

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: P324506

Luminaire Tested: **GAN-SA2A-750-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7068 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

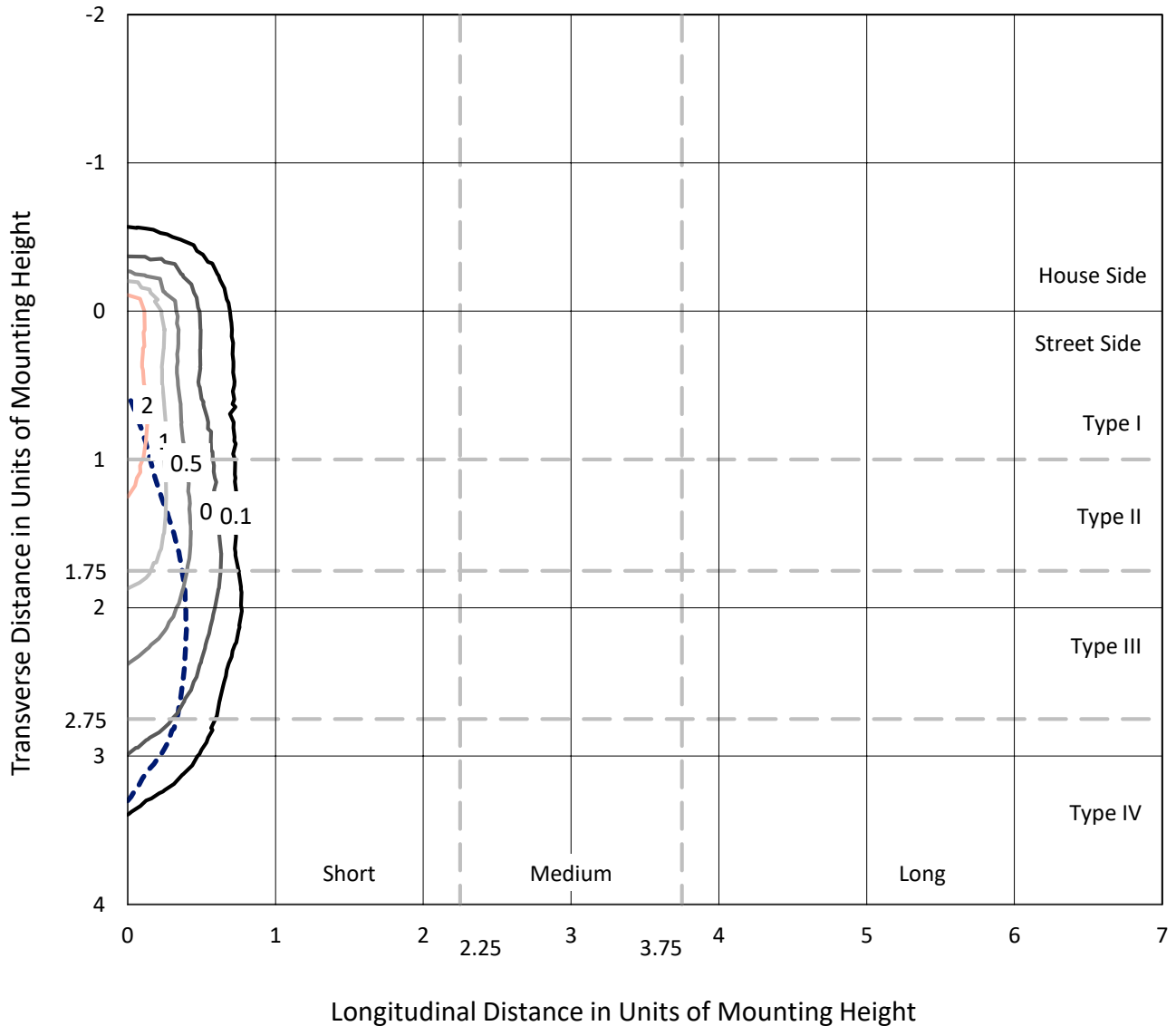
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324506
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Iso-Footcandle Lines of Horizontal Illumination

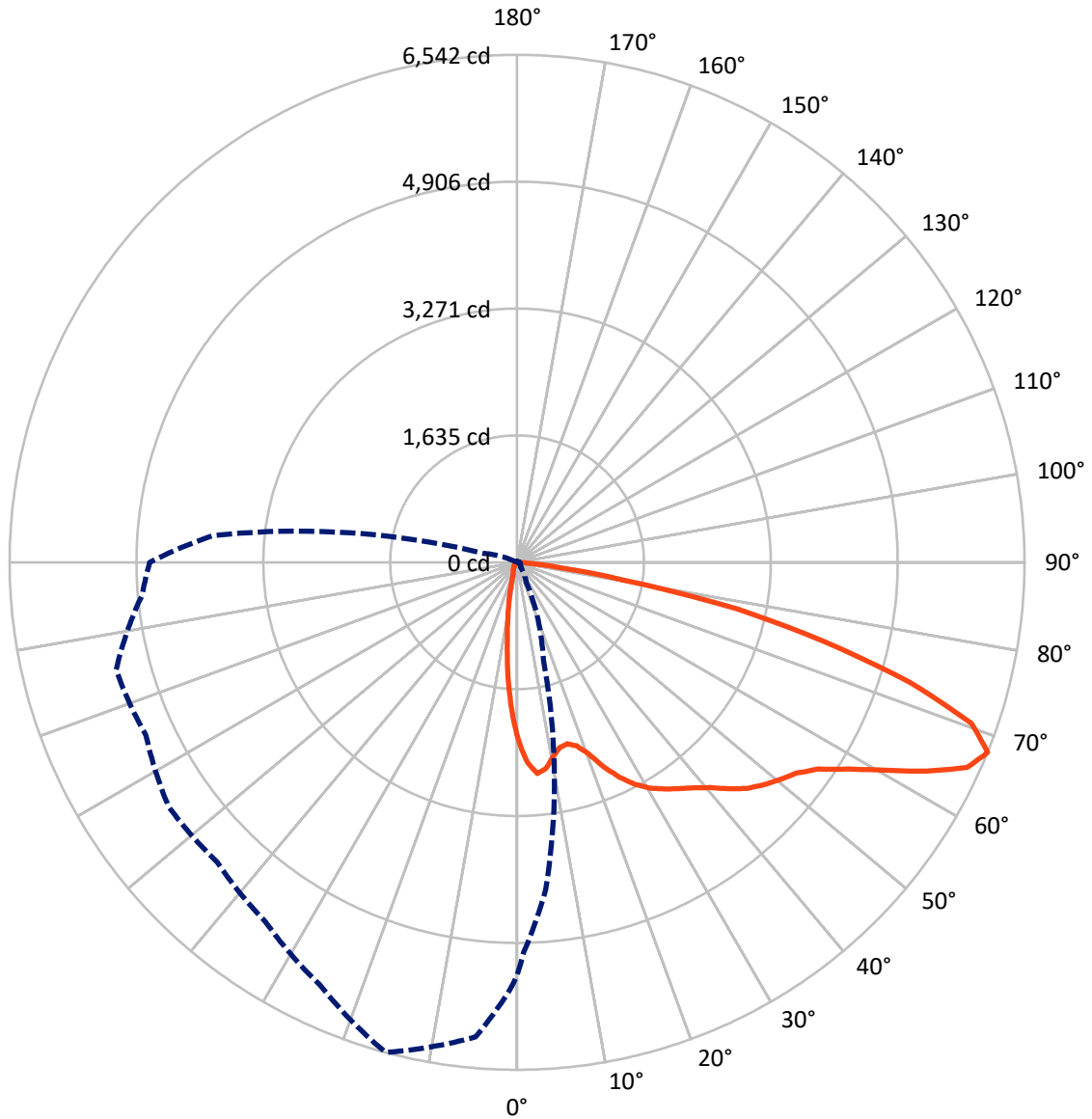
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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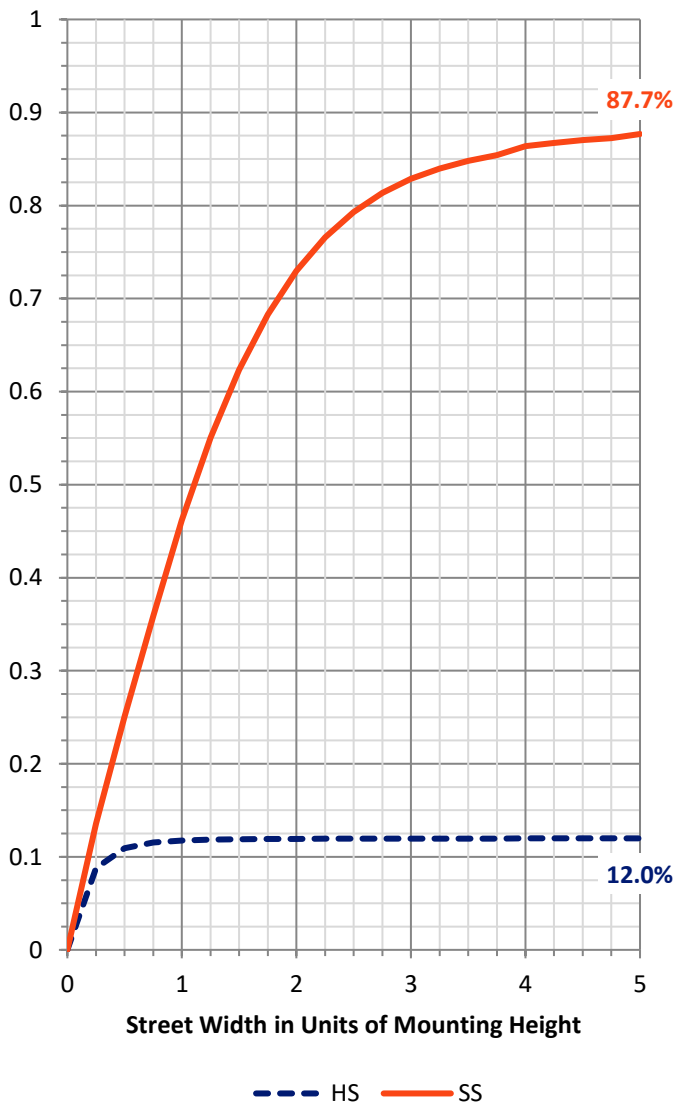
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 855.5 | 0.0 | 855.5 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 6212.5 | 0.0 | 6212.5 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 7068.0 | 0.0 | 7068.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.7 | 2.5 |
| 10°-20° | 351.7 | 5.0 |
| 20°-30° | 499.5 | 7.1 |
| 30°-40° | 737.7 | 10.4 |
| 40°-50° | 1064.0 | 15.1 |
| 50°-60° | 1493.6 | 21.1 |
| 60°-70° | 1741.1 | 24.6 |
| 70°-80° | 890.1 | 12.6 |
| 80°-90° | 113.7 | 1.6 |
| 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° | 7068.0 | 100.0 |
| 0°-180° | 7068.0 | 100.0 |

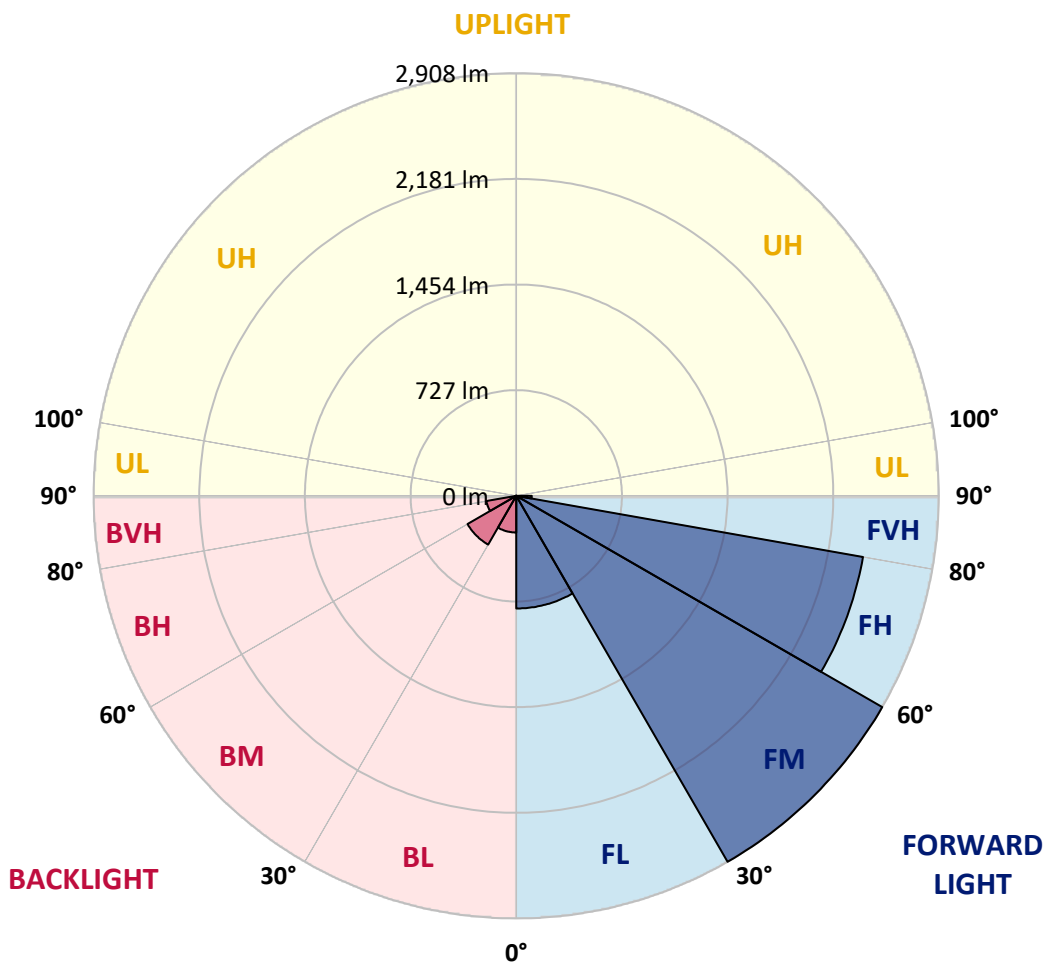


REPORT NUMBER: P324506
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 775.2 | 11.0 | | | |
| FM (30°-60°) | 2907.9 | 41.1 | | | |
| FH (60°-80°) | 2422.7 | 34.3 | | | G2/5000 |
| FVH (80°-90°) | 106.8 | 1.5 | | | G2/225 |
| BL (0°-30°) | 252.7 | 3.6 | B1/500 | | |
| BM (30°-60°) | 387.4 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 208.5 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 |
| 2.5° | 2521.0 | 2501.6 | 2480.2 | 2410.2 | 2345.2 | 2270.9 | 2210.3 | 2168.1 | 2115.2 | 2046.6 | 2029.2 |
| 5° | 2503.0 | 2482.2 | 2414.9 | 2259.2 | 2122.9 | 1990.3 | 1862.4 | 1787.4 | 1694.3 | 1599.9 | 1576.4 |
| 7.5° | 2321.1 | 2299.4 | 2202.3 | 1989.0 | 1805.5 | 1613.9 | 1447.9 | 1345.1 | 1239.9 | 1153.5 | 1107.7 |
| 10° | 2132.0 | 2108.2 | 1999.0 | 1740.2 | 1514.2 | 1341.1 | 1219.2 | 1121.1 | 1021.6 | 929.2 | 855.5 |
| 12.5° | 2001.7 | 1970.6 | 1852.0 | 1558.7 | 1361.8 | 1244.3 | 1130.4 | 1012.9 | 878.3 | 779.2 | 698.1 |
| 15° | 1947.1 | 1911.6 | 1786.4 | 1488.7 | 1307.9 | 1169.9 | 1021.6 | 877.3 | 719.6 | 606.1 | 531.7 |
| 17.5° | 1989.3 | 1943.1 | 1808.8 | 1484.0 | 1240.3 | 1052.4 | 864.9 | 695.5 | 524.4 | 409.5 | 356.6 |
| 20° | 2132.6 | 2072.0 | 1901.6 | 1482.7 | 1158.2 | 912.8 | 675.0 | 483.5 | 345.6 | 277.9 | 250.1 |
| 22.5° | 2358.3 | 2278.3 | 2034.8 | 1493.4 | 1073.5 | 766.1 | 487.5 | 328.5 | 259.5 | 224.3 | 207.9 |
| 25° | 2630.9 | 2538.1 | 2226.7 | 1531.2 | 999.2 | 623.5 | 354.3 | 259.5 | 219.0 | 193.2 | 179.5 |
| 27.5° | 2890.0 | 2814.7 | 2469.1 | 1585.8 | 941.6 | 508.3 | 287.6 | 220.0 | 187.2 | 170.1 | 159.1 |
| 30° | 3148.9 | 3054.1 | 2717.9 | 1650.8 | 872.3 | 430.3 | 252.8 | 200.6 | 167.8 | 149.7 | 142.6 |
| 32.5° | 3337.1 | 3258.4 | 2912.8 | 1697.7 | 798.3 | 379.4 | 226.0 | 183.5 | 156.7 | 138.3 | 127.9 |
| 35° | 3558.4 | 3469.3 | 3079.9 | 1708.0 | 750.7 | 347.2 | 203.3 | 165.1 | 135.9 | 119.5 | 108.5 |
| 37.5° | 3797.5 | 3686.6 | 3272.8 | 1685.3 | 713.6 | 331.5 | 186.2 | 156.7 | 126.9 | 110.2 | 98.4 |
| 40° | 4062.0 | 3936.8 | 3457.9 | 1652.5 | 677.1 | 326.1 | 173.1 | 150.3 | 119.9 | 102.8 | 90.7 |
| 42.5° | 4340.6 | 4192.9 | 3618.3 | 1618.0 | 654.0 | 307.7 | 171.8 | 144.0 | 114.5 | 96.1 | 84.0 |
| 45° | 4574.6 | 4425.0 | 3783.1 | 1606.6 | 637.5 | 287.6 | 177.5 | 139.6 | 110.8 | 90.7 | 79.0 |
| 47.5° | 4761.1 | 4619.5 | 3951.8 | 1632.0 | 628.2 | 269.2 | 161.7 | 145.3 | 108.8 | 86.1 | 74.7 |
| 50° | 4983.8 | 4823.4 | 4189.6 | 1708.0 | 614.4 | 250.8 | 146.3 | 166.4 | 108.8 | 83.0 | 71.0 |
| 52.5° | 5263.1 | 5104.4 | 4454.8 | 1825.9 | 587.0 | 225.4 | 131.6 | 166.8 | 109.8 | 79.0 | 66.3 |
| 55° | 5614.3 | 5499.1 | 4833.5 | 1955.2 | 543.1 | 187.8 | 113.8 | 143.3 | 105.8 | 71.7 | 61.9 |
| 57.5° | 5951.2 | 5857.1 | 5178.7 | 2043.6 | 484.5 | 146.7 | 99.1 | 115.5 | 96.8 | 63.0 | 55.2 |
| 59° | 6043.3 | 5940.5 | 5305.3 | 2047.6 | 440.7 | 127.9 | 91.7 | 95.4 | 94.8 | 58.9 | 51.2 |
| 60° | 6043.3 | 5934.1 | 5341.8 | 2026.1 | 408.8 | 117.5 | 87.1 | 85.1 | 98.8 | 56.3 | 48.9 |
| 62.5° | 5933.8 | 5780.4 | 5223.2 | 1881.2 | 333.5 | 100.1 | 76.0 | 70.3 | 88.7 | 50.6 | 43.2 |
| 65° | 5706.1 | 5482.7 | 4819.4 | 1619.0 | 297.3 | 91.7 | 65.6 | 57.6 | 61.6 | 44.5 | 37.8 |
| 67.5° | 5326.4 | 5023.7 | 4237.1 | 1307.9 | 282.9 | 89.4 | 56.6 | 48.9 | 46.5 | 38.2 | 33.1 |
| 70° | 4657.7 | 4321.8 | 3530.3 | 1028.3 | 270.6 | 88.4 | 47.5 | 41.2 | 37.5 | 32.1 | 28.1 |
| 72.5° | 3390.0 | 3039.7 | 2506.3 | 804.0 | 263.2 | 90.4 | 38.2 | 34.5 | 30.8 | 25.1 | 21.8 |
| 75° | 1939.1 | 1709.7 | 1408.7 | 531.1 | 224.3 | 86.4 | 29.5 | 28.8 | 22.1 | 18.1 | 15.1 |
| 77.5° | 1001.9 | 971.4 | 844.1 | 203.9 | 107.5 | 37.8 | 19.4 | 16.7 | 13.1 | 11.0 | 9.0 |
| 80° | 432.3 | 427.6 | 370.0 | 58.9 | 28.5 | 21.1 | 11.0 | 7.0 | 6.0 | 4.7 | 3.7 |
| 82.5° | 149.3 | 149.3 | 131.6 | 19.8 | 12.7 | 10.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 30.1 | 33.8 | 23.8 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 |
| 2.5° | 2008.1 | 1967.5 | 1964.9 | 1939.4 | 1907.6 | 1893.2 | 1884.8 | 1899.6 | 1917.7 | 1919.7 | 1946.8 |
| 5° | 1558.7 | 1516.2 | 1533.9 | 1488.7 | 1497.8 | 1488.7 | 1474.0 | 1476.7 | 1484.7 | 1459.6 | 1490.7 |
| 7.5° | 1094.6 | 1062.5 | 1082.9 | 1070.8 | 1086.9 | 1093.3 | 1084.2 | 1070.8 | 1031.3 | 1026.6 | 1053.8 |
| 10° | 825.1 | 788.6 | 766.8 | 744.0 | 749.0 | 759.4 | 756.1 | 746.4 | 721.3 | 722.6 | 748.7 |
| 12.5° | 663.0 | 622.1 | 578.9 | 523.0 | 509.3 | 517.0 | 509.3 | 503.6 | 479.5 | 481.5 | 504.6 |
| 15° | 502.9 | 469.5 | 424.2 | 379.4 | 354.9 | 357.3 | 335.8 | 320.8 | 305.7 | 287.6 | 301.7 |
| 17.5° | 339.5 | 319.1 | 305.7 | 292.3 | 263.2 | 256.5 | 229.4 | 200.2 | 188.9 | 180.5 | 186.5 |
| 20° | 240.4 | 229.4 | 224.0 | 223.3 | 206.6 | 198.2 | 171.8 | 153.7 | 148.0 | 146.3 | 150.0 |
| 22.5° | 200.9 | 192.9 | 185.2 | 180.8 | 172.4 | 162.7 | 142.6 | 133.6 | 129.6 | 127.6 | 130.3 |
| 25° | 174.8 | 168.8 | 160.7 | 153.4 | 150.0 | 139.6 | 125.2 | 118.5 | 115.9 | 113.8 | 115.2 |
| 27.5° | 155.4 | 150.0 | 140.6 | 135.9 | 133.3 | 124.2 | 111.8 | 106.5 | 104.1 | 103.5 | 103.1 |
| 30° | 140.0 | 134.9 | 126.2 | 120.9 | 116.2 | 108.2 | 100.8 | 95.4 | 93.1 | 92.4 | 91.7 |
| 32.5° | 124.6 | 120.5 | 114.9 | 109.5 | 104.5 | 97.1 | 90.7 | 86.4 | 82.7 | 82.0 | 81.7 |
| 35° | 105.1 | 101.1 | 98.1 | 97.8 | 93.1 | 86.1 | 81.4 | 75.7 | 72.7 | 71.7 | 72.0 |
| 37.5° | 93.4 | 88.1 | 81.4 | 83.7 | 82.4 | 77.3 | 71.0 | 65.3 | 62.3 | 61.6 | 61.6 |
| 40° | 86.1 | 80.4 | 72.7 | 68.6 | 72.7 | 71.7 | 61.6 | 55.9 | 52.9 | 52.6 | 51.9 |
| 42.5° | 79.0 | 73.3 | 64.6 | 57.9 | 59.9 | 63.0 | 53.2 | 47.9 | 44.9 | 44.2 | 43.2 |
| 45° | 74.0 | 68.0 | 58.3 | 50.6 | 46.5 | 52.9 | 45.5 | 38.8 | 37.2 | 35.8 | 35.2 |
| 47.5° | 69.3 | 63.6 | 52.6 | 43.9 | 37.2 | 38.2 | 36.5 | 31.8 | 29.8 | 28.5 | 28.1 |
| 50° | 65.3 | 59.3 | 47.5 | 37.5 | 30.8 | 28.1 | 29.5 | 25.1 | 23.4 | 22.1 | 21.4 |
| 52.5° | 60.6 | 54.9 | 42.2 | 32.5 | 25.8 | 22.1 | 22.4 | 19.8 | 18.1 | 17.1 | 16.7 |
| 55° | 56.9 | 51.2 | 37.8 | 28.5 | 22.8 | 18.1 | 16.1 | 15.4 | 14.4 | 13.7 | 13.4 |
| 57.5° | 51.9 | 46.5 | 33.5 | 24.1 | 19.4 | 14.7 | 12.4 | 12.4 | 12.1 | 11.4 | 11.0 |
| 59° | 48.9 | 44.2 | 30.8 | 21.8 | 17.7 | 12.7 | 11.0 | 11.4 | 11.0 | 10.4 | 10.0 |
| 60° | 46.5 | 42.2 | 28.8 | 20.1 | 16.7 | 11.7 | 10.0 | 10.7 | 10.4 | 9.7 | 9.4 |
| 62.5° | 41.2 | 38.2 | 24.8 | 16.7 | 14.7 | 9.4 | 8.4 | 9.0 | 9.0 | 8.7 | 8.4 |
| 65° | 36.2 | 32.8 | 21.1 | 14.1 | 13.7 | 8.0 | 6.7 | 8.0 | 8.4 | 7.7 | 7.0 |
| 67.5° | 31.5 | 28.1 | 18.4 | 11.4 | 12.7 | 6.4 | 5.0 | 6.7 | 9.0 | 7.0 | 6.4 |
| 70° | 26.8 | 23.4 | 14.4 | 9.0 | 13.4 | 4.4 | 4.0 | 6.0 | 10.7 | 7.7 | 6.0 |
| 72.5° | 20.8 | 18.1 | 10.0 | 6.7 | 14.4 | 3.0 | 3.0 | 5.0 | 12.1 | 8.4 | 5.7 |
| 75° | 14.4 | 11.7 | 6.0 | 4.0 | 11.7 | 2.0 | 2.0 | 4.7 | 11.4 | 7.7 | 5.4 |
| 77.5° | 8.4 | 6.4 | 2.0 | 0.3 | 6.0 | 0.0 | 0.3 | 3.3 | 8.0 | 4.7 | 2.3 |
| 80° | 3.0 | 1.3 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 | 0.0 |



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 CATALOG NUMBER: GAN-SA2A-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 | 2302.4 |
| 2.5° | 1953.8 | 1999.0 | 2039.5 | 2100.8 | 2173.5 | 2257.2 | 2329.2 | 2406.5 | 2479.2 | 2509.3 | 2530.1 |
| 5° | 1497.1 | 1553.0 | 1618.3 | 1708.4 | 1828.2 | 1975.9 | 2114.2 | 2270.6 | 2438.7 | 2522.7 | 2601.7 |
| 7.5° | 1058.4 | 1115.4 | 1196.4 | 1292.2 | 1437.2 | 1612.9 | 1793.8 | 2009.7 | 2237.4 | 2370.4 | 2501.3 |
| 10° | 761.1 | 831.1 | 906.8 | 1037.7 | 1185.0 | 1351.8 | 1537.9 | 1779.0 | 2032.8 | 2180.2 | 2337.9 |
| 12.5° | 518.0 | 597.7 | 712.2 | 858.9 | 1032.0 | 1195.4 | 1357.1 | 1587.2 | 1881.8 | 2027.8 | 2196.9 |
| 15° | 310.7 | 354.9 | 476.1 | 645.9 | 858.2 | 1061.8 | 1238.9 | 1469.6 | 1783.7 | 1962.5 | 2138.3 |
| 17.5° | 191.5 | 212.0 | 277.9 | 417.2 | 640.2 | 897.7 | 1140.5 | 1429.8 | 1797.8 | 2015.4 | 2203.6 |
| 20° | 152.7 | 160.7 | 181.8 | 246.4 | 424.2 | 716.9 | 1029.6 | 1421.7 | 1912.6 | 2180.5 | 2382.4 |
| 22.5° | 132.6 | 140.3 | 154.4 | 179.1 | 266.9 | 536.8 | 924.5 | 1429.1 | 2077.4 | 2428.0 | 2663.7 |
| 25° | 116.9 | 123.6 | 137.0 | 157.4 | 195.5 | 378.0 | 812.0 | 1461.9 | 2292.0 | 2735.0 | 2985.5 |
| 27.5° | 104.5 | 110.2 | 122.6 | 141.3 | 167.8 | 263.9 | 684.4 | 1501.8 | 2546.5 | 3049.1 | 3296.2 |
| 30° | 93.1 | 98.1 | 109.2 | 126.6 | 145.7 | 202.9 | 544.5 | 1528.9 | 2801.3 | 3296.2 | 3518.2 |
| 32.5° | 83.4 | 87.1 | 97.1 | 111.8 | 126.6 | 161.7 | 413.9 | 1524.5 | 2990.5 | 3501.8 | 3677.9 |
| 35° | 73.3 | 77.0 | 85.7 | 98.4 | 110.2 | 133.6 | 325.5 | 1443.2 | 3155.2 | 3715.1 | 3860.8 |
| 37.5° | 62.3 | 67.0 | 75.3 | 86.7 | 94.8 | 117.5 | 263.2 | 1345.1 | 3322.3 | 3958.9 | 4064.7 |
| 40° | 52.9 | 57.6 | 65.0 | 77.3 | 82.4 | 111.5 | 202.2 | 1225.5 | 3510.2 | 4231.4 | 4288.3 |
| 42.5° | 43.9 | 48.2 | 55.9 | 66.6 | 77.7 | 96.1 | 149.7 | 1088.9 | 3690.7 | 4464.5 | 4492.3 |
| 45° | 35.5 | 39.8 | 47.9 | 58.6 | 83.0 | 79.7 | 115.9 | 942.6 | 3836.3 | 4658.4 | 4667.4 |
| 47.5° | 28.1 | 32.1 | 40.5 | 55.2 | 77.3 | 63.6 | 82.7 | 827.7 | 3958.5 | 4809.7 | 4785.9 |
| 50° | 21.8 | 25.1 | 33.8 | 63.3 | 67.6 | 52.6 | 62.6 | 789.6 | 4068.0 | 4903.5 | 4841.8 |
| 52.5° | 17.1 | 20.1 | 27.8 | 59.3 | 52.6 | 43.5 | 52.6 | 825.4 | 4218.0 | 4981.1 | 4873.3 |
| 55° | 13.7 | 16.7 | 21.8 | 33.8 | 35.8 | 36.8 | 44.9 | 858.9 | 4476.9 | 5163.3 | 5059.2 |
| 57.5° | 11.4 | 14.4 | 17.7 | 23.8 | 27.1 | 31.1 | 39.8 | 862.6 | 4781.9 | 5466.0 | 5367.6 |
| 59° | 10.4 | 13.1 | 16.1 | 21.1 | 23.8 | 28.5 | 37.5 | 842.5 | 4889.4 | 5576.2 | 5526.9 |
| 60° | 9.7 | 12.4 | 15.1 | 19.4 | 22.1 | 26.8 | 36.2 | 823.4 | 4894.1 | 5572.1 | 5594.9 |
| 62.5° | 8.4 | 11.0 | 13.4 | 16.4 | 18.8 | 22.8 | 32.5 | 752.7 | 4695.9 | 5389.7 | 5554.1 |
| 65° | 7.4 | 9.7 | 12.1 | 14.1 | 16.1 | 20.4 | 29.5 | 623.8 | 4357.3 | 5095.3 | 5274.5 |
| 67.5° | 6.7 | 8.4 | 11.0 | 12.4 | 14.4 | 18.1 | 26.1 | 444.7 | 3934.4 | 4735.4 | 4851.6 |
| 70° | 6.0 | 8.0 | 10.0 | 11.4 | 13.1 | 15.7 | 22.4 | 255.5 | 3322.3 | 4208.3 | 4291.0 |
| 72.5° | 5.7 | 7.7 | 9.0 | 10.7 | 11.7 | 14.1 | 20.4 | 120.2 | 2432.6 | 3371.2 | 3587.2 |
| 75° | 5.0 | 7.0 | 8.4 | 10.0 | 11.0 | 12.7 | 17.4 | 57.6 | 1618.0 | 2439.7 | 2685.1 |
| 77.5° | 3.0 | 5.7 | 7.7 | 9.0 | 9.7 | 11.0 | 14.4 | 33.1 | 1032.7 | 1688.6 | 1989.0 |
| 80° | 0.0 | 2.0 | 5.7 | 7.7 | 8.4 | 9.4 | 11.0 | 26.1 | 552.5 | 964.7 | 1157.9 |
| 82.5° | 0.0 | 0.0 | 4.0 | 6.0 | 5.7 | 6.4 | 8.4 | 16.4 | 249.1 | 630.5 | 710.5 |
| 85° | 0.0 | 0.0 | 1.3 | 4.7 | 4.0 | 3.0 | 5.7 | 5.7 | 54.6 | 319.1 | 398.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.3 | 2.0 | 1.3 | 2.3 | 0.7 | 0.3 | 23.8 | 96.4 |
| 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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| 2.5° | 2602.7 | 2627.5 | 2669.4 | 2689.1 | 2679.4 | 2638.2 | 2589.0 | 2538.8 | 2509.3 | 2521.0 |
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| 10° | 2665.7 | 2992.5 | 3204.5 | 3247.0 | 3119.7 | 2848.9 | 2545.1 | 2261.2 | 2163.1 | 2132.0 |
| 12.5° | 2556.2 | 2908.1 | 3131.5 | 3190.1 | 3085.6 | 2788.6 | 2449.7 | 2144.3 | 2028.8 | 2001.7 |
| 15° | 2488.9 | 2804.3 | 2989.2 | 3031.7 | 2987.5 | 2753.4 | 2426.9 | 2109.2 | 1973.2 | 1947.1 |
| 17.5° | 2513.0 | 2724.0 | 2790.6 | 2815.4 | 2845.2 | 2741.0 | 2488.9 | 2186.2 | 2014.1 | 1989.3 |
| 20° | 2603.7 | 2639.2 | 2604.8 | 2635.9 | 2716.3 | 2753.1 | 2636.6 | 2372.4 | 2165.8 | 2132.6 |
| 22.5° | 2757.8 | 2595.4 | 2498.6 | 2511.0 | 2608.8 | 2792.9 | 2862.2 | 2638.2 | 2399.8 | 2358.3 |
| 25° | 2937.3 | 2630.9 | 2439.7 | 2428.6 | 2529.1 | 2845.5 | 3068.5 | 2927.5 | 2676.7 | 2630.9 |
| 27.5° | 3162.9 | 2710.6 | 2427.6 | 2416.6 | 2501.3 | 2894.7 | 3240.0 | 3213.5 | 2968.4 | 2890.0 |
| 30° | 3337.1 | 2788.9 | 2463.4 | 2438.0 | 2529.1 | 2928.9 | 3377.6 | 3456.3 | 3200.8 | 3148.9 |
| 32.5° | 3462.0 | 2881.3 | 2521.7 | 2484.9 | 2607.4 | 2987.8 | 3483.7 | 3678.6 | 3415.7 | 3337.1 |
| 35° | 3557.0 | 2981.8 | 2615.8 | 2555.2 | 2715.3 | 3077.2 | 3583.2 | 3915.3 | 3644.4 | 3558.4 |
| 37.5° | 3646.1 | 3122.8 | 2762.8 | 2690.5 | 2884.3 | 3221.2 | 3688.3 | 4183.9 | 3900.3 | 3797.5 |
| 40° | 3770.3 | 3282.5 | 2989.5 | 2925.2 | 3168.6 | 3417.4 | 3819.6 | 4463.8 | 4191.2 | 4062.0 |
| 42.5° | 3894.6 | 3453.9 | 3221.5 | 3238.9 | 3523.2 | 3655.8 | 3989.0 | 4759.8 | 4478.5 | 4340.6 |
| 45° | 4008.1 | 3630.7 | 3552.0 | 3632.4 | 3852.4 | 3917.3 | 4157.4 | 4930.9 | 4707.9 | 4574.6 |
| 47.5° | 4109.2 | 3851.7 | 3880.5 | 4094.5 | 4226.7 | 4154.1 | 4283.3 | 5078.6 | 4878.7 | 4761.1 |
| 50° | 4226.7 | 4137.7 | 4313.5 | 4616.2 | 4657.7 | 4368.4 | 4397.8 | 5253.4 | 5078.2 | 4983.8 |
| 52.5° | 4355.3 | 4439.0 | 4793.0 | 5059.8 | 5046.4 | 4601.1 | 4513.0 | 5449.3 | 5351.8 | 5263.1 |
| 55° | 4501.3 | 4682.5 | 5215.2 | 5475.0 | 5463.7 | 4860.9 | 4703.9 | 5691.3 | 5694.7 | 5614.3 |
| 57.5° | 4718.0 | 4892.1 | 5501.8 | 5810.9 | 5830.0 | 5161.0 | 5027.3 | 5962.6 | 6004.8 | 5951.2 |
| 59° | 4873.3 | 5028.0 | 5615.3 | 5951.2 | 6028.9 | 5393.0 | 5263.7 | 6119.9 | 6092.2 | 6043.3 |
| 60° | 4988.5 | 5114.4 | 5671.6 | 6024.5 | 6144.4 | 5550.4 | 5438.2 | 6212.4 | 6102.5 | 6043.3 |
| 62.5° | 5273.5 | 5302.6 | 5773.0 | 6107.6 | 6277.3 | 5900.0 | 5929.1 | 6369.7 | 6030.5 | 5933.8 |
| 65° | 5406.4 | 5421.5 | 5771.7 | 5958.9 | 6148.7 | 6172.2 | 6374.4 | 6374.4 | 5854.7 | 5706.1 |
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| 70° | 4898.8 | 4619.2 | 4527.1 | 4535.5 | 4680.5 | 5227.9 | 6210.4 | 5452.9 | 4882.4 | 4657.7 |
| 72.5° | 4076.1 | 3405.4 | 3178.0 | 3437.5 | 3475.3 | 4017.8 | 5292.5 | 4106.5 | 3600.6 | 3390.0 |
| 75° | 3278.5 | 2400.5 | 2030.8 | 2304.7 | 2369.0 | 2940.3 | 4094.1 | 2557.5 | 2103.2 | 1939.1 |
| 77.5° | 2355.3 | 1723.1 | 1457.2 | 1438.2 | 1521.2 | 1864.7 | 2905.1 | 1287.1 | 1073.5 | 1001.9 |
| 80° | 1338.0 | 1134.1 | 1221.2 | 1152.2 | 1194.1 | 1165.9 | 1380.2 | 564.5 | 462.4 | 432.3 |
| 82.5° | 807.6 | 670.4 | 725.9 | 604.4 | 764.8 | 666.0 | 531.7 | 180.8 | 157.0 | 149.3 |
| 85° | 525.4 | 366.3 | 190.9 | 127.9 | 263.5 | 425.6 | 118.9 | 49.2 | 37.8 | 30.1 |
| 87.5° | 181.2 | 93.4 | 9.4 | 4.0 | 28.1 | 79.4 | 4.4 | 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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