

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: P532563

Luminaire Tested: **GALN-SA8A-722-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532563
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-SA8A-722-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 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: 16292 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 - G0

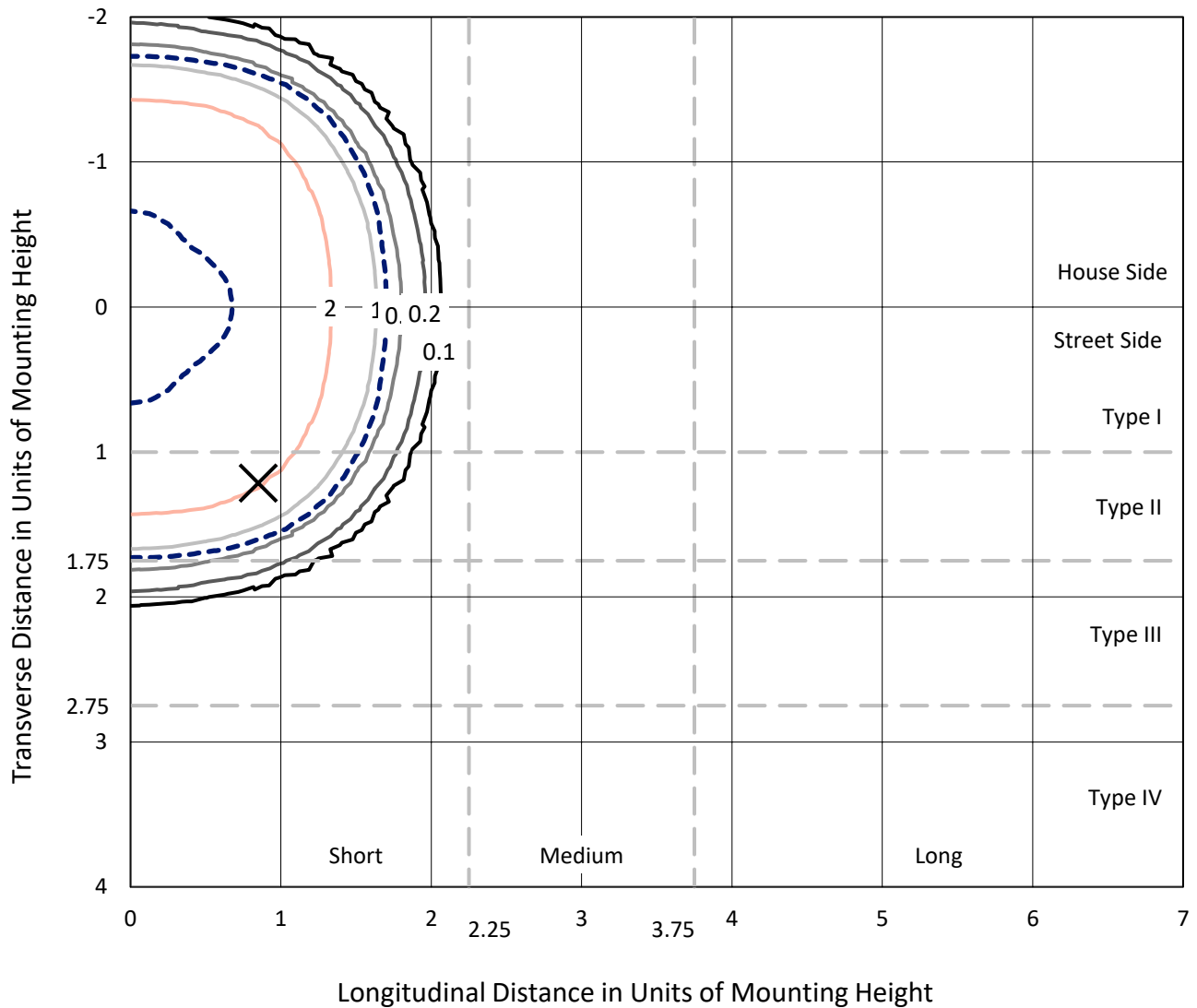
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

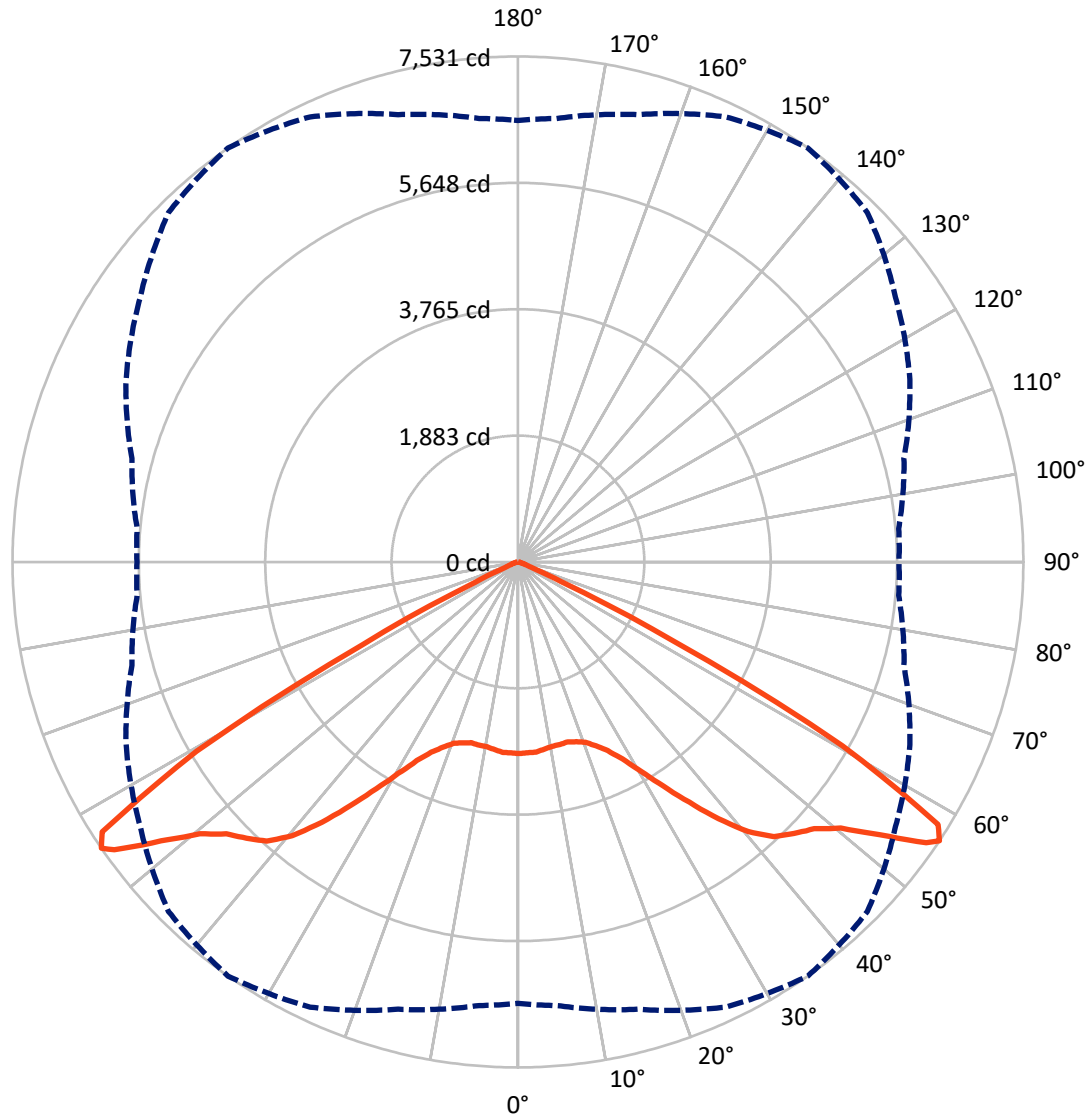
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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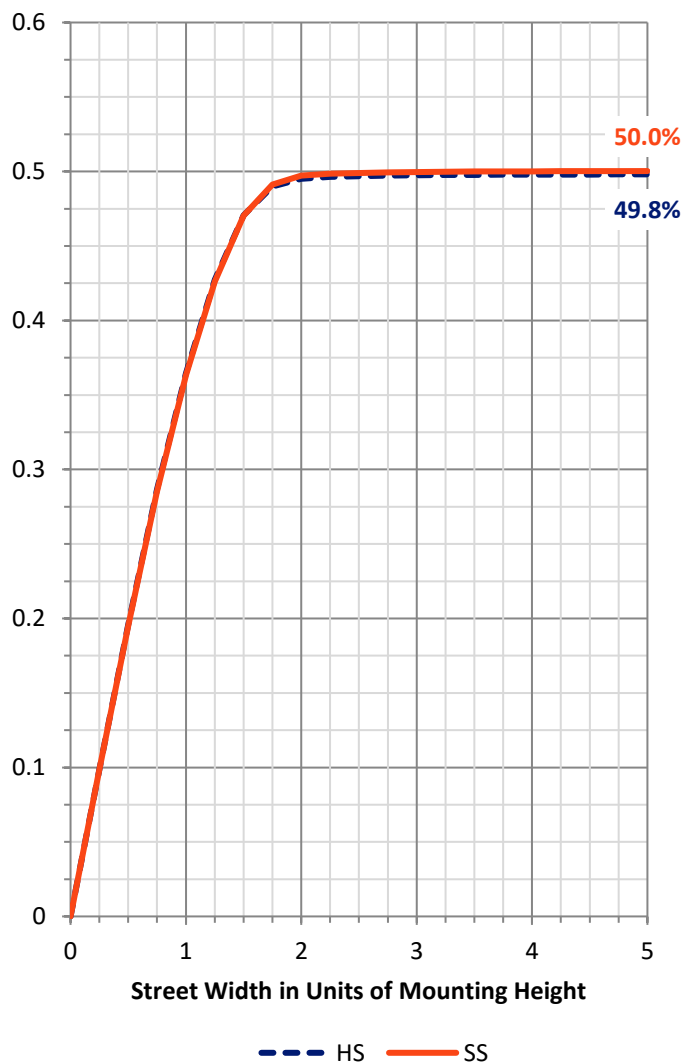
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8146.0 | 0.0 | 8146.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8146.0 | 0.0 | 8146.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16292.0 | 0.0 | 16292.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 268.3 | 1.6 |
| 10°-20° | 783.3 | 4.8 |
| 20°-30° | 1418.5 | 8.7 |
| 30°-40° | 2630.3 | 16.1 |
| 40°-50° | 4317.5 | 26.5 |
| 50°-60° | 5562.2 | 34.1 |
| 60°-70° | 1225.8 | 7.5 |
| 70°-80° | 71.1 | 0.4 |
| 80°-90° | 15.0 | 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° | 16292.0 | 100.0 |
| 0°-180° | 16292.0 | 100.0 |

Coefficient of Utilization

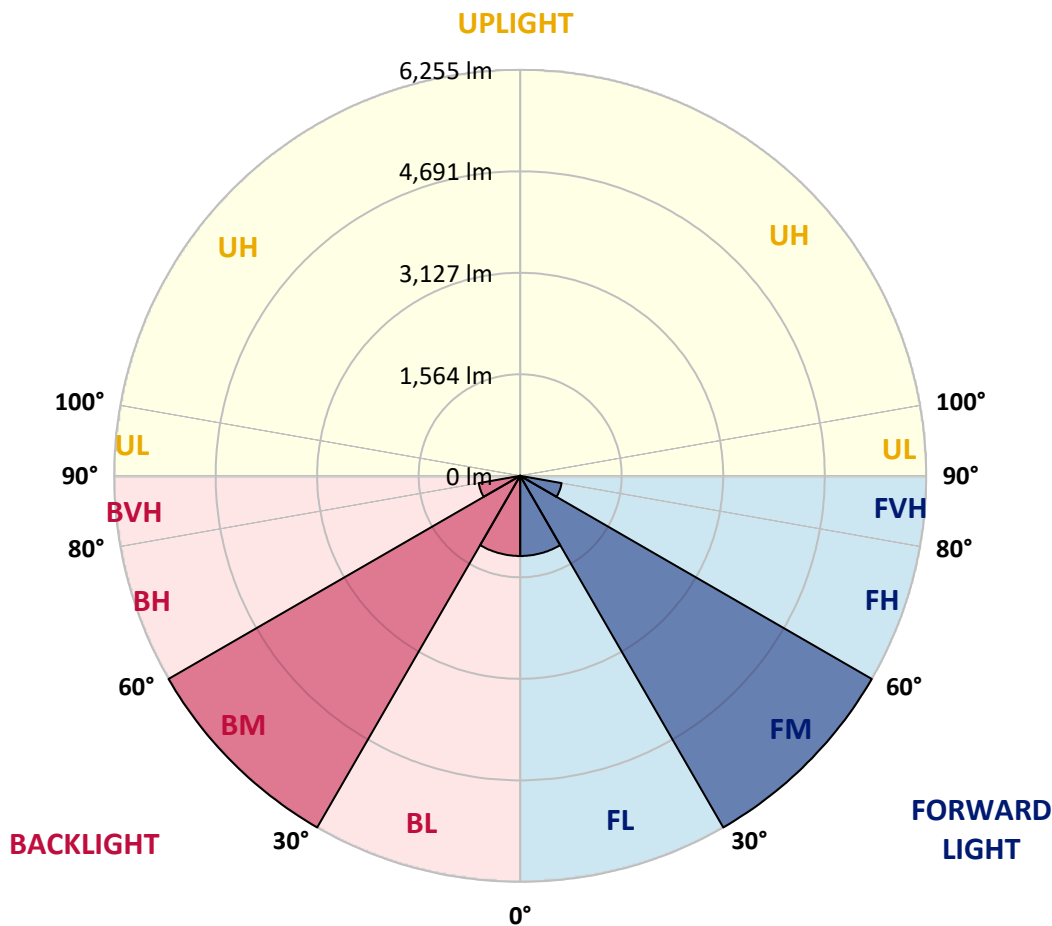


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1235.0 | 7.6 | | | |
| FM (30°-60°) | 6255.0 | 38.4 | | | |
| FH (60°-80°) | 648.5 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 7.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1235.0 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 6255.0 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 648.5 | 4.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 7.5 | 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-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 | 2854.7 |
| 2.5° | 2860.6 | 2860.6 | 2863.6 | 2866.5 | 2845.9 | 2837.0 | 2839.9 | 2834.0 | 2831.1 | 2839.9 | 2839.9 |
| 5° | 2851.8 | 2851.8 | 2842.9 | 2845.9 | 2845.9 | 2819.3 | 2819.3 | 2825.2 | 2825.2 | 2807.5 | 2801.6 |
| 7.5° | 2828.1 | 2822.2 | 2810.4 | 2825.2 | 2816.3 | 2816.3 | 2795.7 | 2780.9 | 2775.0 | 2786.8 | 2775.0 |
| 10° | 2778.0 | 2780.9 | 2792.7 | 2798.6 | 2792.7 | 2810.4 | 2775.0 | 2754.3 | 2733.7 | 2724.8 | 2724.8 |
| 12.5° | 2754.3 | 2772.0 | 2754.3 | 2769.1 | 2789.8 | 2775.0 | 2754.3 | 2739.6 | 2710.1 | 2698.2 | 2698.2 |
| 15° | 2751.4 | 2763.2 | 2769.1 | 2789.8 | 2780.9 | 2786.8 | 2745.5 | 2727.8 | 2683.5 | 2662.8 | 2654.0 |
| 17.5° | 2748.4 | 2763.2 | 2772.0 | 2810.4 | 2816.3 | 2819.3 | 2786.8 | 2733.7 | 2695.3 | 2674.6 | 2654.0 |
| 20° | 2780.9 | 2786.8 | 2804.5 | 2842.9 | 2866.5 | 2907.8 | 2848.8 | 2792.7 | 2710.1 | 2686.4 | 2677.6 |
| 22.5° | 2822.2 | 2851.8 | 2869.5 | 2910.8 | 2972.8 | 3008.2 | 2931.5 | 2860.6 | 2775.0 | 2745.5 | 2710.1 |
| 25° | 2955.1 | 2949.2 | 2978.7 | 3064.3 | 3114.5 | 3141.1 | 3079.1 | 2975.7 | 2863.6 | 2828.1 | 2834.0 |
| 27.5° | 3120.4 | 3126.3 | 3152.9 | 3247.3 | 3321.1 | 3362.5 | 3288.7 | 3152.9 | 3043.6 | 2984.6 | 2978.7 |
| 30° | 3335.9 | 3330.0 | 3359.5 | 3486.5 | 3619.3 | 3681.3 | 3551.4 | 3392.0 | 3285.7 | 3209.0 | 3226.7 |
| 32.5° | 3563.2 | 3566.2 | 3648.8 | 3764.0 | 3979.5 | 4100.5 | 3890.9 | 3696.1 | 3536.7 | 3483.5 | 3456.9 |
| 35° | 3899.8 | 3914.5 | 3979.5 | 4156.6 | 4395.7 | 4552.2 | 4321.9 | 4088.7 | 3905.7 | 3808.2 | 3820.1 |
| 37.5° | 4316.0 | 4301.3 | 4410.5 | 4602.4 | 4853.3 | 4968.4 | 4773.6 | 4507.9 | 4321.9 | 4257.0 | 4298.3 |
| 40° | 4758.8 | 4773.6 | 4829.7 | 5003.9 | 5284.3 | 5361.1 | 5071.8 | 4927.1 | 4764.7 | 4732.3 | 4782.4 |
| 42.5° | 5201.7 | 5192.8 | 5234.1 | 5390.6 | 5594.3 | 5541.1 | 5369.9 | 5284.3 | 5169.2 | 5104.2 | 5172.1 |
| 45° | 5526.4 | 5511.6 | 5588.4 | 5694.7 | 5768.5 | 5668.1 | 5591.3 | 5561.8 | 5502.8 | 5431.9 | 5493.9 |
| 47.5° | 5842.3 | 5830.5 | 5904.3 | 5933.8 | 5939.7 | 5806.8 | 5821.6 | 5874.7 | 5727.1 | 5579.5 | 5650.4 |
| 50° | 6110.9 | 6090.2 | 6181.8 | 6246.7 | 6231.9 | 6019.4 | 6072.5 | 6019.4 | 5789.1 | 5614.9 | 5588.4 |
| 52.5° | 6559.6 | 6568.5 | 6665.9 | 6784.0 | 6748.6 | 6571.4 | 6494.7 | 6252.6 | 5957.4 | 5800.9 | 5709.4 |
| 55° | 6843.0 | 6798.8 | 6967.0 | 7341.9 | 7383.3 | 7200.2 | 6860.7 | 6503.5 | 6060.7 | 5868.8 | 5845.2 |
| 56° | 6577.3 | 6633.4 | 6899.1 | 7318.3 | 7530.9 | 7362.6 | 6869.6 | 6441.5 | 5954.4 | 5694.7 | 5676.9 |
| 57.5° | 5901.3 | 5871.8 | 6231.9 | 6804.7 | 7383.3 | 7312.4 | 6627.5 | 5998.7 | 5431.9 | 5139.7 | 5104.2 |
| 60° | 3672.4 | 3758.1 | 4073.9 | 4782.4 | 5555.9 | 5591.3 | 4912.3 | 4372.1 | 3710.8 | 3451.0 | 3513.0 |
| 62.5° | 1437.7 | 1363.9 | 1561.7 | 2090.1 | 2621.5 | 2739.6 | 2482.7 | 2063.5 | 1694.5 | 1437.7 | 1420.0 |
| 65° | 333.6 | 324.7 | 366.1 | 504.8 | 705.6 | 817.7 | 776.4 | 558.0 | 410.3 | 389.7 | 360.2 |
| 67.5° | 188.9 | 188.9 | 180.1 | 180.1 | 197.8 | 209.6 | 200.7 | 197.8 | 206.6 | 215.5 | 212.6 |
| 70° | 132.8 | 129.9 | 124.0 | 126.9 | 121.0 | 121.0 | 129.9 | 144.7 | 156.5 | 156.5 | 159.4 |
| 72.5° | 79.7 | 79.7 | 79.7 | 88.6 | 88.6 | 88.6 | 97.4 | 109.2 | 112.2 | 109.2 | 106.3 |
| 75° | 35.4 | 35.4 | 41.3 | 50.2 | 56.1 | 59.0 | 67.9 | 73.8 | 79.7 | 73.8 | 67.9 |
| 77.5° | 8.9 | 8.9 | 14.8 | 20.7 | 26.6 | 32.5 | 44.3 | 53.1 | 56.1 | 53.1 | 44.3 |
| 80° | 3.0 | 3.0 | 5.9 | 14.8 | 26.6 | 32.5 | 44.3 | 47.2 | 50.2 | 44.3 | 35.4 |
| 82.5° | 3.0 | 3.0 | 5.9 | 14.8 | 20.7 | 26.6 | 35.4 | 41.3 | 44.3 | 38.4 | 35.4 |
| 85° | 0.0 | 3.0 | 5.9 | 11.8 | 17.7 | 23.6 | 23.6 | 17.7 | 14.8 | 8.9 | 11.8 |
| 87.5° | 0.0 | 0.0 | 3.0 | 3.0 | 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 |

(END OF REPORT)