

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: McGRAW-EDISON

Report Number: P652285

Luminaire Tested: **GALN-SA3B-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10639.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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

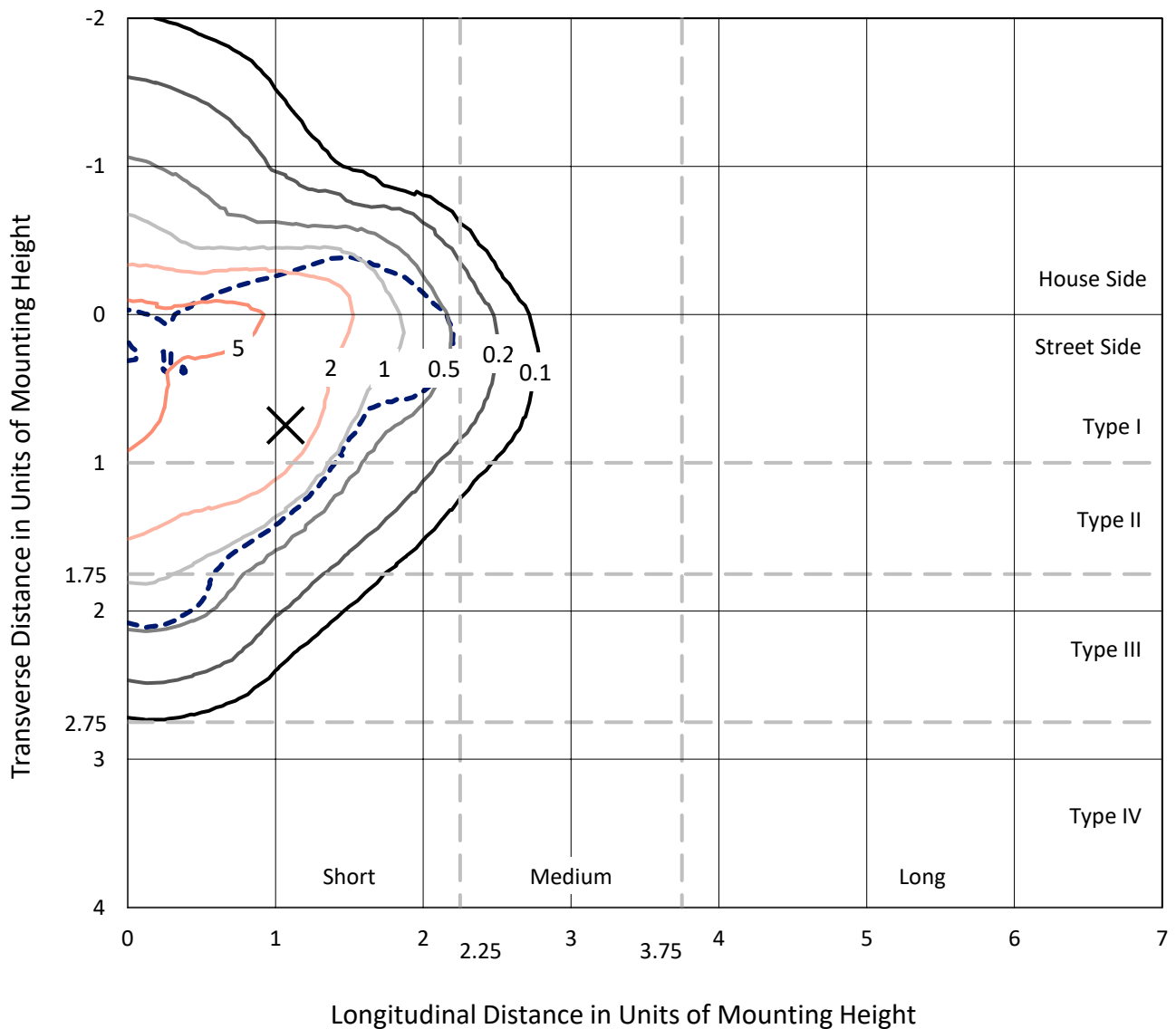




REPORT NUMBER: P652285
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Iso-Footcandle Lines of Horizontal Illumination

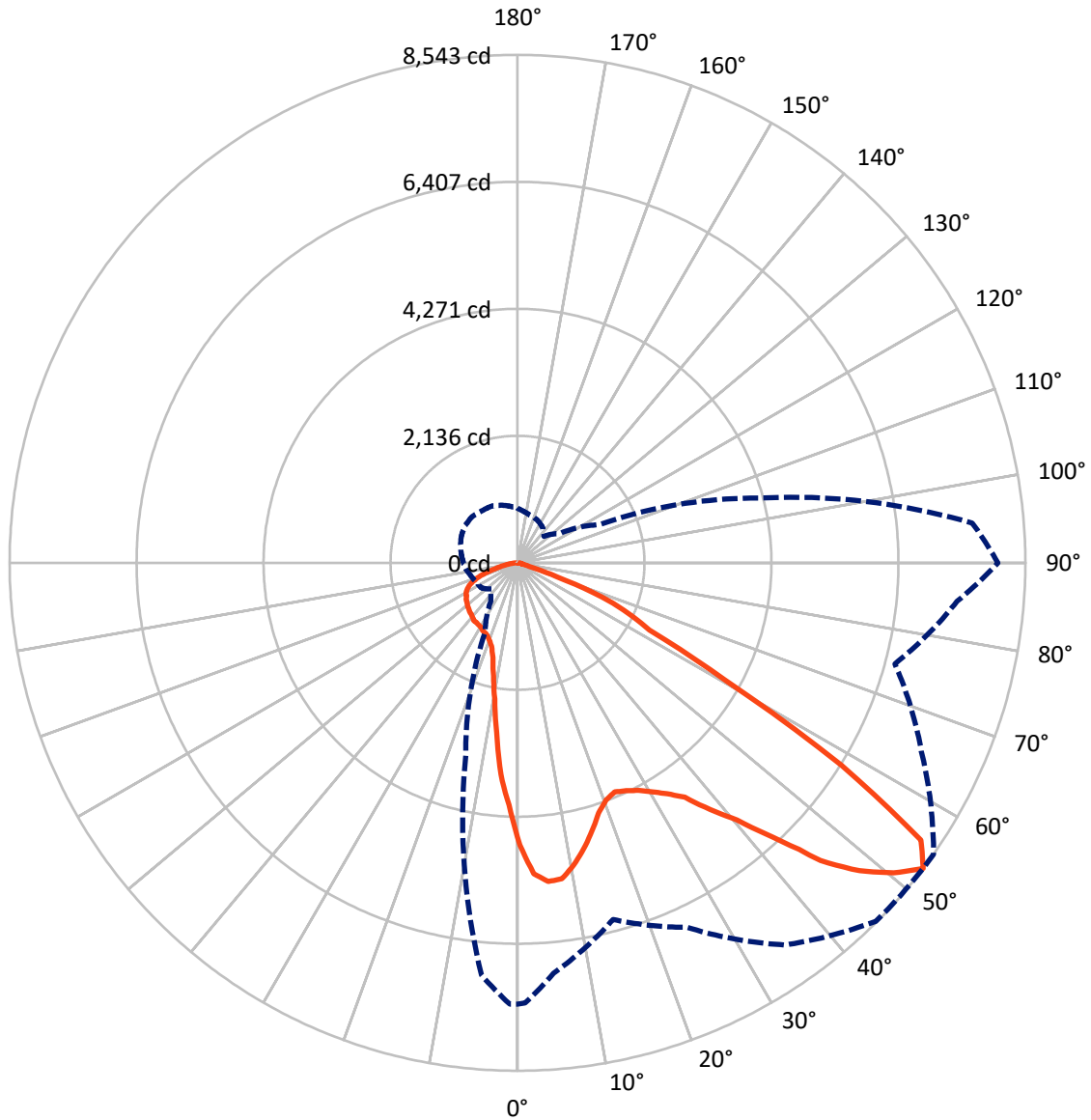
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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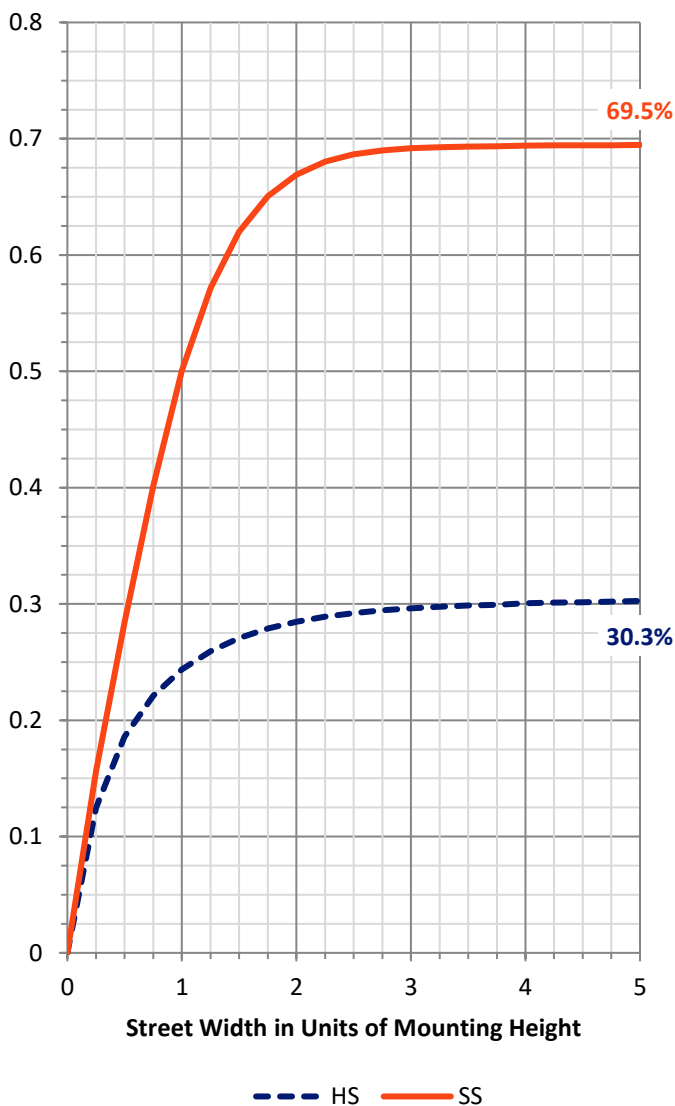
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3245.6 | 0.0 | 3245.6 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 7393.9 | 0.0 | 7393.9 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 10639.5 | 0.0 | 10639.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 362.6 | 3.4 |
| 10°-20° | 781.8 | 7.3 |
| 20°-30° | 1185.4 | 11.1 |
| 30°-40° | 1712.8 | 16.1 |
| 40°-50° | 2288.8 | 21.5 |
| 50°-60° | 2554.7 | 24.0 |
| 60°-70° | 1401.4 | 13.2 |
| 70°-80° | 303.0 | 2.8 |
| 80°-90° | 49.0 | 0.5 |
| 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° | 10639.5 | 100.0 |
| 0°-180° | 10639.5 | 100.0 |

Coefficient of Utilization

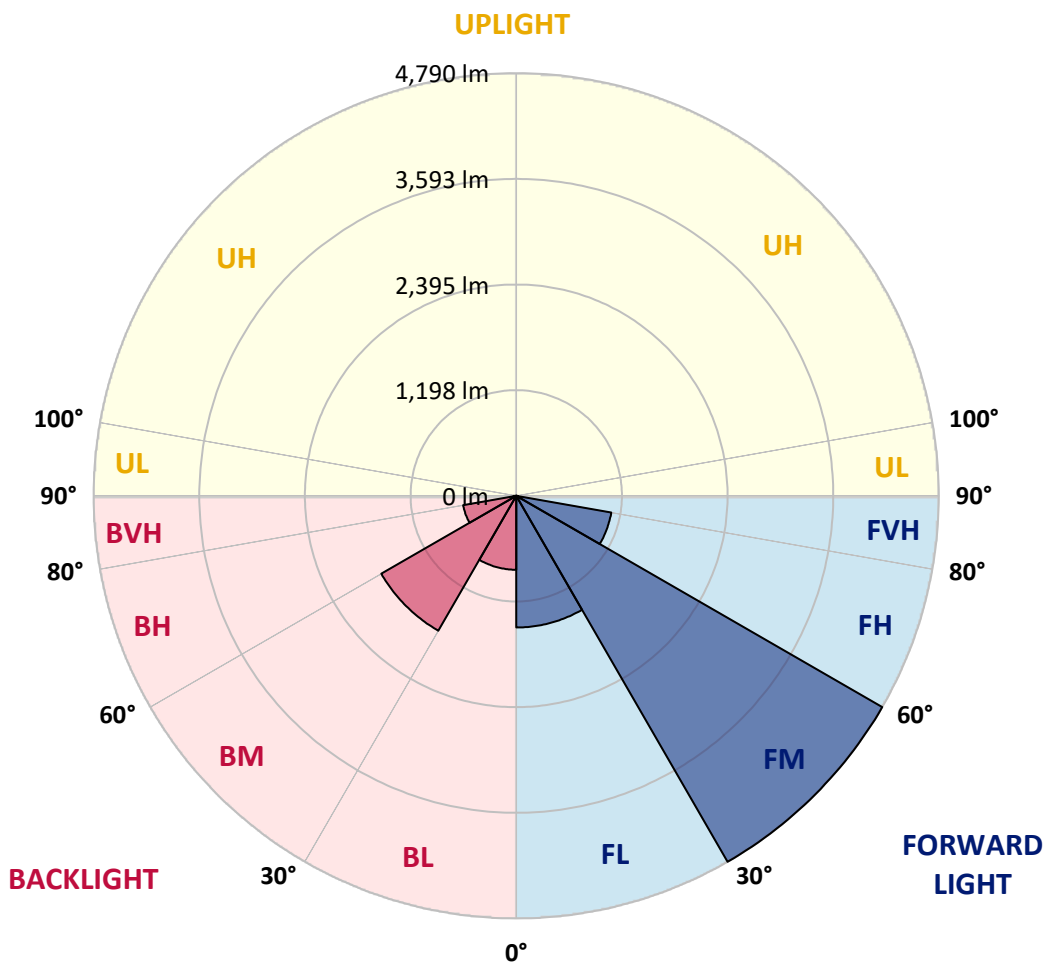


REPORT NUMBER: P652285
 CATALOG NUMBER: GALN-SA3B-840-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1491.9 | 14.0 | | | |
| FM (30°-60°) | 4790.4 | 45.0 | | | |
| FH (60°-80°) | 1093.5 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 18.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 838.0 | 7.9 | B2/1000 | | |
| BM (30°-60°) | 1765.9 | 16.6 | B2/2500 | | |
| BH (60°-80°) | 610.9 | 5.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P652285

CATALOG NUMBER: GALN-SA3B-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 |
| 2.5° | 4980.7 | 4952.6 | 4977.5 | 5095.6 | 5163.9 | 5210.5 | 5240.0 | 5235.4 | 5123.5 | 5014.8 | 5014.8 |
| 5° | 4834.6 | 4798.8 | 4850.1 | 5117.3 | 5386.1 | 5409.4 | 5448.3 | 5384.5 | 5219.8 | 5021.0 | 4772.4 |
| 7.5° | 4412.1 | 4438.5 | 4523.9 | 4874.9 | 5224.5 | 5400.1 | 5446.7 | 5365.9 | 5098.6 | 4727.4 | 4362.4 |
| 10° | 4047.0 | 4109.1 | 4306.4 | 4685.5 | 5007.1 | 5235.4 | 5286.7 | 5173.2 | 4962.0 | 4506.8 | 4180.5 |
| 12.5° | 3921.1 | 3882.3 | 4101.3 | 4480.3 | 4788.0 | 4910.7 | 4934.0 | 4941.8 | 4798.8 | 4394.9 | 3997.3 |
| 15° | 3905.6 | 3930.4 | 4101.3 | 4388.8 | 4578.2 | 4584.5 | 4623.3 | 4683.9 | 4702.5 | 4471.1 | 4082.7 |
| 17.5° | 4129.3 | 4099.8 | 4275.3 | 4503.7 | 4413.6 | 4323.5 | 4332.8 | 4419.8 | 4573.6 | 4536.3 | 4351.4 |
| 20° | 4460.2 | 4527.0 | 4665.3 | 4642.0 | 4399.6 | 4171.2 | 4172.8 | 4255.1 | 4558.1 | 4806.7 | 4725.8 |
| 22.5° | 5010.2 | 5075.4 | 5178.0 | 4896.7 | 4399.6 | 4126.2 | 4073.4 | 4185.2 | 4657.5 | 5128.2 | 5148.4 |
| 25° | 5511.9 | 5631.6 | 5659.5 | 5328.6 | 4620.2 | 4168.2 | 4133.9 | 4244.3 | 4756.9 | 5442.0 | 5633.1 |
| 27.5° | 5968.7 | 6012.1 | 6134.9 | 5606.7 | 4742.9 | 4196.1 | 4193.0 | 4334.3 | 4882.8 | 5599.0 | 6066.6 |
| 30° | 6329.1 | 6324.4 | 6394.3 | 5782.2 | 4938.7 | 4353.0 | 4202.3 | 4469.5 | 5047.4 | 5858.3 | 6467.4 |
| 32.5° | 6574.5 | 6627.3 | 6774.9 | 6026.2 | 5021.0 | 4502.1 | 4384.0 | 4627.9 | 5247.8 | 5981.1 | 6750.1 |
| 35° | 7006.5 | 7098.0 | 6911.7 | 6161.3 | 5282.0 | 4649.7 | 4511.5 | 4843.9 | 5347.2 | 6114.7 | 7096.5 |
| 37.5° | 7413.4 | 7343.5 | 7154.0 | 6234.3 | 5451.4 | 4923.1 | 4794.2 | 5261.8 | 5656.4 | 6405.2 | 7326.5 |
| 40° | 7674.5 | 7672.9 | 7335.8 | 6293.4 | 5571.0 | 5341.0 | 5333.3 | 5685.9 | 6035.4 | 6588.6 | 7584.3 |
| 42.5° | 7787.8 | 7896.6 | 7410.3 | 6287.1 | 5822.7 | 5847.5 | 6004.4 | 6319.8 | 6304.2 | 6625.8 | 7578.1 |
| 44° | 7943.2 | 8008.4 | 7539.3 | 6301.1 | 5990.4 | 6189.3 | 6559.0 | 6759.5 | 6538.8 | 6605.6 | 7570.3 |
| 45° | 7937.0 | 7941.6 | 7356.0 | 6319.8 | 6133.3 | 6475.1 | 6806.0 | 7144.7 | 6745.4 | 6562.2 | 7672.9 |
| 47.5° | 7755.2 | 7702.4 | 7200.6 | 6181.5 | 6579.2 | 7230.2 | 7536.2 | 7741.2 | 7000.2 | 6468.9 | 7545.5 |
| 50° | 7396.3 | 7335.8 | 6823.1 | 6122.5 | 6672.4 | 7699.3 | 8121.9 | 8196.4 | 7231.7 | 6377.2 | 7419.6 |
| 52.5° | 7421.2 | 7404.2 | 6930.3 | 6211.0 | 6765.6 | 7846.9 | 8524.2 | 8542.9 | 7494.2 | 6569.9 | 7421.2 |
| 55° | 7865.5 | 7806.5 | 7237.9 | 6321.3 | 6697.3 | 7674.5 | 8267.9 | 8235.2 | 7405.7 | 6453.3 | 7557.9 |
| 57.5° | 7197.5 | 7236.4 | 6812.3 | 5884.8 | 5861.4 | 6239.0 | 6500.0 | 6419.2 | 6179.9 | 5824.2 | 7031.3 |
| 60° | 5807.1 | 5917.4 | 5957.8 | 4921.6 | 4422.9 | 4228.7 | 4151.0 | 4008.1 | 4048.5 | 4784.9 | 6176.8 |
| 62.5° | 4980.7 | 4974.4 | 5227.7 | 4461.8 | 2897.3 | 2491.9 | 2454.5 | 2487.2 | 2953.3 | 4710.3 | 6049.5 |
| 65° | 3949.1 | 4054.7 | 4132.4 | 3781.3 | 2293.0 | 1850.3 | 1848.7 | 2055.3 | 2555.5 | 3936.6 | 4884.3 |
| 67.5° | 2507.4 | 2645.7 | 2742.0 | 2418.9 | 1533.3 | 1317.4 | 1281.7 | 1530.2 | 1771.1 | 2582.0 | 2940.8 |
| 70° | 1413.7 | 1479.0 | 1522.5 | 1395.1 | 975.6 | 683.6 | 643.2 | 702.2 | 1070.3 | 1671.6 | 1743.1 |
| 72.5° | 545.3 | 574.8 | 633.9 | 638.5 | 368.2 | 220.6 | 178.6 | 214.4 | 450.5 | 661.8 | 630.8 |
| 75° | 83.9 | 90.1 | 127.4 | 152.2 | 105.6 | 80.8 | 85.4 | 88.6 | 125.8 | 170.9 | 142.9 |
| 77.5° | 40.4 | 40.4 | 38.9 | 45.1 | 52.8 | 57.4 | 62.1 | 68.4 | 74.6 | 82.3 | 79.2 |
| 80° | 26.4 | 26.4 | 26.4 | 31.0 | 38.9 | 46.6 | 52.8 | 55.9 | 59.0 | 65.3 | 62.1 |
| 82.5° | 17.1 | 17.1 | 17.1 | 23.3 | 31.0 | 38.9 | 42.0 | 49.7 | 55.9 | 65.3 | 60.6 |
| 85° | 9.3 | 9.3 | 9.3 | 15.6 | 23.3 | 32.6 | 31.0 | 24.9 | 14.0 | 1.5 | 3.1 |
| 87.5° | 3.1 | 3.1 | 3.1 | 3.1 | 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 |



REPORT NUMBER: P652285

CATALOG NUMBER: GALN-SA3B-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 |
| 2.5° | 4884.3 | 4812.9 | 4806.7 | 4660.6 | 4530.1 | 4466.4 | 4415.2 | 4272.2 | 4303.3 | 4221.0 | 4219.4 |
| 5° | 4648.1 | 4502.1 | 4266.0 | 4071.8 | 3877.6 | 3838.7 | 3669.5 | 3521.9 | 3526.5 | 3420.9 | 3439.5 |
| 7.5° | 4224.1 | 4123.1 | 3835.6 | 3531.2 | 3273.3 | 3090.0 | 2930.0 | 2833.7 | 2710.9 | 2669.0 | 2647.2 |
| 10° | 3955.3 | 3831.0 | 3507.9 | 3125.7 | 2836.8 | 2738.9 | 2585.1 | 2499.6 | 2373.8 | 2311.7 | 2268.2 |
| 12.5° | 3837.2 | 3655.5 | 3251.6 | 2863.2 | 2670.5 | 2569.5 | 2439.1 | 2283.7 | 2134.5 | 2077.1 | 1997.9 |
| 15° | 3849.7 | 3632.2 | 3177.0 | 2757.6 | 2526.0 | 2330.3 | 2213.8 | 2041.4 | 1889.1 | 1788.1 | 1730.6 |
| 17.5° | 4037.6 | 3773.6 | 3211.1 | 2676.7 | 2344.3 | 2098.8 | 1870.5 | 1684.0 | 1562.8 | 1486.7 | 1468.0 |
| 20° | 4481.9 | 4123.1 | 3268.6 | 2546.2 | 2162.5 | 1856.5 | 1575.3 | 1381.1 | 1287.9 | 1286.3 | 1287.9 |
| 22.5° | 4851.6 | 4495.9 | 3385.1 | 2468.6 | 1980.7 | 1545.8 | 1266.1 | 1204.0 | 1185.3 | 1224.2 | 1228.9 |
| 25° | 5350.4 | 4915.4 | 3585.5 | 2428.1 | 1812.9 | 1317.4 | 1144.9 | 1121.6 | 1120.1 | 1169.8 | 1171.3 |
| 27.5° | 5861.4 | 5282.0 | 3705.2 | 2310.1 | 1642.1 | 1199.4 | 1071.9 | 1067.3 | 1092.1 | 1144.9 | 1140.3 |
| 30° | 6209.4 | 5589.6 | 3921.1 | 2168.7 | 1440.1 | 1095.2 | 1042.4 | 1048.6 | 1082.8 | 1123.2 | 1129.4 |
| 32.5° | 6615.0 | 5892.6 | 3977.0 | 2091.1 | 1315.8 | 1008.3 | 970.9 | 985.0 | 1028.5 | 1092.1 | 1126.4 |
| 35° | 7079.5 | 6106.9 | 4062.5 | 1985.4 | 1269.2 | 941.4 | 922.8 | 938.3 | 991.1 | 1033.1 | 1070.3 |
| 37.5° | 7422.8 | 6486.0 | 4078.0 | 1903.1 | 1217.9 | 904.2 | 874.6 | 925.9 | 957.0 | 1016.0 | 1034.7 |
| 40° | 7677.6 | 6761.0 | 4118.4 | 1851.8 | 1177.6 | 856.0 | 856.0 | 890.2 | 932.1 | 986.5 | 1023.7 |
| 42.5° | 7840.6 | 6961.4 | 4147.9 | 1805.2 | 1099.9 | 842.0 | 834.3 | 868.4 | 924.3 | 977.2 | 994.2 |
| 44° | 7940.1 | 7046.8 | 4118.4 | 1761.7 | 1078.2 | 824.9 | 824.9 | 854.5 | 897.9 | 960.1 | 980.3 |
| 45° | 7964.9 | 7154.0 | 4053.2 | 1760.1 | 1051.8 | 804.8 | 801.6 | 857.6 | 887.1 | 963.2 | 975.6 |
| 47.5° | 8061.2 | 7286.1 | 4060.9 | 1710.4 | 988.0 | 756.6 | 811.0 | 835.8 | 862.2 | 929.1 | 970.9 |
| 50° | 8058.1 | 7368.4 | 4043.9 | 1637.4 | 941.4 | 702.2 | 792.3 | 820.2 | 846.6 | 915.0 | 932.1 |
| 52.5° | 8079.9 | 7676.0 | 4200.7 | 1520.9 | 857.6 | 632.3 | 730.2 | 792.3 | 824.9 | 882.4 | 918.1 |
| 55° | 8069.1 | 7851.6 | 4356.1 | 1433.9 | 739.5 | 590.4 | 677.3 | 750.3 | 796.9 | 857.6 | 874.6 |
| 57.5° | 7369.9 | 6939.6 | 4031.4 | 1270.8 | 612.1 | 540.6 | 602.7 | 706.9 | 765.9 | 828.0 | 849.7 |
| 60° | 6021.5 | 5348.8 | 3324.6 | 935.2 | 503.3 | 497.1 | 560.9 | 692.9 | 717.7 | 772.1 | 809.4 |
| 62.5° | 5564.7 | 4691.7 | 2636.4 | 714.6 | 430.3 | 455.1 | 517.3 | 626.0 | 664.9 | 731.8 | 765.9 |
| 65° | 4354.5 | 3116.4 | 1632.8 | 483.2 | 379.0 | 408.6 | 467.6 | 548.4 | 612.1 | 674.2 | 714.6 |
| 67.5° | 2578.8 | 1702.7 | 807.9 | 338.7 | 330.9 | 362.0 | 422.5 | 483.2 | 556.2 | 624.5 | 644.7 |
| 70° | 1404.4 | 837.4 | 344.9 | 257.9 | 281.2 | 309.2 | 368.2 | 410.2 | 480.0 | 532.9 | 567.0 |
| 72.5° | 450.5 | 254.7 | 172.4 | 191.1 | 214.4 | 247.0 | 282.7 | 334.0 | 383.7 | 414.8 | 442.8 |
| 75° | 108.7 | 107.2 | 122.7 | 133.6 | 155.3 | 180.2 | 209.7 | 236.2 | 275.0 | 304.5 | 329.3 |
| 77.5° | 76.1 | 82.3 | 94.8 | 110.3 | 118.1 | 127.4 | 146.0 | 166.3 | 183.3 | 205.0 | 220.6 |
| 80° | 59.0 | 63.7 | 73.0 | 80.8 | 88.6 | 96.3 | 105.6 | 113.4 | 124.3 | 138.3 | 146.0 |
| 82.5° | 55.9 | 59.0 | 68.4 | 73.0 | 69.9 | 68.4 | 74.6 | 77.7 | 79.2 | 83.9 | 88.6 |
| 85° | 4.6 | 0.0 | 3.1 | 10.8 | 26.4 | 38.9 | 42.0 | 42.0 | 40.4 | 43.5 | 43.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 6.2 | 4.6 |
| 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: GALN-SA3B-840-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 |
| 2.5° | 4200.7 | 4147.9 | 4168.2 | 4193.0 | 4157.2 | 4074.9 | 4096.7 | 4087.3 | 4171.2 | 4165.1 | 4248.9 |
| 5° | 3521.9 | 3439.5 | 3448.9 | 3570.0 | 3531.2 | 3573.2 | 3489.2 | 3478.4 | 3493.9 | 3501.7 | 3515.6 |
| 7.5° | 2695.4 | 2684.5 | 2777.7 | 2880.3 | 2928.4 | 2878.7 | 2796.3 | 2777.7 | 2760.6 | 2726.4 | 2804.1 |
| 10° | 2199.8 | 2202.9 | 2196.7 | 2274.4 | 2328.7 | 2317.9 | 2268.2 | 2262.0 | 2229.3 | 2216.9 | 2260.4 |
| 12.5° | 1963.7 | 1921.7 | 1901.5 | 1876.7 | 1918.6 | 1946.6 | 1924.8 | 1909.3 | 1910.8 | 1926.4 | 1932.6 |
| 15° | 1735.3 | 1708.9 | 1665.3 | 1637.4 | 1657.6 | 1643.7 | 1635.8 | 1666.9 | 1659.2 | 1656.1 | 1693.4 |
| 17.5° | 1479.0 | 1500.7 | 1497.6 | 1466.5 | 1492.9 | 1482.1 | 1480.5 | 1458.8 | 1429.3 | 1407.5 | 1419.9 |
| 20° | 1309.6 | 1350.1 | 1381.1 | 1382.6 | 1396.6 | 1395.1 | 1371.8 | 1305.0 | 1283.2 | 1278.6 | 1281.7 |
| 22.5° | 1249.1 | 1270.8 | 1308.1 | 1360.9 | 1360.9 | 1336.0 | 1308.1 | 1230.4 | 1210.2 | 1188.4 | 1179.2 |
| 25° | 1200.9 | 1242.8 | 1291.0 | 1297.2 | 1322.1 | 1298.8 | 1253.7 | 1214.8 | 1172.9 | 1143.4 | 1143.4 |
| 27.5° | 1176.1 | 1222.6 | 1258.4 | 1269.2 | 1303.4 | 1284.8 | 1238.2 | 1188.4 | 1138.7 | 1137.2 | 1110.8 |
| 30° | 1165.1 | 1208.7 | 1232.0 | 1258.4 | 1273.9 | 1244.3 | 1230.4 | 1177.6 | 1127.9 | 1115.4 | 1071.9 |
| 32.5° | 1132.5 | 1194.6 | 1238.2 | 1232.0 | 1244.3 | 1232.0 | 1211.7 | 1168.2 | 1112.3 | 1084.4 | 1079.7 |
| 35° | 1095.2 | 1157.4 | 1204.0 | 1236.6 | 1244.3 | 1217.9 | 1205.6 | 1146.5 | 1070.3 | 1056.4 | 1008.3 |
| 37.5° | 1075.1 | 1112.3 | 1169.8 | 1222.6 | 1233.5 | 1219.5 | 1177.6 | 1117.0 | 1040.9 | 1025.3 | 983.4 |
| 40° | 1050.2 | 1098.3 | 1143.4 | 1186.9 | 1219.5 | 1185.3 | 1137.2 | 1078.2 | 1043.9 | 997.3 | 985.0 |
| 42.5° | 1031.6 | 1085.9 | 1123.2 | 1171.3 | 1208.7 | 1163.6 | 1107.7 | 1067.3 | 1019.1 | 988.0 | 952.3 |
| 44° | 1025.3 | 1075.1 | 1099.9 | 1158.9 | 1190.0 | 1155.8 | 1109.2 | 1067.3 | 1011.4 | 983.4 | 952.3 |
| 45° | 1003.6 | 1071.9 | 1098.3 | 1151.2 | 1177.6 | 1149.6 | 1090.6 | 1048.6 | 1008.3 | 974.0 | 941.4 |
| 47.5° | 981.9 | 1028.5 | 1073.5 | 1115.4 | 1134.1 | 1124.8 | 1075.1 | 1023.7 | 975.6 | 955.5 | 924.3 |
| 50° | 975.6 | 1022.2 | 1064.2 | 1103.0 | 1124.8 | 1106.1 | 1061.1 | 1011.4 | 955.5 | 922.8 | 896.4 |
| 52.5° | 944.5 | 1002.1 | 1048.6 | 1061.1 | 1089.0 | 1078.2 | 1043.9 | 989.6 | 936.8 | 908.8 | 887.1 |
| 55° | 899.5 | 960.1 | 1023.7 | 1039.3 | 1079.7 | 1062.6 | 1011.4 | 960.1 | 915.0 | 873.1 | 845.1 |
| 57.5° | 882.4 | 941.4 | 1003.6 | 1023.7 | 1048.6 | 1020.6 | 1008.3 | 953.9 | 882.4 | 860.7 | 817.1 |
| 60° | 838.9 | 913.5 | 964.7 | 1011.4 | 1012.9 | 1005.2 | 983.4 | 921.2 | 862.2 | 821.8 | 790.7 |
| 62.5° | 804.8 | 874.6 | 915.0 | 958.5 | 985.0 | 963.2 | 941.4 | 884.0 | 820.2 | 775.2 | 739.5 |
| 65° | 755.0 | 818.7 | 852.9 | 879.3 | 908.8 | 905.7 | 868.4 | 826.5 | 759.7 | 723.9 | 689.8 |
| 67.5° | 678.9 | 734.8 | 781.5 | 806.3 | 824.9 | 820.2 | 792.3 | 762.8 | 694.4 | 658.7 | 633.9 |
| 70° | 587.3 | 644.7 | 674.2 | 688.2 | 706.9 | 716.2 | 694.4 | 680.5 | 619.8 | 573.2 | 549.9 |
| 72.5° | 472.3 | 509.6 | 553.0 | 565.5 | 573.2 | 579.4 | 579.4 | 567.0 | 504.9 | 486.3 | 445.9 |
| 75° | 348.0 | 377.5 | 410.2 | 410.2 | 424.1 | 425.6 | 428.7 | 421.0 | 374.4 | 349.5 | 340.2 |
| 77.5° | 236.2 | 257.9 | 284.3 | 295.2 | 304.5 | 302.9 | 301.4 | 279.6 | 254.7 | 243.9 | 234.6 |
| 80° | 153.8 | 175.5 | 188.0 | 201.9 | 211.3 | 209.7 | 212.9 | 197.3 | 186.4 | 167.8 | 170.9 |
| 82.5° | 91.7 | 108.7 | 121.2 | 138.3 | 138.3 | 142.9 | 142.9 | 138.3 | 127.4 | 118.1 | 118.1 |
| 85° | 43.5 | 57.4 | 65.3 | 76.1 | 82.3 | 83.9 | 74.6 | 63.7 | 52.8 | 48.2 | 52.8 |
| 87.5° | 7.7 | 10.8 | 15.6 | 14.0 | 17.1 | 15.6 | 15.6 | 15.6 | 15.6 | 12.4 | 14.0 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 | 4746.0 |
| 2.5° | 4217.9 | 4295.5 | 4349.9 | 4440.0 | 4595.3 | 4719.6 | 4847.0 | 4941.8 | 4952.6 | 4980.7 |
| 5° | 3566.9 | 3608.8 | 3747.1 | 3927.3 | 4054.7 | 4264.5 | 4399.6 | 4645.1 | 4736.7 | 4834.6 |
| 7.5° | 2785.5 | 2853.8 | 3038.7 | 3159.9 | 3439.5 | 3702.1 | 3973.9 | 4276.9 | 4398.0 | 4412.1 |
| 10° | 2348.9 | 2448.4 | 2574.2 | 2768.4 | 2920.6 | 3212.7 | 3551.4 | 3888.4 | 4023.7 | 4047.0 |
| 12.5° | 2063.1 | 2190.5 | 2358.2 | 2498.1 | 2644.1 | 2898.9 | 3223.6 | 3639.9 | 3815.4 | 3921.1 |
| 15° | 1788.1 | 1920.2 | 2105.0 | 2299.2 | 2428.1 | 2732.7 | 3114.8 | 3584.0 | 3812.3 | 3905.6 |
| 17.5° | 1505.4 | 1628.1 | 1780.3 | 1990.1 | 2249.5 | 2591.3 | 3097.7 | 3770.5 | 4020.6 | 4129.3 |
| 20° | 1263.0 | 1331.4 | 1508.5 | 1724.4 | 2049.1 | 2446.8 | 3104.0 | 4045.4 | 4412.1 | 4460.2 |
| 22.5° | 1168.2 | 1183.8 | 1253.7 | 1452.6 | 1808.3 | 2299.2 | 3214.2 | 4435.3 | 4851.6 | 5010.2 |
| 25° | 1095.2 | 1092.1 | 1110.8 | 1244.3 | 1632.8 | 2241.8 | 3323.0 | 4794.2 | 5339.5 | 5511.9 |
| 27.5° | 1054.9 | 1023.7 | 1025.3 | 1151.2 | 1508.5 | 2148.5 | 3462.8 | 5205.9 | 5892.6 | 5968.7 |
| 30° | 1034.7 | 1028.5 | 1009.8 | 1061.1 | 1373.4 | 2008.7 | 3486.1 | 5611.3 | 6218.8 | 6329.1 |
| 32.5° | 1022.2 | 961.6 | 938.3 | 957.0 | 1245.9 | 1856.5 | 3573.2 | 5878.6 | 6622.7 | 6574.5 |
| 35° | 960.1 | 905.7 | 890.2 | 908.8 | 1155.8 | 1771.1 | 3515.6 | 6111.6 | 6925.6 | 7006.5 |
| 37.5° | 936.8 | 888.6 | 857.6 | 842.0 | 1071.9 | 1699.6 | 3486.1 | 6470.5 | 7219.2 | 7413.4 |
| 40° | 915.0 | 863.8 | 826.5 | 811.0 | 1006.7 | 1604.8 | 3476.8 | 6747.0 | 7557.9 | 7674.5 |
| 42.5° | 890.2 | 857.6 | 815.6 | 787.7 | 927.5 | 1510.0 | 3369.6 | 6832.5 | 7662.0 | 7787.8 |
| 44° | 882.4 | 832.7 | 789.2 | 779.9 | 896.4 | 1461.9 | 3347.9 | 6910.1 | 7752.1 | 7943.2 |
| 45° | 874.6 | 828.0 | 778.3 | 765.9 | 885.5 | 1435.5 | 3318.3 | 6928.7 | 7901.3 | 7937.0 |
| 47.5° | 852.9 | 823.3 | 775.2 | 741.0 | 862.2 | 1378.0 | 3229.8 | 6823.1 | 7749.0 | 7755.2 |
| 50° | 835.8 | 801.6 | 751.9 | 685.1 | 831.2 | 1329.8 | 3270.1 | 6784.3 | 7382.4 | 7396.3 |
| 52.5° | 817.1 | 765.9 | 737.9 | 622.9 | 779.9 | 1289.4 | 3355.6 | 6959.8 | 7424.3 | 7421.2 |
| 55° | 795.4 | 739.5 | 671.1 | 570.1 | 694.4 | 1238.2 | 3562.2 | 7306.3 | 7812.7 | 7865.5 |
| 57.5° | 761.2 | 713.1 | 615.2 | 523.5 | 596.5 | 1140.3 | 3495.4 | 6642.9 | 7188.2 | 7197.5 |
| 60° | 716.2 | 671.1 | 557.8 | 487.8 | 489.4 | 899.5 | 3125.7 | 5176.4 | 5672.0 | 5807.1 |
| 62.5° | 672.7 | 647.8 | 509.6 | 436.6 | 416.4 | 716.2 | 2642.6 | 4301.7 | 4868.8 | 4980.7 |
| 65° | 621.4 | 560.9 | 467.6 | 397.7 | 357.3 | 501.8 | 1872.0 | 3214.2 | 3798.4 | 3949.1 |
| 67.5° | 556.2 | 490.9 | 411.7 | 349.5 | 306.0 | 335.6 | 966.3 | 1827.0 | 2418.9 | 2507.4 |
| 70° | 486.3 | 425.6 | 346.4 | 295.2 | 247.0 | 231.4 | 425.6 | 871.5 | 1322.1 | 1413.7 |
| 72.5° | 399.2 | 343.3 | 276.5 | 233.0 | 184.9 | 160.0 | 142.9 | 233.0 | 469.2 | 545.3 |
| 75° | 289.0 | 250.1 | 208.1 | 166.3 | 130.5 | 102.5 | 83.9 | 69.9 | 77.7 | 83.9 |
| 77.5° | 212.9 | 181.7 | 153.8 | 118.1 | 91.7 | 73.0 | 57.4 | 43.5 | 42.0 | 40.4 |
| 80° | 166.3 | 147.6 | 122.7 | 94.8 | 71.5 | 54.4 | 40.4 | 29.5 | 26.4 | 26.4 |
| 82.5° | 130.5 | 121.2 | 101.0 | 77.7 | 59.0 | 43.5 | 29.5 | 20.2 | 17.1 | 17.1 |
| 85° | 49.7 | 49.7 | 73.0 | 63.7 | 45.1 | 31.0 | 20.2 | 10.8 | 9.3 | 9.3 |
| 87.5° | 12.4 | 12.4 | 12.4 | 12.4 | 10.8 | 9.3 | 9.3 | 4.6 | 3.1 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)