

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: P386622

Luminaire Tested: GAW-SA2B-740-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-740-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8691 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

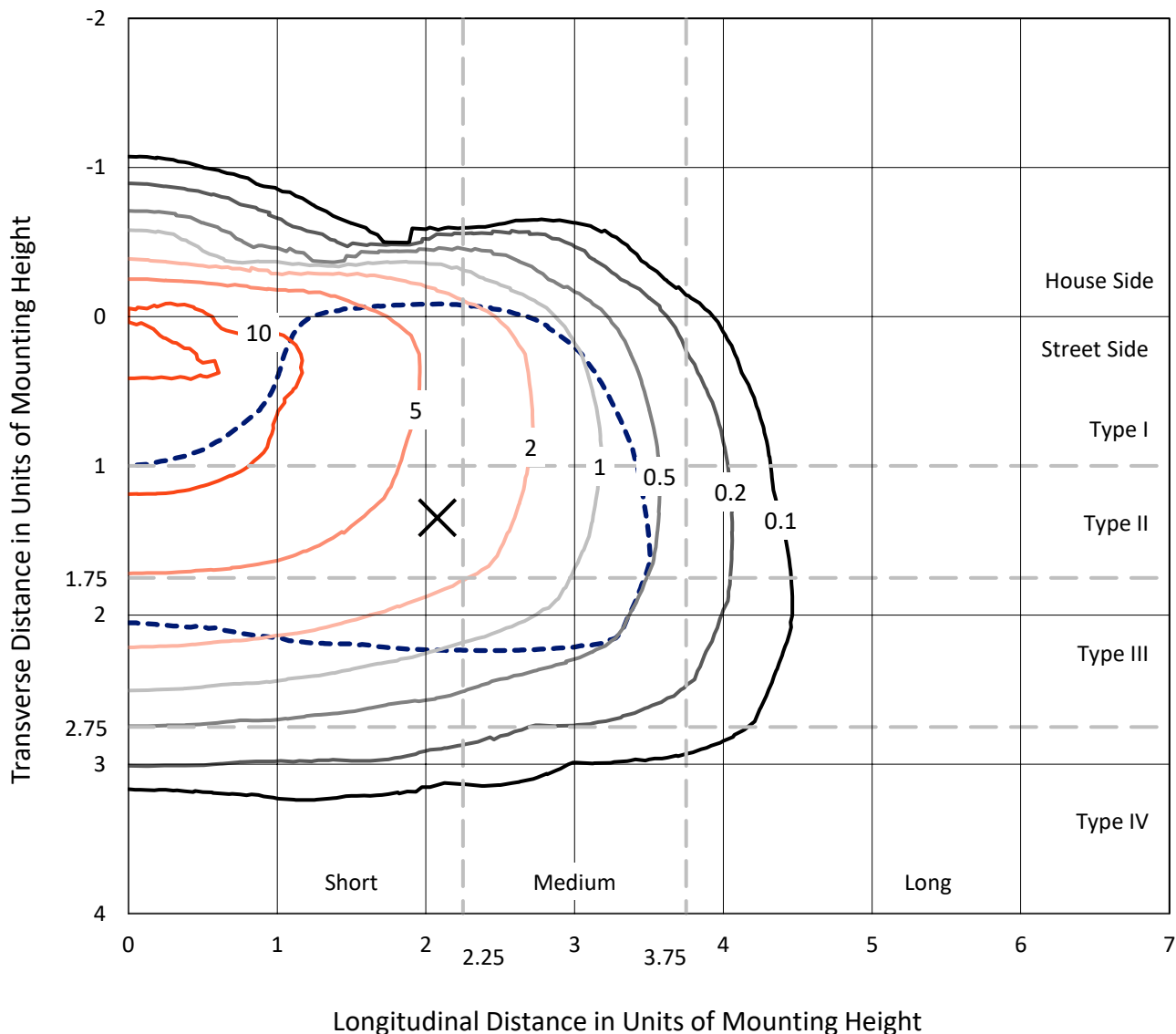
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

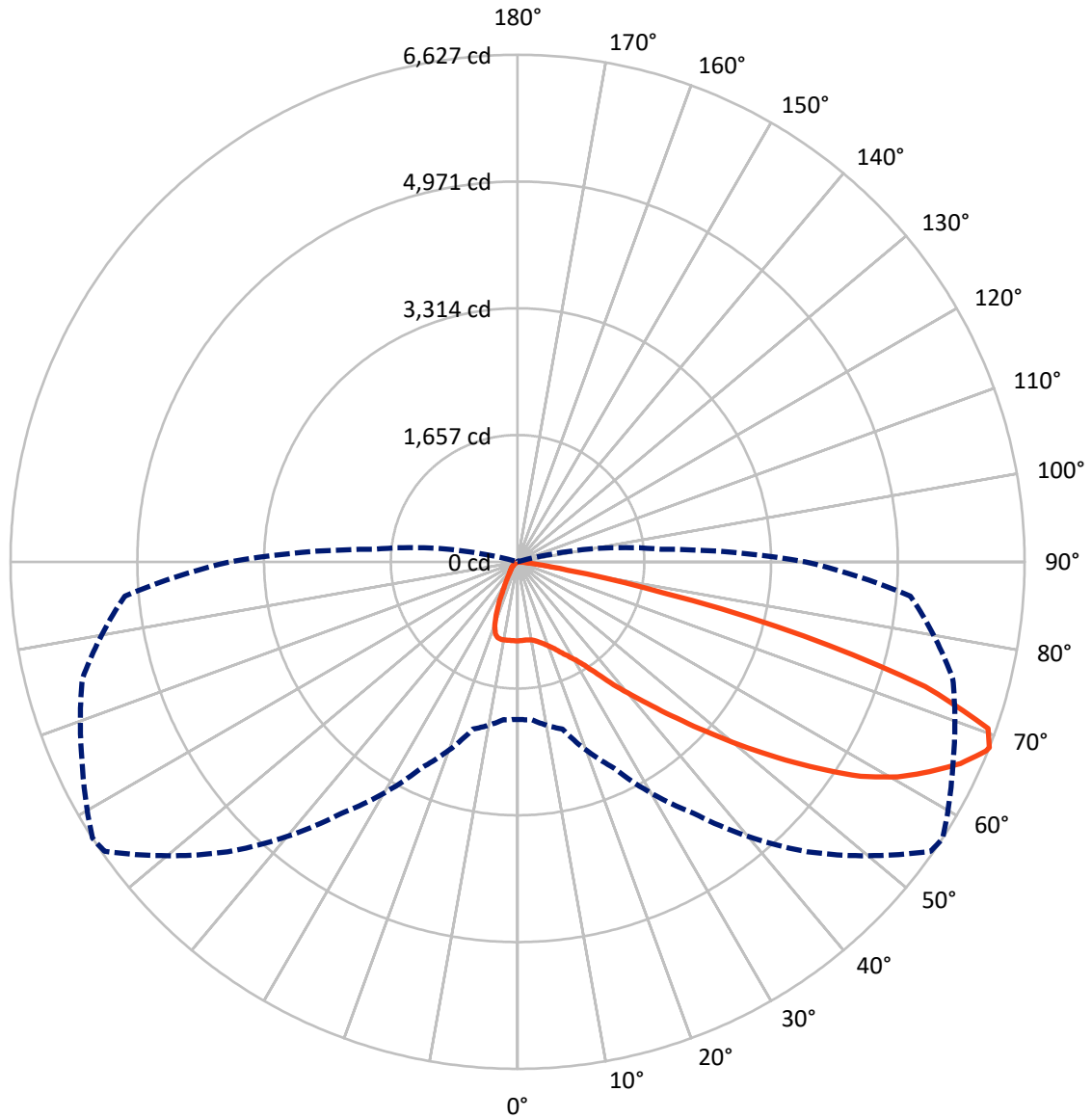
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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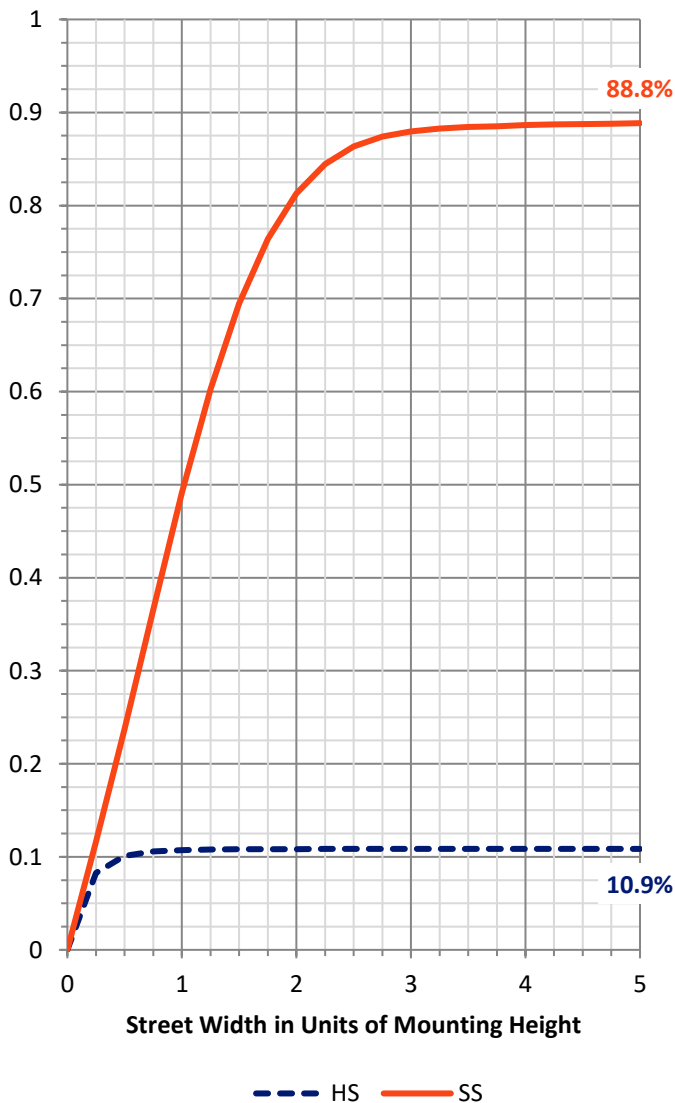
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 953.0 | 0.0 | 953.0 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 7738.0 | 0.0 | 7738.0 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 8691.0 | 0.0 | 8691.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.6 | 1.1 |
| 10°-20° | 267.8 | 3.1 |
| 20°-30° | 462.0 | 5.3 |
| 30°-40° | 797.4 | 9.2 |
| 40°-50° | 1364.0 | 15.7 |
| 50°-60° | 2182.2 | 25.1 |
| 60°-70° | 2521.3 | 29.0 |
| 70°-80° | 963.4 | 11.1 |
| 80°-90° | 36.1 | 0.4 |
| 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° | 8691.0 | 100.0 |
| 0°-180° | 8691.0 | 100.0 |

Coefficient of Utilization



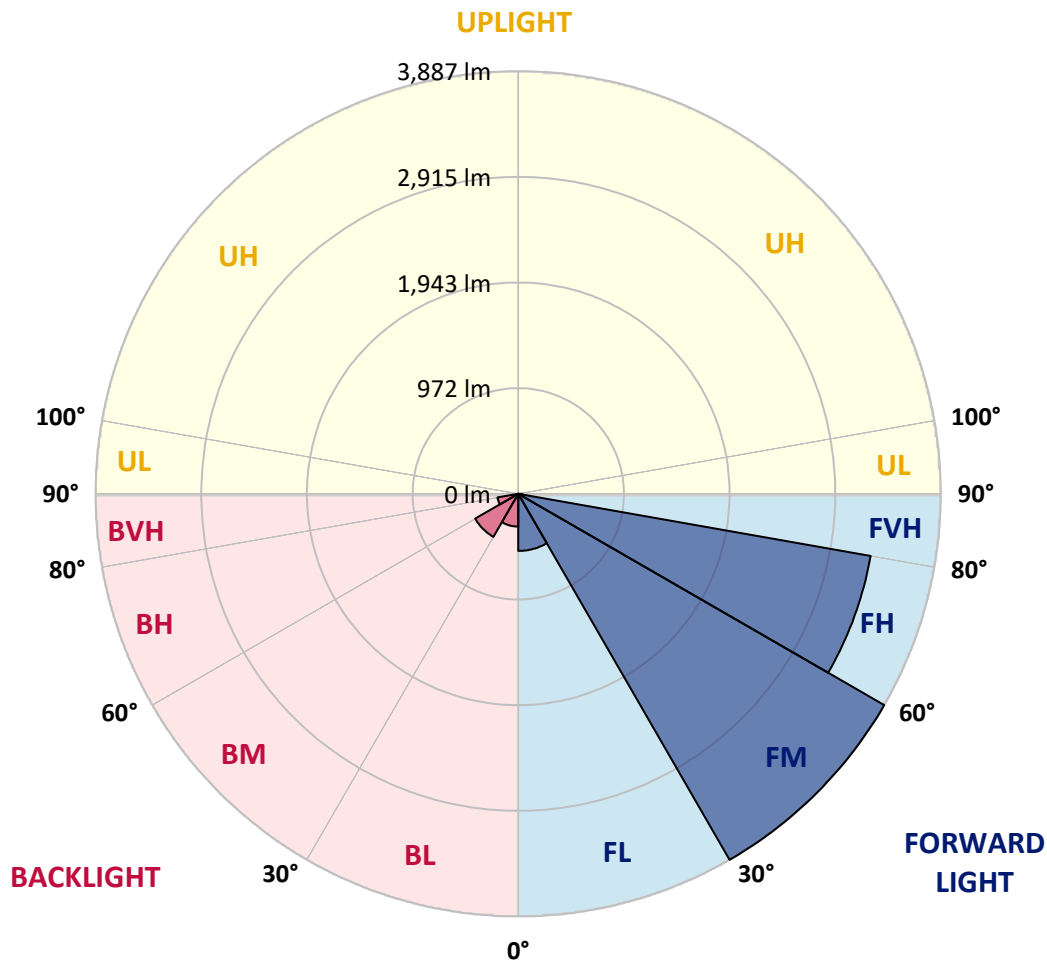
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 525.3 | 6.0 | | | |
| FM (30°-60°) | 3886.5 | 44.7 | | | |
| FH (60°-80°) | 3290.7 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 35.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 301.2 | 3.5 | B1/500 | | |
| BM (30°-60°) | 457.1 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 194.1 | 2.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.7 | 0.0 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 |
| 2.5° | 1008.5 | 1013.0 | 1016.3 | 1018.3 | 1020.8 | 1026.1 | 1027.8 | 1030.3 | 1031.5 | 1031.5 | 1034.4 |
| 5° | 968.6 | 973.5 | 980.5 | 986.3 | 997.8 | 1012.6 | 1023.3 | 1027.4 | 1034.8 | 1041.3 | 1045.0 |
| 7.5° | 931.6 | 937.4 | 945.6 | 959.2 | 978.9 | 1002.7 | 1024.9 | 1030.7 | 1045.0 | 1059.0 | 1066.0 |
| 10° | 907.8 | 912.3 | 923.0 | 942.3 | 968.2 | 1001.5 | 1032.7 | 1039.7 | 1064.4 | 1087.8 | 1100.9 |
| 12.5° | 899.6 | 903.7 | 914.8 | 936.6 | 968.6 | 1007.7 | 1050.8 | 1061.1 | 1097.2 | 1131.3 | 1149.8 |
| 15° | 911.5 | 912.3 | 924.2 | 944.8 | 976.4 | 1022.9 | 1080.8 | 1093.1 | 1138.7 | 1183.1 | 1206.1 |
| 17.5° | 957.5 | 953.8 | 960.0 | 969.0 | 994.1 | 1043.0 | 1112.4 | 1130.9 | 1191.8 | 1243.9 | 1265.7 |
| 20° | 1072.6 | 1072.6 | 1058.6 | 1034.0 | 1034.4 | 1074.2 | 1155.2 | 1176.1 | 1250.5 | 1310.9 | 1330.7 |
| 22.5° | 1269.4 | 1265.7 | 1237.8 | 1177.4 | 1121.9 | 1128.1 | 1207.4 | 1234.5 | 1321.2 | 1385.7 | 1392.3 |
| 25° | 1506.1 | 1501.6 | 1458.5 | 1373.4 | 1277.2 | 1215.2 | 1278.1 | 1309.3 | 1405.5 | 1462.6 | 1449.0 |
| 27.5° | 1756.8 | 1753.1 | 1710.4 | 1604.8 | 1467.9 | 1354.1 | 1362.3 | 1391.9 | 1491.3 | 1547.6 | 1504.5 |
| 30° | 1999.7 | 2000.9 | 1958.6 | 1850.1 | 1695.2 | 1531.2 | 1469.1 | 1486.4 | 1574.8 | 1631.9 | 1570.2 |
| 32.5° | 2230.6 | 2232.3 | 2195.7 | 2074.5 | 1929.8 | 1737.1 | 1617.1 | 1612.6 | 1671.7 | 1728.0 | 1657.4 |
| 35° | 2436.5 | 2440.6 | 2415.6 | 2321.5 | 2168.2 | 1966.4 | 1809.0 | 1798.3 | 1809.4 | 1873.1 | 1790.9 |
| 37.5° | 2635.0 | 2637.5 | 2618.6 | 2539.3 | 2411.0 | 2218.3 | 2051.5 | 2036.3 | 2012.4 | 2061.3 | 1967.2 |
| 40° | 2852.4 | 2846.2 | 2824.5 | 2752.5 | 2642.4 | 2496.5 | 2312.0 | 2285.7 | 2244.2 | 2287.8 | 2199.0 |
| 42.5° | 3054.6 | 3047.6 | 3051.3 | 2969.9 | 2877.1 | 2782.5 | 2615.7 | 2570.5 | 2546.3 | 2596.4 | 2483.4 |
| 45° | 3307.3 | 3303.6 | 3316.0 | 3245.3 | 3170.1 | 3101.4 | 2963.8 | 2914.5 | 2903.8 | 2962.5 | 2827.3 |
| 47.5° | 3556.8 | 3565.8 | 3604.0 | 3574.0 | 3543.6 | 3483.2 | 3332.4 | 3310.2 | 3316.8 | 3387.9 | 3190.2 |
| 50° | 3764.7 | 3775.4 | 3880.2 | 3914.7 | 3958.7 | 3923.3 | 3772.1 | 3758.6 | 3784.4 | 3848.6 | 3580.6 |
| 52.5° | 3915.1 | 3936.9 | 4067.2 | 4226.2 | 4386.5 | 4410.3 | 4259.5 | 4247.2 | 4282.1 | 4292.0 | 3882.3 |
| 55° | 4019.5 | 4038.8 | 4186.4 | 4477.3 | 4803.6 | 4906.3 | 4812.6 | 4765.0 | 4758.4 | 4661.0 | 4199.5 |
| 57.5° | 4038.0 | 4036.0 | 4248.0 | 4639.6 | 5130.7 | 5395.8 | 5336.6 | 5289.8 | 5155.0 | 5002.1 | 4563.2 |
| 60° | 3933.6 | 3945.5 | 4191.7 | 4695.9 | 5336.2 | 5766.1 | 5770.6 | 5709.8 | 5499.8 | 5333.7 | 4915.8 |
| 62.5° | 3612.3 | 3660.8 | 3909.4 | 4548.4 | 5333.7 | 5915.2 | 6088.7 | 6042.2 | 5791.1 | 5605.4 | 5273.3 |
| 65° | 3091.2 | 3108.4 | 3345.6 | 4042.9 | 4973.3 | 5852.8 | 6375.1 | 6357.8 | 6053.7 | 5869.2 | 5457.0 |
| 67.5° | 2257.4 | 2220.0 | 2469.0 | 3183.6 | 4210.6 | 5488.7 | 6580.6 | 6602.3 | 6256.3 | 5923.4 | 5261.4 |
| 68° | 2060.1 | 2071.2 | 2265.2 | 2971.2 | 4010.9 | 5360.0 | 6594.1 | 6627.4 | 6276.5 | 5888.1 | 5154.6 |
| 70° | 1227.9 | 1249.3 | 1422.3 | 2045.7 | 3051.3 | 4632.2 | 6447.8 | 6523.8 | 6156.5 | 5523.6 | 4458.4 |
| 72.5° | 313.6 | 339.0 | 502.6 | 915.6 | 1742.8 | 3263.8 | 5443.0 | 5571.7 | 5345.2 | 4481.0 | 3009.8 |
| 75° | 129.0 | 135.6 | 179.6 | 301.6 | 649.3 | 1470.4 | 3587.6 | 3862.9 | 3705.5 | 2682.7 | 1360.2 |
| 77.5° | 89.2 | 93.7 | 115.5 | 167.3 | 281.1 | 498.5 | 1758.9 | 1957.8 | 1763.8 | 915.6 | 296.7 |
| 80° | 64.1 | 67.8 | 82.6 | 111.4 | 161.5 | 177.9 | 573.3 | 662.9 | 526.4 | 201.0 | 73.6 |
| 82.5° | 38.2 | 41.1 | 61.6 | 79.3 | 98.2 | 85.1 | 142.6 | 161.9 | 152.5 | 99.9 | 32.9 |
| 85° | 18.9 | 22.2 | 41.5 | 56.7 | 53.0 | 35.8 | 43.6 | 48.5 | 60.0 | 60.8 | 17.7 |
| 87.5° | 1.2 | 2.5 | 24.2 | 34.1 | 14.8 | 8.2 | 12.7 | 15.6 | 21.4 | 30.0 | 7.4 |
| 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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CATALOG NUMBER: GAW-SA2B-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 | 1032.7 |
| 2.5° | 1035.6 | 1036.0 | 1033.1 | 1031.9 | 1032.7 | 1027.8 | 1025.7 | 1026.6 | 1026.6 | 1027.8 | 1025.7 |
| 5° | 1045.9 | 1045.9 | 1040.9 | 1034.4 | 1030.7 | 1021.2 | 1015.0 | 1013.4 | 1012.2 | 1011.4 | 1009.7 |
| 7.5° | 1068.1 | 1065.6 | 1057.0 | 1042.6 | 1030.3 | 1009.7 | 994.1 | 985.9 | 981.8 | 980.1 | 978.9 |
| 10° | 1103.8 | 1099.3 | 1084.9 | 1058.2 | 1029.8 | 993.3 | 959.2 | 934.9 | 914.8 | 906.6 | 901.6 |
| 12.5° | 1151.9 | 1145.3 | 1121.1 | 1076.7 | 1027.0 | 959.6 | 885.6 | 814.5 | 748.3 | 721.2 | 707.7 |
| 15° | 1207.4 | 1197.9 | 1159.7 | 1092.3 | 1010.1 | 883.5 | 722.9 | 598.3 | 506.7 | 472.2 | 457.4 |
| 17.5° | 1263.7 | 1251.3 | 1193.4 | 1102.2 | 959.6 | 726.2 | 507.1 | 383.0 | 321.8 | 305.3 | 299.6 |
| 20° | 1320.4 | 1302.3 | 1222.6 | 1094.8 | 845.3 | 523.6 | 334.5 | 279.9 | 262.2 | 257.3 | 255.6 |
| 22.5° | 1374.2 | 1346.3 | 1248.9 | 1066.0 | 669.4 | 351.4 | 264.7 | 247.4 | 241.6 | 238.8 | 237.9 |
| 25° | 1421.1 | 1382.0 | 1271.9 | 977.2 | 473.8 | 265.5 | 238.4 | 232.6 | 225.2 | 219.9 | 220.3 |
| 27.5° | 1465.0 | 1417.8 | 1285.9 | 830.9 | 316.0 | 226.8 | 220.7 | 212.9 | 199.3 | 191.5 | 191.5 |
| 30° | 1518.1 | 1465.5 | 1296.1 | 639.4 | 232.6 | 200.5 | 195.6 | 183.7 | 165.2 | 154.9 | 154.9 |
| 32.5° | 1597.8 | 1537.8 | 1289.6 | 448.8 | 192.7 | 176.3 | 164.8 | 148.4 | 128.2 | 118.4 | 117.9 |
| 35° | 1719.8 | 1649.6 | 1242.7 | 294.2 | 170.1 | 153.3 | 134.8 | 114.7 | 97.0 | 88.8 | 88.4 |
| 37.5° | 1884.2 | 1799.1 | 1137.5 | 210.4 | 152.5 | 131.9 | 109.7 | 87.5 | 74.4 | 69.0 | 68.6 |
| 40° | 2097.5 | 1973.0 | 987.1 | 170.5 | 136.0 | 111.4 | 84.7 | 67.8 | 58.8 | 54.7 | 55.1 |
| 42.5° | 2353.5 | 2159.1 | 806.7 | 147.1 | 120.0 | 91.6 | 66.2 | 53.4 | 47.7 | 44.8 | 44.0 |
| 45° | 2637.9 | 2342.8 | 617.7 | 131.1 | 104.0 | 74.0 | 51.8 | 42.3 | 37.8 | 36.2 | 36.2 |
| 47.5° | 2950.6 | 2521.6 | 452.0 | 117.1 | 86.7 | 57.1 | 41.5 | 34.5 | 30.8 | 29.6 | 29.2 |
| 50° | 3234.6 | 2645.7 | 325.9 | 102.3 | 71.1 | 45.2 | 33.7 | 28.8 | 26.3 | 24.7 | 24.7 |
| 52.5° | 3471.3 | 2684.7 | 240.0 | 86.3 | 57.5 | 36.2 | 27.9 | 24.7 | 22.2 | 21.0 | 21.0 |
| 55° | 3679.7 | 2668.7 | 178.4 | 71.1 | 46.4 | 29.6 | 23.8 | 21.0 | 18.9 | 17.7 | 17.7 |
| 57.5° | 3879.4 | 2616.9 | 133.1 | 57.9 | 37.4 | 23.8 | 20.1 | 17.7 | 15.6 | 14.8 | 14.8 |
| 60° | 4042.5 | 2530.6 | 99.0 | 46.8 | 30.0 | 19.3 | 16.8 | 14.4 | 12.7 | 11.5 | 11.5 |
| 62.5° | 4174.9 | 2435.3 | 72.7 | 38.6 | 23.8 | 15.2 | 13.2 | 11.9 | 9.5 | 8.2 | 8.2 |
| 65° | 4175.7 | 2277.1 | 54.7 | 32.1 | 18.5 | 11.9 | 9.9 | 9.5 | 6.2 | 4.9 | 4.5 |
| 67.5° | 3873.6 | 1963.1 | 41.9 | 27.5 | 14.4 | 9.0 | 7.4 | 7.8 | 3.3 | 2.1 | 1.6 |
| 68° | 3763.9 | 1883.4 | 39.5 | 27.1 | 13.6 | 8.6 | 7.0 | 7.8 | 2.9 | 1.6 | 1.2 |
| 70° | 3173.4 | 1498.3 | 31.6 | 26.3 | 11.9 | 6.6 | 5.8 | 7.8 | 2.5 | 1.2 | 0.8 |
| 72.5° | 2029.7 | 869.6 | 23.4 | 21.0 | 9.0 | 4.9 | 3.7 | 7.0 | 2.5 | 0.8 | 0.4 |
| 75° | 863.8 | 269.6 | 16.0 | 14.8 | 5.3 | 3.7 | 2.5 | 4.5 | 1.6 | 0.4 | 0.0 |
| 77.5° | 182.1 | 60.8 | 9.5 | 9.0 | 3.7 | 2.5 | 1.6 | 1.2 | 0.4 | 0.0 | 0.0 |
| 80° | 46.8 | 17.7 | 4.9 | 4.5 | 2.1 | 1.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.8 | 7.0 | 2.9 | 2.1 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 7.4 | 4.1 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.1 | 1.2 | 0.4 | 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 |

(END OF REPORT)