

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: P457698

Luminaire Tested: **GLAN-SA9A-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41366 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

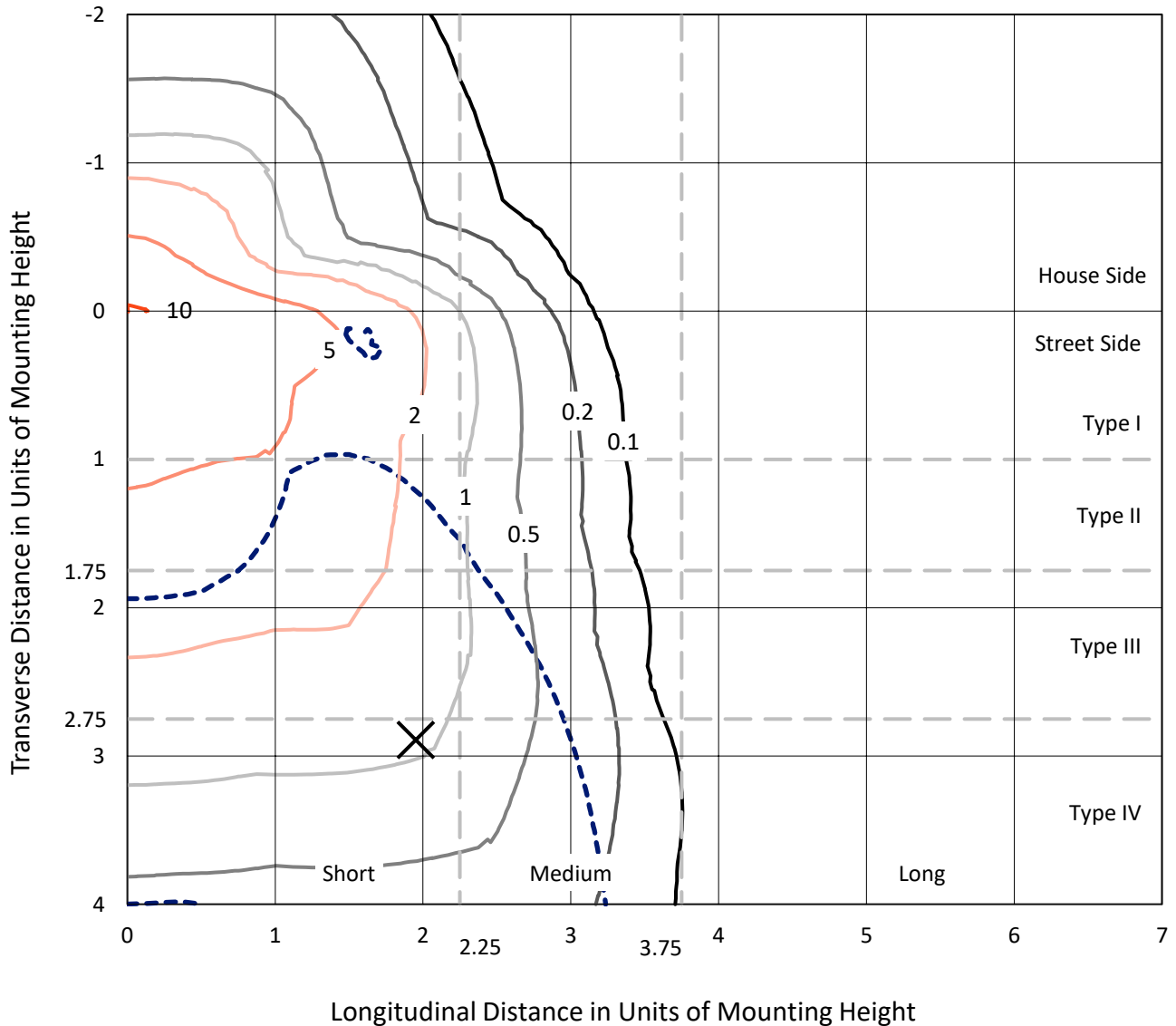
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

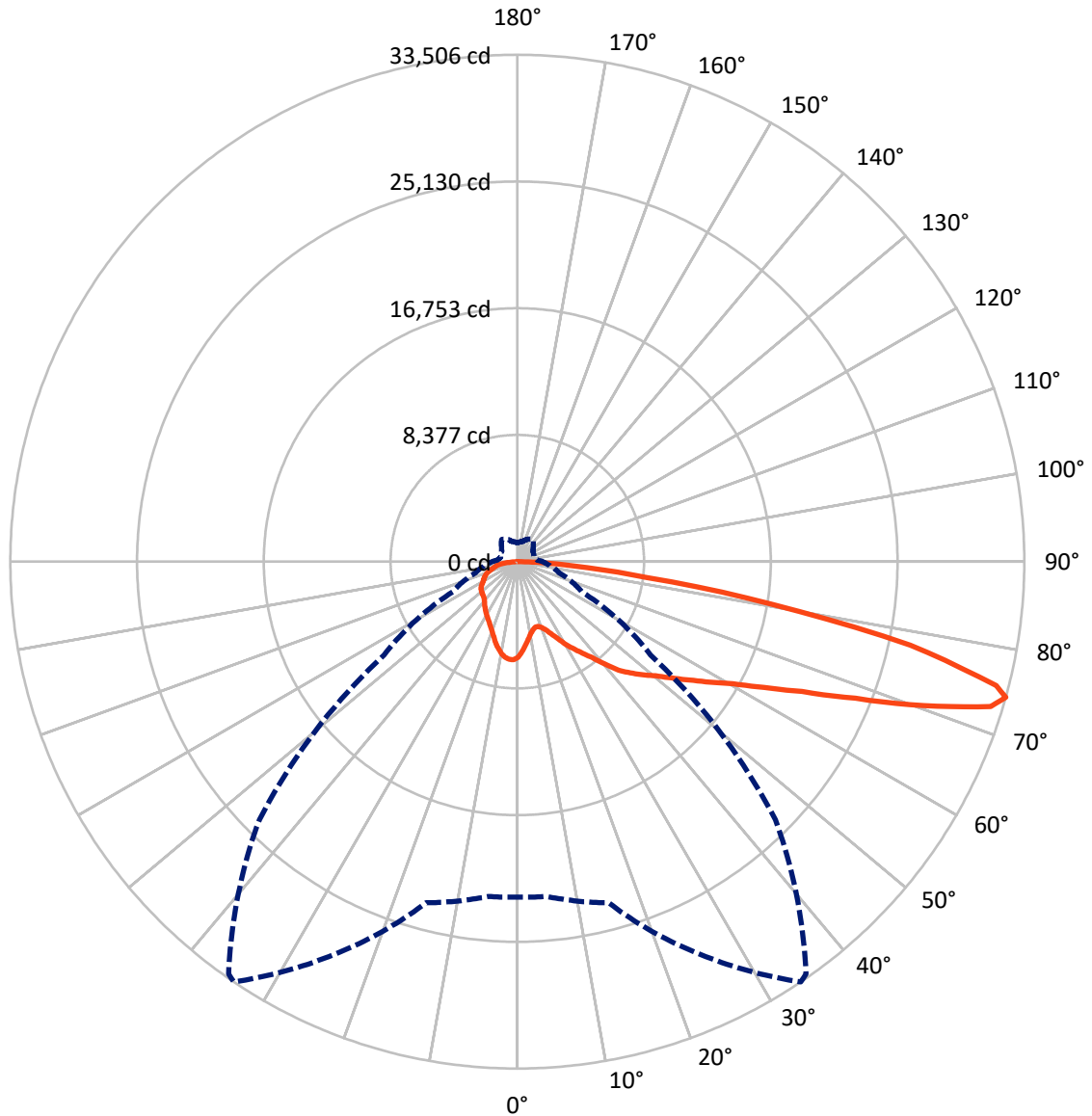
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8803.0   | 0.0    | 8803.0  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 32563.0  | 0.0    | 32563.0 |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 41366.0  | 0.0    | 41366.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 574.4   | 1.4       |
| 10°-20°   | 1572.4  | 3.8       |
| 20°-30°   | 2592.4  | 6.3       |
| 30°-40°   | 3883.2  | 9.4       |
| 40°-50°   | 5645.1  | 13.6      |
| 50°-60°   | 7884.8  | 19.1      |
| 60°-70°   | 9871.4  | 23.9      |
| 70°-80°   | 8162.8  | 19.7      |
| 80°-90°   | 1179.5  | 2.9       |
| 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°    | 41366.0 | 100.0     |
| 0°-180°   | 41366.0 | 100.0     |

**Coefficient of Utilization**



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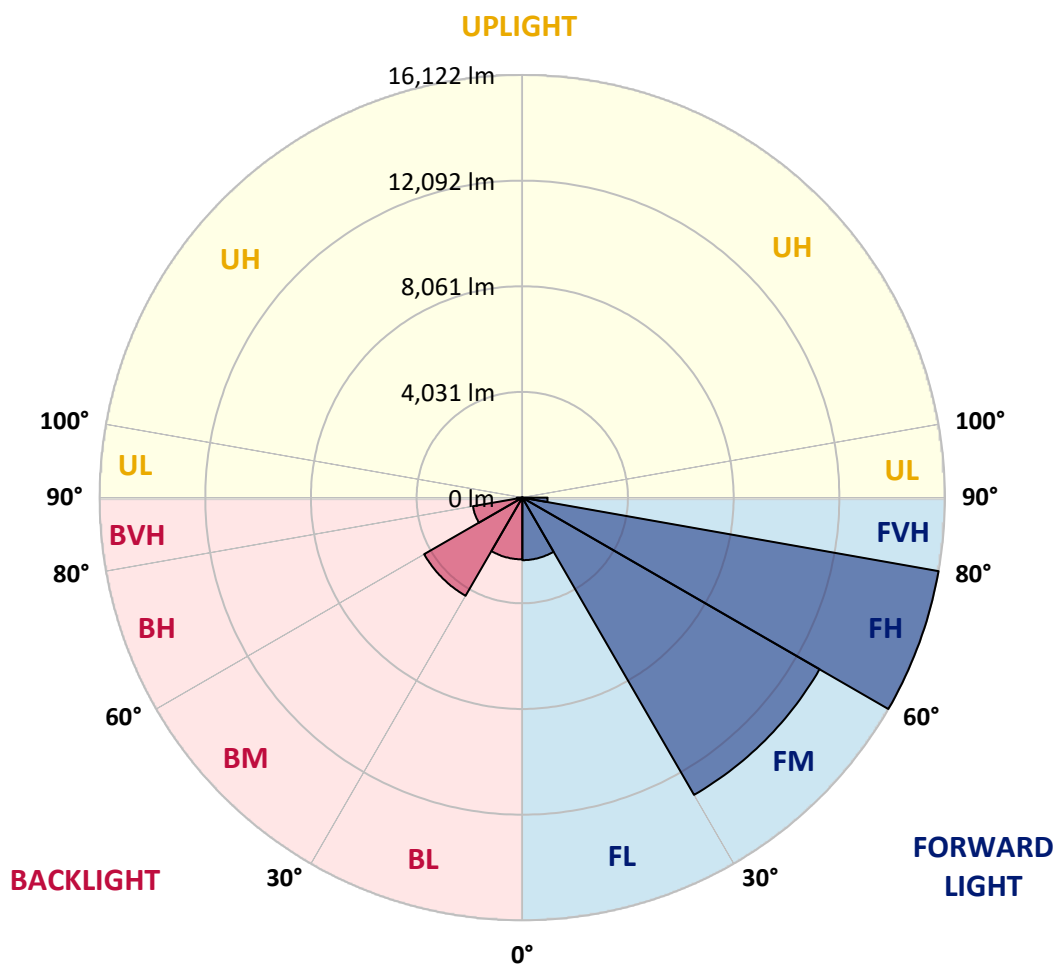
CATALOG NUMBER: GLAN-SA9A-740-U-T4FT

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2384.6  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 13089.9 | 31.6      |                         |      |         |
| FH   | (60°-80°)   | 16122.3 | 39.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 966.3   | 2.3       |                         |      | G5      |
| BL   | (0°-30°)    | 2354.7  | 5.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4323.2  | 10.5      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1911.9  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 213.2   | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  | 6315.8  |
| 2.5°  | 5836.8  | 5866.6  | 5882.6  | 5939.9  | 5953.7  | 5972.0  | 6020.1  | 6084.3  | 6166.8  | 6240.1  | 6304.3  |
| 5°    | 5351.0  | 5396.8  | 5424.3  | 5474.7  | 5573.3  | 5582.4  | 5710.8  | 5857.4  | 6024.7  | 6180.6  | 6308.9  |
| 7.5°  | 4890.4  | 4940.8  | 4963.7  | 5055.4  | 5186.0  | 5206.6  | 5394.5  | 5626.0  | 5905.6  | 6141.6  | 6338.7  |
| 10°   | 4544.3  | 4569.5  | 4620.0  | 4688.7  | 4844.5  | 4858.3  | 5103.5  | 5412.9  | 5774.9  | 6123.3  | 6389.1  |
| 12.5° | 4356.4  | 4370.2  | 4381.6  | 4455.0  | 4608.5  | 4629.1  | 4885.8  | 5236.4  | 5671.8  | 6137.0  | 6471.6  |
| 15°   | 4383.9  | 4388.5  | 4338.1  | 4351.8  | 4475.6  | 4505.4  | 4759.7  | 5119.5  | 5607.7  | 6171.4  | 6595.4  |
| 17.5° | 4615.4  | 4599.3  | 4475.6  | 4411.4  | 4498.5  | 4512.2  | 4734.5  | 5073.7  | 5577.9  | 6235.6  | 6723.7  |
| 20°   | 4979.7  | 4956.8  | 4743.7  | 4601.6  | 4652.0  | 4663.5  | 4817.0  | 5108.1  | 5607.7  | 6341.0  | 6923.1  |
| 22.5° | 5433.5  | 5424.3  | 5101.2  | 4929.3  | 4927.0  | 4927.0  | 5007.2  | 5231.8  | 5697.0  | 6485.4  | 7131.6  |
| 25°   | 6068.3  | 6020.1  | 5598.5  | 5376.2  | 5314.3  | 5309.7  | 5300.6  | 5435.8  | 5811.6  | 6638.9  | 7379.1  |
| 27.5° | 6719.1  | 6636.6  | 6260.8  | 5919.3  | 5786.4  | 5770.4  | 5710.8  | 5724.5  | 5958.3  | 6813.1  | 7661.0  |
| 30°   | 7303.5  | 7250.8  | 6897.8  | 6519.7  | 6361.6  | 6324.9  | 6159.9  | 6084.3  | 6203.5  | 7127.0  | 8110.1  |
| 32.5° | 7750.3  | 7718.3  | 7443.3  | 7099.5  | 6865.8  | 6858.9  | 6618.3  | 6556.4  | 6586.2  | 7507.4  | 8623.5  |
| 35°   | 8112.4  | 8123.9  | 7984.1  | 7686.2  | 7418.1  | 7379.1  | 7218.7  | 7140.8  | 7053.7  | 8057.4  | 9269.7  |
| 37.5° | 8607.4  | 8632.6  | 8623.5  | 8366.8  | 8039.1  | 8048.3  | 8011.6  | 7883.3  | 7651.8  | 8671.6  | 9987.0  |
| 40°   | 9152.8  | 9171.2  | 9168.9  | 9070.3  | 8898.5  | 8907.6  | 8893.9  | 8747.2  | 8401.2  | 9453.0  | 10784.5 |
| 42.5° | 9906.8  | 9819.7  | 9592.8  | 9691.4  | 9792.2  | 9835.7  | 9929.7  | 9789.9  | 9315.5  | 10287.2 | 11533.8 |
| 45°   | 10750.1 | 10585.1 | 10071.8 | 10117.6 | 10491.1 | 10573.6 | 11091.6 | 10899.1 | 10307.8 | 11245.1 | 12416.1 |
| 47.5° | 11281.8 | 11119.1 | 10685.9 | 10676.8 | 11171.8 | 11252.0 | 12168.6 | 12097.6 | 11210.7 | 12278.6 | 13493.2 |
| 50°   | 11756.1 | 11733.2 | 11245.1 | 11362.0 | 11845.5 | 11964.7 | 13341.9 | 13275.5 | 12111.3 | 13497.8 | 14666.5 |
| 52.5° | 12459.7 | 12274.0 | 11884.5 | 12125.1 | 12764.5 | 12920.3 | 14506.1 | 14311.3 | 12938.6 | 14574.9 | 15805.5 |
| 55°   | 12775.9 | 12732.4 | 12709.5 | 12918.0 | 13795.7 | 13908.0 | 15638.2 | 15191.3 | 13644.4 | 15486.9 | 16671.7 |
| 57.5° | 13621.5 | 13541.3 | 13768.2 | 13910.3 | 15010.3 | 15182.1 | 16820.7 | 16110.3 | 14263.2 | 16211.1 | 17093.4 |
| 60°   | 14716.9 | 14673.4 | 14881.9 | 15138.6 | 16366.9 | 16628.2 | 18168.2 | 16894.0 | 14760.5 | 16575.5 | 16861.9 |
| 62.5° | 16353.2 | 16348.6 | 16309.6 | 16859.6 | 18289.6 | 18530.2 | 19715.0 | 17657.1 | 14838.4 | 16302.8 | 15665.7 |
| 65°   | 18699.8 | 18617.3 | 18278.2 | 18878.6 | 20682.1 | 20964.0 | 21326.0 | 18083.4 | 14368.6 | 14902.6 | 13190.7 |
| 67.5° | 21154.2 | 21149.6 | 20874.6 | 21653.7 | 24117.3 | 24408.3 | 23340.4 | 17989.4 | 13064.7 | 12072.4 | 9368.2  |
| 70°   | 23189.1 | 23090.6 | 23441.2 | 25517.5 | 28505.8 | 28842.6 | 25102.7 | 16882.5 | 10406.4 | 7972.6  | 5566.4  |
| 72.5° | 23677.3 | 23681.8 | 24410.6 | 28496.6 | 32720.1 | 32772.8 | 25737.5 | 13683.4 | 6964.3  | 4397.7  | 2784.3  |
| 74°   | 22173.9 | 22212.9 | 23342.7 | 28645.5 | 33506.1 | 33267.8 | 24115.0 | 10754.7 | 4709.3  | 2871.4  | 2007.5  |
| 75°   | 20239.8 | 19994.6 | 21628.5 | 27653.3 | 32690.3 | 32433.6 | 22215.2 | 8630.3  | 3593.3  | 2293.9  | 1757.7  |
| 77.5° | 10821.1 | 11070.9 | 13591.7 | 20636.3 | 26557.9 | 26262.2 | 15063.0 | 4138.7  | 1941.0  | 1597.3  | 1265.0  |
| 80°   | 3852.3  | 4248.7  | 5972.0  | 10798.2 | 17026.9 | 17118.6 | 7188.9  | 1897.5  | 1365.8  | 1177.9  | 893.7   |
| 82.5° | 1572.1  | 1615.6  | 2564.3  | 4791.8  | 8646.4  | 8728.9  | 2935.6  | 1127.5  | 976.2   | 811.2   | 534.0   |
| 85°   | 614.2   | 632.5   | 1134.4  | 2154.1  | 3689.5  | 3930.2  | 1015.2  | 595.8   | 600.4   | 465.2   | 272.7   |
| 87.5° | 206.2   | 233.7   | 465.2   | 717.3   | 1253.5  | 1228.3  | 295.6   | 176.5   | 215.4   | 201.7   | 84.8    |
| 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°    | 6315.8  | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 |
| 2.5°  | 6336.4  | 6379.9 | 6409.7 | 6441.8 | 6471.6 | 6480.8 | 6473.9 | 6494.5 | 6496.8 | 6499.1 | 6501.4 |
| 5°    | 6373.1  | 6432.6 | 6489.9 | 6522.0 | 6535.8 | 6524.3 | 6485.4 | 6464.7 | 6446.4 | 6432.6 | 6437.2 |
| 7.5°  | 6423.5  | 6508.3 | 6561.0 | 6574.7 | 6538.1 | 6485.4 | 6389.1 | 6313.5 | 6265.4 | 6233.3 | 6231.0 |
| 10°   | 6501.4  | 6583.9 | 6627.4 | 6588.5 | 6487.6 | 6359.3 | 6208.1 | 6066.0 | 5958.3 | 5926.2 | 5923.9 |
| 12.5° | 6599.9  | 6693.9 | 6691.6 | 6577.0 | 6400.6 | 6171.4 | 5926.2 | 5761.2 | 5614.5 | 5541.2 | 5571.0 |
| 15°   | 6728.3  | 6799.3 | 6732.8 | 6526.6 | 6247.0 | 5933.1 | 5630.6 | 5406.0 | 5241.0 | 5163.1 | 5167.7 |
| 17.5° | 6877.2  | 6939.1 | 6762.6 | 6437.2 | 6031.6 | 5628.3 | 5277.7 | 5064.5 | 4933.9 | 4876.6 | 4872.0 |
| 20°   | 7062.8  | 7081.2 | 6762.6 | 6281.4 | 5754.3 | 5273.1 | 4938.5 | 4789.5 | 4716.2 | 4686.4 | 4695.6 |
| 22.5° | 7262.2  | 7225.6 | 6726.0 | 6061.4 | 5389.9 | 4901.8 | 4677.2 | 4610.8 | 4574.1 | 4569.5 | 4574.1 |
| 25°   | 7486.8  | 7383.7 | 6650.4 | 5763.5 | 5009.5 | 4581.0 | 4450.4 | 4461.8 | 4468.7 | 4468.7 | 4484.7 |
| 27.5° | 7761.8  | 7555.5 | 6524.3 | 5387.7 | 4565.0 | 4283.1 | 4246.4 | 4326.6 | 4363.3 | 4370.2 | 4381.6 |
| 30°   | 8123.9  | 7743.5 | 6315.8 | 4917.9 | 4186.8 | 4015.0 | 4079.1 | 4186.8 | 4228.1 | 4253.3 | 4248.7 |
| 32.5° | 8554.7  | 7949.7 | 6033.9 | 4448.1 | 3882.0 | 3827.0 | 3905.0 | 4015.0 | 4060.8 | 4074.5 | 4056.2 |
| 35°   | 9061.2  | 8183.5 | 5662.7 | 4008.1 | 3616.2 | 3648.3 | 3740.0 | 3774.3 | 3815.6 | 3815.6 | 3824.8 |
| 37.5° | 9606.6  | 8371.4 | 5208.9 | 3604.8 | 3410.0 | 3526.8 | 3593.3 | 3561.2 | 3542.9 | 3520.0 | 3531.4 |
| 40°   | 10161.1 | 8511.2 | 4620.0 | 3206.0 | 3203.7 | 3400.8 | 3419.1 | 3327.5 | 3254.1 | 3231.2 | 3219.8 |
| 42.5° | 10644.7 | 8598.2 | 4088.3 | 2896.6 | 3008.9 | 3277.1 | 3290.8 | 3144.1 | 3027.3 | 2958.5 | 2935.6 |
| 45°   | 11215.3 | 8699.1 | 3568.1 | 2640.0 | 2827.9 | 3178.5 | 3212.9 | 3015.8 | 2843.9 | 2699.6 | 2662.9 |
| 47.5° | 11996.8 | 8928.2 | 3157.9 | 2440.6 | 2697.3 | 3116.6 | 3164.8 | 2910.4 | 2683.5 | 2495.6 | 2465.8 |
| 50°   | 12879.0 | 9242.2 | 2839.3 | 2305.4 | 2596.4 | 3061.6 | 3121.2 | 2802.7 | 2534.6 | 2326.0 | 2303.1 |
| 52.5° | 13688.0 | 9411.8 | 2564.3 | 2183.9 | 2497.9 | 2960.8 | 3063.9 | 2724.8 | 2387.9 | 2156.4 | 2135.8 |
| 55°   | 14130.3 | 9136.8 | 2293.9 | 2064.8 | 2362.7 | 2830.2 | 2983.7 | 2617.1 | 2245.8 | 2067.1 | 2037.3 |
| 57.5° | 14189.9 | 8568.5 | 2048.7 | 1936.4 | 2220.6 | 2669.8 | 2834.8 | 2486.4 | 2154.1 | 2005.2 | 1980.0 |
| 60°   | 13729.2 | 7720.5 | 1858.5 | 1831.0 | 2076.2 | 2488.7 | 2667.5 | 2371.9 | 2060.2 | 1936.4 | 1911.2 |
| 62.5° | 12583.4 | 6799.3 | 1725.6 | 1734.8 | 1929.6 | 2298.5 | 2543.7 | 2261.9 | 1970.8 | 1860.8 | 1837.9 |
| 65°   | 10612.6 | 5612.2 | 1597.3 | 1636.2 | 1798.9 | 2149.6 | 2431.4 | 2170.2 | 1881.4 | 1803.5 | 1782.9 |
| 67.5° | 7372.2  | 4051.6 | 1491.9 | 1533.1 | 1675.2 | 1998.3 | 2300.8 | 2071.6 | 1780.6 | 1739.4 | 1707.3 |
| 70°   | 4081.4  | 2493.3 | 1368.1 | 1416.2 | 1546.9 | 1828.7 | 2154.1 | 1922.7 | 1633.9 | 1615.6 | 1569.8 |
| 72.5° | 2145.0  | 1588.1 | 1228.3 | 1281.0 | 1372.7 | 1611.0 | 1929.6 | 1760.0 | 1489.6 | 1411.7 | 1352.1 |
| 74°   | 1675.2  | 1301.7 | 1134.4 | 1189.4 | 1251.2 | 1482.7 | 1796.6 | 1643.1 | 1386.4 | 1294.8 | 1248.9 |
| 75°   | 1459.8  | 1159.6 | 1054.2 | 1125.2 | 1180.2 | 1395.6 | 1693.5 | 1560.6 | 1329.2 | 1242.1 | 1200.8 |
| 77.5° | 1031.2  | 868.5  | 861.7  | 946.4  | 976.2  | 1223.7 | 1526.2 | 1420.8 | 1184.8 | 1093.1 | 1054.2 |
| 80°   | 724.2   | 650.8  | 682.9  | 735.6  | 776.9  | 1081.7 | 1416.2 | 1228.3 | 971.7  | 863.9  | 850.2  |
| 82.5° | 472.1   | 426.2  | 488.1  | 536.2  | 550.0  | 797.5  | 1143.5 | 932.7  | 708.1  | 575.2  | 534.0  |
| 85°   | 217.7   | 213.1  | 279.6  | 272.7  | 270.4  | 389.6  | 678.3  | 545.4  | 407.9  | 304.8  | 286.5  |
| 87.5° | 55.0    | 52.7   | 68.7   | 57.3   | 68.7   | 59.6   | 61.9   | 16.0   | 2.3    | 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    | 0.0    |

(END OF REPORT)