

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: P652616

Luminaire Tested: **GALN-SA9B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31155.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

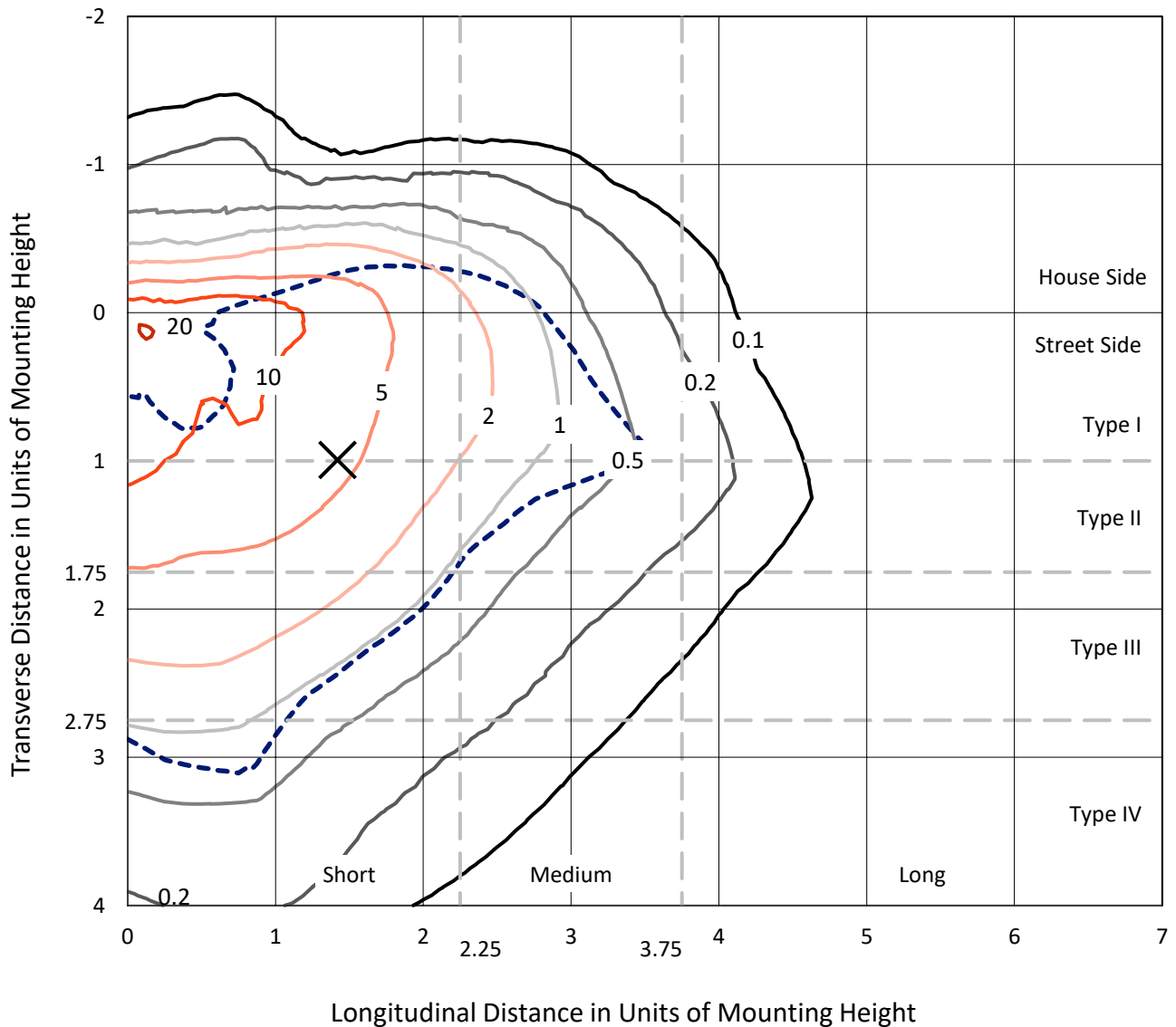
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652616
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Iso-Footcandle Lines of Horizontal Illumination

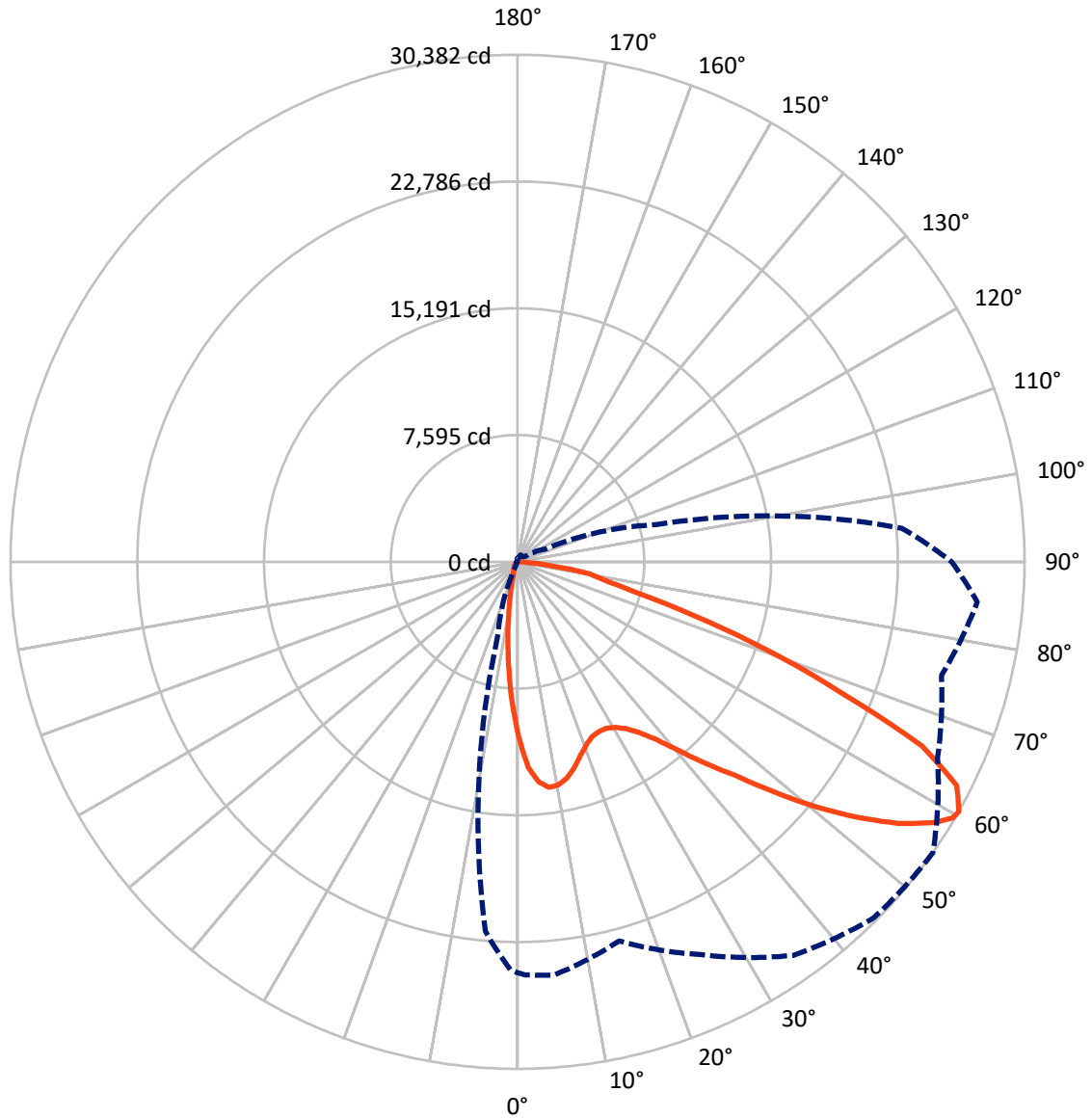
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Short - N/A

REPORT NUMBER: P652616
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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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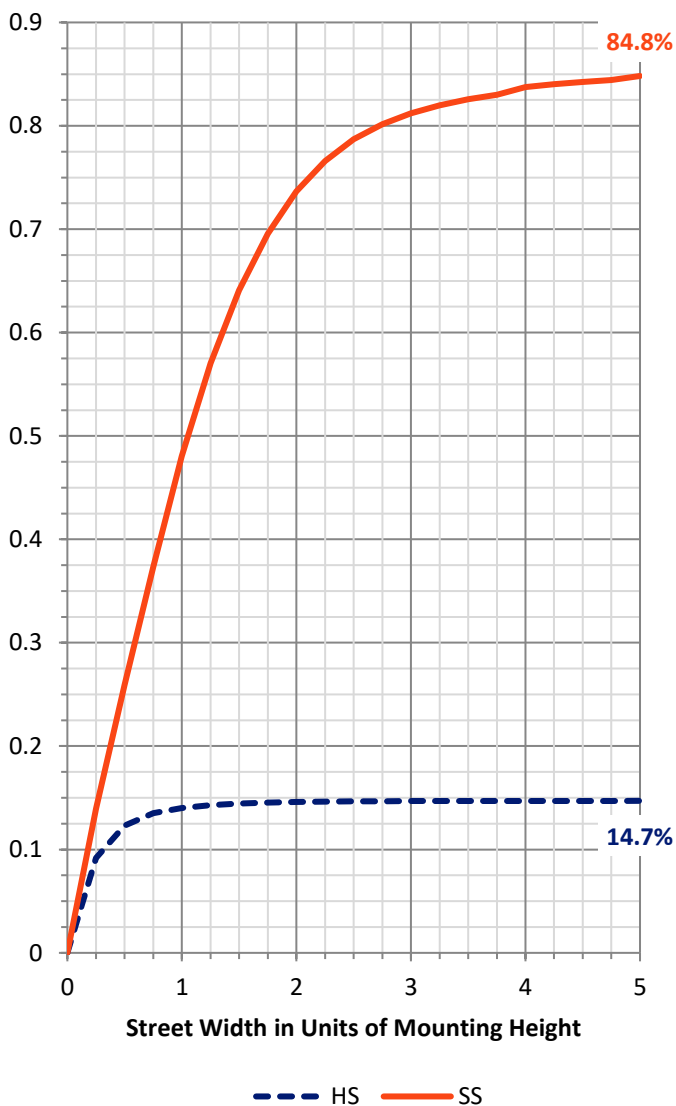
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4623.8 | 0.0 | 4623.8 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 26531.9 | 0.0 | 26531.9 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 31155.7 | 0.0 | 31155.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 781.2 | 2.5 |
| 10°-20° | 1538.3 | 4.9 |
| 20°-30° | 2277.0 | 7.3 |
| 30°-40° | 3394.1 | 10.9 |
| 40°-50° | 4970.7 | 16.0 |
| 50°-60° | 7176.2 | 23.0 |
| 60°-70° | 7549.0 | 24.2 |
| 70°-80° | 3105.4 | 10.0 |
| 80°-90° | 363.7 | 1.2 |
| 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° | 31155.7 | 100.0 |
| 0°-180° | 31155.7 | 100.0 |

Coefficient of Utilization



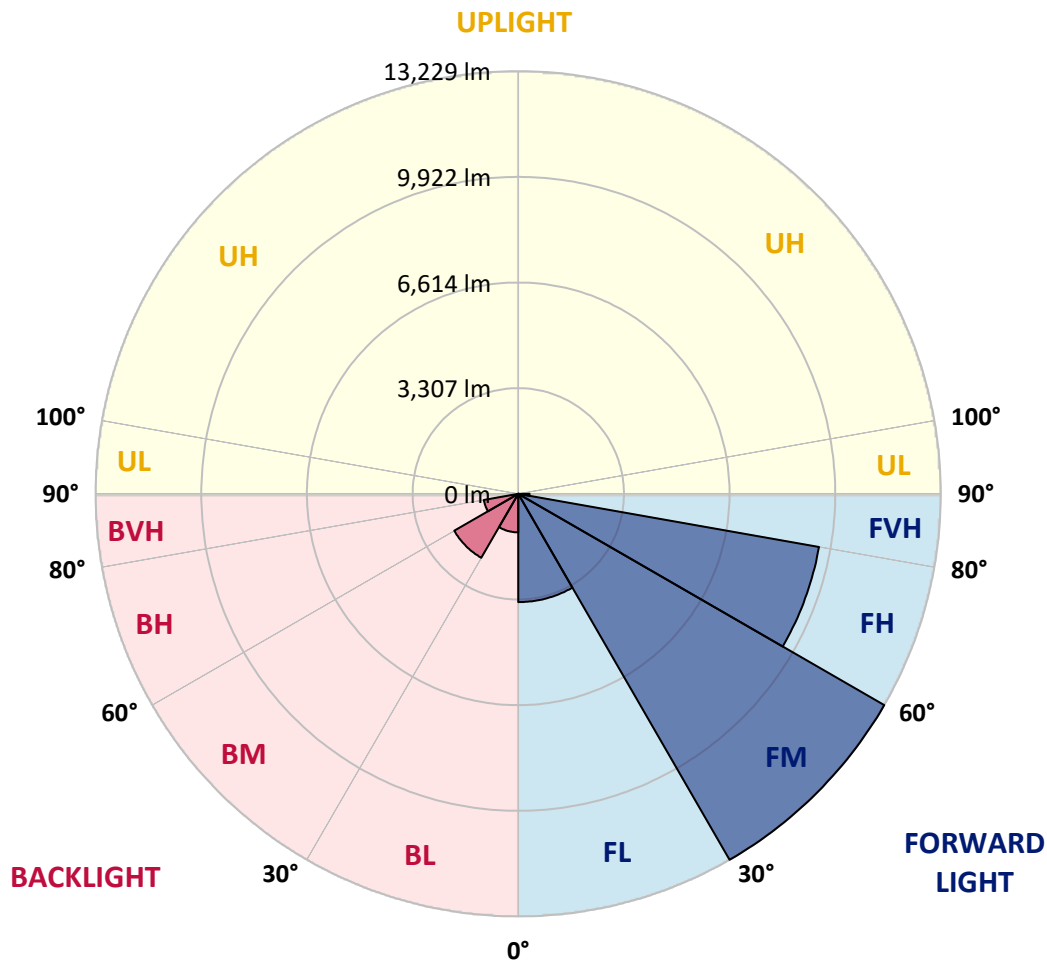
REPORT NUMBER: P652616
 CATALOG NUMBER: GALN-SA9B-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3390.2 | 10.9 | | | |
| FM (30°-60°) | 13228.7 | 42.5 | | | |
| FH (60°-80°) | 9560.0 | 30.7 | | | G4/12000 |
| FVH (80°-90°) | 353.0 | 1.1 | | | G3/500 |
| BL (0°-30°) | 1206.4 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2312.3 | 7.4 | B2/2500 | | |
| BH (60°-80°) | 1094.4 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 10.7 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P652616

CATALOG NUMBER: GALN-SA9B-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 |
| 2.5° | 11525.2 | 11506.1 | 11676.4 | 11954.5 | 12235.1 | 12381.4 | 12352.6 | 12340.6 | 12108.0 | 11937.7 | 11580.4 |
| 5° | 11501.3 | 11599.6 | 11904.2 | 12657.1 | 13227.9 | 13503.7 | 13585.3 | 13242.3 | 12789.1 | 12132.0 | 11321.5 |
| 7.5° | 10813.0 | 10935.4 | 11431.7 | 12609.2 | 13623.6 | 14223.1 | 14201.5 | 13652.4 | 12717.1 | 11700.3 | 10544.5 |
| 10° | 9959.3 | 10103.2 | 10685.9 | 12115.2 | 13431.8 | 14223.1 | 14266.3 | 13570.8 | 12407.8 | 11103.2 | 9887.4 |
| 12.5° | 9357.4 | 9527.6 | 10172.7 | 11654.7 | 12937.8 | 13717.1 | 13767.5 | 13263.9 | 12175.2 | 10873.0 | 9530.0 |
| 15° | 9153.5 | 9314.2 | 9968.9 | 11422.1 | 12412.6 | 12832.2 | 12820.2 | 12767.5 | 12084.0 | 10928.1 | 9549.2 |
| 17.5° | 9503.6 | 9635.6 | 10374.2 | 11527.7 | 11920.9 | 11877.8 | 11940.1 | 12194.3 | 12103.2 | 11390.9 | 10153.6 |
| 20° | 10407.7 | 10542.0 | 11335.8 | 11851.4 | 11544.4 | 11271.1 | 11299.8 | 11724.3 | 12280.6 | 12261.4 | 11098.4 |
| 22.5° | 11652.4 | 11880.1 | 12599.6 | 12479.7 | 11494.1 | 10894.6 | 10834.6 | 11386.1 | 12582.8 | 13263.9 | 12374.2 |
| 25° | 13227.9 | 13458.1 | 14019.3 | 13482.1 | 11741.1 | 10805.8 | 10750.7 | 11283.0 | 12949.7 | 14242.3 | 13810.6 |
| 27.5° | 14551.7 | 14726.8 | 15285.5 | 14458.1 | 12105.6 | 10844.2 | 10753.0 | 11297.4 | 13247.1 | 15074.4 | 15021.7 |
| 30° | 15611.7 | 15741.1 | 16069.7 | 14913.8 | 12419.7 | 11012.1 | 10906.5 | 11508.5 | 13379.0 | 15479.7 | 16002.5 |
| 32.5° | 16465.4 | 16683.6 | 16786.7 | 15400.6 | 12870.6 | 11328.6 | 11148.7 | 11913.8 | 13700.3 | 15980.9 | 17031.3 |
| 35° | 17441.3 | 17693.1 | 17561.3 | 15865.8 | 13465.3 | 11822.6 | 11602.0 | 12570.8 | 14187.2 | 16443.7 | 18225.6 |
| 37.5° | 18678.8 | 18968.9 | 18453.4 | 16355.0 | 14093.6 | 12566.1 | 12462.9 | 13494.1 | 14925.7 | 17105.6 | 19506.2 |
| 40° | 19959.4 | 20127.2 | 19319.0 | 16949.8 | 14865.8 | 13647.6 | 13745.9 | 14865.8 | 15892.2 | 17899.4 | 20868.2 |
| 42.5° | 20959.4 | 21117.7 | 20208.7 | 17448.6 | 15654.8 | 14930.5 | 15340.6 | 16520.5 | 17000.1 | 18712.3 | 21885.0 |
| 45° | 21724.4 | 21858.7 | 20825.1 | 17992.9 | 16719.5 | 16789.1 | 17563.7 | 18225.6 | 18110.4 | 19208.8 | 22669.2 |
| 47.5° | 22319.1 | 22434.2 | 21299.9 | 18578.0 | 18314.3 | 19062.4 | 20247.2 | 20527.7 | 19261.5 | 19745.9 | 23379.0 |
| 50° | 22563.7 | 22597.2 | 21448.6 | 19323.8 | 20124.8 | 21959.4 | 23194.4 | 23024.1 | 20580.4 | 20343.0 | 24134.4 |
| 52.5° | 22882.6 | 22875.5 | 21873.1 | 20033.7 | 21827.5 | 24549.3 | 25781.9 | 25395.8 | 22072.0 | 21237.5 | 24983.3 |
| 55° | 23719.6 | 23729.2 | 22781.9 | 21040.9 | 23278.3 | 26640.4 | 27959.4 | 27678.8 | 23645.2 | 22748.4 | 25973.8 |
| 57.5° | 24736.3 | 24772.3 | 24074.5 | 22218.4 | 24664.4 | 28156.1 | 29585.3 | 29477.4 | 25772.4 | 24429.5 | 26909.1 |
| 59° | 24868.3 | 24940.2 | 24686.0 | 23048.1 | 25487.0 | 28621.2 | 30141.7 | 30247.2 | 26911.4 | 25537.3 | 27415.1 |
| 60° | 24628.4 | 24748.4 | 24863.5 | 23518.1 | 25969.0 | 28789.2 | 30175.2 | 30381.5 | 27767.5 | 26290.3 | 27645.3 |
| 62.5° | 23582.9 | 23772.3 | 24350.3 | 24964.2 | 26570.9 | 28266.3 | 29103.3 | 29535.0 | 28827.5 | 28268.8 | 27666.9 |
| 65° | 22213.6 | 22311.9 | 23146.4 | 25220.7 | 25403.1 | 25825.1 | 26084.1 | 26638.1 | 27554.1 | 29031.4 | 26676.4 |
| 67.5° | 19969.0 | 20259.1 | 21280.7 | 23731.6 | 21957.0 | 21458.2 | 21393.4 | 20841.8 | 23220.8 | 27213.6 | 24235.2 |
| 70° | 16496.6 | 16626.0 | 17885.0 | 19455.8 | 16570.8 | 15803.5 | 16110.4 | 15904.2 | 18000.1 | 23427.0 | 19506.2 |
| 72.5° | 12474.9 | 12767.5 | 13997.7 | 15508.5 | 11275.9 | 10280.6 | 11127.2 | 11050.4 | 13520.5 | 18827.5 | 13400.6 |
| 75° | 8875.3 | 9064.8 | 10633.2 | 12136.8 | 7896.9 | 6690.7 | 6995.3 | 7280.6 | 9438.9 | 14865.8 | 7918.5 |
| 77.5° | 6098.3 | 6261.4 | 7438.9 | 8026.4 | 5760.3 | 5518.1 | 5048.0 | 5323.8 | 6184.7 | 8820.2 | 4309.4 |
| 80° | 3678.7 | 3671.5 | 4446.0 | 4589.9 | 4012.0 | 4659.5 | 3908.9 | 4388.5 | 3738.7 | 3774.6 | 1669.0 |
| 82.5° | 2388.5 | 2364.6 | 2719.5 | 2964.0 | 2232.6 | 2347.7 | 1575.5 | 2271.0 | 2436.5 | 1052.8 | 527.6 |
| 85° | 1069.6 | 1115.1 | 1307.0 | 1724.2 | 978.4 | 520.4 | 321.3 | 697.9 | 1038.4 | 530.0 | 0.0 |
| 87.5° | 110.3 | 86.4 | 230.2 | 419.7 | 134.3 | 14.4 | 47.9 | 24.0 | 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: P652616

CATALOG NUMBER: GALN-SA9B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 |
| 2.5° | 11415.0 | 11275.9 | 10861.0 | 10472.5 | 10139.2 | 9731.5 | 9467.7 | 9052.8 | 8801.0 | 8724.3 | 8736.3 |
| 5° | 10956.9 | 10556.4 | 9767.5 | 9136.7 | 8434.1 | 8033.7 | 7424.5 | 6839.3 | 6522.8 | 6405.3 | 6352.6 |
| 7.5° | 9997.6 | 9568.4 | 8616.4 | 7625.9 | 6872.9 | 6170.3 | 5717.0 | 5201.5 | 4849.0 | 4558.8 | 4508.4 |
| 10° | 9285.4 | 8721.8 | 7542.0 | 6477.3 | 5882.5 | 5355.0 | 4901.7 | 4386.2 | 3971.3 | 3640.4 | 3549.2 |
| 12.5° | 8858.6 | 8227.8 | 6911.3 | 6019.2 | 5455.7 | 4913.7 | 4323.7 | 3726.6 | 3302.2 | 2944.8 | 2779.4 |
| 15° | 8781.8 | 8050.4 | 6733.9 | 5690.7 | 4995.2 | 4340.6 | 3556.3 | 2911.3 | 2474.8 | 2136.7 | 2033.6 |
| 17.5° | 9244.7 | 8369.4 | 6707.5 | 5347.8 | 4393.3 | 3465.3 | 2649.9 | 2115.1 | 1623.6 | 1434.1 | 1359.7 |
| 20° | 10069.6 | 8932.9 | 6705.0 | 4949.7 | 3774.6 | 2669.1 | 1861.0 | 1378.9 | 1179.8 | 1088.8 | 1045.5 |
| 22.5° | 11194.3 | 9700.3 | 6832.2 | 4606.7 | 3131.9 | 1968.9 | 1328.5 | 1098.3 | 983.2 | 908.9 | 892.1 |
| 25° | 12568.4 | 10837.0 | 7144.0 | 4374.1 | 2640.3 | 1544.4 | 1095.9 | 940.1 | 844.1 | 810.6 | 796.2 |
| 27.5° | 13789.0 | 11925.7 | 7486.8 | 4134.4 | 2287.8 | 1366.9 | 1016.8 | 860.9 | 784.1 | 757.8 | 736.2 |
| 30° | 14841.8 | 12913.7 | 7652.3 | 3817.8 | 2004.8 | 1251.8 | 1031.2 | 920.9 | 820.1 | 741.0 | 705.0 |
| 32.5° | 15719.6 | 13671.5 | 7760.2 | 3530.0 | 1765.0 | 1024.0 | 815.3 | 712.2 | 666.7 | 637.9 | 613.9 |
| 35° | 16817.8 | 14491.7 | 7695.5 | 3366.9 | 1642.7 | 932.8 | 743.4 | 613.9 | 537.1 | 479.6 | 455.7 |
| 37.5° | 17969.0 | 15311.8 | 7582.8 | 3232.6 | 1587.6 | 865.7 | 707.4 | 582.7 | 498.8 | 438.8 | 407.7 |
| 40° | 19160.8 | 16072.0 | 7450.9 | 3107.9 | 1537.2 | 822.6 | 685.8 | 556.3 | 472.4 | 407.7 | 374.1 |
| 42.5° | 20252.0 | 16813.0 | 7398.1 | 3026.4 | 1455.7 | 829.7 | 669.1 | 544.4 | 446.1 | 378.9 | 350.1 |
| 45° | 21134.4 | 17515.7 | 7470.1 | 2983.2 | 1366.9 | 817.8 | 673.9 | 530.0 | 424.5 | 359.7 | 330.9 |
| 47.5° | 22076.9 | 18508.5 | 7702.7 | 2940.1 | 1280.6 | 760.2 | 709.8 | 527.6 | 414.9 | 347.8 | 316.6 |
| 50° | 23172.8 | 19779.5 | 8235.1 | 2834.6 | 1175.0 | 697.9 | 755.4 | 525.2 | 402.8 | 333.4 | 302.2 |
| 52.5° | 24633.2 | 21223.1 | 8784.2 | 2649.9 | 1021.6 | 637.9 | 721.8 | 518.0 | 378.9 | 316.6 | 285.4 |
| 55° | 25945.0 | 22743.6 | 9249.5 | 2431.7 | 827.4 | 551.5 | 649.9 | 486.9 | 338.2 | 287.8 | 259.0 |
| 57.5° | 26487.0 | 23602.1 | 9235.1 | 2129.5 | 661.9 | 484.4 | 534.8 | 446.1 | 294.9 | 254.2 | 230.2 |
| 59° | 26288.0 | 23494.2 | 8925.7 | 1906.5 | 604.3 | 448.4 | 443.6 | 441.3 | 275.8 | 230.2 | 211.0 |
| 60° | 26007.3 | 23100.8 | 8592.4 | 1796.2 | 568.3 | 424.5 | 407.7 | 436.5 | 259.0 | 215.8 | 196.6 |
| 62.5° | 24933.0 | 21470.1 | 7486.8 | 1609.1 | 520.4 | 359.7 | 326.1 | 369.3 | 230.2 | 187.0 | 170.3 |
| 65° | 23376.7 | 18964.1 | 6338.2 | 1556.4 | 506.0 | 297.4 | 271.0 | 263.8 | 196.6 | 158.3 | 143.9 |
| 67.5° | 20340.7 | 16048.0 | 5134.3 | 1520.4 | 510.8 | 249.4 | 237.4 | 199.1 | 163.1 | 131.9 | 122.3 |
| 70° | 16285.5 | 12513.2 | 4203.8 | 1479.7 | 515.6 | 203.9 | 199.1 | 158.3 | 131.9 | 110.3 | 100.8 |
| 72.5° | 9894.5 | 7417.3 | 3309.3 | 1285.4 | 501.2 | 163.1 | 177.5 | 119.9 | 96.0 | 79.1 | 74.3 |
| 75° | 6117.5 | 5076.8 | 2052.8 | 1000.0 | 330.9 | 119.9 | 124.7 | 74.3 | 64.8 | 50.4 | 50.4 |
| 77.5° | 3544.4 | 3206.2 | 733.9 | 359.7 | 146.2 | 71.9 | 55.2 | 38.3 | 36.0 | 21.6 | 21.6 |
| 80° | 1470.1 | 1177.5 | 254.2 | 122.3 | 79.1 | 33.6 | 12.0 | 2.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 429.2 | 381.3 | 69.6 | 55.2 | 24.0 | 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 |



REPORT NUMBER: P652616

CATALOG NUMBER: GALN-SA9B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 |
| 2.5° | 8532.4 | 8453.3 | 8417.3 | 8539.6 | 8426.9 | 8570.8 | 8460.5 | 8508.5 | 8649.9 | 8712.3 | 8873.0 |
| 5° | 6386.1 | 6304.6 | 6266.2 | 6450.9 | 6441.3 | 6532.4 | 6522.8 | 6606.7 | 6678.7 | 6518.0 | 6683.5 |
| 7.5° | 4448.5 | 4393.3 | 4484.5 | 4628.4 | 4781.8 | 4731.5 | 4731.5 | 4618.8 | 4657.1 | 4633.2 | 4625.9 |
| 10° | 3383.7 | 3194.3 | 3146.3 | 3141.5 | 3199.1 | 3211.0 | 3146.3 | 2990.4 | 3048.0 | 3064.8 | 3165.5 |
| 12.5° | 2661.8 | 2515.6 | 2292.6 | 2191.9 | 2165.5 | 2187.1 | 1973.7 | 1836.9 | 1901.7 | 1863.3 | 1961.6 |
| 15° | 1908.9 | 1789.0 | 1657.1 | 1544.4 | 1513.2 | 1470.1 | 1237.4 | 1074.4 | 1055.2 | 1062.4 | 1079.2 |
| 17.5° | 1362.1 | 1280.6 | 1280.6 | 1160.7 | 1095.9 | 966.4 | 848.9 | 777.0 | 769.8 | 777.0 | 788.9 |
| 20° | 1004.8 | 961.6 | 956.8 | 925.7 | 853.7 | 767.4 | 685.8 | 671.5 | 666.7 | 678.7 | 683.5 |
| 22.5° | 865.7 | 820.1 | 781.8 | 779.4 | 712.2 | 640.3 | 601.9 | 582.7 | 585.2 | 590.0 | 601.9 |
| 25° | 774.6 | 726.6 | 685.8 | 661.9 | 613.9 | 563.6 | 527.6 | 518.0 | 518.0 | 525.2 | 527.6 |
| 27.5° | 709.8 | 649.9 | 613.9 | 580.4 | 537.1 | 494.0 | 462.8 | 455.7 | 450.9 | 455.7 | 467.6 |
| 30° | 664.3 | 604.3 | 558.8 | 508.4 | 474.8 | 434.0 | 407.7 | 398.0 | 395.7 | 398.0 | 407.7 |
| 32.5° | 568.3 | 532.4 | 496.4 | 450.9 | 410.1 | 383.7 | 354.9 | 338.2 | 338.2 | 343.0 | 352.5 |
| 35° | 429.2 | 410.1 | 407.7 | 395.7 | 362.1 | 333.4 | 299.7 | 283.0 | 283.0 | 292.6 | 297.4 |
| 37.5° | 378.9 | 343.0 | 338.2 | 333.4 | 318.9 | 280.6 | 249.4 | 235.0 | 232.6 | 239.8 | 249.4 |
| 40° | 345.3 | 304.5 | 283.0 | 278.2 | 280.6 | 237.4 | 203.9 | 189.5 | 189.5 | 191.8 | 201.4 |
| 42.5° | 318.9 | 271.0 | 232.6 | 227.8 | 237.4 | 199.1 | 165.5 | 151.0 | 151.0 | 151.0 | 163.1 |
| 45° | 297.4 | 242.2 | 196.6 | 172.7 | 187.0 | 163.1 | 134.3 | 119.9 | 115.1 | 119.9 | 124.7 |
| 47.5° | 283.0 | 220.6 | 172.7 | 139.1 | 139.1 | 129.5 | 107.9 | 91.2 | 86.4 | 88.7 | 96.0 |
| 50° | 271.0 | 201.4 | 146.2 | 112.7 | 100.8 | 103.1 | 81.6 | 69.6 | 64.8 | 64.8 | 71.9 |
| 52.5° | 251.8 | 182.2 | 127.1 | 96.0 | 76.7 | 69.6 | 60.0 | 50.4 | 47.9 | 50.4 | 55.2 |
| 55° | 227.8 | 165.5 | 110.3 | 79.1 | 60.0 | 47.9 | 43.1 | 36.0 | 33.6 | 36.0 | 43.1 |
| 57.5° | 201.4 | 139.1 | 88.7 | 62.3 | 40.8 | 31.2 | 28.8 | 24.0 | 19.2 | 21.6 | 26.4 |
| 59° | 184.7 | 124.7 | 76.7 | 50.4 | 31.2 | 21.6 | 21.6 | 16.8 | 12.0 | 14.4 | 21.6 |
| 60° | 177.5 | 115.1 | 64.8 | 43.1 | 26.4 | 16.8 | 16.8 | 12.0 | 7.2 | 9.6 | 16.8 |
| 62.5° | 151.0 | 96.0 | 50.4 | 26.4 | 12.0 | 2.4 | 7.2 | 2.4 | 0.0 | 2.4 | 7.2 |
| 65° | 127.1 | 76.7 | 33.6 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 |
| 67.5° | 105.5 | 57.5 | 16.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 83.9 | 38.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 57.5 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 36.0 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 14.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 | 10549.3 |
| 2.5° | 8882.6 | 9225.5 | 9436.5 | 9834.6 | 10242.3 | 10556.4 | 10949.7 | 11302.2 | 11448.5 | 11525.2 |
| 5° | 6851.4 | 7328.6 | 7733.8 | 8340.6 | 8904.2 | 9590.0 | 10285.4 | 11105.6 | 11419.8 | 11501.3 |
| 7.5° | 4808.2 | 5295.0 | 5719.5 | 6422.1 | 7225.5 | 8143.9 | 9184.7 | 10225.5 | 10683.6 | 10813.0 |
| 10° | 3472.4 | 3992.8 | 4510.8 | 5213.4 | 5964.0 | 6959.3 | 8043.2 | 9331.0 | 9858.5 | 9959.3 |
| 12.5° | 2191.9 | 2750.7 | 3592.3 | 4460.5 | 5254.2 | 6055.2 | 7189.5 | 8590.0 | 9172.7 | 9357.4 |
| 15° | 1271.0 | 1688.2 | 2323.8 | 3455.7 | 4465.3 | 5525.2 | 6762.6 | 8311.8 | 8964.1 | 9153.5 |
| 17.5° | 851.3 | 995.2 | 1431.6 | 2297.4 | 3630.7 | 5036.0 | 6654.7 | 8539.6 | 9261.4 | 9503.6 |
| 20° | 717.0 | 781.8 | 935.3 | 1400.5 | 2796.2 | 4599.5 | 6683.5 | 9158.3 | 10105.5 | 10407.7 |
| 22.5° | 630.7 | 690.6 | 788.9 | 1007.2 | 1952.0 | 4057.6 | 6820.2 | 10043.2 | 11266.3 | 11652.4 |
| 25° | 556.3 | 616.3 | 702.7 | 834.5 | 1311.8 | 3431.7 | 7120.0 | 11338.2 | 12803.5 | 13227.9 |
| 27.5° | 494.0 | 549.2 | 623.5 | 736.2 | 1009.6 | 2733.8 | 7386.2 | 12599.6 | 14206.3 | 14551.7 |
| 30° | 436.5 | 482.0 | 554.0 | 640.3 | 839.3 | 2108.0 | 7520.5 | 13702.7 | 15227.9 | 15611.7 |
| 32.5° | 378.9 | 422.1 | 491.6 | 561.1 | 690.6 | 1606.7 | 7426.9 | 14513.3 | 16220.7 | 16465.4 |
| 35° | 323.8 | 369.3 | 426.9 | 491.6 | 597.1 | 1297.4 | 6959.3 | 15424.5 | 17249.5 | 17441.3 |
| 37.5° | 278.2 | 316.6 | 376.5 | 426.9 | 539.6 | 1038.4 | 6393.4 | 16244.7 | 18403.0 | 18678.8 |
| 40° | 235.0 | 273.4 | 333.4 | 378.9 | 496.4 | 817.8 | 5882.5 | 17156.0 | 19618.8 | 19959.4 |
| 42.5° | 191.8 | 237.4 | 290.1 | 364.5 | 426.9 | 623.5 | 5263.8 | 17894.6 | 20532.5 | 20959.4 |
| 45° | 153.5 | 203.9 | 261.4 | 362.1 | 371.7 | 474.8 | 4666.7 | 18470.1 | 21340.6 | 21724.4 |
| 47.5° | 122.3 | 172.7 | 251.8 | 338.2 | 304.5 | 376.5 | 4326.2 | 19072.0 | 22012.2 | 22319.1 |
| 50° | 98.3 | 143.9 | 263.8 | 297.4 | 254.2 | 318.9 | 4316.6 | 19743.6 | 22359.8 | 22563.7 |
| 52.5° | 79.1 | 117.5 | 223.0 | 227.8 | 215.8 | 280.6 | 4575.5 | 20499.0 | 22714.7 | 22882.6 |
| 55° | 67.1 | 98.3 | 146.2 | 167.9 | 194.3 | 254.2 | 4769.8 | 21662.0 | 23561.3 | 23719.6 |
| 57.5° | 52.7 | 83.9 | 112.7 | 134.3 | 172.7 | 232.6 | 4796.2 | 22558.9 | 24633.2 | 24736.3 |
| 59° | 45.6 | 71.9 | 100.8 | 119.9 | 158.3 | 218.2 | 4688.2 | 22614.1 | 24702.8 | 24868.3 |
| 60° | 38.3 | 64.8 | 88.7 | 112.7 | 146.2 | 206.2 | 4570.8 | 22213.6 | 24443.8 | 24628.4 |
| 62.5° | 28.8 | 50.4 | 64.8 | 91.2 | 119.9 | 177.5 | 4014.4 | 20815.5 | 23453.4 | 23582.9 |
| 65° | 19.2 | 36.0 | 47.9 | 67.1 | 93.5 | 153.5 | 3271.0 | 19002.6 | 21923.4 | 22213.6 |
| 67.5° | 12.0 | 26.4 | 38.3 | 50.4 | 76.7 | 129.5 | 2330.9 | 16295.0 | 19781.9 | 19969.0 |
| 70° | 7.2 | 16.8 | 28.8 | 40.8 | 60.0 | 103.1 | 1383.7 | 12880.2 | 16458.1 | 16496.6 |
| 72.5° | 4.8 | 12.0 | 19.2 | 28.8 | 47.9 | 93.5 | 671.5 | 8395.7 | 12016.9 | 12474.9 |
| 75° | 2.4 | 7.2 | 12.0 | 21.6 | 38.3 | 76.7 | 321.3 | 5609.1 | 8743.5 | 8875.3 |
| 77.5° | 0.0 | 2.4 | 7.2 | 14.4 | 28.8 | 60.0 | 187.0 | 3683.5 | 5961.7 | 6098.3 |
| 80° | 0.0 | 0.0 | 4.8 | 12.0 | 21.6 | 38.3 | 112.7 | 2172.6 | 3611.5 | 3678.7 |
| 82.5° | 0.0 | 0.0 | 2.4 | 9.6 | 14.4 | 28.8 | 57.5 | 954.5 | 2364.6 | 2388.5 |
| 85° | 0.0 | 0.0 | 2.4 | 9.6 | 12.0 | 19.2 | 21.6 | 129.5 | 1050.3 | 1069.6 |
| 87.5° | 0.0 | 0.0 | 2.4 | 12.0 | 12.0 | 12.0 | 12.0 | 7.2 | 88.7 | 110.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)