

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: P529313

Luminaire Tested: **GALN-SA4C-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529313
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-SA4C-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 13959 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

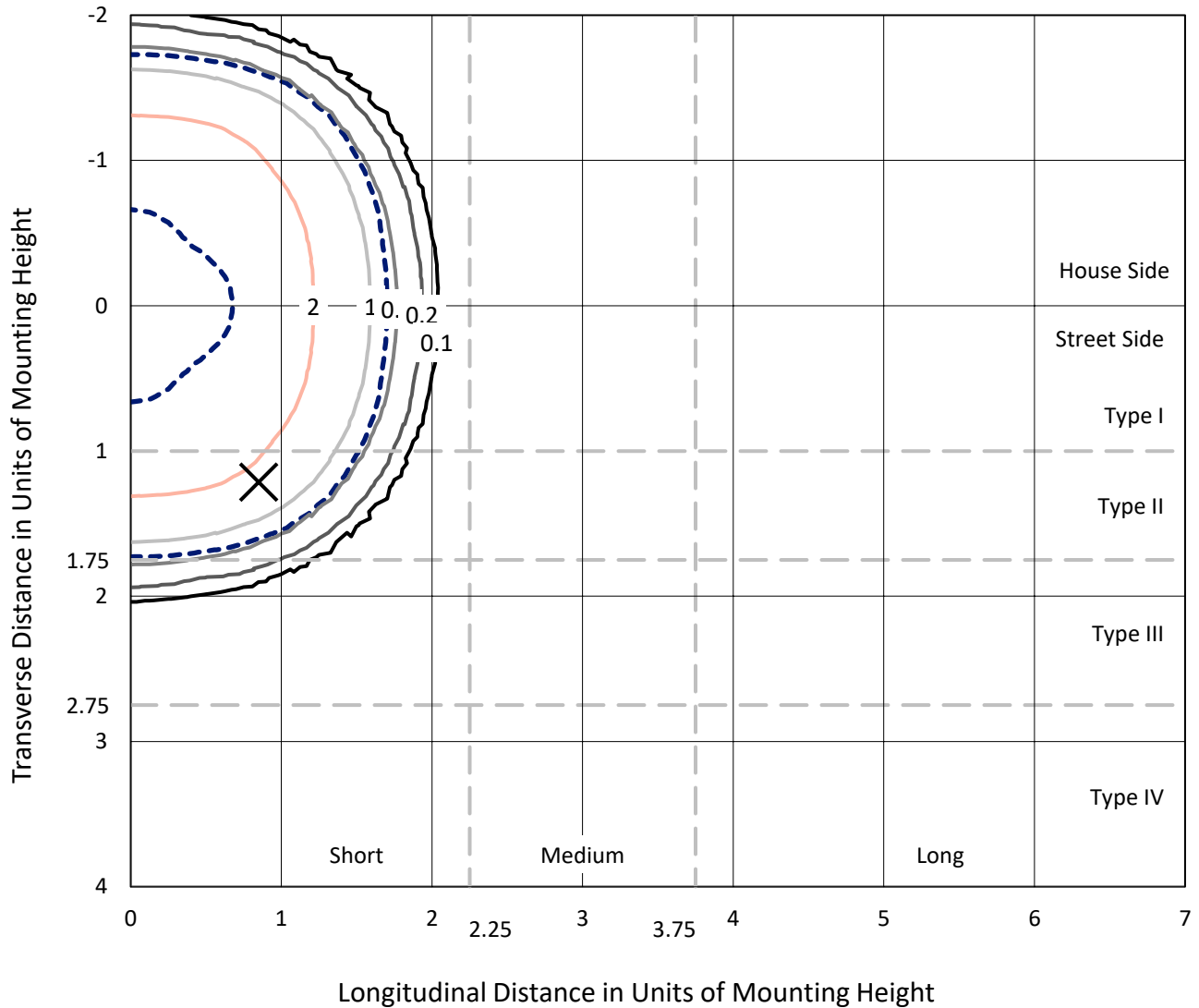
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

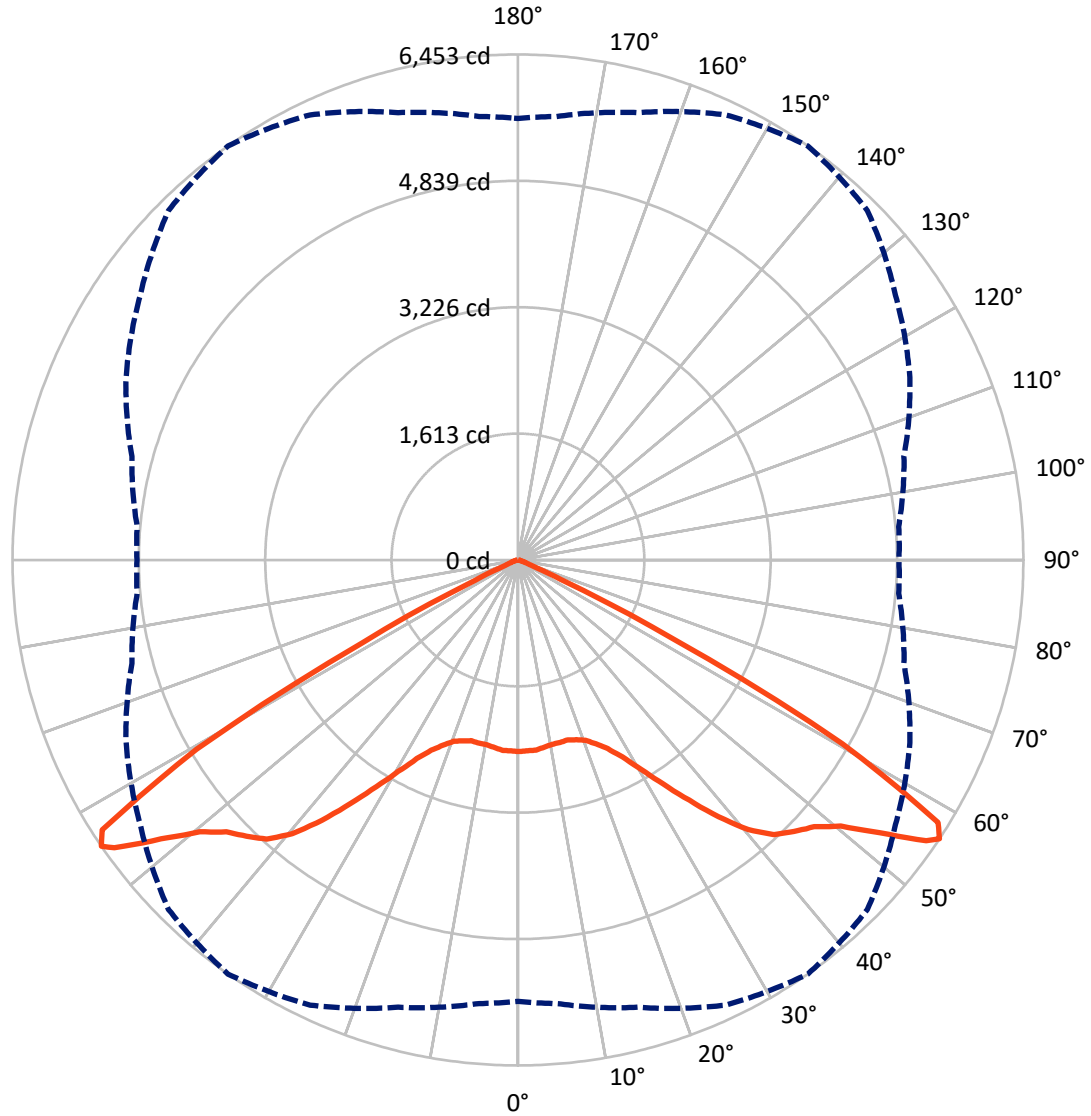
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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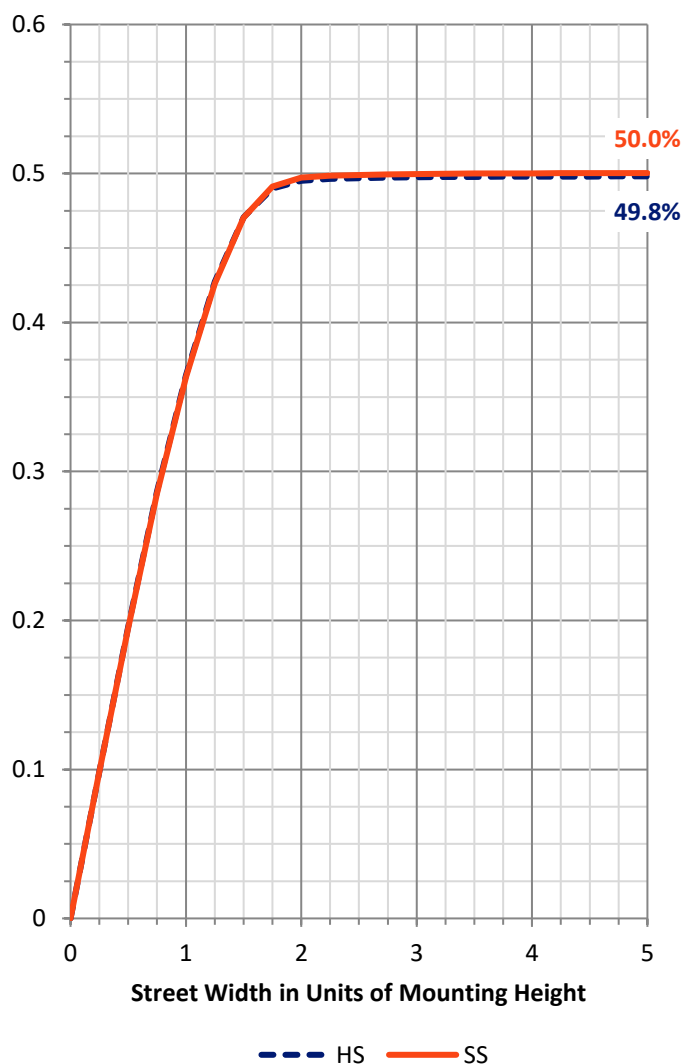
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6979.5 | 0.0 | 6979.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6979.5 | 0.0 | 6979.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13959.0 | 0.0 | 13959.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.9 | 1.6 |
| 10°-20° | 671.1 | 4.8 |
| 20°-30° | 1215.3 | 8.7 |
| 30°-40° | 2253.7 | 16.1 |
| 40°-50° | 3699.2 | 26.5 |
| 50°-60° | 4765.7 | 34.1 |
| 60°-70° | 1050.3 | 7.5 |
| 70°-80° | 60.9 | 0.4 |
| 80°-90° | 12.8 | 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° | 13959.0 | 100.0 |
| 0°-180° | 13959.0 | 100.0 |

Coefficient of Utilization



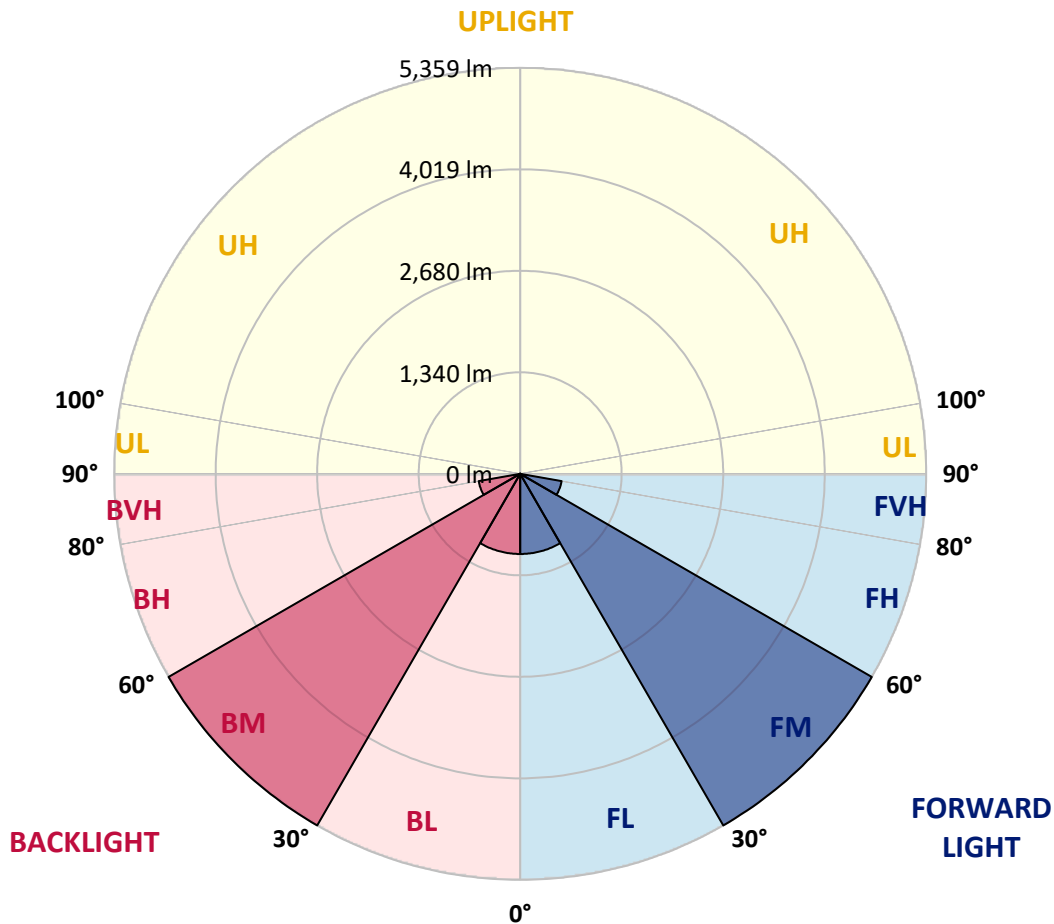
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1058.2 | 7.6 | | | |
| FM (30°-60°) | 5359.3 | 38.4 | | | |
| FH (60°-80°) | 555.6 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 6.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1058.2 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 5359.3 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 555.6 | 4.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 6.4 | 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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 | 2445.9 |
| 2.5° | 2451.0 | 2451.0 | 2453.5 | 2456.0 | 2438.3 | 2430.7 | 2433.3 | 2428.2 | 2425.7 | 2433.3 | 2433.3 |
| 5° | 2443.4 | 2443.4 | 2435.8 | 2438.3 | 2438.3 | 2415.6 | 2415.6 | 2420.6 | 2420.6 | 2405.4 | 2400.4 |
| 7.5° | 2423.2 | 2418.1 | 2408.0 | 2420.6 | 2413.0 | 2413.0 | 2395.3 | 2382.7 | 2377.6 | 2387.7 | 2377.6 |
| 10° | 2380.2 | 2382.7 | 2392.8 | 2397.9 | 2392.8 | 2408.0 | 2377.6 | 2359.9 | 2342.2 | 2334.6 | 2334.6 |
| 12.5° | 2359.9 | 2375.1 | 2359.9 | 2372.6 | 2390.3 | 2377.6 | 2359.9 | 2347.3 | 2322.0 | 2311.9 | 2311.9 |
| 15° | 2357.4 | 2367.5 | 2372.6 | 2390.3 | 2382.7 | 2387.7 | 2352.3 | 2337.2 | 2299.2 | 2281.5 | 2273.9 |
| 17.5° | 2354.9 | 2367.5 | 2375.1 | 2408.0 | 2413.0 | 2415.6 | 2387.7 | 2342.2 | 2309.3 | 2291.6 | 2273.9 |
| 20° | 2382.7 | 2387.7 | 2402.9 | 2435.8 | 2456.0 | 2491.4 | 2440.9 | 2392.8 | 2322.0 | 2301.7 | 2294.2 |
| 22.5° | 2418.1 | 2443.4 | 2458.6 | 2494.0 | 2547.1 | 2577.4 | 2511.7 | 2451.0 | 2377.6 | 2352.3 | 2322.0 |
| 25° | 2531.9 | 2526.9 | 2552.2 | 2625.5 | 2668.5 | 2691.3 | 2638.2 | 2549.6 | 2453.5 | 2423.2 | 2428.2 |
| 27.5° | 2673.6 | 2678.6 | 2701.4 | 2782.3 | 2845.6 | 2881.0 | 2817.7 | 2701.4 | 2607.8 | 2557.2 | 2552.2 |
| 30° | 2858.2 | 2853.1 | 2878.4 | 2987.2 | 3101.0 | 3154.1 | 3042.9 | 2906.3 | 2815.2 | 2749.4 | 2764.6 |
| 32.5° | 3053.0 | 3055.5 | 3126.3 | 3225.0 | 3409.6 | 3513.3 | 3333.7 | 3166.8 | 3030.2 | 2984.7 | 2961.9 |
| 35° | 3341.3 | 3354.0 | 3409.6 | 3561.4 | 3766.3 | 3900.3 | 3703.0 | 3503.2 | 3346.4 | 3262.9 | 3273.0 |
| 37.5° | 3698.0 | 3685.3 | 3778.9 | 3943.3 | 4158.3 | 4257.0 | 4090.0 | 3862.4 | 3703.0 | 3647.4 | 3682.8 |
| 40° | 4077.4 | 4090.0 | 4138.1 | 4287.3 | 4527.6 | 4593.4 | 4345.5 | 4221.5 | 4082.4 | 4054.6 | 4097.6 |
| 42.5° | 4456.8 | 4449.2 | 4484.6 | 4618.7 | 4793.2 | 4747.7 | 4601.0 | 4527.6 | 4429.0 | 4373.3 | 4431.5 |
| 45° | 4735.0 | 4722.4 | 4788.1 | 4879.2 | 4942.4 | 4856.4 | 4790.7 | 4765.4 | 4714.8 | 4654.1 | 4707.2 |
| 47.5° | 5005.7 | 4995.5 | 5058.8 | 5084.1 | 5089.1 | 4975.3 | 4988.0 | 5033.5 | 4907.0 | 4780.5 | 4841.2 |
| 50° | 5235.8 | 5218.1 | 5296.5 | 5352.2 | 5339.5 | 5157.4 | 5202.9 | 5157.4 | 4960.1 | 4810.9 | 4788.1 |
| 52.5° | 5620.3 | 5627.9 | 5711.4 | 5812.5 | 5782.2 | 5630.4 | 5564.7 | 5357.2 | 5104.3 | 4970.2 | 4891.8 |
| 55° | 5863.1 | 5825.2 | 5969.4 | 6290.6 | 6326.0 | 6169.2 | 5878.3 | 5572.2 | 5192.8 | 5028.4 | 5008.2 |
| 56° | 5635.5 | 5683.5 | 5911.2 | 6270.3 | 6452.5 | 6308.3 | 5885.9 | 5519.1 | 5101.8 | 4879.2 | 4864.0 |
| 57.5° | 5056.2 | 5031.0 | 5339.5 | 5830.2 | 6326.0 | 6265.3 | 5678.5 | 5139.7 | 4654.1 | 4403.7 | 4373.3 |
| 60° | 3146.6 | 3219.9 | 3490.6 | 4097.6 | 4760.3 | 4790.7 | 4208.9 | 3746.0 | 3179.4 | 2956.9 | 3010.0 |
| 62.5° | 1231.8 | 1168.6 | 1338.0 | 1790.8 | 2246.1 | 2347.3 | 2127.2 | 1768.0 | 1451.9 | 1231.8 | 1216.6 |
| 65° | 285.8 | 278.2 | 313.6 | 432.5 | 604.5 | 700.6 | 665.2 | 478.1 | 351.6 | 333.9 | 308.6 |
| 67.5° | 161.9 | 161.9 | 154.3 | 154.3 | 169.5 | 179.6 | 172.0 | 169.5 | 177.1 | 184.6 | 182.1 |
| 70° | 113.8 | 111.3 | 106.2 | 108.8 | 103.7 | 103.7 | 111.3 | 123.9 | 134.1 | 134.1 | 136.6 |
| 72.5° | 68.3 | 68.3 | 68.3 | 75.9 | 75.9 | 75.9 | 83.5 | 93.6 | 96.1 | 93.6 | 91.1 |
| 75° | 30.4 | 30.4 | 35.4 | 43.0 | 48.1 | 50.6 | 58.2 | 63.2 | 68.3 | 63.2 | 58.2 |
| 77.5° | 7.6 | 7.6 | 12.6 | 17.7 | 22.8 | 27.8 | 37.9 | 45.5 | 48.1 | 45.5 | 37.9 |
| 80° | 2.5 | 2.5 | 5.1 | 12.6 | 22.8 | 27.8 | 37.9 | 40.5 | 43.0 | 37.9 | 30.4 |
| 82.5° | 2.5 | 2.5 | 5.1 | 12.6 | 17.7 | 22.8 | 30.4 | 35.4 | 37.9 | 32.9 | 30.4 |
| 85° | 0.0 | 2.5 | 5.1 | 10.1 | 15.2 | 20.2 | 20.2 | 15.2 | 12.6 | 7.6 | 10.1 |
| 87.5° | 0.0 | 0.0 | 2.5 | 2.5 | 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)