

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: P533681

Luminaire Tested: **GALN-SA9A-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18290 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

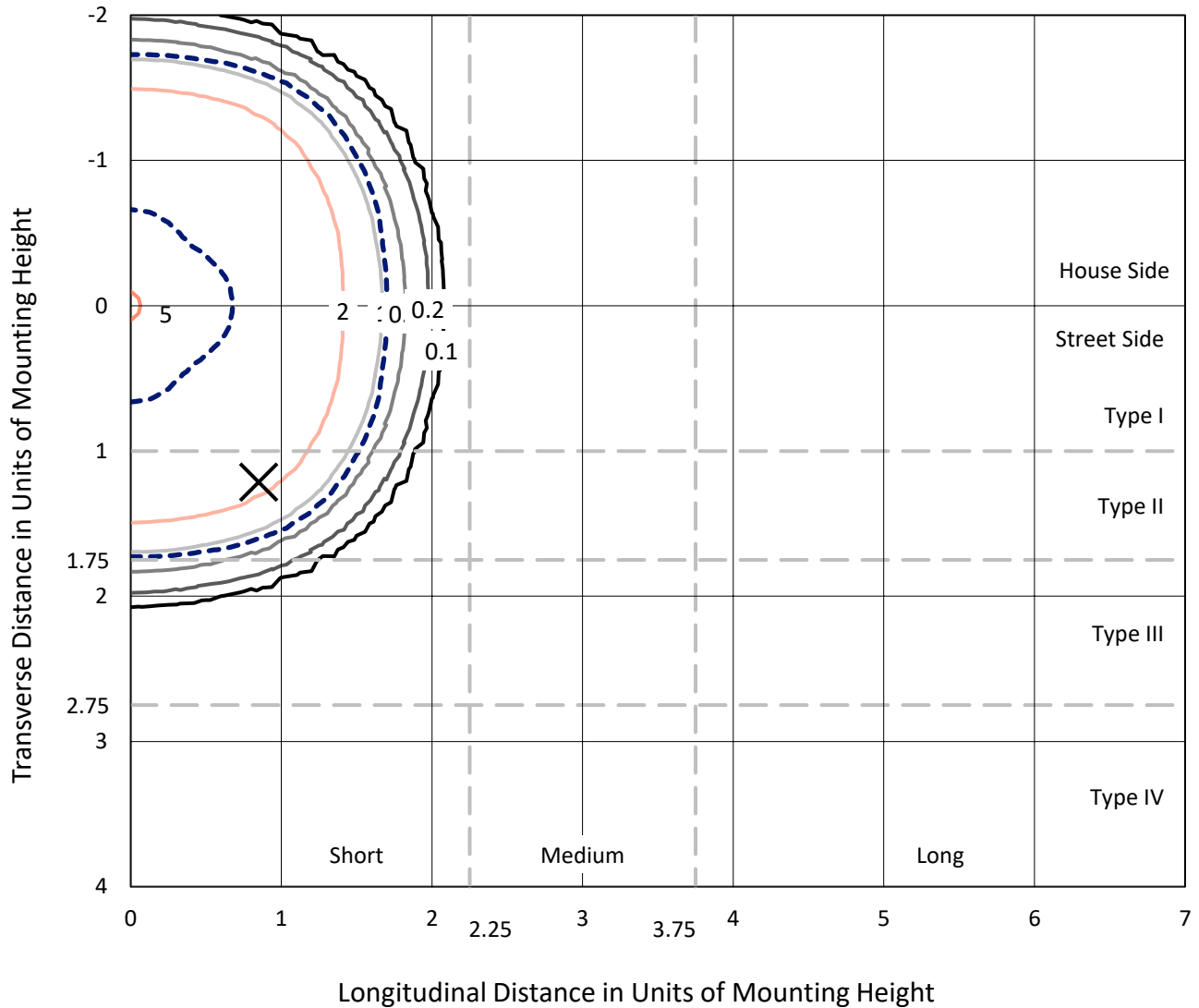
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

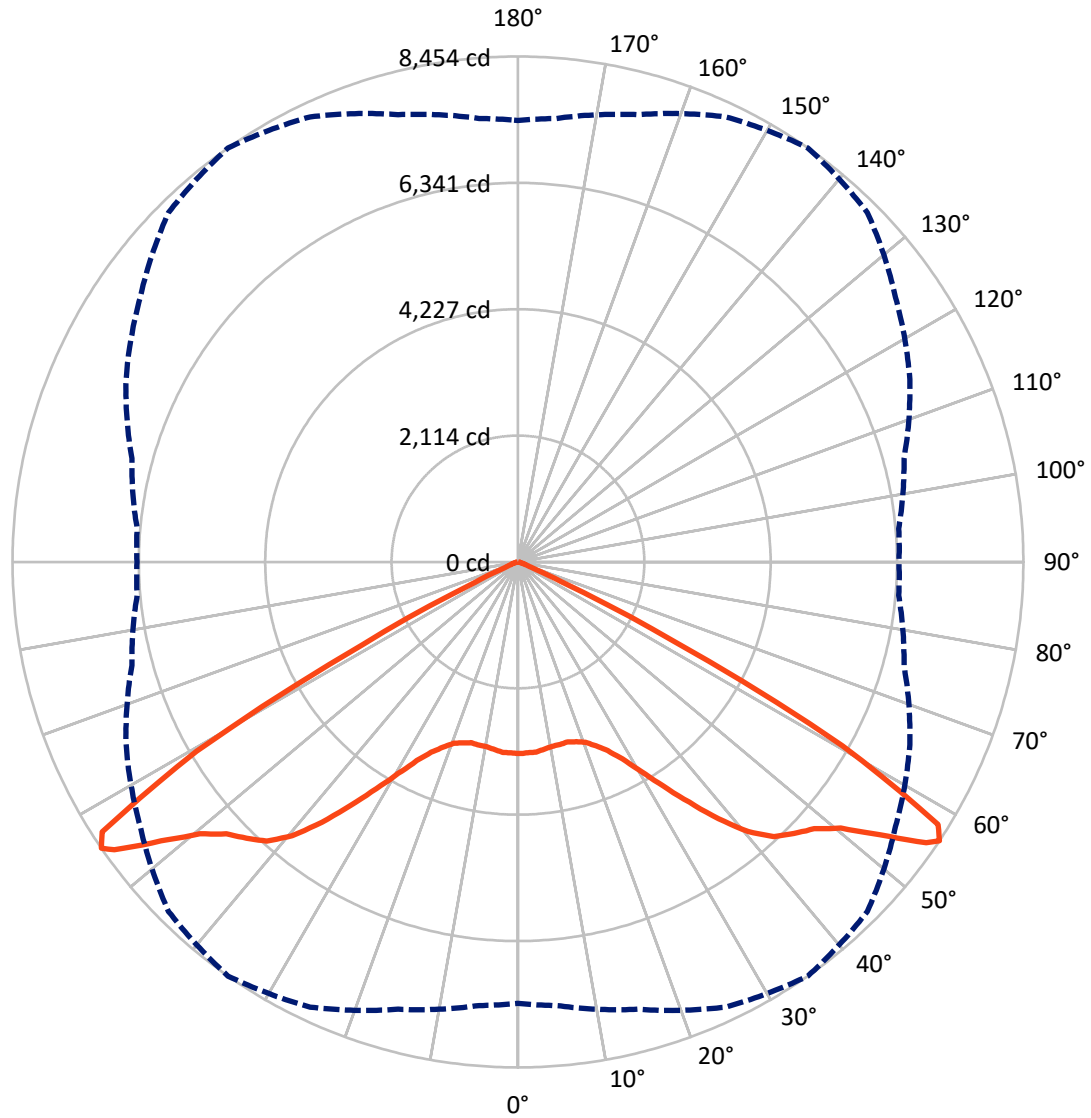
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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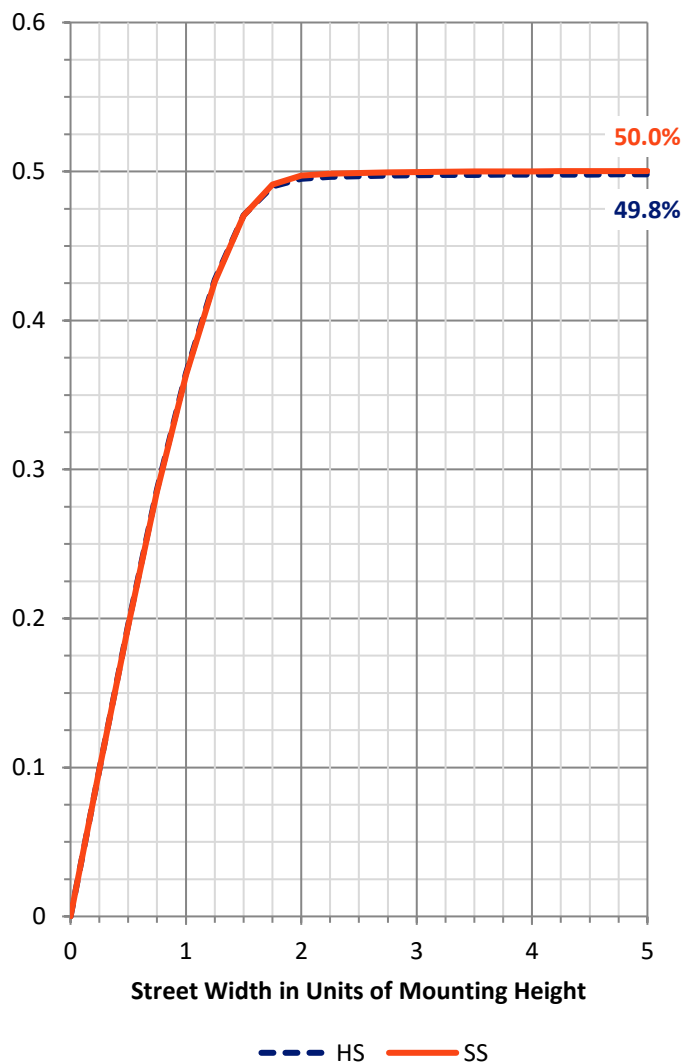
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9145.0 | 0.0 | 9145.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9145.0 | 0.0 | 9145.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18290.0 | 0.0 | 18290.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 301.2 | 1.6 |
| 10°-20° | 879.4 | 4.8 |
| 20°-30° | 1592.4 | 8.7 |
| 30°-40° | 2952.9 | 16.1 |
| 40°-50° | 4847.0 | 26.5 |
| 50°-60° | 6244.3 | 34.1 |
| 60°-70° | 1376.2 | 7.5 |
| 70°-80° | 79.8 | 0.4 |
| 80°-90° | 16.8 | 0.1 |
| 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° | 18290.0 | 100.0 |
| 0°-180° | 18290.0 | 100.0 |

Coefficient of Utilization



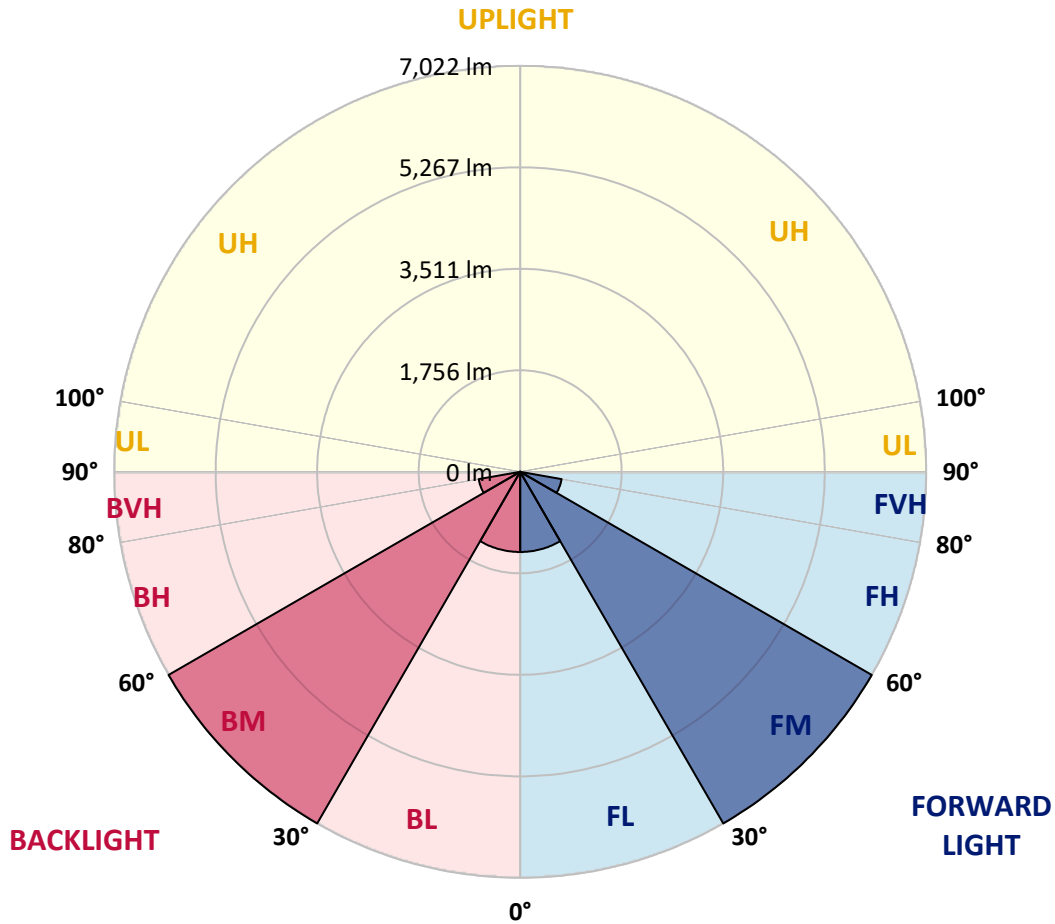
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1386.5 | 7.6 | | | |
| FM (30°-60°) | 7022.1 | 38.4 | | | |
| FH (60°-80°) | 728.0 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 8.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1386.5 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 7022.1 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 728.0 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 8.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 | 3204.8 |
| 2.5° | 3211.4 | 3211.4 | 3214.7 | 3218.1 | 3194.9 | 3184.9 | 3188.2 | 3181.6 | 3178.3 | 3188.2 | 3188.2 |
| 5° | 3201.5 | 3201.5 | 3191.5 | 3194.9 | 3194.9 | 3165.0 | 3165.0 | 3171.7 | 3171.7 | 3151.8 | 3145.1 |
| 7.5° | 3175.0 | 3168.3 | 3155.1 | 3171.7 | 3161.7 | 3161.7 | 3138.5 | 3121.9 | 3115.3 | 3128.6 | 3115.3 |
| 10° | 3118.6 | 3121.9 | 3135.2 | 3141.8 | 3135.2 | 3155.1 | 3115.3 | 3092.1 | 3068.9 | 3059.0 | 3059.0 |
| 12.5° | 3092.1 | 3112.0 | 3092.1 | 3108.7 | 3131.9 | 3115.3 | 3092.1 | 3075.5 | 3042.4 | 3029.2 | 3029.2 |
| 15° | 3088.8 | 3102.1 | 3108.7 | 3131.9 | 3121.9 | 3128.6 | 3082.2 | 3062.3 | 3012.6 | 2989.4 | 2979.4 |
| 17.5° | 3085.5 | 3102.1 | 3112.0 | 3155.1 | 3161.7 | 3165.0 | 3128.6 | 3068.9 | 3025.8 | 3002.6 | 2979.4 |
| 20° | 3121.9 | 3128.6 | 3148.5 | 3191.5 | 3218.1 | 3264.5 | 3198.2 | 3135.2 | 3042.4 | 3015.9 | 3006.0 |
| 22.5° | 3168.3 | 3201.5 | 3221.4 | 3267.8 | 3337.4 | 3377.1 | 3291.0 | 3211.4 | 3115.3 | 3082.2 | 3042.4 |
| 25° | 3317.5 | 3310.9 | 3344.0 | 3440.1 | 3496.4 | 3526.3 | 3456.7 | 3340.7 | 3214.7 | 3175.0 | 3181.6 |
| 27.5° | 3503.1 | 3509.7 | 3539.5 | 3645.6 | 3728.4 | 3774.8 | 3692.0 | 3539.5 | 3416.9 | 3350.6 | 3344.0 |
| 30° | 3745.0 | 3738.4 | 3771.5 | 3914.0 | 4063.2 | 4132.8 | 3986.9 | 3808.0 | 3688.7 | 3602.5 | 3622.4 |
| 32.5° | 4000.2 | 4003.5 | 4096.3 | 4225.6 | 4467.5 | 4603.4 | 4368.1 | 4149.3 | 3970.4 | 3910.7 | 3880.9 |
| 35° | 4378.0 | 4394.6 | 4467.5 | 4666.3 | 4934.8 | 5110.4 | 4851.9 | 4590.1 | 4384.6 | 4275.3 | 4288.5 |
| 37.5° | 4845.3 | 4828.7 | 4951.4 | 5166.8 | 5448.5 | 5577.7 | 5359.0 | 5060.7 | 4851.9 | 4779.0 | 4825.4 |
| 40° | 5342.4 | 5359.0 | 5422.0 | 5617.5 | 5932.4 | 6018.5 | 5693.7 | 5531.3 | 5349.1 | 5312.6 | 5369.0 |
| 42.5° | 5839.6 | 5829.6 | 5876.0 | 6051.7 | 6280.4 | 6220.7 | 6028.5 | 5932.4 | 5803.1 | 5730.2 | 5806.4 |
| 45° | 6204.1 | 6187.6 | 6273.7 | 6393.0 | 6475.9 | 6363.2 | 6277.0 | 6243.9 | 6177.6 | 6098.1 | 6167.7 |
| 47.5° | 6558.7 | 6545.5 | 6628.3 | 6661.5 | 6668.1 | 6519.0 | 6535.5 | 6595.2 | 6429.5 | 6263.8 | 6343.3 |
| 50° | 6860.3 | 6837.1 | 6939.9 | 7012.8 | 6996.2 | 6757.6 | 6817.2 | 6757.6 | 6499.1 | 6303.5 | 6273.7 |
| 52.5° | 7364.1 | 7374.0 | 7483.4 | 7616.0 | 7576.2 | 7377.3 | 7291.2 | 7019.4 | 6688.0 | 6512.3 | 6409.6 |
| 55° | 7682.2 | 7632.5 | 7821.4 | 8242.3 | 8288.7 | 8083.3 | 7702.1 | 7301.1 | 6804.0 | 6588.6 | 6562.1 |
| 56° | 7384.0 | 7446.9 | 7745.2 | 8215.8 | 8454.4 | 8265.5 | 7712.1 | 7231.5 | 6684.7 | 6393.0 | 6373.1 |
| 57.5° | 6625.0 | 6591.9 | 6996.2 | 7639.2 | 8288.7 | 8209.2 | 7440.3 | 6734.4 | 6098.1 | 5770.0 | 5730.2 |
| 60° | 4122.8 | 4218.9 | 4573.6 | 5369.0 | 6237.3 | 6277.0 | 5514.8 | 4908.3 | 4165.9 | 3874.3 | 3943.9 |
| 62.5° | 1614.0 | 1531.1 | 1753.2 | 2346.4 | 2943.0 | 3075.5 | 2787.2 | 2316.6 | 1902.3 | 1614.0 | 1594.1 |
| 65° | 374.5 | 364.6 | 411.0 | 566.7 | 792.1 | 918.0 | 871.6 | 626.4 | 460.7 | 437.5 | 404.3 |
| 67.5° | 212.1 | 212.1 | 202.2 | 202.2 | 222.0 | 235.3 | 225.4 | 222.0 | 232.0 | 241.9 | 238.6 |
| 70° | 149.1 | 145.8 | 139.2 | 142.5 | 135.9 | 135.9 | 145.8 | 162.4 | 175.7 | 175.7 | 179.0 |
| 72.5° | 89.5 | 89.5 | 89.5 | 99.4 | 99.4 | 99.4 | 109.4 | 122.6 | 125.9 | 122.6 | 119.3 |
| 75° | 39.8 | 39.8 | 46.4 | 56.3 | 63.0 | 66.3 | 76.2 | 82.9 | 89.5 | 82.9 | 76.2 |
| 77.5° | 9.9 | 9.9 | 16.6 | 23.2 | 29.8 | 36.5 | 49.7 | 59.7 | 63.0 | 59.7 | 49.7 |
| 80° | 3.3 | 3.3 | 6.6 | 16.6 | 29.8 | 36.5 | 49.7 | 53.0 | 56.3 | 49.7 | 39.8 |
| 82.5° | 3.3 | 3.3 | 6.6 | 16.6 | 23.2 | 29.8 | 39.8 | 46.4 | 49.7 | 43.1 | 39.8 |
| 85° | 0.0 | 3.3 | 6.6 | 13.3 | 19.9 | 26.5 | 26.5 | 19.9 | 16.6 | 9.9 | 13.3 |
| 87.5° | 0.0 | 0.0 | 3.3 | 3.3 | 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)