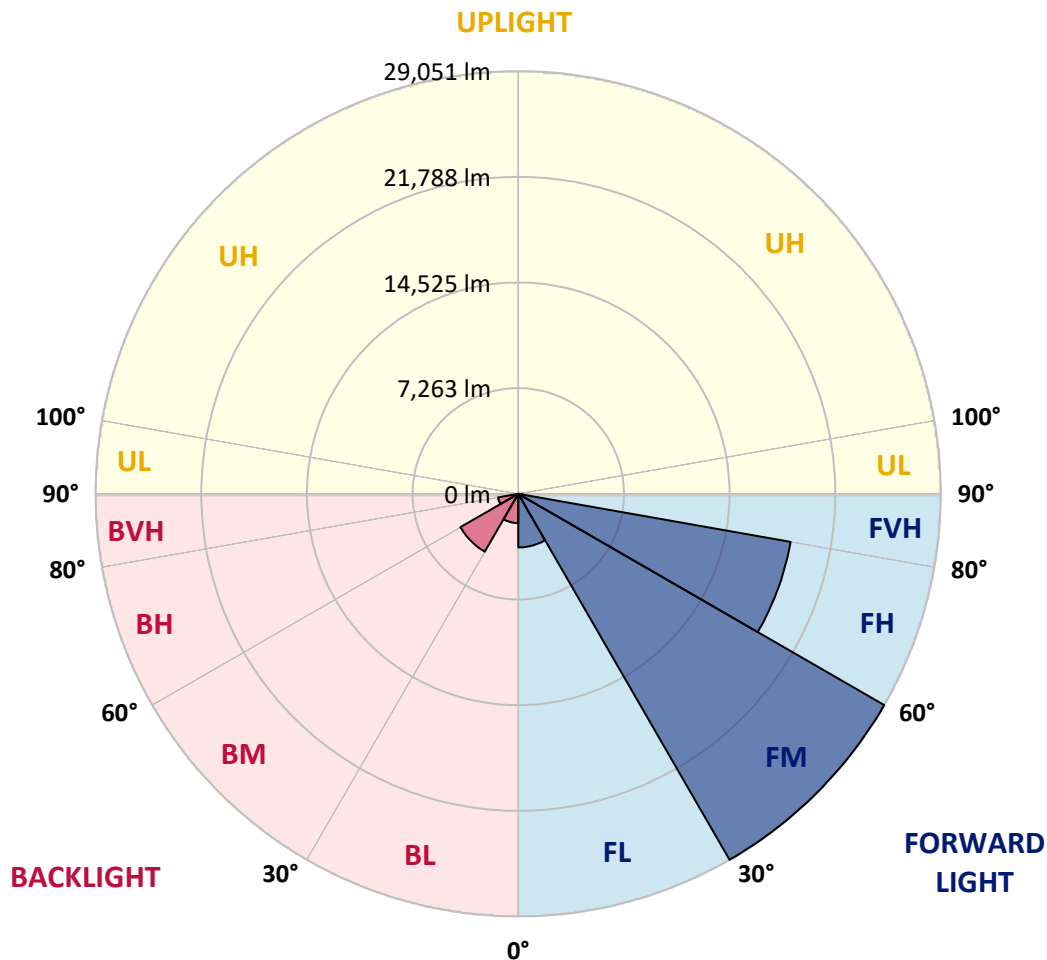
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3687.6  | 6.1       |                         |      |         |
| FM (30°-60°)   | 29050.7 | 48.4      |                         |      |         |
| FH (60°-80°)   | 19009.5 | 31.7      |                         |      | G5      |
| FVH (80°-90°)  | 269.1   | 0.4       |                         |      | G3/500  |
| BL (0°-30°)    | 2016.1  | 3.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 4590.8  | 7.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 1409.4  | 2.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 13.8    | 0.0       |                         |      | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6984.1  | 6984.1  | 6984.1  | 6984.1  | 6984.1  | 6984.1  | 6984.1  | 6984.1  | 6984.1  | 6984.1  |
| 2.5°  | 6959.9  | 7008.2  | 6996.2  | 6984.1  | 6980.1  | 6988.1  | 6992.1  | 6988.1  | 6988.1  | 6988.1  |
| 5°    | 6827.1  | 6867.4  | 6867.4  | 6895.5  | 6935.8  | 6984.1  | 7020.3  | 7028.4  | 7036.4  | 7048.5  |
| 7.5°  | 6573.5  | 6605.7  | 6629.9  | 6722.4  | 6823.1  | 6951.9  | 7060.6  | 7116.9  | 7125.0  | 7169.3  |
| 10°   | 6400.4  | 6440.7  | 6480.9  | 6577.5  | 6722.4  | 6915.7  | 7100.8  | 7237.7  | 7257.8  | 7362.5  |
| 12.5° | 6392.4  | 6432.6  | 6484.9  | 6589.6  | 6758.7  | 6964.0  | 7189.4  | 7386.6  | 7422.9  | 7575.8  |
| 15°   | 6476.9  | 6525.2  | 6573.5  | 6702.3  | 6883.5  | 7133.0  | 7374.6  | 7620.1  | 7656.3  | 7873.7  |
| 17.5° | 6650.0  | 6714.4  | 6750.6  | 6879.4  | 7072.6  | 7350.4  | 7668.4  | 7950.2  | 7982.4  | 8236.0  |
| 20°   | 6992.1  | 7068.6  | 7080.7  | 7185.4  | 7374.6  | 7672.4  | 8050.8  | 8401.0  | 8441.3  | 8731.1  |
| 22.5° | 7700.6  | 7809.3  | 7712.7  | 7765.0  | 7934.1  | 8232.0  | 8642.6  | 9085.4  | 9141.7  | 9471.8  |
| 25°   | 8948.5  | 9101.5  | 8851.9  | 8763.3  | 8835.8  | 9145.7  | 9661.0  | 10220.5 | 10284.9 | 10550.6 |
| 27.5° | 11400.0 | 11202.7 | 10824.3 | 10454.0 | 10236.6 | 10413.7 | 10993.4 | 11685.8 | 11766.3 | 12023.9 |
| 30°   | 14093.0 | 13919.9 | 13408.6 | 12587.5 | 12072.2 | 12044.0 | 12579.4 | 13352.3 | 13444.9 | 13690.4 |
| 32.5° | 16790.0 | 16625.0 | 16069.4 | 15059.1 | 14165.4 | 13722.6 | 14093.0 | 14950.4 | 14998.7 | 15155.7 |
| 35°   | 19442.7 | 19273.7 | 18718.2 | 17683.6 | 16584.7 | 15578.3 | 15505.9 | 16472.0 | 16488.1 | 16653.1 |
| 37.5° | 22111.6 | 21970.7 | 21379.0 | 20364.6 | 19281.7 | 17893.0 | 17220.7 | 17913.1 | 17933.2 | 18094.2 |
| 40°   | 24015.6 | 24076.0 | 23669.4 | 22884.5 | 21954.6 | 20437.0 | 19144.9 | 19446.8 | 19326.0 | 19595.7 |
| 42.5° | 25649.9 | 25770.7 | 25416.5 | 25022.0 | 24482.6 | 23146.1 | 21527.9 | 21475.6 | 21282.4 | 21427.3 |
| 45°   | 27062.8 | 27163.5 | 26845.5 | 26752.9 | 26740.8 | 25802.9 | 24132.3 | 23818.4 | 23548.7 | 23520.5 |
| 47.5° | 27582.1 | 27775.3 | 27912.2 | 28222.2 | 28826.0 | 28431.5 | 26825.3 | 26338.3 | 26036.4 | 25815.0 |
| 50°   | 27779.4 | 27984.7 | 28451.6 | 29353.3 | 30782.3 | 30951.4 | 29506.3 | 28958.8 | 28588.5 | 28185.9 |
| 52.5° | 27513.7 | 27880.0 | 28508.0 | 30025.5 | 32098.6 | 32972.1 | 32078.5 | 31599.5 | 31176.8 | 30520.7 |
| 55°   | 25947.8 | 26314.1 | 27598.2 | 30017.5 | 32754.8 | 34389.1 | 34509.9 | 34296.5 | 33821.5 | 32787.0 |
| 57.5° | 22647.0 | 23190.4 | 25223.2 | 28995.0 | 32742.7 | 35608.8 | 36892.9 | 37045.9 | 36514.5 | 35033.2 |
| 60°   | 18074.1 | 18810.7 | 21290.4 | 26728.7 | 31732.3 | 36269.0 | 38982.1 | 39746.9 | 39183.4 | 37247.1 |
| 62.5° | 12611.6 | 13465.0 | 15811.8 | 23178.3 | 29421.7 | 35794.0 | 40507.7 | 41920.6 | 41493.9 | 39227.6 |
| 65°   | 7692.6  | 7966.3  | 9858.2  | 18239.1 | 25492.9 | 33805.4 | 40978.7 | 43096.1 | 42955.2 | 40439.3 |
| 67.5° | 5124.3  | 5353.8  | 5897.2  | 12507.0 | 19788.9 | 29832.3 | 39851.6 | 42890.8 | 42931.0 | 40242.0 |
| 70°   | 3087.5  | 3284.7  | 3639.0  | 7273.9  | 12825.0 | 23613.1 | 36361.5 | 40274.2 | 40507.7 | 37605.4 |
| 72.5° | 1272.0  | 1404.9  | 1726.9  | 3296.8  | 6641.9  | 14986.6 | 28954.8 | 34578.3 | 35121.7 | 31619.6 |
| 75°   | 720.5   | 789.0   | 1014.4  | 1654.4  | 2882.2  | 6984.1  | 17538.7 | 24547.0 | 25348.0 | 21793.6 |
| 77.5° | 479.0   | 511.2   | 656.1   | 1070.8  | 1622.2  | 2383.0  | 7495.3  | 12788.7 | 14318.4 | 11903.1 |
| 80°   | 322.0   | 350.2   | 450.8   | 716.5   | 1054.7  | 1022.5  | 2387.1  | 4737.9  | 5828.8  | 4089.8  |
| 82.5° | 217.4   | 221.4   | 322.0   | 471.0   | 668.2   | 495.1   | 704.4   | 1473.3  | 1851.7  | 1183.5  |
| 85°   | 124.8   | 120.8   | 237.5   | 273.7   | 297.9   | 205.3   | 213.3   | 442.8   | 579.7   | 499.2   |
| 87.5° | 16.1    | 24.2    | 92.6    | 72.5    | 40.3    | 44.3    | 44.3    | 76.5    | 112.7   | 120.8   |
| 90°   | 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):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6984.1  | 0°    | 6984.1  | 6984.1  | 6984.1 | 6984.1 | 6984.1 | 6984.1 | 6984.1 | 6984.1 | 6984.1 | 6984.1 |
| 6992.1  | 2.5°  | 6992.1  | 6988.1  | 6976.0 | 6964.0 | 6935.8 | 6919.7 | 6927.7 | 6919.7 | 6915.7 | 6919.7 |
| 7044.5  | 5°    | 7044.5  | 7032.4  | 7000.2 | 6959.9 | 6903.6 | 6835.1 | 6790.9 | 6726.5 | 6666.1 | 6629.9 |
| 7185.4  | 7.5°  | 7185.4  | 7173.3  | 7129.0 | 7016.3 | 6835.1 | 6549.3 | 6287.7 | 6058.2 | 5885.2 | 5784.5 |
| 7410.8  | 10°   | 7410.8  | 7390.7  | 7322.2 | 7072.6 | 6597.7 | 5973.7 | 5454.4 | 5023.7 | 4741.9 | 4609.1 |
| 7676.5  | 12.5° | 7676.5  | 7652.3  | 7531.5 | 7020.3 | 6146.8 | 5172.7 | 4456.1 | 3977.1 | 3715.5 | 3598.7 |
| 7982.4  | 15°   | 7990.4  | 7958.2  | 7720.7 | 6770.7 | 5490.7 | 4287.1 | 3630.9 | 3272.7 | 3103.6 | 2998.9 |
| 8372.9  | 17.5° | 8380.9  | 8324.6  | 7861.6 | 6396.4 | 4778.2 | 3610.8 | 3123.7 | 2854.0 | 2705.1 | 2604.4 |
| 8884.1  | 20°   | 8888.1  | 8795.5  | 7974.3 | 5949.6 | 4122.0 | 3184.1 | 2781.6 | 2556.1 | 2443.4 | 2354.9 |
| 9608.7  | 22.5° | 9596.6  | 9463.7  | 8111.2 | 5466.5 | 3659.1 | 2890.2 | 2528.0 | 2362.9 | 2270.3 | 2169.7 |
| 10619.0 | 25°   | 10474.1 | 10317.1 | 8280.3 | 5019.7 | 3341.1 | 2636.6 | 2342.8 | 2205.9 | 2097.2 | 1980.5 |
| 11943.4 | 27.5° | 11701.9 | 11420.1 | 8481.5 | 4653.4 | 3067.4 | 2419.3 | 2173.7 | 2020.8 | 1896.0 | 1799.4 |
| 13444.9 | 30°   | 13070.5 | 12607.6 | 8658.7 | 4432.0 | 2817.8 | 2218.0 | 1952.3 | 1799.4 | 1682.6 | 1614.2 |
| 14793.4 | 32.5° | 14366.7 | 13738.7 | 8775.4 | 4335.4 | 2592.4 | 1988.6 | 1710.8 | 1545.8 | 1457.2 | 1437.1 |
| 16113.7 | 35°   | 15590.4 | 14761.2 | 8763.3 | 4242.8 | 2391.1 | 1759.1 | 1473.3 | 1304.2 | 1235.8 | 1247.9 |
| 17534.7 | 37.5° | 16999.3 | 15852.1 | 8678.8 | 4097.9 | 2226.1 | 1549.8 | 1268.0 | 1119.1 | 1058.7 | 1062.7 |
| 19261.6 | 40°   | 18637.7 | 17112.0 | 8626.5 | 3824.1 | 2044.9 | 1356.6 | 1098.9 | 978.2  | 933.9  | 917.8  |
| 21081.1 | 42.5° | 20384.7 | 18331.7 | 8634.5 | 3514.2 | 1819.5 | 1183.5 | 982.2  | 881.6  | 841.3  | 829.2  |
| 23105.9 | 45°   | 22139.8 | 19495.1 | 8646.6 | 3192.2 | 1582.0 | 1050.6 | 897.7  | 813.1  | 789.0  | 772.9  |
| 25158.8 | 47.5° | 23790.2 | 20485.3 | 8421.2 | 2846.0 | 1348.5 | 950.0  | 829.2  | 772.9  | 752.8  | 732.6  |
| 27219.8 | 50°   | 25327.9 | 21145.5 | 7877.7 | 2443.4 | 1163.3 | 869.5  | 776.9  | 736.7  | 716.5  | 696.4  |
| 29087.6 | 52.5° | 26523.4 | 21250.1 | 6980.1 | 2028.8 | 1034.5 | 809.1  | 744.7  | 708.5  | 684.3  | 664.2  |
| 30597.2 | 55°   | 27054.8 | 20594.0 | 5704.0 | 1642.4 | 933.9  | 756.8  | 712.5  | 676.3  | 648.1  | 628.0  |
| 31784.7 | 57.5° | 26917.9 | 19213.3 | 4448.1 | 1320.3 | 837.3  | 704.4  | 672.2  | 648.1  | 615.9  | 583.7  |
| 32746.7 | 60°   | 26245.7 | 17365.6 | 3353.2 | 1098.9 | 748.7  | 648.1  | 628.0  | 607.8  | 563.6  | 515.3  |
| 33117.1 | 62.5° | 25082.3 | 15043.0 | 2391.1 | 909.7  | 652.1  | 583.7  | 575.6  | 559.5  | 495.1  | 406.6  |
| 32569.6 | 65°   | 23303.1 | 12221.2 | 1610.2 | 756.8  | 559.5  | 511.2  | 515.3  | 487.1  | 402.5  | 301.9  |
| 30565.0 | 67.5° | 20702.7 | 8936.4  | 1030.5 | 619.9  | 466.9  | 426.7  | 430.7  | 414.6  | 342.2  | 257.6  |
| 26765.0 | 70°   | 17389.8 | 5917.4  | 672.2  | 471.0  | 374.4  | 330.1  | 354.2  | 358.3  | 289.8  | 209.3  |
| 20541.7 | 72.5° | 12748.5 | 3494.1  | 471.0  | 350.2  | 273.7  | 229.4  | 289.8  | 297.9  | 233.5  | 157.0  |
| 12358.0 | 75°   | 7265.9  | 1658.5  | 354.2  | 253.6  | 169.1  | 161.0  | 225.4  | 225.4  | 161.0  | 104.7  |
| 5349.8  | 77.5° | 3051.3  | 692.4   | 249.6  | 165.0  | 96.6   | 92.6   | 153.0  | 140.9  | 80.5   | 48.3   |
| 1304.2  | 80°   | 881.6   | 310.0   | 132.8  | 80.5   | 40.3   | 36.2   | 60.4   | 44.3   | 20.1   | 8.1    |
| 495.1   | 82.5° | 346.2   | 136.9   | 52.3   | 32.2   | 16.1   | 16.1   | 8.1    | 0.0    | 0.0    | 0.0    |
| 281.8   | 85°   | 205.3   | 56.4    | 24.2   | 12.1   | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60.4    | 87.5° | 52.3    | 12.1    | 8.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 180°   |
|--------|
| 6984.1 |
| 6935.8 |
| 6637.9 |
| 5788.5 |
| 4597.0 |
| 3586.6 |
| 3003.0 |
| 2596.4 |
| 2338.8 |
| 2153.6 |
| 1968.4 |
| 1779.2 |
| 1602.1 |
| 1449.1 |
| 1247.9 |
| 1078.8 |
| 913.8  |
| 825.2  |
| 772.9  |
| 732.6  |
| 696.4  |
| 660.2  |
| 623.9  |
| 579.7  |
| 507.2  |
| 398.5  |
| 293.9  |
| 245.6  |
| 201.3  |
| 148.9  |
| 96.6   |
| 48.3   |
| 8.1    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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