

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: P455063

Luminaire Tested: **GALN-SA6B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29450 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

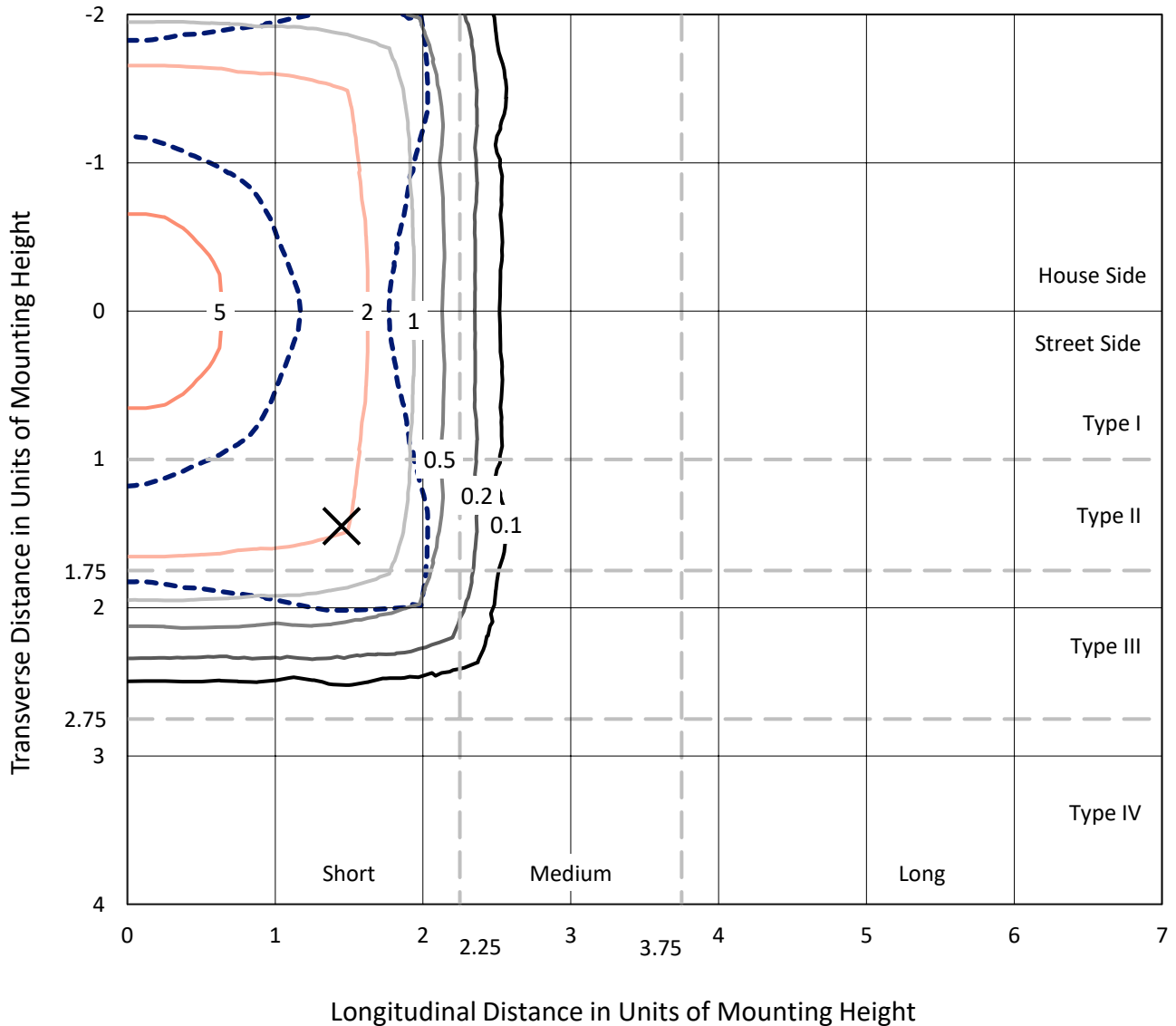
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

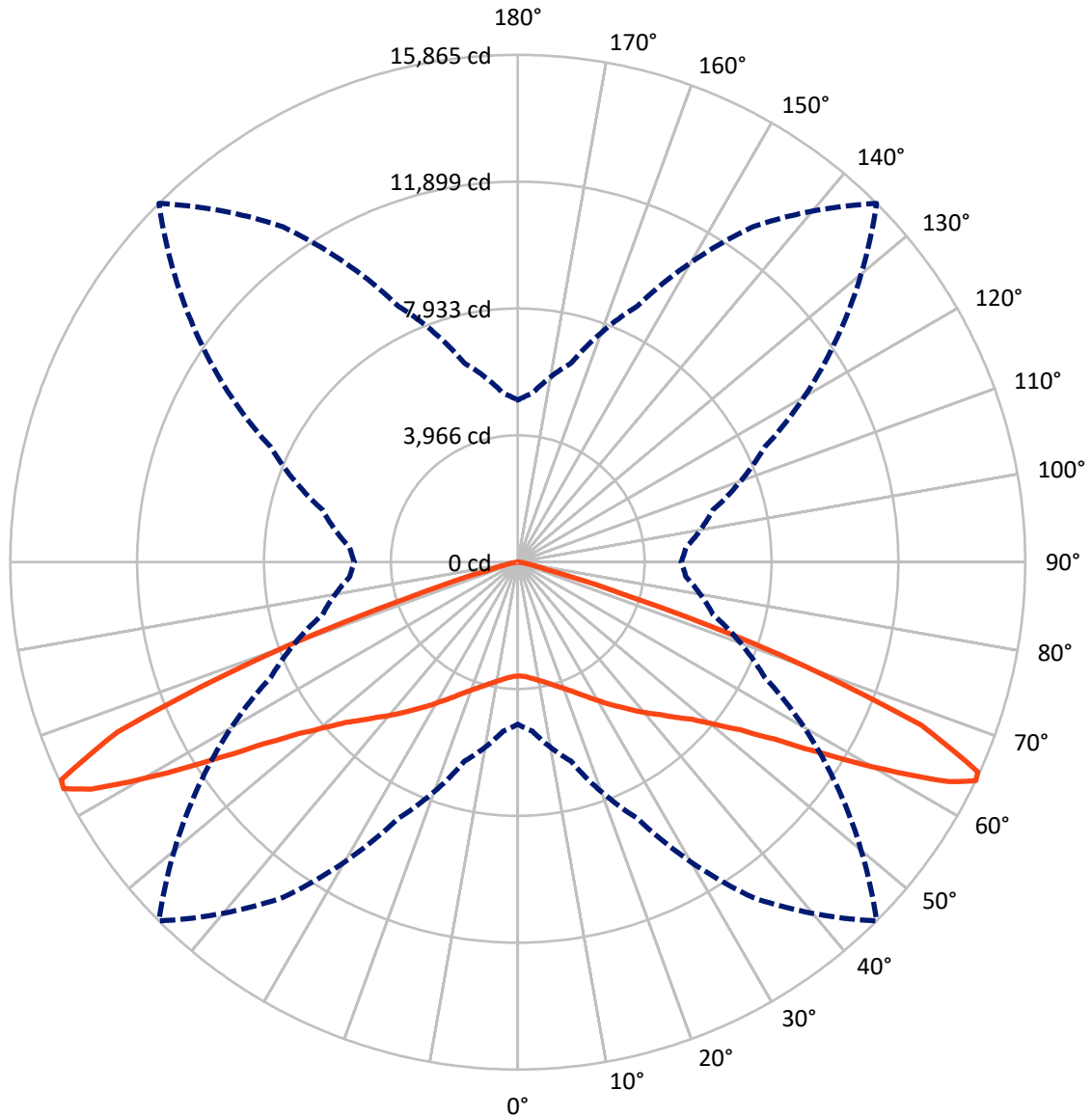
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14725.0 | 0.0 | 14725.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14725.0 | 0.0 | 14725.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29450.0 | 0.0 | 29450.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.7 | 1.2 |
| 10°-20° | 1128.0 | 3.8 |
| 20°-30° | 2131.6 | 7.2 |
| 30°-40° | 3530.2 | 12.0 |
| 40°-50° | 5511.2 | 18.7 |
| 50°-60° | 8520.2 | 28.9 |
| 60°-70° | 7346.8 | 24.9 |
| 70°-80° | 832.6 | 2.8 |
| 80°-90° | 99.8 | 0.3 |
| 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° | 29450.0 | 100.0 |
| 0°-180° | 29450.0 | 100.0 |



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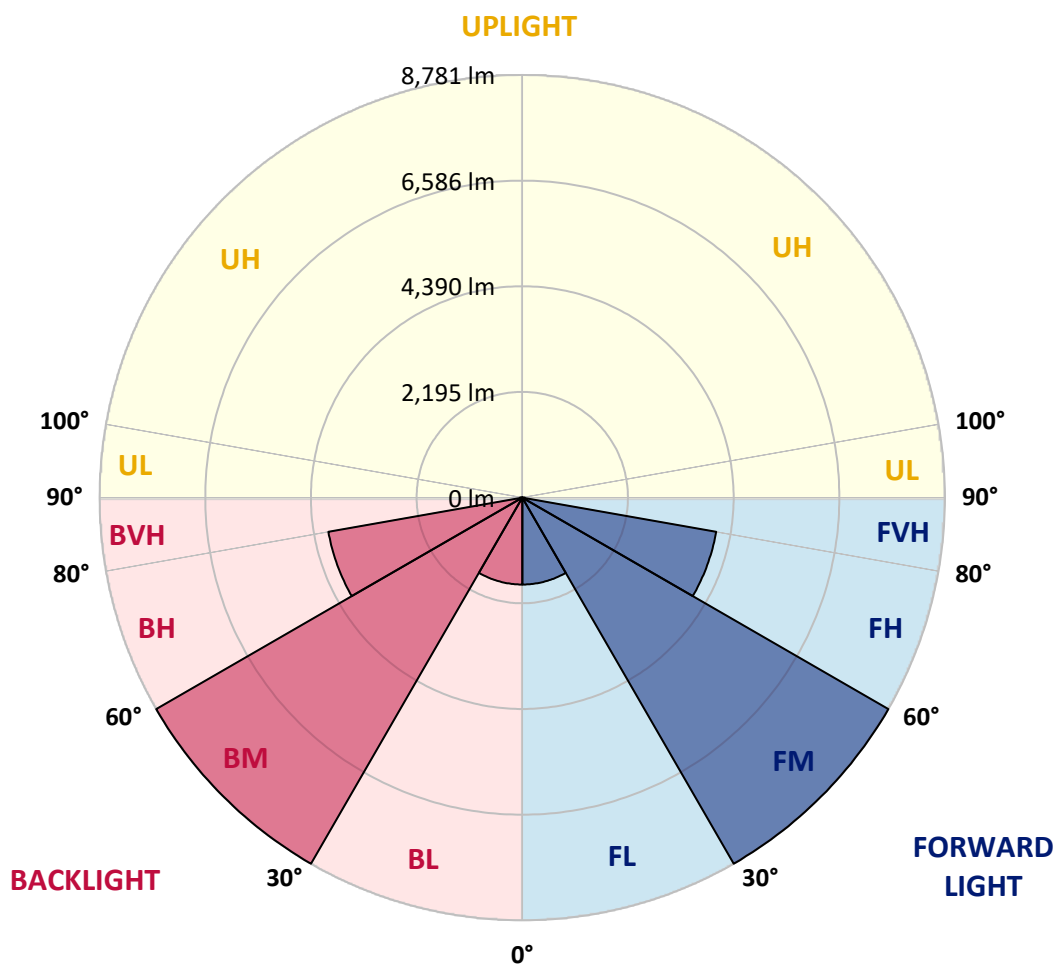
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1804.7 | 6.1 | | | |
| FM | (30°-60°) | 8780.8 | 29.8 | | | |
| FH | (60°-80°) | 4089.7 | 13.9 | | | G2/5000 |
| FVH | (80°-90°) | 49.9 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 1804.7 | 6.1 | B3/2500 | | |
| BM | (30°-60°) | 8780.8 | 29.8 | B5 | | |
| BH | (60°-80°) | 4089.7 | 13.9 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 49.9 | 0.2 | | | G1/100 |
| 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° | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 | 3559.5 |
| 2.5° | 3573.6 | 3581.4 | 3575.1 | 3573.6 | 3572.0 | 3572.0 | 3572.0 | 3573.6 | 3579.8 | 3584.5 | 3581.4 |
| 5° | 3618.8 | 3625.0 | 3621.9 | 3620.4 | 3618.8 | 3620.4 | 3617.2 | 3615.7 | 3620.4 | 3620.4 | 3618.8 |
| 7.5° | 3675.0 | 3682.8 | 3679.6 | 3682.8 | 3684.3 | 3685.9 | 3678.1 | 3671.8 | 3670.3 | 3675.0 | 3671.8 |
| 10° | 3751.4 | 3757.6 | 3759.2 | 3760.7 | 3763.9 | 3762.3 | 3752.9 | 3742.0 | 3740.5 | 3738.9 | 3737.3 |
| 12.5° | 3837.2 | 3841.9 | 3843.4 | 3849.7 | 3854.3 | 3855.9 | 3845.0 | 3835.6 | 3820.0 | 3823.1 | 3816.9 |
| 15° | 3933.9 | 3943.2 | 3941.7 | 3951.0 | 3963.5 | 3966.6 | 3955.7 | 3940.1 | 3926.1 | 3918.3 | 3913.6 |
| 17.5° | 4052.4 | 4058.7 | 4055.6 | 4064.9 | 4080.5 | 4088.3 | 4079.0 | 4058.7 | 4044.6 | 4027.5 | 4018.1 |
| 20° | 4192.8 | 4203.7 | 4206.9 | 4206.9 | 4220.9 | 4228.7 | 4214.7 | 4208.4 | 4186.6 | 4174.1 | 4166.3 |
| 22.5° | 4351.9 | 4356.6 | 4366.0 | 4375.3 | 4389.4 | 4386.2 | 4381.6 | 4372.2 | 4351.9 | 4341.0 | 4328.5 |
| 25° | 4531.3 | 4536.0 | 4559.4 | 4579.7 | 4584.3 | 4581.2 | 4575.0 | 4570.3 | 4551.6 | 4526.6 | 4517.3 |
| 27.5° | 4740.3 | 4749.7 | 4780.9 | 4799.6 | 4799.6 | 4801.2 | 4788.7 | 4804.3 | 4763.7 | 4734.1 | 4731.0 |
| 30° | 5002.4 | 5008.6 | 5035.1 | 5053.8 | 5044.5 | 5036.7 | 5033.6 | 5049.2 | 5005.5 | 4952.5 | 4940.0 |
| 32.5° | 5261.3 | 5283.1 | 5306.5 | 5347.1 | 5314.3 | 5300.3 | 5297.2 | 5308.1 | 5258.2 | 5198.9 | 5181.7 |
| 35° | 5538.9 | 5554.5 | 5598.2 | 5632.5 | 5602.9 | 5570.1 | 5584.2 | 5618.5 | 5559.2 | 5479.7 | 5476.6 |
| 37.5° | 5846.2 | 5860.3 | 5916.4 | 5952.3 | 5930.5 | 5874.3 | 5897.7 | 5938.3 | 5879.0 | 5780.7 | 5760.4 |
| 40° | 6166.0 | 6195.6 | 6265.8 | 6303.3 | 6267.4 | 6192.5 | 6236.2 | 6279.9 | 6226.8 | 6113.0 | 6067.7 |
| 42.5° | 6524.8 | 6571.6 | 6672.9 | 6691.7 | 6623.0 | 6521.6 | 6598.1 | 6668.3 | 6630.8 | 6499.8 | 6482.6 |
| 45° | 6944.4 | 6972.4 | 7097.2 | 7137.8 | 7042.6 | 6916.3 | 7011.4 | 7139.3 | 7111.3 | 6960.0 | 6927.2 |
| 47.5° | 7413.9 | 7440.4 | 7569.8 | 7630.7 | 7510.6 | 7340.6 | 7512.1 | 7679.0 | 7661.9 | 7499.7 | 7484.1 |
| 50° | 7969.2 | 7975.4 | 8154.8 | 8223.4 | 8103.3 | 7956.7 | 8109.5 | 8317.0 | 8248.4 | 8040.9 | 8037.8 |
| 52.5° | 8577.5 | 8585.3 | 8811.5 | 8944.1 | 8877.0 | 8711.6 | 8892.6 | 9018.9 | 8844.2 | 8572.8 | 8552.5 |
| 55° | 9104.7 | 9143.7 | 9452.6 | 9805.1 | 9897.1 | 9777.0 | 9831.6 | 9772.3 | 9341.8 | 8961.2 | 8901.9 |
| 57.5° | 9320.0 | 9396.4 | 9865.9 | 10524.2 | 11123.1 | 11301.0 | 10879.8 | 10315.1 | 9539.9 | 9001.8 | 8944.1 |
| 60° | 8794.3 | 8877.0 | 9605.4 | 10854.8 | 12383.5 | 13155.6 | 11971.7 | 10407.2 | 9089.1 | 8332.6 | 8242.1 |
| 62.5° | 7042.6 | 7066.0 | 8137.6 | 10076.5 | 13118.2 | 15117.9 | 12431.8 | 9622.6 | 7777.3 | 6749.4 | 6713.5 |
| 64° | 5067.9 | 5308.1 | 6443.6 | 8834.9 | 12796.8 | 15865.0 | 12166.7 | 8522.9 | 6317.3 | 5276.9 | 5108.4 |
| 65° | 3790.4 | 3855.9 | 5194.2 | 7544.9 | 12230.6 | 15808.9 | 11651.9 | 7471.6 | 5231.7 | 4038.4 | 3851.2 |
| 67.5° | 1431.9 | 1439.7 | 1917.0 | 3760.7 | 8707.0 | 13601.7 | 8892.6 | 4064.9 | 2204.0 | 1594.1 | 1536.4 |
| 70° | 594.3 | 605.2 | 703.5 | 1265.0 | 3742.0 | 8733.5 | 4288.0 | 1466.2 | 806.4 | 653.6 | 644.2 |
| 72.5° | 435.2 | 441.4 | 471.1 | 561.5 | 1151.2 | 3586.0 | 1410.1 | 622.4 | 472.6 | 422.7 | 418.0 |
| 75° | 341.6 | 344.7 | 366.6 | 413.4 | 536.6 | 993.6 | 586.5 | 427.4 | 360.3 | 324.4 | 321.3 |
| 77.5° | 260.5 | 268.3 | 283.9 | 315.1 | 360.3 | 471.1 | 388.4 | 319.8 | 277.6 | 248.0 | 243.3 |
| 80° | 179.4 | 188.7 | 218.4 | 230.9 | 241.8 | 305.7 | 265.2 | 241.8 | 216.8 | 180.9 | 170.0 |
| 82.5° | 110.7 | 117.0 | 146.6 | 157.5 | 152.9 | 171.6 | 170.0 | 173.1 | 154.4 | 112.3 | 104.5 |
| 85° | 57.7 | 60.8 | 79.6 | 82.7 | 76.4 | 70.2 | 87.4 | 101.4 | 95.1 | 64.0 | 62.4 |
| 87.5° | 12.5 | 14.0 | 17.2 | 15.6 | 17.2 | 17.2 | 21.8 | 32.8 | 34.3 | 21.8 | 20.3 |
| 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)