

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: P192253

Luminaire Tested: **GAN-AF-05-LED-U-T3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192253  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-T3-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29756 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

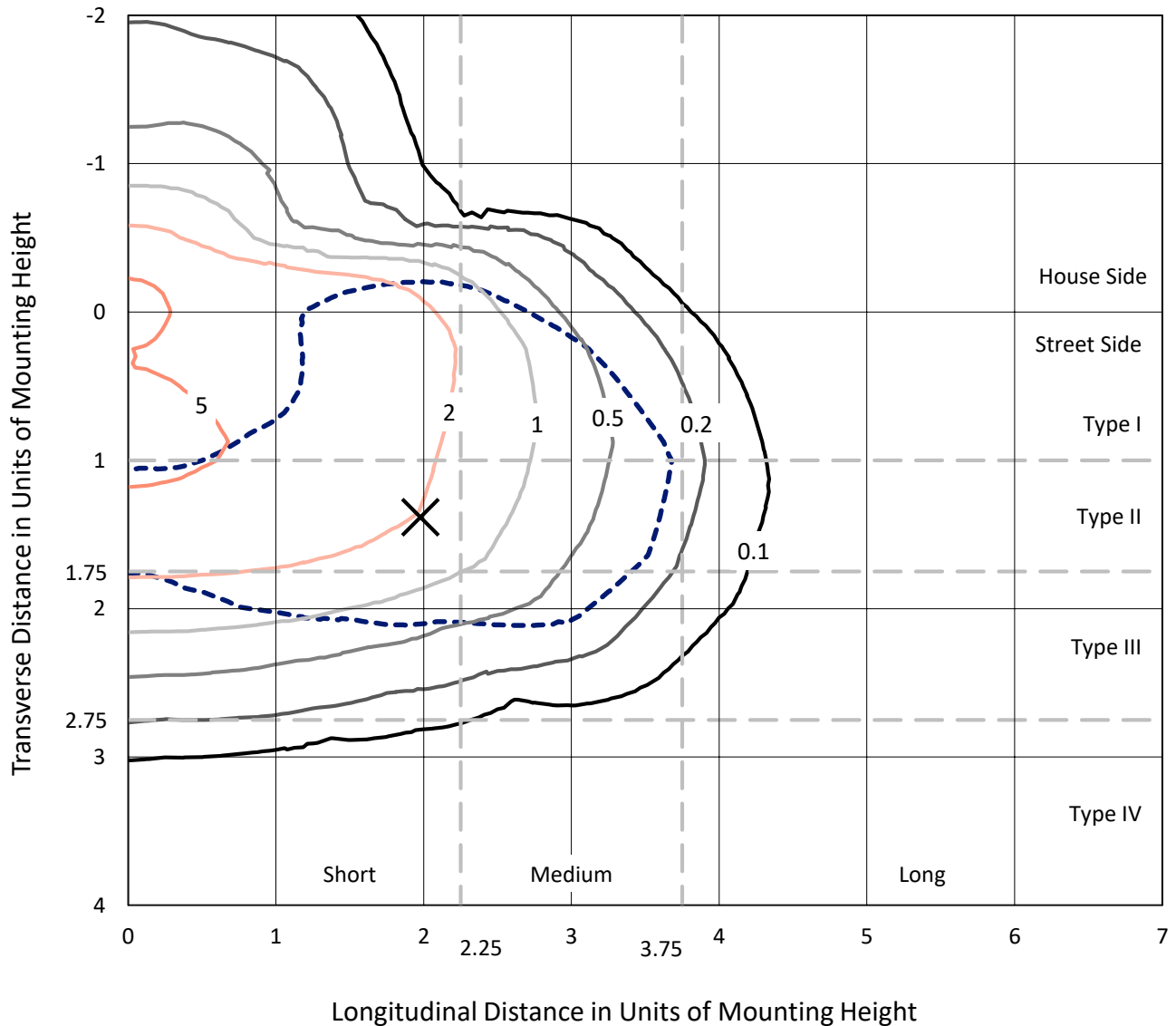
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

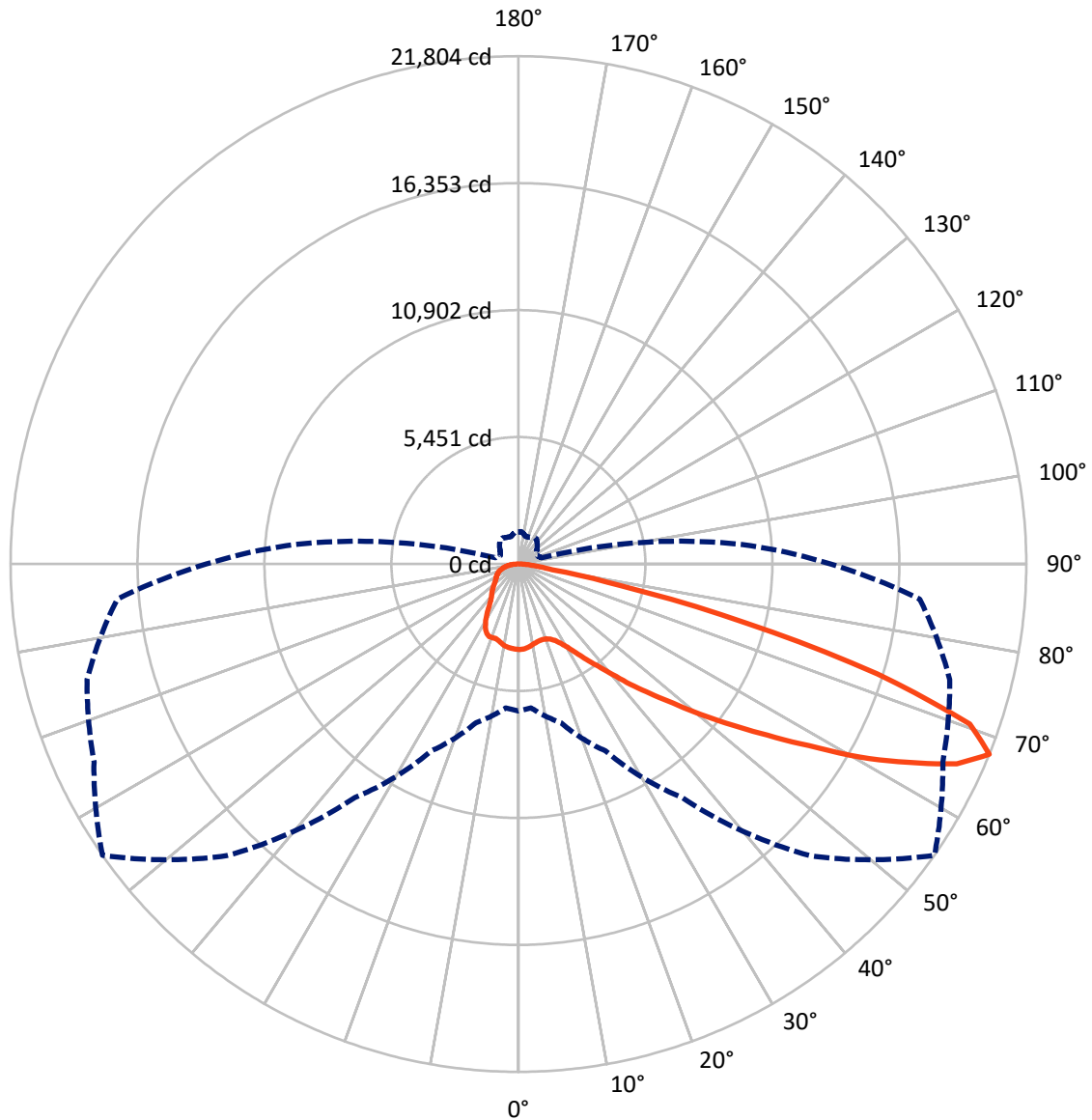
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6427.9   | 0.0    | 6427.9  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 23328.1  | 0.0    | 23328.1 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 29756.0  | 0.0    | 29756.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 342.5   | 1.2       |
| 10°-20°   | 970.0   | 3.3       |
| 20°-30°   | 1624.8  | 5.5       |
| 30°-40°   | 2671.9  | 9.0       |
| 40°-50°   | 4497.6  | 15.1      |
| 50°-60°   | 7078.9  | 23.8      |
| 60°-70°   | 8448.0  | 28.4      |
| 70°-80°   | 3627.7  | 12.2      |
| 80°-90°   | 494.6   | 1.7       |
| 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°    | 29756.0 | 100.0     |
| 0°-180°   | 29756.0 | 100.0     |

**Coefficient of Utilization**



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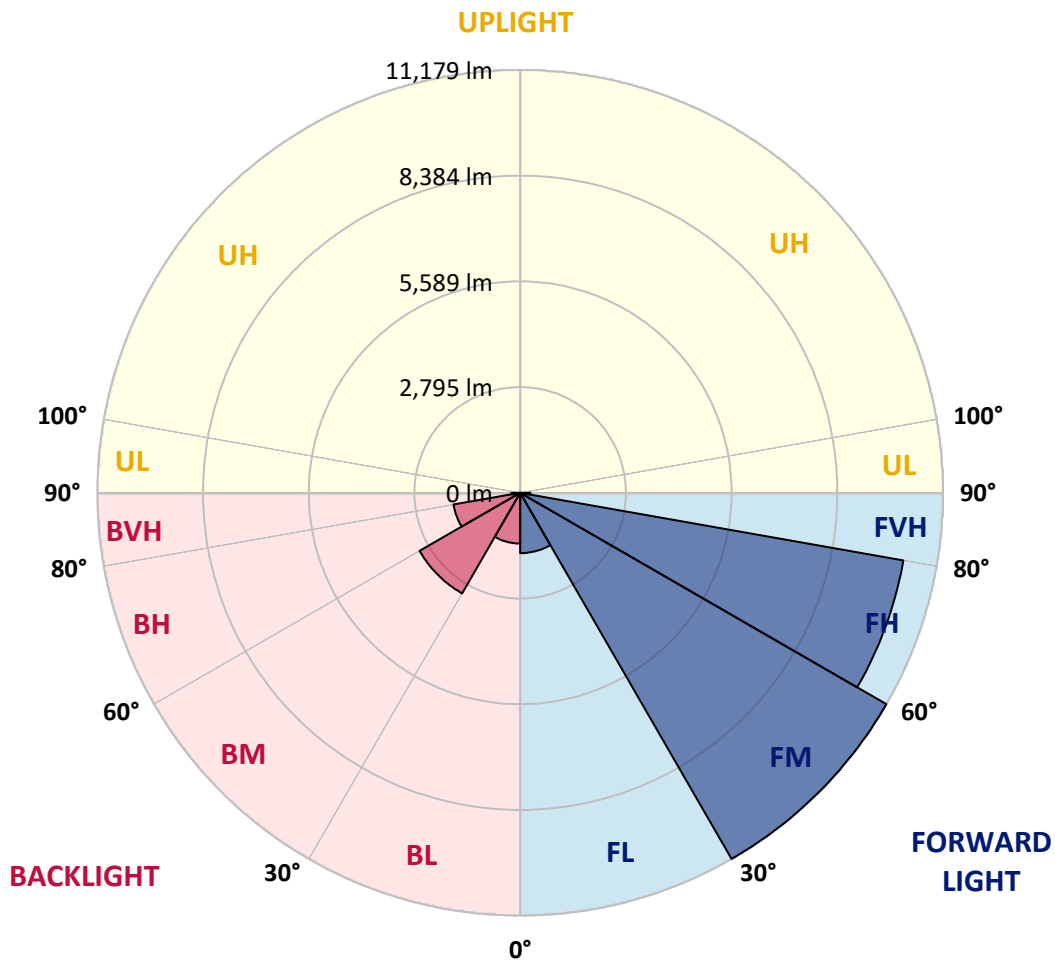
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1595.0  | 5.4       |                         |      |          |
| FM   | (30°-60°)   | 11178.6 | 37.6      |                         |      |          |
| FH   | (60°-80°)   | 10286.8 | 34.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 267.7   | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1342.3  | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3069.9  | 10.3      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1788.9  | 6.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 226.9   | 0.8       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  | 3669.2  |
| 2.5°  | 3637.6  | 3639.1  | 3641.9  | 3653.4  | 3663.5  | 3660.6  | 3662.1  | 3656.3  | 3654.9  | 3646.2  | 3654.9  |
| 5°    | 3591.6  | 3595.9  | 3597.4  | 3616.1  | 3627.6  | 3630.4  | 3626.1  | 3618.9  | 3610.3  | 3601.7  | 3606.0  |
| 7.5°  | 3486.7  | 3498.2  | 3499.6  | 3525.5  | 3544.2  | 3568.6  | 3570.1  | 3571.5  | 3567.2  | 3561.4  | 3570.1  |
| 10°   | 3420.6  | 3423.5  | 3422.0  | 3440.7  | 3455.1  | 3482.4  | 3498.2  | 3525.5  | 3537.0  | 3539.9  | 3545.6  |
| 12.5° | 3416.3  | 3413.4  | 3409.1  | 3409.1  | 3404.8  | 3416.3  | 3445.0  | 3483.8  | 3511.1  | 3519.8  | 3527.0  |
| 15°   | 3462.3  | 3460.8  | 3446.5  | 3424.9  | 3397.6  | 3389.0  | 3413.4  | 3456.5  | 3492.5  | 3511.1  | 3518.3  |
| 17.5° | 3565.8  | 3557.1  | 3534.1  | 3485.3  | 3426.3  | 3403.4  | 3406.2  | 3442.2  | 3483.8  | 3508.3  | 3515.5  |
| 20°   | 3755.5  | 3755.5  | 3706.6  | 3614.6  | 3509.7  | 3455.1  | 3429.2  | 3450.8  | 3491.0  | 3524.1  | 3534.1  |
| 22.5° | 4083.2  | 4086.0  | 4004.1  | 3853.2  | 3676.4  | 3560.0  | 3495.3  | 3491.0  | 3538.5  | 3575.8  | 3587.3  |
| 25°   | 4547.4  | 4535.9  | 4420.9  | 4205.3  | 3936.6  | 3744.0  | 3631.9  | 3606.0  | 3646.2  | 3687.9  | 3702.3  |
| 27.5° | 5087.8  | 5046.1  | 4909.6  | 4649.4  | 4301.6  | 4019.9  | 3847.5  | 3805.8  | 3844.6  | 3892.0  | 3906.4  |
| 30°   | 5622.4  | 5579.3  | 5416.9  | 5132.3  | 4745.7  | 4389.3  | 4142.1  | 4074.5  | 4129.2  | 4196.7  | 4205.3  |
| 32.5° | 6157.1  | 6157.1  | 5976.0  | 5644.0  | 5222.9  | 4830.5  | 4534.5  | 4454.0  | 4544.5  | 4626.4  | 4645.1  |
| 35°   | 6796.6  | 6799.5  | 6624.2  | 6224.6  | 5771.9  | 5356.5  | 5030.3  | 4971.4  | 5107.9  | 5165.4  | 5209.9  |
| 37.5° | 7582.8  | 7598.6  | 7373.0  | 6890.1  | 6394.2  | 5957.3  | 5569.3  | 5488.8  | 5625.3  | 5782.0  | 5925.7  |
| 40°   | 8432.2  | 8452.3  | 8203.7  | 7608.7  | 7112.8  | 6655.8  | 6236.1  | 6091.0  | 6318.0  | 6617.0  | 6802.4  |
| 42.5° | 9242.8  | 9346.3  | 9106.3  | 8494.0  | 7960.8  | 7488.0  | 7062.5  | 6851.3  | 7135.8  | 7587.1  | 7748.1  |
| 45°   | 10414.1 | 10488.9 | 10070.6 | 9515.9  | 9014.3  | 8485.4  | 7922.0  | 7699.2  | 8097.3  | 8666.5  | 8699.5  |
| 47.5° | 11194.6 | 11138.5 | 10925.8 | 10580.9 | 10263.2 | 9768.8  | 8920.9  | 8676.5  | 9205.4  | 9875.2  | 9689.8  |
| 50°   | 11609.9 | 11627.2 | 11598.4 | 11618.5 | 11630.0 | 11319.6 | 10145.4 | 9810.5  | 10441.5 | 11250.6 | 10823.8 |
| 52.5° | 11998.0 | 11883.0 | 11977.8 | 12449.3 | 13018.4 | 12903.4 | 11477.7 | 11128.4 | 11766.6 | 12776.9 | 12022.4 |
| 55°   | 11989.3 | 11814.0 | 12123.0 | 12955.2 | 14189.7 | 14322.0 | 12973.8 | 12571.4 | 13167.9 | 14413.9 | 13292.9 |
| 57.5° | 11565.4 | 11574.0 | 12049.7 | 13139.1 | 15006.1 | 15655.7 | 14710.0 | 14106.4 | 14654.0 | 16072.5 | 14452.8 |
| 60°   | 10981.8 | 11060.9 | 11746.5 | 13108.9 | 15660.0 | 16749.4 | 16840.0 | 15760.6 | 16109.9 | 17580.2 | 15412.8 |
| 62.5° | 10040.5 | 10123.8 | 11069.5 | 12795.6 | 15560.9 | 17802.9 | 18765.9 | 17637.6 | 17631.9 | 18494.2 | 15694.5 |
| 65°   | 8555.8  | 8531.4  | 9524.5  | 11624.3 | 14728.7 | 18581.9 | 20678.8 | 19260.3 | 18778.8 | 18508.6 | 15128.2 |
| 67.5° | 6309.4  | 6200.2  | 7052.5  | 8853.3  | 12242.3 | 17709.5 | 21804.2 | 20105.4 | 19169.7 | 17291.3 | 13397.8 |
| 70°   | 3274.0  | 3164.8  | 3854.6  | 5169.7  | 8051.3  | 13821.8 | 20558.1 | 19668.4 | 18306.0 | 14494.4 | 10496.1 |
| 72.5° | 1399.9  | 1381.2  | 1661.4  | 2267.9  | 3894.9  | 7972.3  | 16119.9 | 17024.0 | 15707.5 | 10799.3 | 7216.3  |
| 75°   | 941.4   | 935.6   | 1040.6  | 1236.0  | 1752.0  | 3235.2  | 10087.9 | 12084.2 | 11492.1 | 6696.0  | 4058.7  |
| 77.5° | 738.7   | 731.5   | 793.3   | 888.2   | 1135.4  | 1276.3  | 4477.0  | 6487.6  | 6004.7  | 2914.7  | 1776.4  |
| 80°   | 577.8   | 572.0   | 610.8   | 662.6   | 816.3   | 804.8   | 1473.2  | 2581.3  | 1997.7  | 1116.7  | 863.8   |
| 82.5° | 455.6   | 455.6   | 487.2   | 488.7   | 579.2   | 549.0   | 768.9   | 1136.8  | 997.4   | 651.1   | 528.9   |
| 85°   | 416.8   | 416.8   | 449.9   | 365.1   | 378.0   | 346.4   | 477.2   | 674.1   | 632.4   | 267.3   | 230.0   |
| 87.5° | 209.8   | 204.1   | 378.0   | 323.4   | 205.5   | 184.0   | 232.8   | 326.3   | 350.7   | 148.0   | 115.0   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3669.2  | 3669.2 | 3669.2 | 3669.2 | 3669.2 | 3669.2 | 3669.2 | 3669.2 | 3669.2 | 3669.2 |
| 2.5°  | 3652.0  | 3650.6 | 3653.4 | 3654.9 | 3666.4 | 3682.2 | 3689.4 | 3699.4 | 3705.2 | 3702.3 |
| 5°    | 3608.9  | 3611.8 | 3623.2 | 3631.9 | 3652.0 | 3677.9 | 3692.2 | 3703.7 | 3713.8 | 3709.5 |
| 7.5°  | 3572.9  | 3580.1 | 3597.4 | 3604.6 | 3616.1 | 3623.2 | 3621.8 | 3626.1 | 3634.7 | 3624.7 |
| 10°   | 3552.8  | 3561.4 | 3574.4 | 3564.3 | 3537.0 | 3498.2 | 3462.3 | 3443.6 | 3449.3 | 3442.2 |
| 12.5° | 3532.7  | 3544.2 | 3534.1 | 3486.7 | 3410.5 | 3360.2 | 3332.9 | 3335.8 | 3348.7 | 3351.6 |
| 15°   | 3521.2  | 3525.5 | 3482.4 | 3393.3 | 3315.7 | 3308.5 | 3322.9 | 3320.0 | 3321.4 | 3321.4 |
| 17.5° | 3521.2  | 3509.7 | 3429.2 | 3340.1 | 3307.1 | 3294.1 | 3249.6 | 3193.5 | 3169.1 | 3160.5 |
| 20°   | 3539.9  | 3509.7 | 3412.0 | 3353.0 | 3281.2 | 3170.5 | 3052.7 | 2949.2 | 2903.2 | 2890.3 |
| 22.5° | 3595.9  | 3544.2 | 3460.8 | 3358.8 | 3154.7 | 2969.3 | 2782.5 | 2658.9 | 2575.5 | 2561.1 |
| 25°   | 3709.5  | 3652.0 | 3557.1 | 3282.6 | 2953.5 | 2689.1 | 2476.3 | 2338.4 | 2255.0 | 2243.5 |
| 27.5° | 3907.8  | 3870.5 | 3608.9 | 3114.5 | 2686.2 | 2403.0 | 2206.1 | 2099.8 | 2038.0 | 2033.7 |
| 30°   | 4206.8  | 4188.1 | 3583.0 | 2865.8 | 2357.1 | 2125.7 | 2030.8 | 1969.0 | 1923.0 | 1921.6 |
| 32.5° | 4683.9  | 4533.0 | 3498.2 | 2562.6 | 2056.7 | 1928.8 | 1890.0 | 1852.6 | 1816.7 | 1816.7 |
| 35°   | 5297.6  | 4811.8 | 3337.2 | 2237.8 | 1874.1 | 1819.5 | 1770.7 | 1711.7 | 1664.3 | 1661.4 |
| 37.5° | 6019.1  | 4984.3 | 3048.4 | 1976.2 | 1787.9 | 1746.2 | 1674.4 | 1586.7 | 1503.3 | 1489.0 |
| 40°   | 6747.8  | 5036.0 | 2641.6 | 1815.2 | 1733.3 | 1672.9 | 1585.3 | 1481.8 | 1401.3 | 1397.0 |
| 42.5° | 7416.1  | 4936.9 | 2210.5 | 1704.6 | 1678.7 | 1598.2 | 1506.2 | 1414.2 | 1351.0 | 1349.6 |
| 45°   | 7976.6  | 4679.6 | 1848.3 | 1599.6 | 1621.2 | 1530.6 | 1448.7 | 1374.0 | 1325.1 | 1315.1 |
| 47.5° | 8504.1  | 4316.0 | 1593.9 | 1489.0 | 1563.7 | 1493.3 | 1424.3 | 1353.9 | 1306.4 | 1299.3 |
| 50°   | 9116.3  | 3923.6 | 1415.7 | 1381.2 | 1513.4 | 1480.3 | 1444.4 | 1371.1 | 1292.1 | 1283.4 |
| 52.5° | 9857.9  | 3584.4 | 1276.3 | 1286.3 | 1474.6 | 1497.6 | 1496.2 | 1420.0 | 1282.0 | 1270.5 |
| 55°   | 10685.8 | 3207.9 | 1171.3 | 1208.7 | 1458.8 | 1529.2 | 1509.1 | 1466.0 | 1290.6 | 1273.4 |
| 57.5° | 11500.7 | 2768.1 | 1098.0 | 1149.8 | 1435.8 | 1526.3 | 1447.3 | 1385.5 | 1310.8 | 1286.3 |
| 60°   | 12111.5 | 2177.4 | 1042.0 | 1098.0 | 1385.5 | 1478.9 | 1379.7 | 1297.8 | 1306.4 | 1287.8 |
| 62.5° | 12151.8 | 1683.0 | 974.4  | 1053.5 | 1309.3 | 1431.5 | 1335.2 | 1259.0 | 1325.1 | 1307.9 |
| 65°   | 11437.5 | 1271.9 | 909.8  | 1000.3 | 1227.4 | 1401.3 | 1292.1 | 1237.5 | 1363.9 | 1345.2 |
| 67.5° | 9629.4  | 1023.3 | 855.1  | 945.7  | 1145.5 | 1338.1 | 1253.3 | 1217.3 | 1398.4 | 1365.4 |
| 70°   | 6951.9  | 872.4  | 802.0  | 879.6  | 1072.2 | 1266.2 | 1218.8 | 1181.4 | 1305.0 | 1253.3 |
| 72.5° | 4280.1  | 756.0  | 741.6  | 791.9  | 1016.1 | 1191.5 | 1167.0 | 1113.9 | 1175.7 | 1134.0 |
| 75°   | 2137.2  | 655.4  | 674.1  | 705.7  | 937.1  | 1106.7 | 1080.8 | 1027.6 | 1036.2 | 1027.6 |
| 77.5° | 1023.3  | 560.5  | 595.0  | 619.4  | 835.0  | 1010.4 | 983.1  | 928.4  | 918.4  | 919.8  |
| 80°   | 648.2   | 468.5  | 501.6  | 518.8  | 745.9  | 898.3  | 871.0  | 816.3  | 931.3  | 863.8  |
| 82.5° | 405.3   | 380.9  | 389.5  | 421.1  | 649.6  | 781.9  | 745.9  | 697.1  | 839.3  | 664.0  |
| 85°   | 224.2   | 265.9  | 277.4  | 304.7  | 500.2  | 653.9  | 618.0  | 556.2  | 498.7  | 490.1  |
| 87.5° | 133.7   | 158.1  | 162.4  | 182.5  | 336.3  | 472.8  | 418.2  | 396.7  | 329.1  | 327.7  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)