

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: P533118

Luminaire Tested: **GALN-SA8C-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46339 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

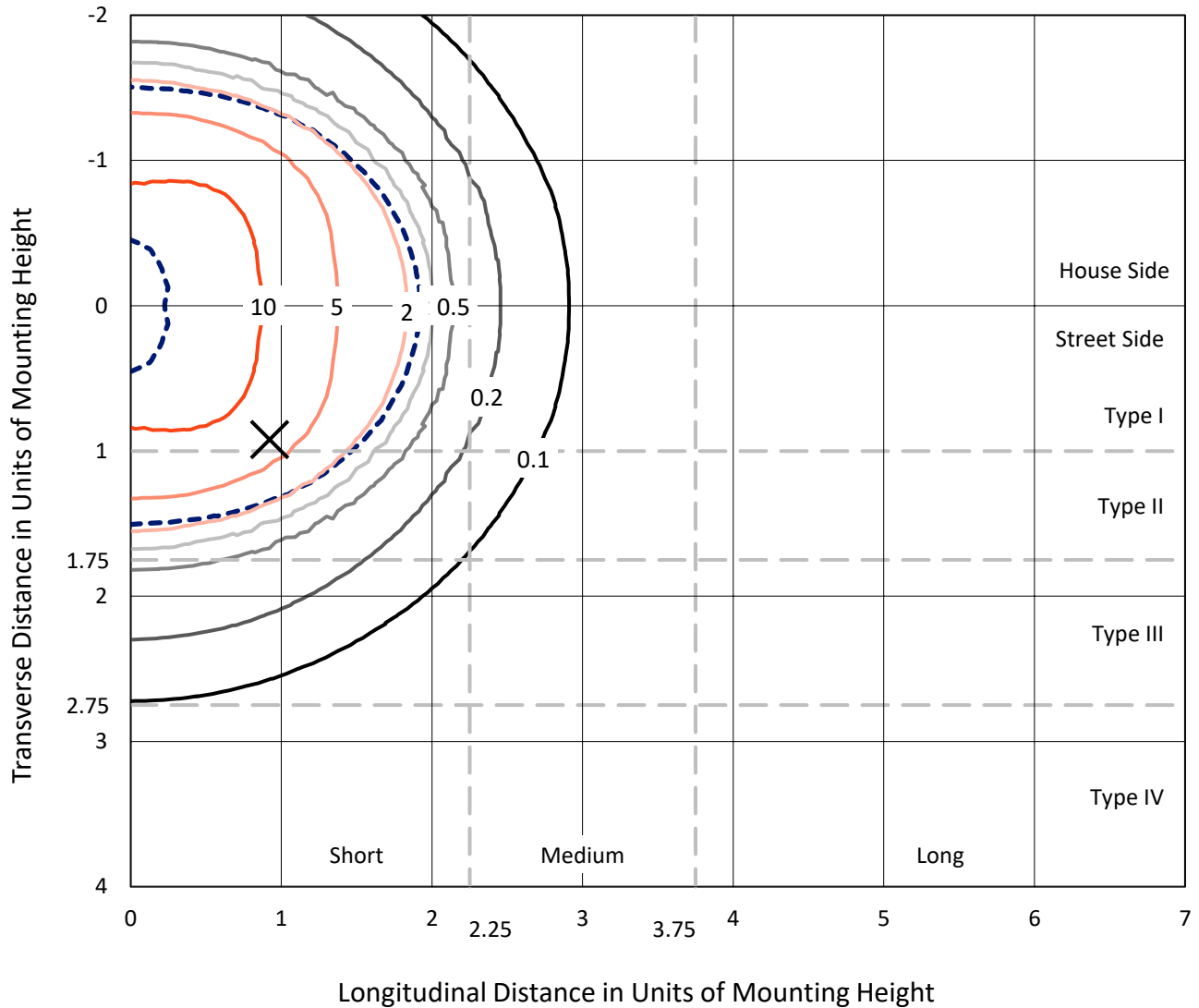
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

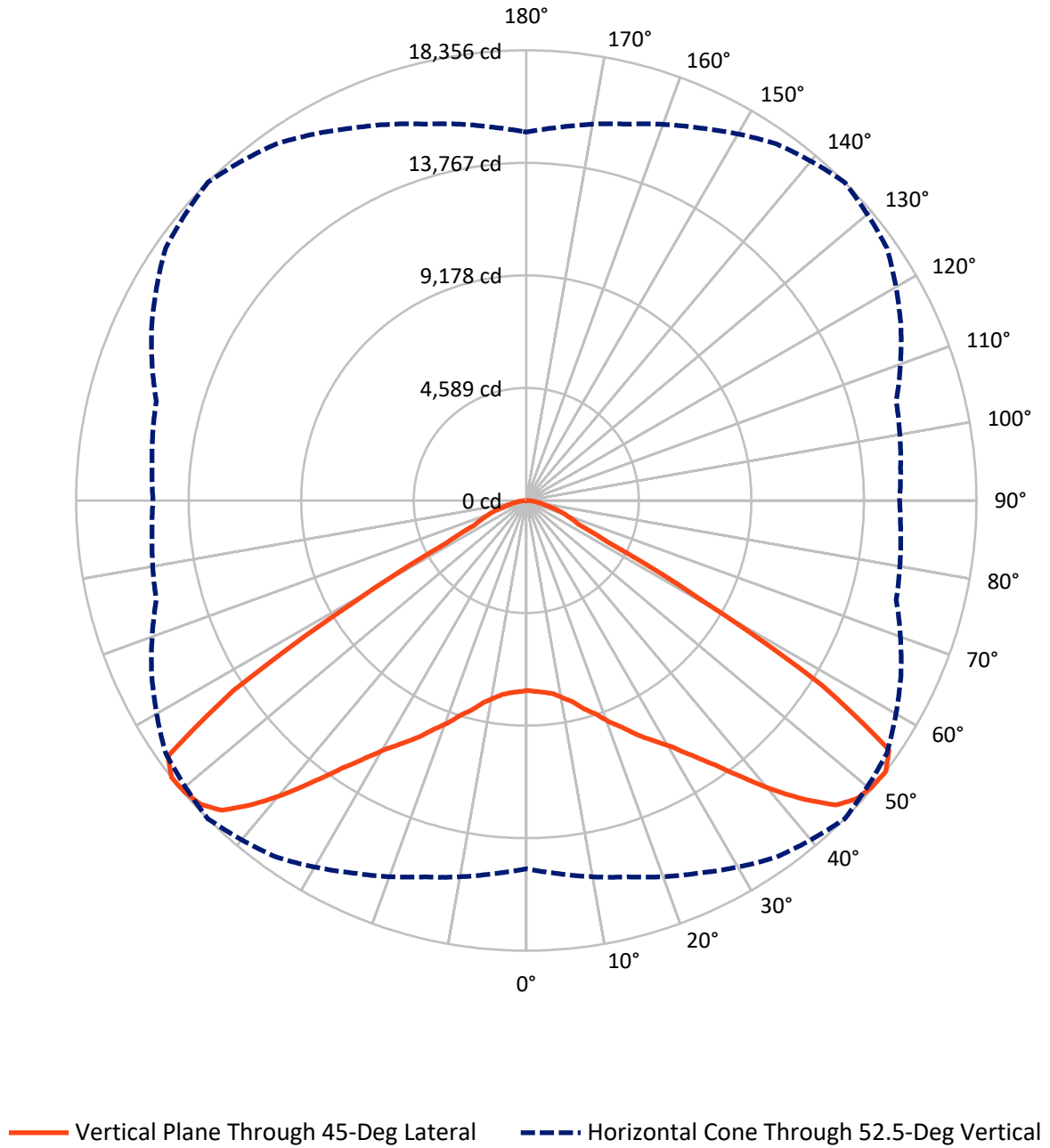
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23169.5 | 0.0 | 23169.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23169.5 | 0.0 | 23169.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 46339.0 | 0.0 | 46339.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 761.0 | 1.6 |
| 10°-20° | 2500.7 | 5.4 |
| 20°-30° | 4761.0 | 10.3 |
| 30°-40° | 8175.0 | 17.6 |
| 40°-50° | 12565.2 | 27.1 |
| 50°-60° | 12759.7 | 27.5 |
| 60°-70° | 3556.0 | 7.7 |
| 70°-80° | 1049.0 | 2.3 |
| 80°-90° | 211.3 | 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° | 46339.0 | 100.0 |
| 0°-180° | 46339.0 | 100.0 |



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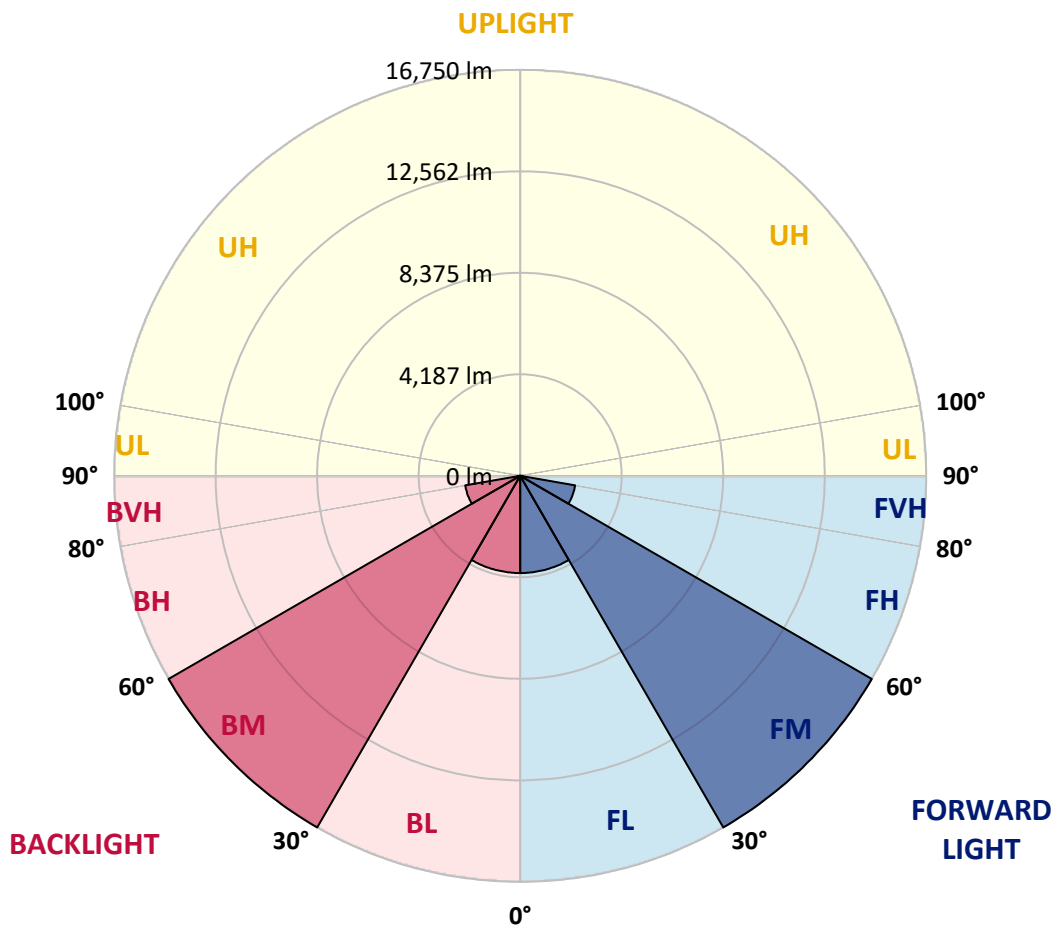
CATALOG NUMBER: GALN-SA8C-735-U-RW-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4011.4 | 8.7 | | | |
| FM (30°-60°) | 16750.0 | 36.1 | | | |
| FH (60°-80°) | 2302.5 | 5.0 | | | G2/5000 |
| FVH (80°-90°) | 105.6 | 0.2 | | | G2/225 |
| BL (0°-30°) | 4011.4 | 8.7 | B4/5000 | | |
| BM (30°-60°) | 16750.0 | 36.1 | B5 | | |
| BH (60°-80°) | 2302.5 | 5.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 105.6 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 | 7746.2 |
| 2.5° | 7763.4 | 7682.9 | 7711.7 | 7728.9 | 7803.7 | 7797.9 | 7780.7 | 7803.7 | 7826.7 | 7832.4 | 7820.9 |
| 5° | 7757.7 | 7700.2 | 7723.2 | 7740.4 | 7815.2 | 7855.4 | 7843.9 | 7941.7 | 8010.7 | 7993.5 | 8079.7 |
| 7.5° | 7711.7 | 7746.2 | 7717.4 | 7803.7 | 7866.9 | 7964.7 | 8068.2 | 8160.2 | 8246.5 | 8344.2 | 8361.5 |
| 10° | 7815.2 | 7815.2 | 7866.9 | 7935.9 | 8102.7 | 8177.5 | 8327.0 | 8459.3 | 8626.0 | 8741.0 | 8695.0 |
| 12.5° | 7924.4 | 7941.7 | 7941.7 | 8120.0 | 8258.0 | 8424.8 | 8562.8 | 8741.0 | 8976.8 | 9114.8 | 9183.8 |
| 15° | 8033.7 | 8045.2 | 8102.7 | 8344.2 | 8551.3 | 8815.8 | 8942.3 | 9103.3 | 9235.6 | 9494.4 | 9500.1 |
| 17.5° | 8131.5 | 8194.7 | 8367.2 | 8637.5 | 8896.3 | 9149.3 | 9350.6 | 9517.4 | 9632.4 | 9735.9 | 9712.9 |
| 20° | 8499.5 | 8545.5 | 8723.8 | 8994.1 | 9379.4 | 9626.6 | 9695.7 | 9724.4 | 9799.2 | 10006.2 | 9942.9 |
| 22.5° | 8856.1 | 8873.3 | 9040.1 | 9454.1 | 9724.4 | 10052.2 | 10127.0 | 10109.7 | 10138.5 | 10190.2 | 10282.2 |
| 25° | 9224.1 | 9252.9 | 9482.9 | 9833.7 | 10213.2 | 10604.3 | 10667.5 | 10535.3 | 10495.0 | 10552.5 | 10558.3 |
| 27.5° | 9695.7 | 9701.4 | 9994.7 | 10299.5 | 10730.8 | 11098.8 | 11196.6 | 11093.1 | 10903.3 | 10949.3 | 11024.1 |
| 30° | 10293.7 | 10253.5 | 10546.8 | 10983.8 | 11438.1 | 11645.1 | 11811.9 | 11760.2 | 11553.1 | 11512.9 | 11449.6 |
| 32.5° | 10983.8 | 10995.3 | 11259.8 | 11737.2 | 12036.2 | 12381.2 | 12559.5 | 12473.2 | 12341.0 | 12272.0 | 12312.2 |
| 35° | 11955.7 | 12007.4 | 12185.7 | 12582.5 | 13065.6 | 13238.1 | 13519.9 | 13335.8 | 12990.8 | 13077.1 | 13151.8 |
| 37.5° | 12755.0 | 12904.5 | 13238.1 | 13709.6 | 13997.2 | 14313.5 | 14417.0 | 14169.7 | 13916.7 | 13813.1 | 14060.4 |
| 40° | 13979.9 | 13933.9 | 14302.0 | 14773.5 | 15199.1 | 15515.4 | 15383.1 | 15135.8 | 14509.0 | 14514.7 | 14583.7 |
| 42.5° | 15032.3 | 15055.3 | 15337.1 | 15900.6 | 16481.5 | 16677.0 | 16257.2 | 15653.4 | 14957.5 | 14882.8 | 15032.3 |
| 45° | 15917.9 | 16009.9 | 16170.9 | 16924.3 | 17493.6 | 17706.4 | 16930.0 | 16216.9 | 15285.3 | 14974.8 | 15222.1 |
| 47.5° | 16234.2 | 16383.7 | 16734.5 | 17424.6 | 17988.1 | 18160.7 | 17539.6 | 16516.0 | 15590.1 | 15084.1 | 15216.3 |
| 50° | 16280.2 | 16228.4 | 16803.5 | 17436.1 | 17930.6 | 18304.4 | 17758.1 | 16734.5 | 15515.4 | 15250.8 | 15210.6 |
| 52.5° | 15020.8 | 15273.8 | 15889.1 | 16757.5 | 17758.1 | 18356.2 | 17953.6 | 16855.3 | 15618.9 | 15319.8 | 15222.1 |
| 55° | 12157.0 | 11857.9 | 12979.3 | 14440.0 | 16280.2 | 17942.1 | 17884.6 | 16918.5 | 15682.1 | 15434.8 | 15302.6 |
| 57.5° | 6785.8 | 6872.1 | 7504.6 | 9091.8 | 11466.9 | 14227.2 | 15900.6 | 16251.4 | 15653.4 | 15509.6 | 15578.6 |
| 60° | 3139.9 | 3168.6 | 3438.9 | 4180.7 | 5652.9 | 8068.2 | 10270.7 | 12507.7 | 13537.1 | 13744.1 | 13744.1 |
| 62.5° | 2340.5 | 2329.0 | 2398.0 | 2530.3 | 2840.8 | 3709.2 | 4951.3 | 6728.3 | 8143.0 | 9132.1 | 9390.9 |
| 65° | 2116.3 | 2110.5 | 2145.0 | 2191.0 | 2214.0 | 2334.8 | 2610.8 | 3157.1 | 3617.2 | 3881.7 | 3835.7 |
| 67.5° | 1851.7 | 1846.0 | 1857.5 | 1886.2 | 1926.5 | 1989.7 | 2058.7 | 2173.8 | 2334.8 | 2323.3 | 2294.5 |
| 70° | 1495.2 | 1495.2 | 1512.4 | 1535.4 | 1581.4 | 1656.2 | 1736.7 | 1817.2 | 1955.2 | 1984.0 | 1978.2 |
| 72.5° | 1104.1 | 1086.9 | 1121.4 | 1167.4 | 1213.4 | 1305.4 | 1391.7 | 1466.4 | 1564.2 | 1592.9 | 1581.4 |
| 75° | 701.6 | 713.1 | 736.1 | 787.8 | 868.4 | 931.6 | 1023.6 | 1086.9 | 1150.1 | 1173.1 | 1178.9 |
| 77.5° | 391.0 | 402.5 | 442.8 | 506.1 | 586.6 | 655.6 | 736.1 | 787.8 | 828.1 | 833.8 | 839.6 |
| 80° | 235.8 | 241.5 | 281.8 | 339.3 | 408.3 | 483.1 | 546.3 | 598.1 | 632.6 | 615.3 | 609.6 |
| 82.5° | 143.8 | 149.5 | 184.0 | 235.8 | 293.3 | 350.8 | 419.8 | 465.8 | 500.3 | 477.3 | 454.3 |
| 85° | 74.8 | 80.5 | 109.3 | 143.8 | 189.8 | 218.5 | 218.5 | 195.5 | 189.8 | 178.3 | 172.5 |
| 87.5° | 23.0 | 23.0 | 28.8 | 34.5 | 28.8 | 34.5 | 40.3 | 46.0 | 46.0 | 51.8 | 46.0 |
| 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)