

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: P324463

Luminaire Tested: **GAN-SA9D-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324463
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-SA9D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA 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: 46828 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

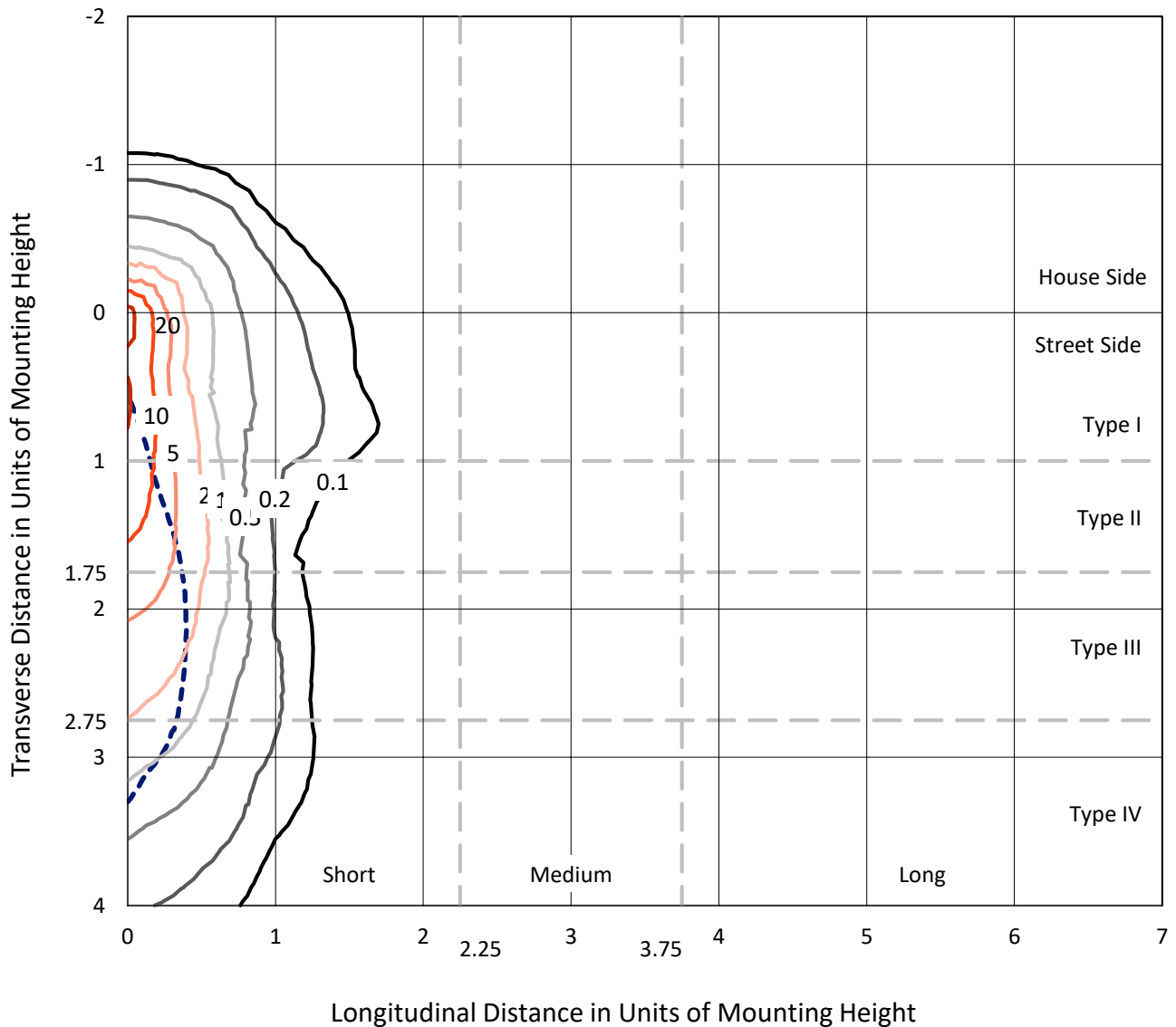
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

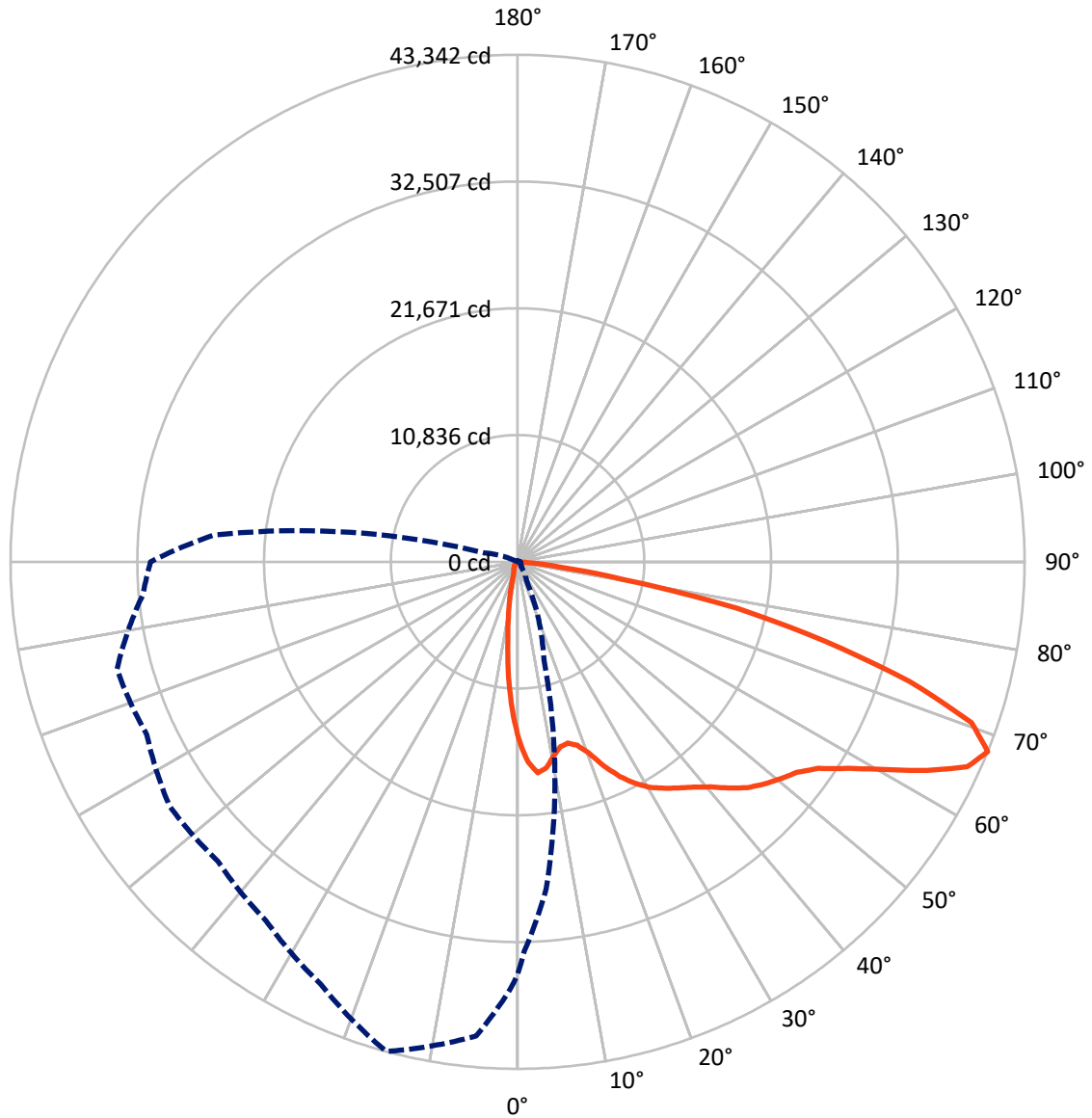
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 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 | 5667.7 | 0.0 | 5667.7 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 41160.3 | 0.0 | 41160.3 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 46828.0 | 0.0 | 46828.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1170.7 | 2.5 |
| 10°-20° | 2330.3 | 5.0 |
| 20°-30° | 3309.1 | 7.1 |
| 30°-40° | 4887.7 | 10.4 |
| 40°-50° | 7049.1 | 15.1 |
| 50°-60° | 9895.5 | 21.1 |
| 60°-70° | 11535.3 | 24.6 |
| 70°-80° | 5897.1 | 12.6 |
| 80°-90° | 753.1 | 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° | 46828.0 | 100.0 |
| 0°-180° | 46828.0 | 100.0 |

Coefficient of Utilization

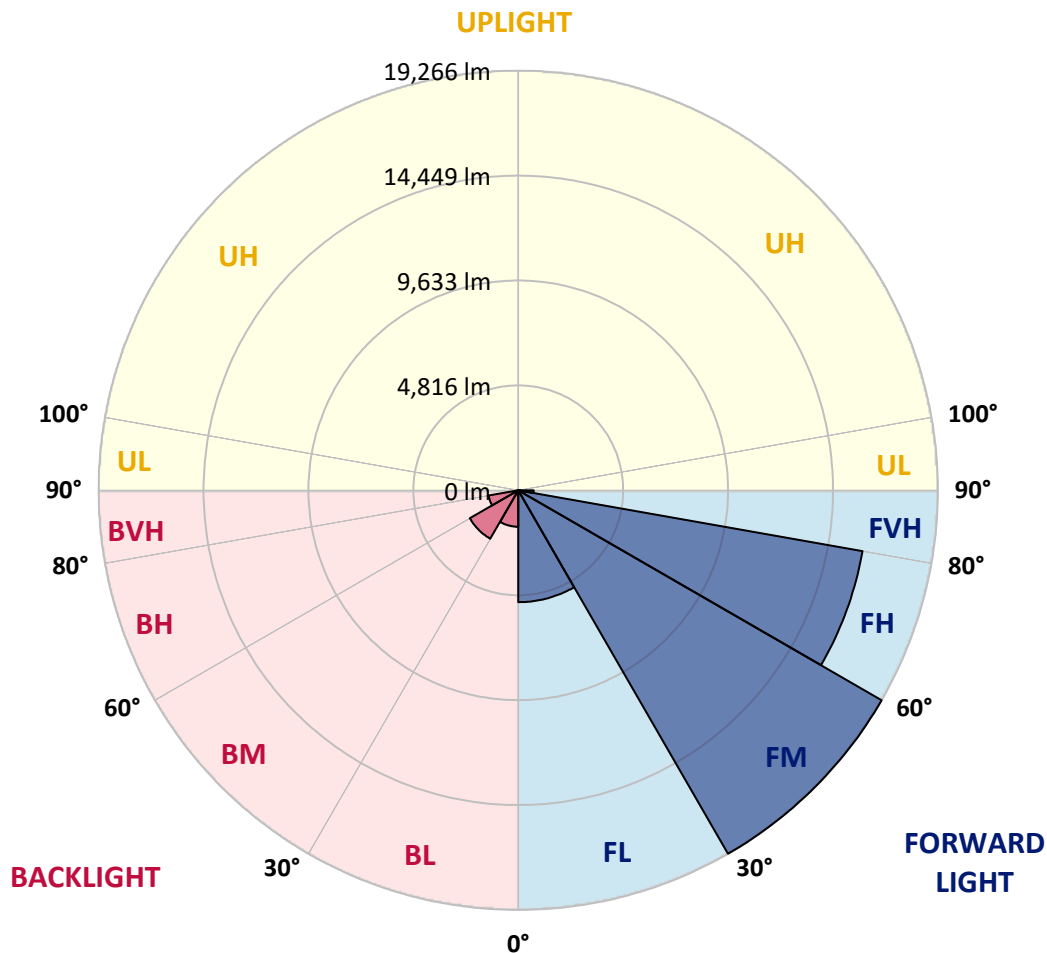


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5136.1 | 11.0 | | | |
| FM (30°-60°) | 19265.8 | 41.1 | | | |
| FH (60°-80°) | 16051.0 | 34.3 | | | G5 |
| FVH (80°-90°) | 707.4 | 1.5 | | | G4/750 |
| BL (0°-30°) | 1674.0 | 3.6 | B3/2500 | | |
| BM (30°-60°) | 2566.5 | 5.5 | B3/5000 | | |
| BH (60°-80°) | 1381.4 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 45.8 | 0.1 | | | 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 IV Medium





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CATALOG NUMBER: GAN-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 |
| 2.5° | 16702.8 | 16574.1 | 16432.1 | 15968.5 | 15538.1 | 15045.6 | 14644.1 | 14364.5 | 14014.0 | 13559.2 | 13443.9 |
| 5° | 16583.0 | 16445.4 | 15999.5 | 14968.0 | 14065.0 | 13186.5 | 12339.1 | 11842.1 | 11225.4 | 10599.8 | 10444.5 |
| 7.5° | 15378.4 | 15234.2 | 14590.8 | 13177.7 | 11961.9 | 10693.0 | 9592.6 | 8911.6 | 8215.0 | 7642.6 | 7338.7 |
| 10° | 14124.9 | 13967.4 | 13244.2 | 11529.3 | 10031.9 | 8884.9 | 8077.4 | 7427.4 | 6768.5 | 6156.2 | 5668.2 |
| 12.5° | 13262.0 | 13055.6 | 12270.3 | 10326.9 | 9022.5 | 8243.8 | 7489.5 | 6710.8 | 5819.0 | 5162.4 | 4625.5 |
| 15° | 12900.3 | 12665.2 | 11835.5 | 9863.3 | 8665.3 | 7751.3 | 6768.5 | 5812.4 | 4767.5 | 4015.4 | 3522.9 |
| 17.5° | 13179.9 | 12873.7 | 11984.1 | 9832.2 | 8217.2 | 6972.6 | 5730.3 | 4607.7 | 3474.1 | 2713.2 | 2362.7 |
| 20° | 14129.4 | 13727.8 | 12598.6 | 9823.3 | 7673.7 | 6047.5 | 4472.4 | 3203.5 | 2289.5 | 1841.3 | 1657.2 |
| 22.5° | 15624.6 | 15094.4 | 13481.6 | 9894.3 | 7112.4 | 5075.8 | 3230.1 | 2176.3 | 1719.3 | 1486.4 | 1377.7 |
| 25° | 17430.4 | 16815.9 | 14752.8 | 10145.0 | 6619.9 | 4130.8 | 2347.1 | 1719.3 | 1450.9 | 1280.1 | 1189.1 |
| 27.5° | 19147.5 | 18648.4 | 16358.9 | 10506.6 | 6238.3 | 3367.6 | 1905.7 | 1457.5 | 1240.1 | 1127.0 | 1053.8 |
| 30° | 20862.4 | 20234.6 | 18007.2 | 10937.0 | 5779.1 | 2850.7 | 1674.9 | 1328.9 | 1111.4 | 991.7 | 945.1 |
| 32.5° | 22109.2 | 21587.8 | 19298.4 | 11247.6 | 5288.8 | 2513.5 | 1497.5 | 1215.7 | 1038.2 | 916.2 | 847.5 |
| 35° | 23575.6 | 22985.5 | 20405.4 | 11316.4 | 4973.8 | 2300.5 | 1346.6 | 1093.7 | 900.7 | 792.0 | 718.8 |
| 37.5° | 25159.6 | 24425.2 | 21683.2 | 11165.5 | 4727.5 | 2196.3 | 1233.5 | 1038.2 | 840.8 | 729.9 | 652.2 |
| 40° | 26912.1 | 26082.4 | 22910.0 | 10948.1 | 4485.7 | 2160.8 | 1146.9 | 996.1 | 794.2 | 681.1 | 601.2 |
| 42.5° | 28757.9 | 27779.6 | 23972.7 | 10719.6 | 4332.7 | 2038.8 | 1138.1 | 953.9 | 758.7 | 636.7 | 556.8 |
| 45° | 30308.6 | 29317.0 | 25064.2 | 10644.2 | 4223.9 | 1905.7 | 1175.8 | 925.1 | 734.3 | 601.2 | 523.6 |
| 47.5° | 31544.3 | 30605.9 | 26182.3 | 10812.8 | 4161.8 | 1783.6 | 1071.5 | 962.8 | 721.0 | 570.1 | 494.7 |
| 50° | 33019.6 | 31956.9 | 27757.4 | 11316.4 | 4070.9 | 1661.6 | 969.5 | 1102.6 | 721.0 | 550.2 | 470.3 |
| 52.5° | 34869.8 | 33818.2 | 29514.4 | 12097.3 | 3889.0 | 1493.0 | 871.9 | 1104.8 | 727.7 | 523.6 | 439.3 |
| 55° | 37196.9 | 36433.8 | 32023.5 | 12953.6 | 3598.3 | 1244.6 | 754.3 | 949.5 | 701.0 | 474.8 | 410.4 |
| 57.5° | 39428.7 | 38805.3 | 34310.7 | 13539.3 | 3210.1 | 971.7 | 656.7 | 765.4 | 641.1 | 417.1 | 366.0 |
| 59° | 40038.8 | 39357.7 | 35149.3 | 13565.9 | 2919.5 | 847.5 | 607.9 | 632.3 | 627.8 | 390.4 | 339.4 |
| 60° | 40038.8 | 39315.6 | 35391.1 | 13423.9 | 2708.7 | 778.7 | 576.8 | 563.5 | 654.4 | 372.7 | 323.9 |
| 62.5° | 39313.3 | 38297.3 | 34605.8 | 12463.3 | 2209.6 | 663.3 | 503.6 | 465.9 | 587.9 | 335.0 | 286.2 |
| 65° | 37804.8 | 36325.1 | 31930.3 | 10726.3 | 1970.0 | 607.9 | 434.8 | 381.6 | 408.2 | 295.1 | 250.7 |
| 67.5° | 35289.1 | 33283.6 | 28072.4 | 8665.3 | 1874.6 | 592.3 | 374.9 | 323.9 | 308.4 | 252.9 | 219.6 |
| 70° | 30858.8 | 28633.7 | 23389.2 | 6812.9 | 1792.5 | 585.7 | 315.0 | 272.9 | 248.5 | 213.0 | 186.4 |
| 72.5° | 22459.7 | 20139.2 | 16605.2 | 5326.5 | 1743.7 | 599.0 | 252.9 | 228.5 | 204.1 | 166.4 | 144.2 |
| 75° | 12847.1 | 11327.5 | 9333.1 | 3518.5 | 1486.4 | 572.4 | 195.2 | 190.8 | 146.4 | 119.8 | 99.8 |
| 77.5° | 6637.6 | 6435.8 | 5592.7 | 1351.0 | 712.1 | 250.7 | 128.7 | 110.9 | 86.5 | 73.2 | 59.9 |
| 80° | 2864.0 | 2833.0 | 2451.4 | 390.4 | 188.6 | 139.8 | 73.2 | 46.6 | 39.9 | 31.1 | 24.4 |
| 82.5° | 989.4 | 989.4 | 871.9 | 130.9 | 84.3 | 68.8 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 199.7 | 224.1 | 157.5 | 0.0 | 28.8 | 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-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 |
| 2.5° | 13304.1 | 13035.7 | 13017.9 | 12849.3 | 12638.6 | 12543.2 | 12487.7 | 12585.3 | 12705.1 | 12718.4 | 12898.1 |
| 5° | 10326.9 | 10045.2 | 10162.8 | 9863.3 | 9923.2 | 9863.3 | 9765.7 | 9783.4 | 9836.7 | 9670.3 | 9876.6 |
| 7.5° | 7252.1 | 7039.2 | 7174.5 | 7094.6 | 7201.1 | 7243.3 | 7183.4 | 7094.6 | 6832.9 | 6801.8 | 6981.5 |
| 10° | 5466.3 | 5224.5 | 5080.3 | 4929.4 | 4962.7 | 5031.5 | 5009.3 | 4944.9 | 4778.6 | 4787.4 | 4960.5 |
| 12.5° | 4392.6 | 4121.9 | 3835.7 | 3465.2 | 3374.3 | 3425.3 | 3374.3 | 3336.6 | 3176.8 | 3190.1 | 3343.2 |
| 15° | 3332.1 | 3110.3 | 2810.8 | 2513.5 | 2351.6 | 2367.1 | 2225.1 | 2125.3 | 2025.5 | 1905.7 | 1998.8 |
| 17.5° | 2249.5 | 2114.2 | 2025.5 | 1936.7 | 1743.7 | 1699.3 | 1519.6 | 1326.6 | 1251.2 | 1195.8 | 1235.7 |
| 20° | 1592.9 | 1519.6 | 1484.2 | 1479.7 | 1368.8 | 1313.3 | 1138.1 | 1018.3 | 980.6 | 969.5 | 993.9 |
| 22.5° | 1331.1 | 1277.8 | 1226.8 | 1198.0 | 1142.5 | 1078.2 | 945.1 | 885.2 | 858.5 | 845.2 | 863.0 |
| 25° | 1158.0 | 1118.1 | 1064.9 | 1016.1 | 993.9 | 925.1 | 829.7 | 785.3 | 767.6 | 754.3 | 763.2 |
| 27.5° | 1029.4 | 993.9 | 931.8 | 900.7 | 882.9 | 823.0 | 741.0 | 705.5 | 689.9 | 685.5 | 683.3 |
| 30° | 927.3 | 894.0 | 836.4 | 800.9 | 769.8 | 716.6 | 667.8 | 632.3 | 616.7 | 612.3 | 607.9 |
| 32.5° | 825.3 | 798.6 | 760.9 | 725.4 | 692.2 | 643.4 | 601.2 | 572.4 | 548.0 | 543.5 | 541.3 |
| 35° | 696.6 | 670.0 | 650.0 | 647.8 | 616.7 | 570.1 | 539.1 | 501.4 | 481.4 | 474.8 | 477.0 |
| 37.5° | 619.0 | 583.5 | 539.1 | 554.6 | 545.7 | 512.5 | 470.3 | 432.6 | 412.6 | 408.2 | 408.2 |
| 40° | 570.1 | 532.4 | 481.4 | 454.8 | 481.4 | 474.8 | 408.2 | 370.5 | 350.5 | 348.3 | 343.9 |
| 42.5° | 523.6 | 485.8 | 428.2 | 383.8 | 397.1 | 417.1 | 352.7 | 317.2 | 297.3 | 292.8 | 286.2 |
| 45° | 490.3 | 450.3 | 386.0 | 335.0 | 308.4 | 350.5 | 301.7 | 257.3 | 246.2 | 237.4 | 232.9 |
| 47.5° | 459.2 | 421.5 | 348.3 | 290.6 | 246.2 | 252.9 | 241.8 | 210.8 | 197.4 | 188.6 | 186.4 |
| 50° | 432.6 | 392.7 | 315.0 | 248.5 | 204.1 | 186.4 | 195.2 | 166.4 | 155.3 | 146.4 | 142.0 |
| 52.5° | 401.5 | 363.8 | 279.5 | 215.2 | 170.8 | 146.4 | 148.6 | 130.9 | 119.8 | 113.1 | 110.9 |
| 55° | 377.1 | 339.4 | 250.7 | 188.6 | 150.9 | 119.8 | 106.5 | 102.0 | 95.4 | 91.0 | 88.7 |
| 57.5° | 343.9 | 308.4 | 221.8 | 159.7 | 128.7 | 97.6 | 82.1 | 82.1 | 79.9 | 75.4 | 73.2 |
| 59° | 323.9 | 292.8 | 204.1 | 144.2 | 117.6 | 84.3 | 73.2 | 75.4 | 73.2 | 68.8 | 66.6 |
| 60° | 308.4 | 279.5 | 190.8 | 133.1 | 110.9 | 77.6 | 66.6 | 71.0 | 68.8 | 64.3 | 62.1 |
| 62.5° | 272.9 | 252.9 | 164.2 | 110.9 | 97.6 | 62.1 | 55.5 | 59.9 | 59.9 | 57.7 | 55.5 |
| 65° | 239.6 | 217.4 | 139.8 | 93.2 | 91.0 | 53.2 | 44.4 | 53.2 | 55.5 | 51.0 | 46.6 |
| 67.5° | 208.5 | 186.4 | 122.0 | 75.4 | 84.3 | 42.2 | 33.3 | 44.4 | 59.9 | 46.6 | 42.2 |
| 70° | 177.5 | 155.3 | 95.4 | 59.9 | 88.7 | 28.8 | 26.6 | 39.9 | 71.0 | 51.0 | 39.9 |
| 72.5° | 137.5 | 119.8 | 66.6 | 44.4 | 95.4 | 20.0 | 20.0 | 33.3 | 79.9 | 55.5 | 37.7 |
| 75° | 95.4 | 77.6 | 39.9 | 26.6 | 77.6 | 13.3 | 13.3 | 31.1 | 75.4 | 51.0 | 35.5 |
| 77.5° | 55.5 | 42.2 | 13.3 | 2.2 | 39.9 | 0.0 | 2.2 | 22.2 | 53.2 | 31.1 | 15.5 |
| 80° | 20.0 | 8.9 | 0.0 | 0.0 | 24.4 | 0.0 | 0.0 | 0.0 | 4.4 | 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-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 | 15254.1 |
| 2.5° | 12944.7 | 13244.2 | 13512.6 | 13918.6 | 14400.0 | 14954.6 | 15431.6 | 15944.1 | 16425.5 | 16625.1 | 16762.7 |
| 5° | 9918.7 | 10289.2 | 10721.8 | 11318.6 | 12112.8 | 13091.1 | 14007.4 | 15043.4 | 16157.0 | 16713.9 | 17237.4 |
| 7.5° | 7012.6 | 7389.7 | 7926.6 | 8561.0 | 9521.6 | 10686.3 | 11884.3 | 13315.2 | 14823.8 | 15704.5 | 16571.9 |
| 10° | 5042.6 | 5506.2 | 6007.6 | 6875.0 | 7851.1 | 8955.9 | 10189.4 | 11786.7 | 13468.3 | 14444.4 | 15489.3 |
| 12.5° | 3432.0 | 3960.0 | 4718.7 | 5690.4 | 6837.3 | 7919.9 | 8991.4 | 10515.5 | 12467.7 | 13435.0 | 14555.3 |
| 15° | 2058.7 | 2351.6 | 3154.7 | 4279.4 | 5685.9 | 7034.7 | 8208.3 | 9736.8 | 11817.7 | 13002.4 | 14167.1 |
| 17.5° | 1269.0 | 1404.3 | 1841.3 | 2764.2 | 4241.7 | 5947.7 | 7556.1 | 9472.8 | 11910.9 | 13352.9 | 14599.7 |
| 20° | 1011.6 | 1064.9 | 1204.6 | 1632.8 | 2810.8 | 4749.7 | 6821.8 | 9419.6 | 12671.8 | 14446.6 | 15784.3 |
| 22.5° | 878.5 | 929.5 | 1022.7 | 1186.9 | 1768.1 | 3556.2 | 6125.2 | 9468.4 | 13763.3 | 16086.1 | 17647.9 |
| 25° | 774.2 | 818.6 | 907.4 | 1042.7 | 1295.6 | 2504.6 | 5379.8 | 9685.8 | 15185.4 | 18120.4 | 19779.8 |
| 27.5° | 692.2 | 729.9 | 812.0 | 936.2 | 1111.4 | 1748.1 | 4534.5 | 9949.8 | 16871.4 | 20201.3 | 21838.5 |
| 30° | 616.7 | 650.0 | 723.2 | 838.6 | 965.0 | 1344.4 | 3607.2 | 10129.5 | 18559.6 | 21838.5 | 23309.4 |
| 32.5° | 552.4 | 576.8 | 643.4 | 741.0 | 838.6 | 1071.5 | 2742.0 | 10100.7 | 19813.1 | 23200.7 | 24367.6 |
| 35° | 485.8 | 510.2 | 567.9 | 652.2 | 729.9 | 885.2 | 2156.3 | 9561.6 | 20904.6 | 24613.8 | 25578.8 |
| 37.5° | 412.6 | 443.7 | 499.2 | 574.6 | 627.8 | 778.7 | 1743.7 | 8911.6 | 22011.6 | 26228.9 | 26929.9 |
| 40° | 350.5 | 381.6 | 430.4 | 512.5 | 545.7 | 738.7 | 1340.0 | 8119.6 | 23256.1 | 28034.7 | 28411.8 |
| 42.5° | 290.6 | 319.5 | 370.5 | 441.5 | 514.7 | 636.7 | 991.7 | 7214.4 | 24451.9 | 29578.7 | 29762.9 |
| 45° | 235.2 | 264.0 | 317.2 | 388.2 | 550.2 | 528.0 | 767.6 | 6245.0 | 25416.9 | 30863.2 | 30923.1 |
| 47.5° | 186.4 | 213.0 | 268.4 | 366.0 | 512.5 | 421.5 | 548.0 | 5484.0 | 26226.6 | 31866.0 | 31708.5 |
| 50° | 144.2 | 166.4 | 224.1 | 419.3 | 448.1 | 348.3 | 414.9 | 5231.1 | 26952.1 | 32487.1 | 32078.9 |
| 52.5° | 113.1 | 133.1 | 184.1 | 392.7 | 348.3 | 288.4 | 348.3 | 5468.5 | 27945.9 | 33001.8 | 32287.5 |
| 55° | 91.0 | 110.9 | 144.2 | 224.1 | 237.4 | 244.0 | 297.3 | 5690.4 | 29660.8 | 34208.7 | 33518.7 |
| 57.5° | 75.4 | 95.4 | 117.6 | 157.5 | 179.7 | 206.3 | 264.0 | 5714.8 | 31681.8 | 36214.1 | 35561.9 |
| 59° | 68.8 | 86.5 | 106.5 | 139.8 | 157.5 | 188.6 | 248.5 | 5581.6 | 32394.0 | 36944.0 | 36617.9 |
| 60° | 64.3 | 82.1 | 99.8 | 128.7 | 146.4 | 177.5 | 239.6 | 5455.2 | 32425.0 | 36917.4 | 37068.3 |
| 62.5° | 55.5 | 73.2 | 88.7 | 108.7 | 124.2 | 150.9 | 215.2 | 4987.1 | 31111.7 | 35708.3 | 36797.6 |
| 65° | 48.8 | 64.3 | 79.9 | 93.2 | 106.5 | 135.3 | 195.2 | 4133.0 | 28868.8 | 33758.3 | 34945.2 |
| 67.5° | 44.4 | 55.5 | 73.2 | 82.1 | 95.4 | 119.8 | 173.0 | 2946.1 | 26066.9 | 31373.5 | 32143.3 |
| 70° | 39.9 | 53.2 | 66.6 | 75.4 | 86.5 | 104.3 | 148.6 | 1692.7 | 22011.6 | 27881.6 | 28429.6 |
| 72.5° | 37.7 | 51.0 | 59.9 | 71.0 | 77.6 | 93.2 | 135.3 | 796.4 | 16117.1 | 22335.5 | 23766.4 |
| 75° | 33.3 | 46.6 | 55.5 | 66.6 | 73.2 | 84.3 | 115.4 | 381.6 | 10719.6 | 16163.7 | 17789.8 |
| 77.5° | 20.0 | 37.7 | 51.0 | 59.9 | 64.3 | 73.2 | 95.4 | 219.6 | 6841.7 | 11187.7 | 13177.7 |
| 80° | 0.0 | 13.3 | 37.7 | 51.0 | 55.5 | 62.1 | 73.2 | 173.0 | 3660.5 | 6391.4 | 7671.4 |
| 82.5° | 0.0 | 0.0 | 26.6 | 39.9 | 37.7 | 42.2 | 55.5 | 108.7 | 1650.5 | 4177.4 | 4707.6 |
| 85° | 0.0 | 0.0 | 8.9 | 31.1 | 26.6 | 20.0 | 37.7 | 37.7 | 361.6 | 2114.2 | 2637.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.2 | 13.3 | 8.9 | 15.5 | 4.4 | 2.2 | 157.5 | 638.9 |
| 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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| 65° | 35819.3 | 35919.1 | 38239.6 | 39479.7 | 40737.6 | 40892.9 | 42232.8 | 42232.8 | 38789.8 | 37804.8 |
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| 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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