

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387036

Luminaire Tested: GAW-SA2D-730-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387036
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-730-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(2) 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: 10932 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

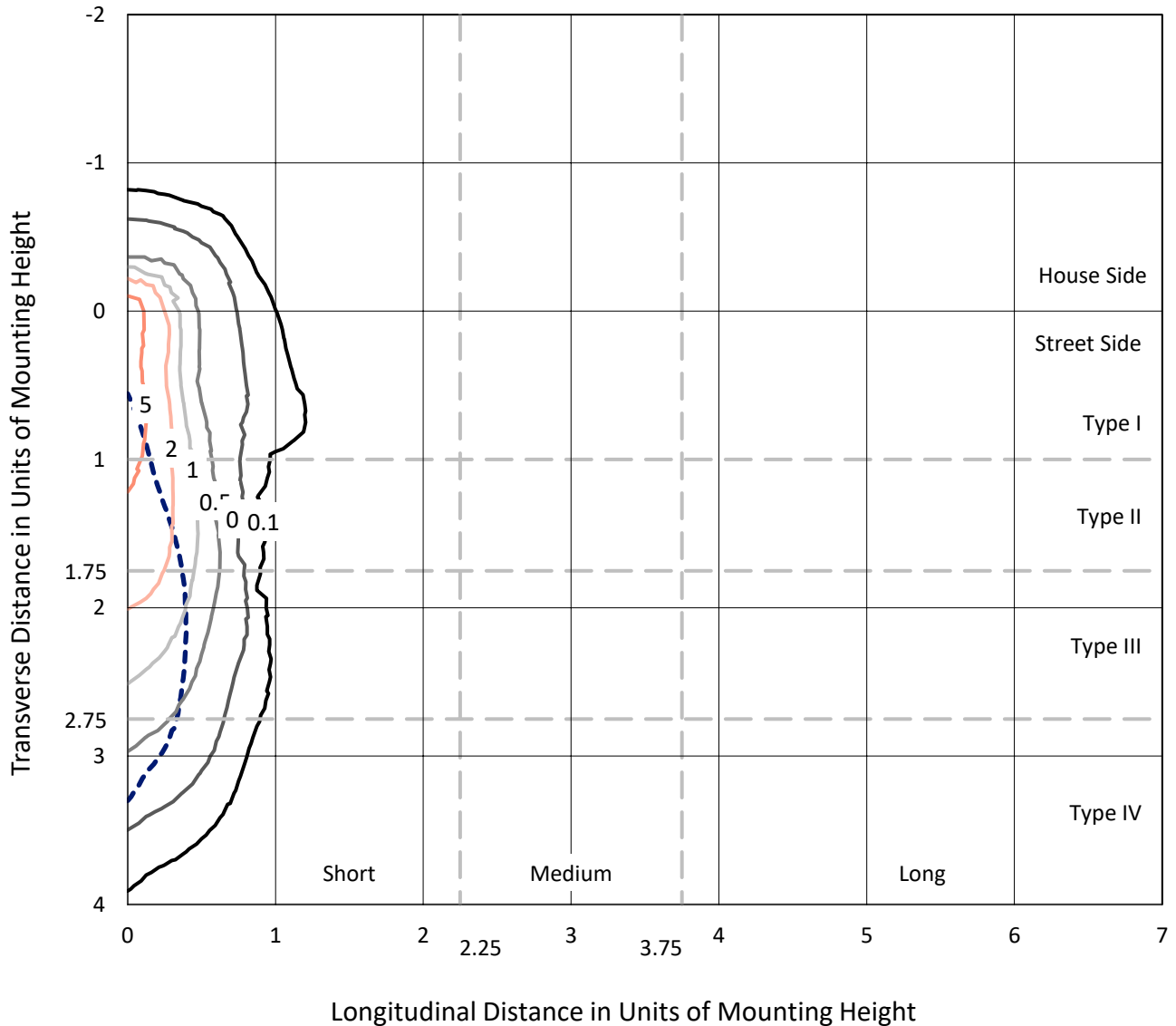
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P387036
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Iso-Footcandle Lines of Horizontal Illumination

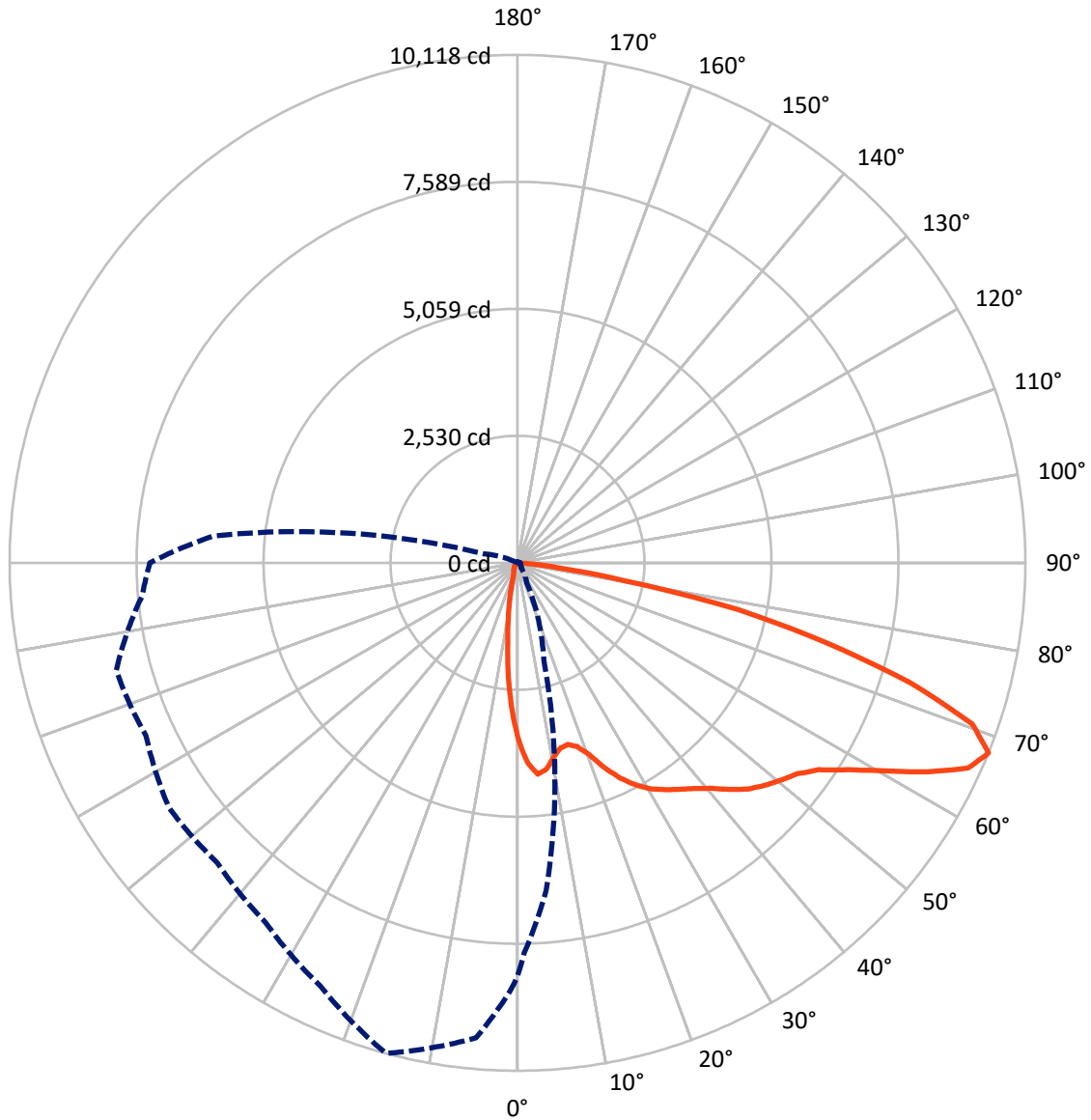
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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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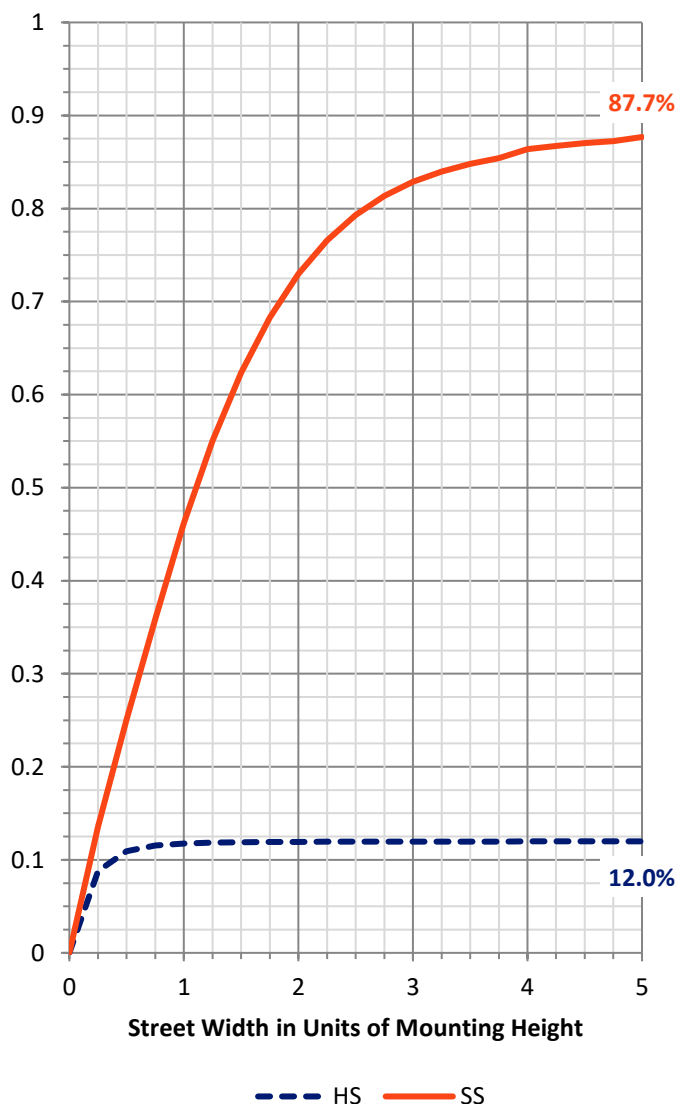
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1323.1 | 0.0 | 1323.1 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 9608.9 | 0.0 | 9608.9 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 10932.0 | 0.0 | 10932.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.3 | 2.5 |
| 10°-20° | 544.0 | 5.0 |
| 20°-30° | 772.5 | 7.1 |
| 30°-40° | 1141.0 | 10.4 |
| 40°-50° | 1645.6 | 15.1 |
| 50°-60° | 2310.1 | 21.1 |
| 60°-70° | 2692.9 | 24.6 |
| 70°-80° | 1376.7 | 12.6 |
| 80°-90° | 175.8 | 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° | 10932.0 | 100.0 |
| 0°-180° | 10932.0 | 100.0 |

Coefficient of Utilization

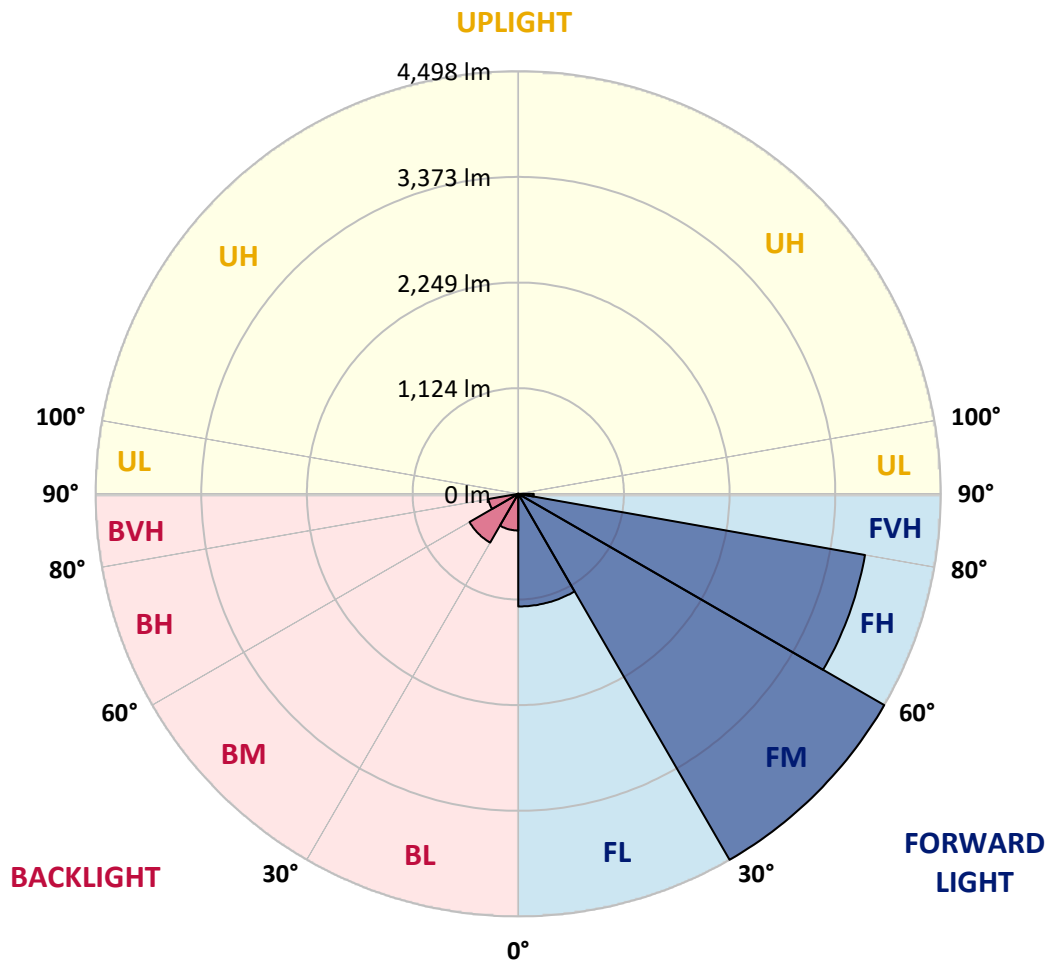


REPORT NUMBER: P387036
 CATALOG NUMBER: GAW-SA2D-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1199.0 | 11.0 | | | |
| FM (30°-60°) | 4497.6 | 41.1 | | | |
| FH (60°-80°) | 3747.1 | 34.3 | | | G2/5000 |
| FVH (80°-90°) | 165.1 | 1.5 | | | G2/225 |
| BL (0°-30°) | 390.8 | 3.6 | B1/500 | | |
| BM (30°-60°) | 599.2 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 322.5 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| 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° | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 |
| 2.5° | 3899.3 | 3869.2 | 3836.1 | 3727.8 | 3627.4 | 3512.4 | 3418.7 | 3353.4 | 3271.6 | 3165.4 | 3138.5 |
| 5° | 3871.3 | 3839.2 | 3735.1 | 3494.3 | 3283.5 | 3078.4 | 2880.6 | 2764.5 | 2620.6 | 2474.5 | 2438.3 |
| 7.5° | 3590.1 | 3556.4 | 3406.2 | 3076.3 | 2792.5 | 2496.3 | 2239.4 | 2080.4 | 1917.8 | 1784.2 | 1713.2 |
| 10° | 3297.5 | 3260.7 | 3091.9 | 2691.5 | 2341.9 | 2074.2 | 1885.7 | 1733.9 | 1580.1 | 1437.2 | 1323.2 |
| 12.5° | 3096.0 | 3047.8 | 2864.5 | 2410.8 | 2106.3 | 1924.5 | 1748.4 | 1566.6 | 1358.5 | 1205.2 | 1079.8 |
| 15° | 3011.6 | 2956.7 | 2763.0 | 2302.6 | 2022.9 | 1809.5 | 1580.1 | 1356.9 | 1113.0 | 937.4 | 822.4 |
| 17.5° | 3076.8 | 3005.4 | 2797.7 | 2295.3 | 1918.3 | 1627.8 | 1337.7 | 1075.7 | 811.0 | 633.4 | 551.6 |
| 20° | 3298.5 | 3204.8 | 2941.2 | 2293.3 | 1791.4 | 1411.8 | 1044.1 | 747.8 | 534.5 | 429.9 | 386.9 |
| 22.5° | 3647.6 | 3523.8 | 3147.3 | 2309.8 | 1660.4 | 1185.0 | 754.1 | 508.1 | 401.4 | 347.0 | 321.6 |
| 25° | 4069.1 | 3925.7 | 3444.0 | 2368.4 | 1545.4 | 964.3 | 547.9 | 401.4 | 338.7 | 298.8 | 277.6 |
| 27.5° | 4470.0 | 4353.5 | 3819.0 | 2452.8 | 1456.3 | 786.2 | 444.9 | 340.3 | 289.5 | 263.1 | 246.0 |
| 30° | 4870.3 | 4723.8 | 4203.8 | 2553.2 | 1349.1 | 665.5 | 391.0 | 310.2 | 259.5 | 231.5 | 220.6 |
| 32.5° | 5161.4 | 5039.7 | 4505.2 | 2625.8 | 1234.7 | 586.8 | 349.6 | 283.8 | 242.4 | 213.9 | 197.8 |
| 35° | 5503.7 | 5366.0 | 4763.6 | 2641.8 | 1161.1 | 537.1 | 314.4 | 255.3 | 210.3 | 184.9 | 167.8 |
| 37.5° | 5873.5 | 5702.1 | 5062.0 | 2606.6 | 1103.6 | 512.7 | 288.0 | 242.4 | 196.3 | 170.4 | 152.3 |
| 40° | 6282.6 | 6088.9 | 5348.4 | 2555.8 | 1047.2 | 504.4 | 267.8 | 232.5 | 185.4 | 159.0 | 140.4 |
| 42.5° | 6713.5 | 6485.1 | 5596.4 | 2502.5 | 1011.5 | 475.9 | 265.7 | 222.7 | 177.1 | 148.6 | 130.0 |
| 45° | 7075.5 | 6844.0 | 5851.2 | 2484.9 | 986.1 | 444.9 | 274.5 | 216.0 | 171.4 | 140.4 | 122.2 |
| 47.5° | 7364.0 | 7144.9 | 6112.3 | 2524.2 | 971.6 | 416.4 | 250.1 | 224.8 | 168.3 | 133.1 | 115.5 |
| 50° | 7708.4 | 7460.3 | 6480.0 | 2641.8 | 950.3 | 387.9 | 226.3 | 257.4 | 168.3 | 128.4 | 109.8 |
| 52.5° | 8140.3 | 7894.9 | 6890.1 | 2824.1 | 907.9 | 348.5 | 203.5 | 257.9 | 169.9 | 122.2 | 102.5 |
| 55° | 8683.6 | 8505.5 | 7475.9 | 3024.0 | 840.0 | 290.5 | 176.1 | 221.7 | 163.7 | 110.8 | 95.8 |
| 57.5° | 9204.6 | 9059.1 | 8009.8 | 3160.7 | 749.4 | 226.8 | 153.3 | 178.7 | 149.7 | 97.4 | 85.5 |
| 59° | 9347.1 | 9188.1 | 8205.6 | 3167.0 | 681.6 | 197.8 | 141.9 | 147.6 | 146.6 | 91.2 | 79.2 |
| 60° | 9347.1 | 9178.2 | 8262.1 | 3133.8 | 632.4 | 181.8 | 134.7 | 131.5 | 152.8 | 87.0 | 75.6 |
| 62.5° | 9177.7 | 8940.5 | 8078.7 | 2909.6 | 515.8 | 154.9 | 117.6 | 108.8 | 137.2 | 78.2 | 66.8 |
| 65° | 8825.5 | 8480.1 | 7454.1 | 2504.0 | 459.9 | 141.9 | 101.5 | 89.1 | 95.3 | 68.9 | 58.5 |
| 67.5° | 8238.2 | 7770.1 | 6553.5 | 2022.9 | 437.6 | 138.3 | 87.5 | 75.6 | 72.0 | 59.0 | 51.3 |
| 70° | 7204.0 | 6684.5 | 5460.2 | 1590.5 | 418.5 | 136.7 | 73.5 | 63.7 | 58.0 | 49.7 | 43.5 |
| 72.5° | 5243.2 | 4701.5 | 3876.5 | 1243.5 | 407.1 | 139.8 | 59.0 | 53.3 | 47.6 | 38.8 | 33.7 |
| 75° | 2999.2 | 2644.4 | 2178.8 | 821.4 | 347.0 | 133.6 | 45.6 | 44.5 | 34.2 | 28.0 | 23.3 |
| 77.5° | 1549.6 | 1502.4 | 1305.6 | 315.4 | 166.2 | 58.5 | 30.0 | 25.9 | 20.2 | 17.1 | 14.0 |
| 80° | 668.6 | 661.4 | 572.3 | 91.2 | 44.0 | 32.6 | 17.1 | 10.9 | 9.3 | 7.3 | 5.7 |
| 82.5° | 231.0 | 231.0 | 203.5 | 30.6 | 19.7 | 16.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 46.6 | 52.3 | 36.8 | 0.0 | 6.7 | 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: GAW-SA2D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 |
| 2.5° | 3105.8 | 3043.2 | 3039.0 | 2999.7 | 2950.5 | 2928.2 | 2915.3 | 2938.0 | 2966.0 | 2969.1 | 3011.1 |
| 5° | 2410.8 | 2345.1 | 2372.5 | 2302.6 | 2316.6 | 2302.6 | 2279.8 | 2283.9 | 2296.4 | 2257.5 | 2305.7 |
| 7.5° | 1693.0 | 1643.3 | 1674.9 | 1656.2 | 1681.1 | 1690.9 | 1677.0 | 1656.2 | 1595.1 | 1587.9 | 1629.8 |
| 10° | 1276.1 | 1219.7 | 1186.0 | 1150.8 | 1158.5 | 1174.6 | 1169.4 | 1154.4 | 1115.6 | 1117.6 | 1158.0 |
| 12.5° | 1025.4 | 962.3 | 895.4 | 809.0 | 787.7 | 799.6 | 787.7 | 778.9 | 741.6 | 744.7 | 780.5 |
| 15° | 777.9 | 726.1 | 656.2 | 586.8 | 549.0 | 552.6 | 519.5 | 496.1 | 472.8 | 444.9 | 466.6 |
| 17.5° | 525.2 | 493.6 | 472.8 | 452.1 | 407.1 | 396.7 | 354.8 | 309.7 | 292.1 | 279.1 | 288.5 |
| 20° | 371.9 | 354.8 | 346.5 | 345.4 | 319.5 | 306.6 | 265.7 | 237.7 | 228.9 | 226.3 | 232.0 |
| 22.5° | 310.7 | 298.3 | 286.4 | 279.7 | 266.7 | 251.7 | 220.6 | 206.6 | 200.4 | 197.3 | 201.5 |
| 25° | 270.3 | 261.0 | 248.6 | 237.2 | 232.0 | 216.0 | 193.7 | 183.3 | 179.2 | 176.1 | 178.2 |
| 27.5° | 240.3 | 232.0 | 217.5 | 210.3 | 206.1 | 192.1 | 173.0 | 164.7 | 161.1 | 160.0 | 159.5 |
| 30° | 216.5 | 208.7 | 195.2 | 187.0 | 179.7 | 167.3 | 155.9 | 147.6 | 144.0 | 142.9 | 141.9 |
| 32.5° | 192.7 | 186.4 | 177.6 | 169.4 | 161.6 | 150.2 | 140.4 | 133.6 | 127.9 | 126.9 | 126.4 |
| 35° | 162.6 | 156.4 | 151.7 | 151.2 | 144.0 | 133.1 | 125.8 | 117.0 | 112.4 | 110.8 | 111.3 |
| 37.5° | 144.5 | 136.2 | 125.8 | 129.5 | 127.4 | 119.6 | 109.8 | 101.0 | 96.3 | 95.3 | 95.3 |
| 40° | 133.1 | 124.3 | 112.4 | 106.2 | 112.4 | 110.8 | 95.3 | 86.5 | 81.8 | 81.3 | 80.3 |
| 42.5° | 122.2 | 113.4 | 100.0 | 89.6 | 92.7 | 97.4 | 82.3 | 74.1 | 69.4 | 68.4 | 66.8 |
| 45° | 114.5 | 105.1 | 90.1 | 78.2 | 72.0 | 81.8 | 70.4 | 60.1 | 57.5 | 55.4 | 54.4 |
| 47.5° | 107.2 | 98.4 | 81.3 | 67.8 | 57.5 | 59.0 | 56.5 | 49.2 | 46.1 | 44.0 | 43.5 |
| 50° | 101.0 | 91.7 | 73.5 | 58.0 | 47.6 | 43.5 | 45.6 | 38.8 | 36.3 | 34.2 | 33.1 |
| 52.5° | 93.7 | 84.9 | 65.3 | 50.2 | 39.9 | 34.2 | 34.7 | 30.6 | 28.0 | 26.4 | 25.9 |
| 55° | 88.0 | 79.2 | 58.5 | 44.0 | 35.2 | 28.0 | 24.9 | 23.8 | 22.3 | 21.2 | 20.7 |
| 57.5° | 80.3 | 72.0 | 51.8 | 37.3 | 30.0 | 22.8 | 19.2 | 19.2 | 18.6 | 17.6 | 17.1 |
| 59° | 75.6 | 68.4 | 47.6 | 33.7 | 27.4 | 19.7 | 17.1 | 17.6 | 17.1 | 16.1 | 15.5 |
| 60° | 72.0 | 65.3 | 44.5 | 31.1 | 25.9 | 18.1 | 15.5 | 16.6 | 16.1 | 15.0 | 14.5 |
| 62.5° | 63.7 | 59.0 | 38.3 | 25.9 | 22.8 | 14.5 | 12.9 | 14.0 | 14.0 | 13.5 | 12.9 |
| 65° | 55.9 | 50.8 | 32.6 | 21.8 | 21.2 | 12.4 | 10.4 | 12.4 | 12.9 | 11.9 | 10.9 |
| 67.5° | 48.7 | 43.5 | 28.5 | 17.6 | 19.7 | 9.8 | 7.8 | 10.4 | 14.0 | 10.9 | 9.8 |
| 70° | 41.4 | 36.3 | 22.3 | 14.0 | 20.7 | 6.7 | 6.2 | 9.3 | 16.6 | 11.9 | 9.3 |
| 72.5° | 32.1 | 28.0 | 15.5 | 10.4 | 22.3 | 4.7 | 4.7 | 7.8 | 18.6 | 12.9 | 8.8 |
| 75° | 22.3 | 18.1 | 9.3 | 6.2 | 18.1 | 3.1 | 3.1 | 7.3 | 17.6 | 11.9 | 8.3 |
| 77.5° | 12.9 | 9.8 | 3.1 | 0.5 | 9.3 | 0.0 | 0.5 | 5.2 | 12.4 | 7.3 | 3.6 |
| 80° | 4.7 | 2.1 | 0.0 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 1.0 | 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: GAW-SA2D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 |
| 2.5° | 3021.9 | 3091.9 | 3154.5 | 3249.3 | 3361.7 | 3491.2 | 3602.5 | 3722.1 | 3834.5 | 3881.1 | 3913.3 |
| 5° | 2315.5 | 2402.0 | 2503.0 | 2642.3 | 2827.7 | 3056.1 | 3270.0 | 3511.9 | 3771.9 | 3901.9 | 4024.1 |
| 7.5° | 1637.1 | 1725.1 | 1850.5 | 1998.6 | 2222.8 | 2494.7 | 2774.4 | 3108.4 | 3460.6 | 3666.2 | 3868.7 |
| 10° | 1177.2 | 1285.4 | 1402.5 | 1605.0 | 1832.8 | 2090.8 | 2378.7 | 2751.6 | 3144.2 | 3372.0 | 3616.0 |
| 12.5° | 801.2 | 924.5 | 1101.6 | 1328.4 | 1596.2 | 1848.9 | 2099.0 | 2454.8 | 2910.6 | 3136.4 | 3397.9 |
| 15° | 480.6 | 549.0 | 736.5 | 999.0 | 1327.4 | 1642.3 | 1916.2 | 2273.1 | 2758.9 | 3035.4 | 3307.3 |
| 17.5° | 296.2 | 327.8 | 429.9 | 645.3 | 990.2 | 1388.5 | 1764.0 | 2211.4 | 2780.6 | 3117.2 | 3408.3 |
| 20° | 236.2 | 248.6 | 281.2 | 381.2 | 656.2 | 1108.8 | 1592.5 | 2199.0 | 2958.2 | 3372.6 | 3684.9 |
| 22.5° | 205.1 | 217.0 | 238.8 | 277.1 | 412.8 | 830.2 | 1429.9 | 2210.4 | 3213.1 | 3755.3 | 4119.9 |
| 25° | 180.7 | 191.1 | 211.8 | 243.4 | 302.5 | 584.7 | 1255.9 | 2261.2 | 3545.0 | 4230.2 | 4617.6 |
| 27.5° | 161.6 | 170.4 | 189.6 | 218.6 | 259.5 | 408.1 | 1058.6 | 2322.8 | 3938.6 | 4716.0 | 5098.2 |
| 30° | 144.0 | 151.7 | 168.8 | 195.8 | 225.3 | 313.8 | 842.1 | 2364.7 | 4332.7 | 5098.2 | 5441.6 |
| 32.5° | 129.0 | 134.7 | 150.2 | 173.0 | 195.8 | 250.1 | 640.1 | 2358.0 | 4625.4 | 5416.2 | 5688.6 |
| 35° | 113.4 | 119.1 | 132.6 | 152.3 | 170.4 | 206.6 | 503.4 | 2232.1 | 4880.2 | 5746.1 | 5971.4 |
| 37.5° | 96.3 | 103.6 | 116.5 | 134.1 | 146.6 | 181.8 | 407.1 | 2080.4 | 5138.6 | 6123.1 | 6286.8 |
| 40° | 81.8 | 89.1 | 100.5 | 119.6 | 127.4 | 172.5 | 312.8 | 1895.5 | 5429.1 | 6544.7 | 6632.7 |
| 42.5° | 67.8 | 74.6 | 86.5 | 103.1 | 120.2 | 148.6 | 231.5 | 1684.2 | 5708.3 | 6905.2 | 6948.1 |
| 45° | 54.9 | 61.6 | 74.1 | 90.6 | 128.4 | 123.3 | 179.2 | 1457.9 | 5933.6 | 7205.0 | 7219.0 |
| 47.5° | 43.5 | 49.7 | 62.7 | 85.5 | 119.6 | 98.4 | 127.9 | 1280.2 | 6122.6 | 7439.1 | 7402.3 |
| 50° | 33.7 | 38.8 | 52.3 | 97.9 | 104.6 | 81.3 | 96.8 | 1221.2 | 6292.0 | 7584.1 | 7488.8 |
| 52.5° | 26.4 | 31.1 | 43.0 | 91.7 | 81.3 | 67.3 | 81.3 | 1276.6 | 6524.0 | 7704.3 | 7537.5 |
| 55° | 21.2 | 25.9 | 33.7 | 52.3 | 55.4 | 57.0 | 69.4 | 1328.4 | 6924.3 | 7986.0 | 7824.9 |
| 57.5° | 17.6 | 22.3 | 27.4 | 36.8 | 41.9 | 48.2 | 61.6 | 1334.1 | 7396.1 | 8454.2 | 8301.9 |
| 59° | 16.1 | 20.2 | 24.9 | 32.6 | 36.8 | 44.0 | 58.0 | 1303.0 | 7562.4 | 8624.6 | 8548.5 |
| 60° | 15.0 | 19.2 | 23.3 | 30.0 | 34.2 | 41.4 | 55.9 | 1273.5 | 7569.6 | 8618.4 | 8653.6 |
| 62.5° | 12.9 | 17.1 | 20.7 | 25.4 | 29.0 | 35.2 | 50.2 | 1164.2 | 7263.0 | 8336.1 | 8590.4 |
| 65° | 11.4 | 15.0 | 18.6 | 21.8 | 24.9 | 31.6 | 45.6 | 964.8 | 6739.4 | 7880.9 | 8158.0 |
| 67.5° | 10.4 | 12.9 | 17.1 | 19.2 | 22.3 | 28.0 | 40.4 | 687.8 | 6085.3 | 7324.1 | 7503.8 |
| 70° | 9.3 | 12.4 | 15.5 | 17.6 | 20.2 | 24.3 | 34.7 | 395.2 | 5138.6 | 6509.0 | 6636.9 |
| 72.5° | 8.8 | 11.9 | 14.0 | 16.6 | 18.1 | 21.8 | 31.6 | 185.9 | 3762.5 | 5214.2 | 5548.3 |
| 75° | 7.8 | 10.9 | 12.9 | 15.5 | 17.1 | 19.7 | 26.9 | 89.1 | 2502.5 | 3773.4 | 4153.0 |
| 77.5° | 4.7 | 8.8 | 11.9 | 14.0 | 15.0 | 17.1 | 22.3 | 51.3 | 1597.2 | 2611.8 | 3076.3 |
| 80° | 0.0 | 3.1 | 8.8 | 11.9 | 12.9 | 14.5 | 17.1 | 40.4 | 854.5 | 1492.1 | 1790.9 |
| 82.5° | 0.0 | 0.0 | 6.2 | 9.3 | 8.8 | 9.8 | 12.9 | 25.4 | 385.3 | 975.2 | 1099.0 |
| 85° | 0.0 | 0.0 | 2.1 | 7.3 | 6.2 | 4.7 | 8.8 | 8.8 | 84.4 | 493.6 | 615.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 3.1 | 2.1 | 3.6 | 1.0 | 0.5 | 36.8 | 149.2 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0° | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 | 3561.1 |
| 2.5° | 4025.6 | 4064.0 | 4128.7 | 4159.3 | 4144.2 | 4080.5 | 4004.4 | 3926.7 | 3881.1 | 3899.3 |
| 5° | 4273.2 | 4470.5 | 4584.4 | 4622.3 | 4559.1 | 4416.1 | 4229.2 | 3982.6 | 3895.1 | 3871.3 |
| 7.5° | 4273.2 | 4644.5 | 4879.7 | 4921.1 | 4780.2 | 4500.0 | 4149.4 | 3764.6 | 3636.7 | 3590.1 |
| 10° | 4123.0 | 4628.5 | 4956.3 | 5022.1 | 4825.3 | 4406.3 | 3936.6 | 3497.4 | 3345.6 | 3297.5 |
| 12.5° | 3953.6 | 4498.0 | 4843.4 | 4934.0 | 4772.4 | 4313.1 | 3789.0 | 3316.6 | 3138.0 | 3096.0 |
| 15° | 3849.5 | 4337.4 | 4623.3 | 4689.1 | 4620.7 | 4258.7 | 3753.7 | 3262.3 | 3052.0 | 3011.6 |
| 17.5° | 3886.8 | 4213.1 | 4316.2 | 4354.5 | 4400.6 | 4239.5 | 3849.5 | 3381.4 | 3115.2 | 3076.8 |
| 20° | 4027.2 | 4082.1 | 4028.7 | 4076.9 | 4201.2 | 4258.2 | 4077.9 | 3669.3 | 3349.8 | 3298.5 |
| 22.5° | 4265.4 | 4014.2 | 3864.6 | 3883.7 | 4035.0 | 4319.8 | 4427.0 | 4080.5 | 3711.8 | 3647.6 |
| 25° | 4543.0 | 4069.1 | 3773.4 | 3756.3 | 3911.7 | 4401.1 | 4746.0 | 4528.0 | 4140.1 | 4069.1 |
| 27.5° | 4892.1 | 4192.4 | 3754.8 | 3737.7 | 3868.7 | 4477.2 | 5011.2 | 4970.3 | 4591.2 | 4470.0 |
| 30° | 5161.4 | 4313.6 | 3810.2 | 3770.8 | 3911.7 | 4530.1 | 5224.1 | 5345.8 | 4950.6 | 4870.3 |
| 32.5° | 5354.6 | 4456.5 | 3900.3 | 3843.3 | 4032.9 | 4621.2 | 5388.2 | 5689.6 | 5283.1 | 5161.4 |
| 35° | 5501.6 | 4611.9 | 4045.8 | 3952.1 | 4199.6 | 4759.5 | 5542.0 | 6055.8 | 5636.8 | 5503.7 |
| 37.5° | 5639.4 | 4829.9 | 4273.2 | 4161.3 | 4461.2 | 4982.2 | 5704.7 | 6471.2 | 6032.5 | 5873.5 |
| 40° | 5831.6 | 5077.0 | 4623.8 | 4524.4 | 4900.9 | 5285.7 | 5907.7 | 6904.1 | 6482.6 | 6282.6 |
| 42.5° | 6023.7 | 5342.1 | 4982.7 | 5009.6 | 5449.3 | 5654.4 | 6169.7 | 7361.9 | 6926.9 | 6713.5 |
| 45° | 6199.3 | 5615.6 | 5493.9 | 5618.2 | 5958.4 | 6058.9 | 6430.2 | 7626.6 | 7281.7 | 7075.5 |
| 47.5° | 6355.7 | 5957.4 | 6001.9 | 6332.9 | 6537.4 | 6425.1 | 6625.0 | 7855.0 | 7545.8 | 7364.0 |
| 50° | 6537.4 | 6399.7 | 6671.6 | 7139.8 | 7204.0 | 6756.5 | 6802.1 | 8125.3 | 7854.5 | 7708.4 |
| 52.5° | 6736.3 | 6865.8 | 7413.2 | 7826.0 | 7805.3 | 7116.5 | 6980.3 | 8428.3 | 8277.6 | 8140.3 |
| 55° | 6962.1 | 7242.3 | 8066.3 | 8468.2 | 8450.6 | 7518.4 | 7275.5 | 8802.7 | 8807.9 | 8683.6 |
| 57.5° | 7297.2 | 7566.5 | 8509.6 | 8987.6 | 9017.2 | 7982.4 | 7775.7 | 9222.2 | 9287.5 | 9204.6 |
| 59° | 7537.5 | 7776.8 | 8685.2 | 9204.6 | 9324.8 | 8341.3 | 8141.4 | 9465.7 | 9422.7 | 9347.1 |
| 60° | 7715.7 | 7910.4 | 8772.2 | 9318.1 | 9503.5 | 8584.7 | 8411.2 | 9608.6 | 9438.7 | 9347.1 |
| 62.5° | 8156.4 | 8201.5 | 8929.1 | 9446.5 | 9709.1 | 9125.4 | 9170.5 | 9852.0 | 9327.4 | 9177.7 |
| 65° | 8362.0 | 8385.3 | 8927.0 | 9216.5 | 9510.2 | 9546.4 | 9859.3 | 9859.3 | 9055.5 | 8825.5 |
| 67.5° | 8276.0 | 8163.7 | 8484.2 | 8454.2 | 8747.3 | 9296.3 | 10118.2 | 9497.8 | 8535.5 | 8238.2 |
| 70° | 7576.9 | 7144.4 | 7002.0 | 7015.0 | 7239.2 | 8086.0 | 9605.5 | 8434.0 | 7551.5 | 7204.0 |
| 72.5° | 6304.4 | 5267.0 | 4915.4 | 5316.8 | 5375.3 | 6214.3 | 8185.9 | 6351.5 | 5569.0 | 5243.2 |
| 75° | 5070.8 | 3712.8 | 3141.1 | 3564.7 | 3664.1 | 4547.7 | 6332.4 | 3955.7 | 3252.9 | 2999.2 |
| 77.5° | 3642.9 | 2665.1 | 2253.9 | 2224.4 | 2352.8 | 2884.2 | 4493.3 | 1990.8 | 1660.4 | 1549.6 |
| 80° | 2069.5 | 1754.1 | 1888.8 | 1782.1 | 1846.8 | 1803.3 | 2134.8 | 873.2 | 715.2 | 668.6 |
| 82.5° | 1249.2 | 1036.8 | 1122.8 | 934.8 | 1182.9 | 1030.1 | 822.4 | 279.7 | 242.9 | 231.0 |
| 85° | 812.6 | 566.6 | 295.2 | 197.8 | 407.6 | 658.3 | 183.9 | 76.1 | 58.5 | 46.6 |
| 87.5° | 280.2 | 144.5 | 14.5 | 6.2 | 43.5 | 122.7 | 6.7 | 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 |

(END OF REPORT)