

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: P322836

Luminaire Tested: **GAN-SA2B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7718 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

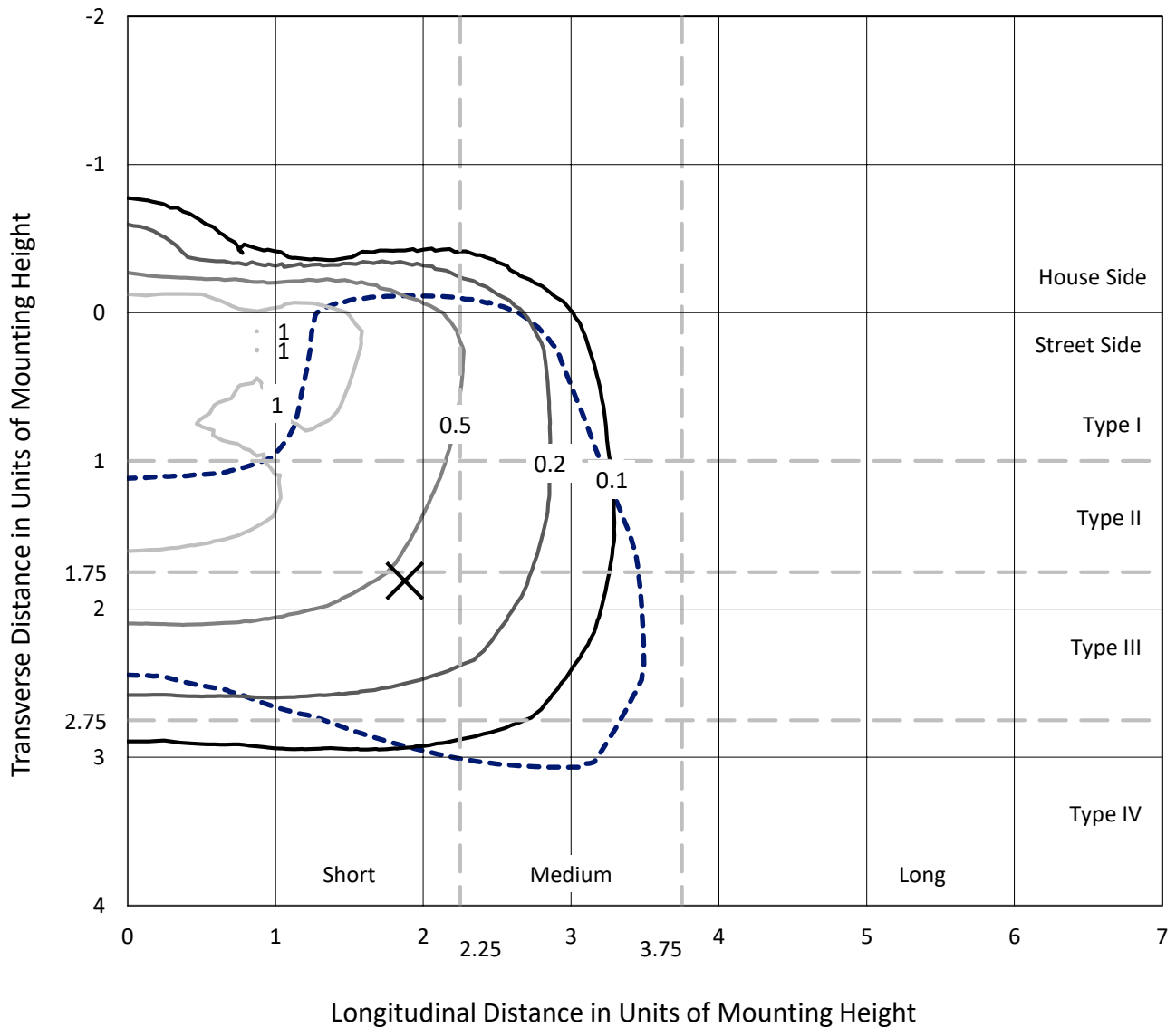
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322836
 CATALOG NUMBER: GAN-SA2B-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

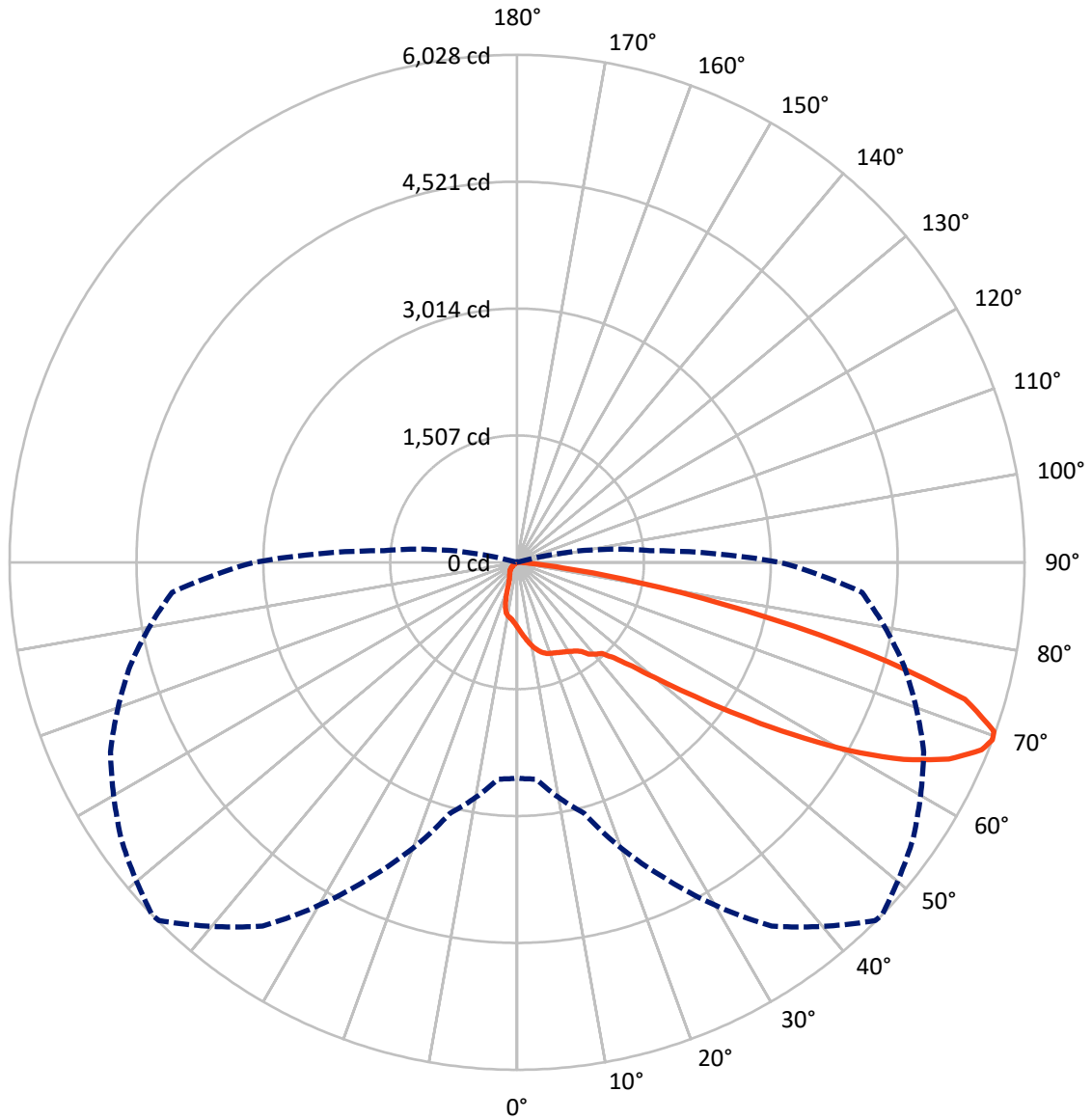
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P322836
CATALOG NUMBER: GAN-SA2B-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P322836
 CATALOG NUMBER: GAN-SA2B-730-U-T4W-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 792.1 | 0.0 | 792.1 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 6925.9 | 0.0 | 6925.9 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 7718.0 | 0.0 | 7718.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.0 | 1.0 |
| 10°-20° | 233.5 | 3.0 |
| 20°-30° | 367.2 | 4.8 |
| 30°-40° | 526.6 | 6.8 |
| 40°-50° | 910.2 | 11.8 |
| 50°-60° | 1798.2 | 23.3 |
| 60°-70° | 2513.1 | 32.6 |
| 70°-80° | 1214.1 | 15.7 |
| 80°-90° | 78.0 | 1.0 |
| 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° | 7718.0 | 100.0 |
| 0°-180° | 7718.0 | 100.0 |

Coefficient of Utilization

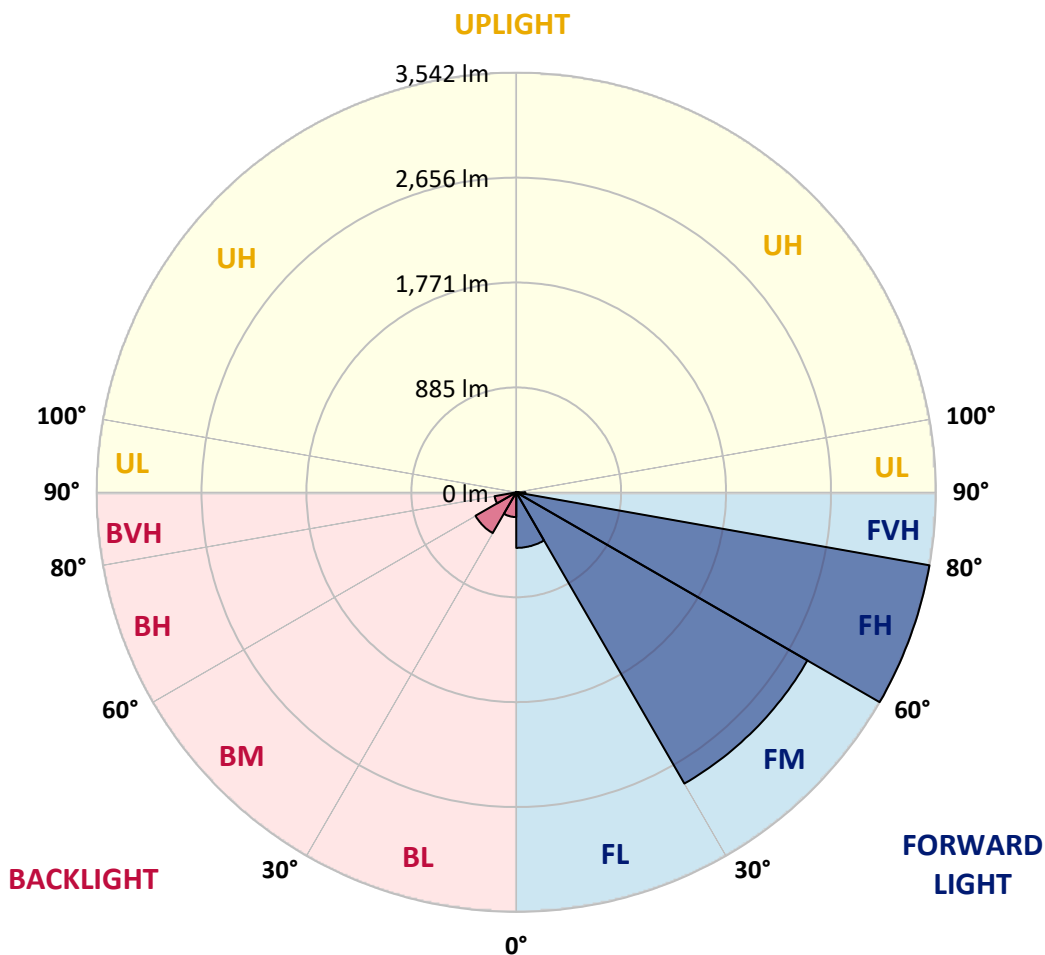


REPORT NUMBER: P322836
 CATALOG NUMBER: GAN-SA2B-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 469.0 | 6.1 | | | |
| FM (30°-60°) | 2838.1 | 36.8 | | | |
| FH (60°-80°) | 3541.5 | 45.9 | | | G2/5000 |
| FVH (80°-90°) | 77.4 | 1.0 | | | G1/100 |
| BL (0°-30°) | 208.8 | 2.7 | B1/500 | | |
| BM (30°-60°) | 396.9 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 185.7 | 2.4 | 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 IV Short





REPORT NUMBER: P322836

CATALOG NUMBER: GAN-SA2B-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 |
| 2.5° | 859.1 | 858.0 | 852.9 | 850.8 | 838.5 | 831.2 | 828.3 | 819.3 | 806.2 | 793.2 | 778.7 |
| 5° | 956.8 | 956.4 | 947.0 | 938.0 | 914.8 | 893.1 | 889.1 | 868.1 | 838.8 | 811.3 | 783.8 |
| 7.5° | 1056.7 | 1052.0 | 1042.5 | 1025.2 | 991.5 | 956.8 | 953.5 | 923.9 | 882.2 | 842.4 | 803.0 |
| 10° | 1141.3 | 1138.4 | 1126.1 | 1099.7 | 1060.3 | 1020.8 | 1016.9 | 980.3 | 933.3 | 884.4 | 834.1 |
| 12.5° | 1207.2 | 1205.0 | 1188.7 | 1155.8 | 1113.8 | 1072.9 | 1067.5 | 1034.9 | 984.6 | 930.0 | 870.7 |
| 15° | 1247.4 | 1246.3 | 1226.4 | 1191.3 | 1150.0 | 1114.6 | 1109.9 | 1081.3 | 1034.6 | 977.4 | 910.5 |
| 17.5° | 1256.8 | 1257.1 | 1236.5 | 1201.0 | 1167.0 | 1141.7 | 1138.1 | 1116.4 | 1077.3 | 1020.5 | 950.3 |
| 20° | 1235.8 | 1240.1 | 1221.7 | 1190.9 | 1169.9 | 1156.5 | 1153.6 | 1140.6 | 1107.7 | 1054.1 | 982.1 |
| 22.5° | 1206.1 | 1208.3 | 1195.6 | 1175.0 | 1166.3 | 1168.8 | 1167.4 | 1160.2 | 1132.3 | 1083.1 | 1013.6 |
| 25° | 1188.0 | 1188.0 | 1180.4 | 1163.0 | 1168.8 | 1184.4 | 1184.8 | 1183.3 | 1161.2 | 1118.5 | 1052.0 |
| 27.5° | 1187.3 | 1185.1 | 1176.4 | 1163.4 | 1179.3 | 1203.2 | 1204.7 | 1214.4 | 1200.7 | 1161.6 | 1099.7 |
| 30° | 1216.2 | 1213.7 | 1195.3 | 1178.2 | 1198.5 | 1224.2 | 1227.8 | 1249.2 | 1242.3 | 1208.3 | 1152.9 |
| 32.5° | 1283.9 | 1274.9 | 1234.0 | 1206.1 | 1221.3 | 1252.1 | 1256.8 | 1290.8 | 1301.6 | 1265.8 | 1204.3 |
| 35° | 1376.6 | 1348.0 | 1289.0 | 1258.9 | 1260.4 | 1292.6 | 1296.9 | 1346.9 | 1379.1 | 1318.7 | 1244.1 |
| 37.5° | 1504.3 | 1490.2 | 1394.3 | 1313.9 | 1320.5 | 1369.3 | 1382.0 | 1436.3 | 1427.2 | 1347.6 | 1289.3 |
| 40° | 1784.4 | 1762.3 | 1660.3 | 1468.1 | 1378.0 | 1431.6 | 1435.5 | 1464.5 | 1465.2 | 1413.1 | 1383.4 |
| 42.5° | 2165.8 | 2156.7 | 2049.3 | 1747.8 | 1491.3 | 1473.2 | 1480.4 | 1529.3 | 1583.9 | 1551.3 | 1549.9 |
| 45° | 2588.1 | 2583.4 | 2469.4 | 2119.1 | 1720.3 | 1609.6 | 1618.6 | 1684.1 | 1788.7 | 1796.0 | 1841.9 |
| 47.5° | 2927.9 | 2925.7 | 2860.2 | 2533.4 | 2071.0 | 1840.8 | 1843.7 | 1913.2 | 2097.0 | 2187.9 | 2261.3 |
| 50° | 3237.6 | 3248.1 | 3196.4 | 2981.8 | 2548.6 | 2203.1 | 2196.2 | 2242.5 | 2537.8 | 2686.5 | 2777.7 |
| 52.5° | 3668.3 | 3683.1 | 3538.0 | 3400.1 | 3049.8 | 2652.5 | 2647.1 | 2695.6 | 3067.6 | 3179.0 | 3195.3 |
| 55° | 4048.6 | 4023.3 | 3908.6 | 3868.7 | 3661.0 | 3207.6 | 3206.2 | 3248.9 | 3580.0 | 3627.4 | 3657.4 |
| 57.5° | 4216.5 | 4206.7 | 4262.1 | 4353.3 | 4301.2 | 3863.7 | 3860.4 | 3827.9 | 4038.5 | 4043.5 | 4135.8 |
| 60° | 4322.5 | 4334.5 | 4504.2 | 4785.4 | 4915.3 | 4569.7 | 4548.7 | 4350.0 | 4476.3 | 4465.1 | 4563.9 |
| 62.5° | 4242.9 | 4266.4 | 4571.9 | 5040.5 | 5374.8 | 5185.9 | 5156.3 | 4828.4 | 4850.5 | 4811.8 | 4903.7 |
| 65° | 3820.3 | 3856.8 | 4357.3 | 4992.3 | 5602.8 | 5667.6 | 5637.6 | 5250.7 | 5147.6 | 5083.9 | 5032.9 |
| 67.5° | 3101.9 | 3123.7 | 3646.2 | 4573.7 | 5500.1 | 5954.9 | 5948.8 | 5620.9 | 5372.0 | 5037.9 | 4642.1 |
| 69° | 2563.5 | 2584.8 | 3087.8 | 4132.9 | 5273.9 | 6016.4 | 6028.4 | 5739.6 | 5329.2 | 4758.6 | 4113.0 |
| 70° | 2171.2 | 2194.0 | 2662.6 | 3755.1 | 5011.5 | 5987.9 | 6009.2 | 5728.4 | 5206.9 | 4435.1 | 3648.7 |
| 72.5° | 1138.8 | 1158.3 | 1639.3 | 2587.0 | 4085.5 | 5498.2 | 5563.0 | 5244.2 | 4413.7 | 3221.0 | 2157.5 |
| 75° | 357.9 | 369.1 | 640.1 | 1352.3 | 2797.2 | 4275.1 | 4290.0 | 4113.7 | 3134.2 | 1771.7 | 898.5 |
| 77.5° | 136.4 | 133.2 | 213.1 | 498.3 | 1414.2 | 2691.9 | 2782.8 | 2570.7 | 1644.7 | 626.4 | 207.4 |
| 80° | 73.5 | 73.8 | 110.7 | 206.3 | 605.0 | 1383.4 | 1460.1 | 1245.9 | 584.4 | 195.4 | 47.8 |
| 82.5° | 31.8 | 33.3 | 62.2 | 109.3 | 277.9 | 510.2 | 548.6 | 456.7 | 223.3 | 131.4 | 17.7 |
| 85° | 6.9 | 7.6 | 30.0 | 59.3 | 113.3 | 143.3 | 150.2 | 148.0 | 142.2 | 102.0 | 6.9 |
| 87.5° | 0.0 | 0.0 | 13.4 | 21.4 | 28.6 | 32.6 | 28.6 | 37.3 | 78.5 | 68.8 | 3.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P322836

CATALOG NUMBER: GAN-SA2B-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 | 773.3 |
| 2.5° | 774.0 | 767.5 | 756.3 | 744.0 | 735.3 | 726.3 | 719.0 | 715.8 | 712.2 | 709.6 | 712.9 |
| 5° | 772.6 | 759.9 | 738.2 | 717.2 | 702.0 | 689.7 | 679.6 | 675.6 | 671.6 | 668.7 | 668.4 |
| 7.5° | 785.3 | 767.5 | 734.2 | 703.5 | 680.0 | 663.3 | 649.6 | 643.8 | 639.1 | 636.9 | 635.1 |
| 10° | 809.5 | 786.7 | 742.2 | 702.0 | 671.6 | 643.4 | 613.7 | 590.9 | 576.1 | 569.2 | 566.7 |
| 12.5° | 841.0 | 812.4 | 757.4 | 709.6 | 665.5 | 611.2 | 548.2 | 494.0 | 458.9 | 447.3 | 440.4 |
| 15° | 877.9 | 842.4 | 777.3 | 719.4 | 643.0 | 543.9 | 437.1 | 366.2 | 333.6 | 327.1 | 319.9 |
| 17.5° | 913.4 | 874.3 | 801.2 | 721.2 | 593.8 | 434.6 | 320.3 | 272.1 | 259.5 | 263.8 | 264.9 |
| 20° | 944.5 | 905.8 | 824.7 | 705.3 | 504.4 | 326.0 | 247.9 | 235.9 | 240.6 | 249.0 | 250.4 |
| 22.5° | 976.0 | 936.2 | 846.4 | 663.3 | 390.1 | 247.5 | 223.3 | 226.2 | 230.9 | 239.2 | 240.6 |
| 25° | 1014.3 | 973.1 | 866.7 | 586.2 | 292.8 | 210.6 | 212.1 | 216.4 | 221.1 | 228.7 | 229.4 |
| 27.5° | 1058.5 | 1019.7 | 880.1 | 486.0 | 217.1 | 193.6 | 198.3 | 204.8 | 209.5 | 216.8 | 218.2 |
| 30° | 1117.1 | 1081.3 | 884.4 | 382.1 | 182.0 | 178.4 | 180.6 | 188.5 | 195.4 | 201.9 | 203.0 |
| 32.5° | 1172.1 | 1142.1 | 869.9 | 288.4 | 168.6 | 164.3 | 164.3 | 169.0 | 177.0 | 183.1 | 184.6 |
| 35° | 1222.8 | 1203.2 | 823.6 | 211.0 | 158.5 | 151.3 | 147.6 | 147.6 | 152.7 | 157.8 | 159.2 |
| 37.5° | 1289.7 | 1289.0 | 748.7 | 168.3 | 148.7 | 140.4 | 132.8 | 127.0 | 125.2 | 126.3 | 127.0 |
| 40° | 1404.4 | 1405.5 | 651.0 | 150.9 | 140.4 | 129.2 | 117.6 | 107.1 | 97.3 | 94.1 | 93.7 |
| 42.5° | 1583.5 | 1567.3 | 548.6 | 142.6 | 133.2 | 117.6 | 100.2 | 86.1 | 70.9 | 66.2 | 65.9 |
| 45° | 1868.0 | 1771.4 | 440.0 | 135.0 | 125.6 | 104.6 | 82.9 | 63.7 | 51.4 | 47.8 | 47.8 |
| 47.5° | 2282.3 | 2039.5 | 340.9 | 126.7 | 115.4 | 89.7 | 62.6 | 46.0 | 37.6 | 35.8 | 36.2 |
| 50° | 2710.8 | 2302.2 | 261.3 | 116.2 | 103.1 | 74.2 | 46.3 | 33.3 | 28.6 | 28.6 | 28.9 |
| 52.5° | 3090.7 | 2494.7 | 203.7 | 104.9 | 87.9 | 58.3 | 35.1 | 26.1 | 23.9 | 23.5 | 23.9 |
| 55° | 3446.4 | 2618.8 | 156.0 | 91.9 | 69.8 | 43.4 | 26.8 | 21.4 | 19.9 | 19.2 | 18.8 |
| 57.5° | 3789.5 | 2680.4 | 116.9 | 74.2 | 50.7 | 31.5 | 21.4 | 18.1 | 16.6 | 15.6 | 15.2 |
| 60° | 4017.8 | 2630.4 | 80.3 | 54.6 | 35.1 | 22.8 | 17.7 | 15.6 | 13.8 | 12.7 | 12.3 |
| 62.5° | 4146.7 | 2494.0 | 51.7 | 39.4 | 25.0 | 17.0 | 14.1 | 13.0 | 10.5 | 9.4 | 9.4 |
| 65° | 4094.6 | 2268.9 | 36.2 | 28.2 | 18.1 | 12.7 | 10.5 | 10.5 | 7.6 | 6.2 | 5.8 |
| 67.5° | 3628.5 | 1916.8 | 27.5 | 21.0 | 13.0 | 9.4 | 8.0 | 9.0 | 4.7 | 2.9 | 2.9 |
| 69° | 3121.8 | 1588.6 | 23.5 | 17.4 | 10.9 | 7.6 | 6.9 | 8.3 | 3.3 | 2.2 | 1.8 |
| 70° | 2713.3 | 1370.4 | 21.4 | 15.2 | 9.0 | 6.5 | 6.2 | 8.0 | 3.3 | 1.8 | 1.4 |
| 72.5° | 1623.3 | 764.3 | 16.3 | 10.9 | 5.8 | 5.1 | 5.1 | 9.0 | 3.3 | 1.8 | 1.4 |
| 75° | 656.1 | 269.2 | 11.9 | 7.6 | 4.3 | 4.3 | 6.2 | 11.6 | 2.9 | 1.4 | 1.1 |
| 77.5° | 148.7 | 59.0 | 6.9 | 4.7 | 2.9 | 4.3 | 7.2 | 9.0 | 1.8 | 0.7 | 0.0 |
| 80° | 36.2 | 14.5 | 4.3 | 2.9 | 1.8 | 3.3 | 5.4 | 5.1 | 0.4 | 0.0 | 0.0 |
| 82.5° | 11.9 | 5.1 | 1.8 | 1.4 | 0.4 | 1.1 | 2.5 | 1.4 | 0.0 | 0.0 | 0.0 |
| 85° | 5.1 | 2.9 | 0.7 | 0.4 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.3 | 1.1 | 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 |

(END OF REPORT)