

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: P532753

Luminaire Tested: **GALN-SA8A-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17543 lumens
Efficiency: N/A
Efficacy: 71.9 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

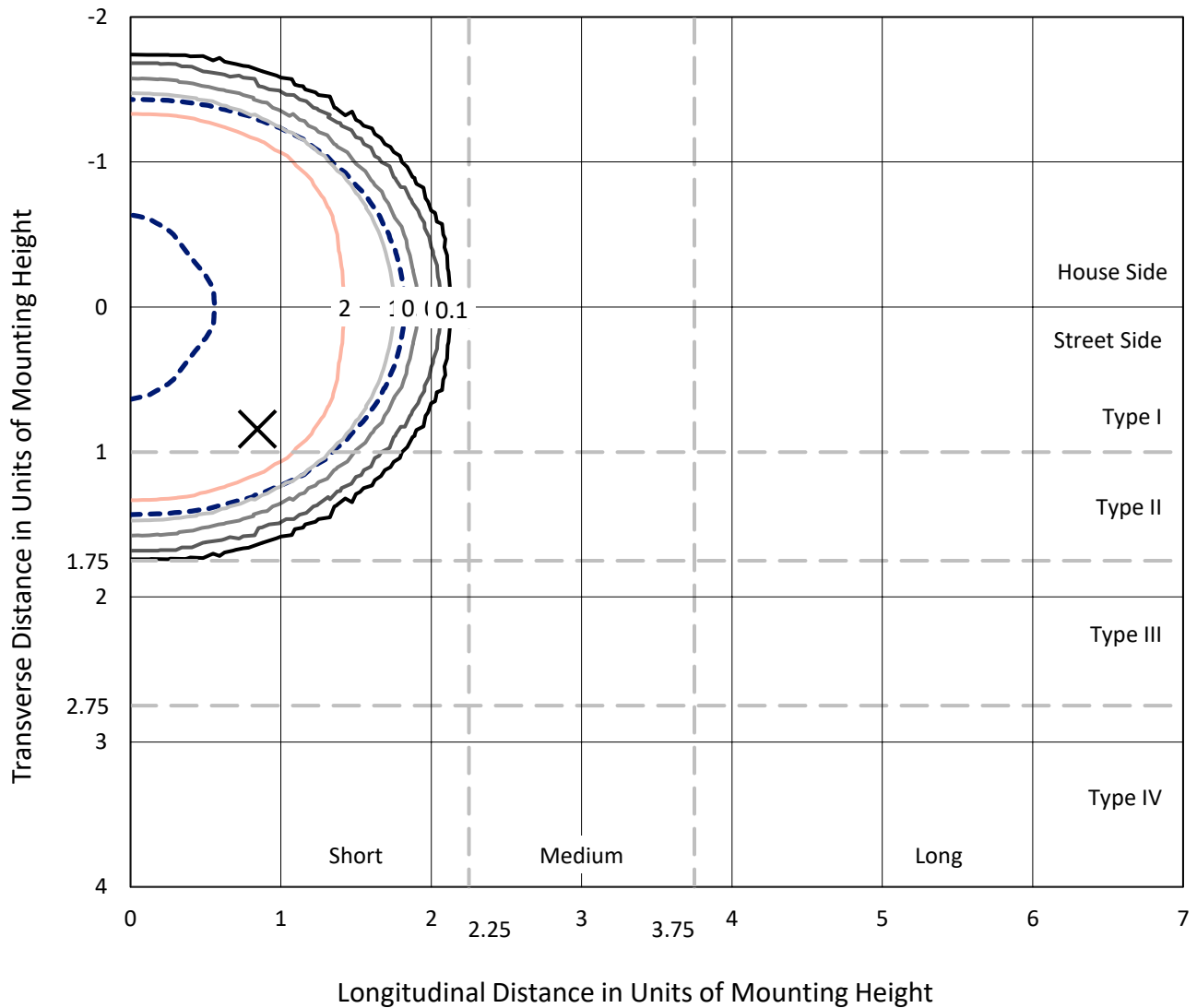
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

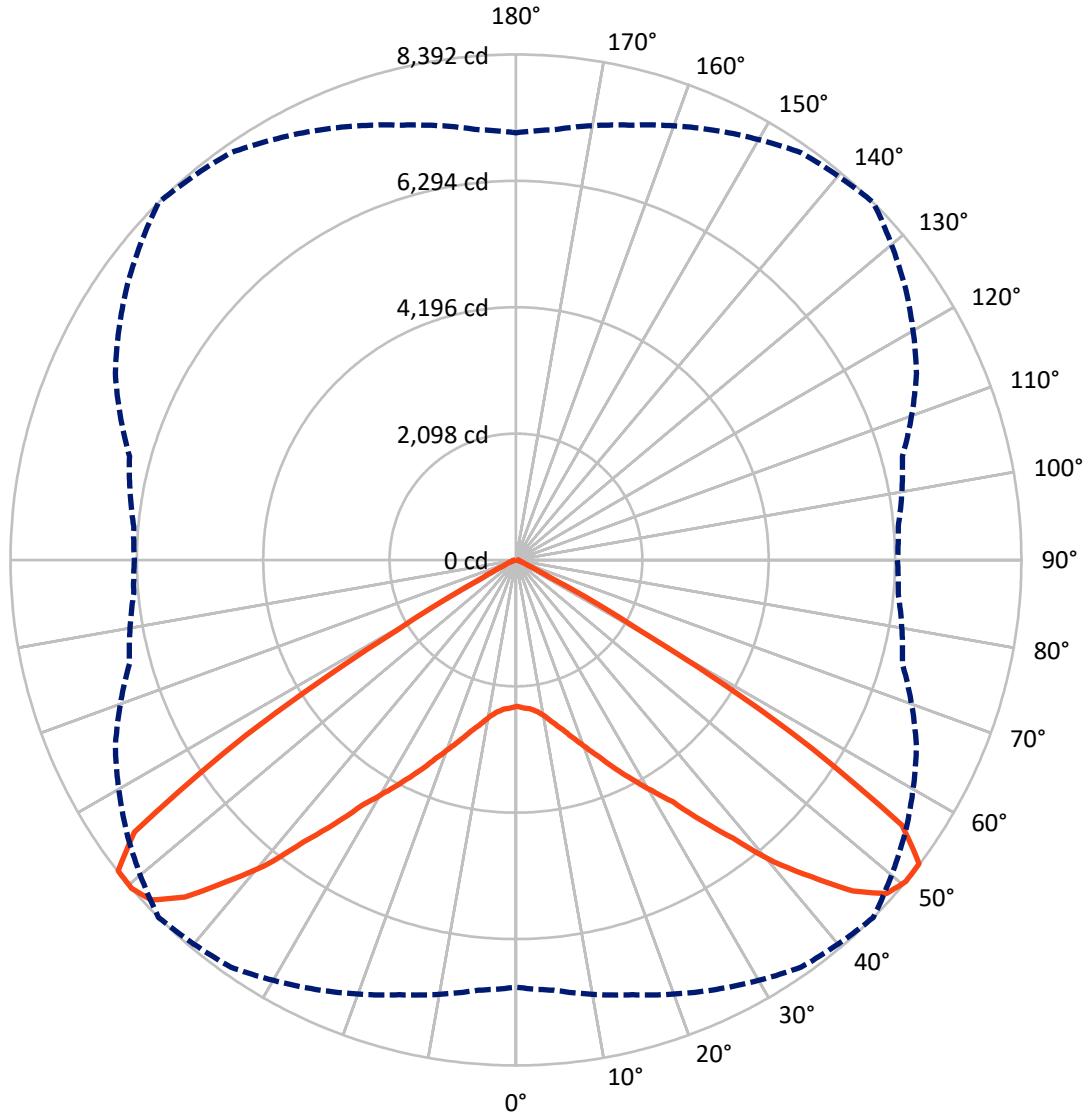
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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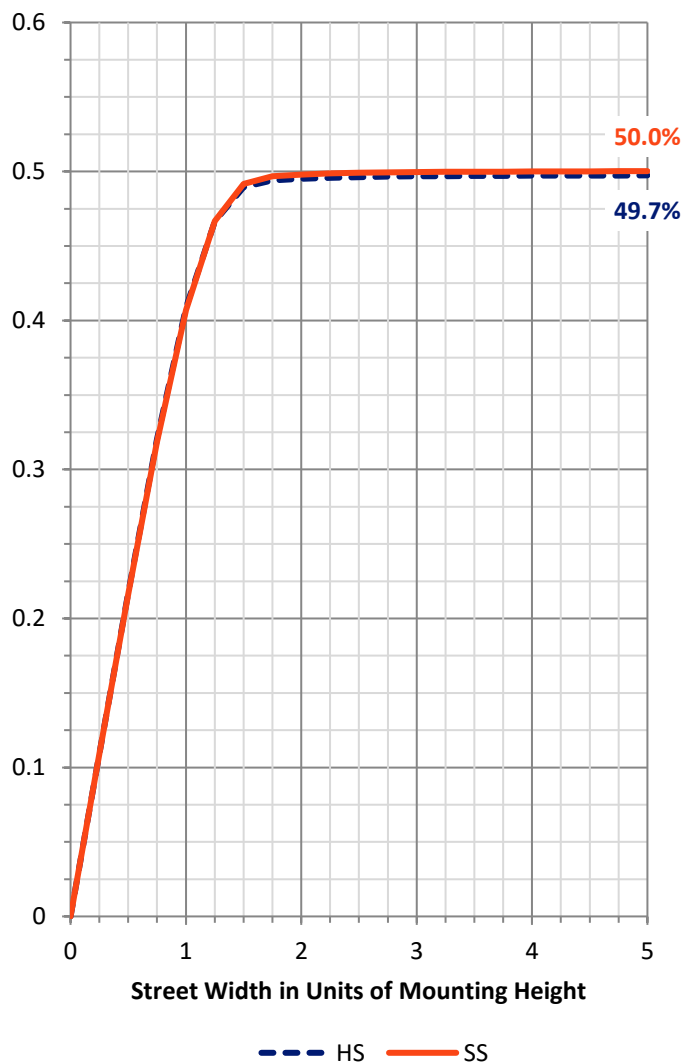
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8771.5 | 0.0 | 8771.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8771.5 | 0.0 | 8771.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17543.0 | 0.0 | 17543.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 242.0 | 1.4 |
| 10°-20° | 833.9 | 4.8 |
| 20°-30° | 1703.2 | 9.7 |
| 30°-40° | 3248.1 | 18.5 |
| 40°-50° | 5473.5 | 31.2 |
| 50°-60° | 5219.9 | 29.8 |
| 60°-70° | 728.7 | 4.2 |
| 70°-80° | 69.7 | 0.4 |
| 80°-90° | 24.1 | 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° | 17543.0 | 100.0 |
| 0°-180° | 17543.0 | 100.0 |

Coefficient of Utilization



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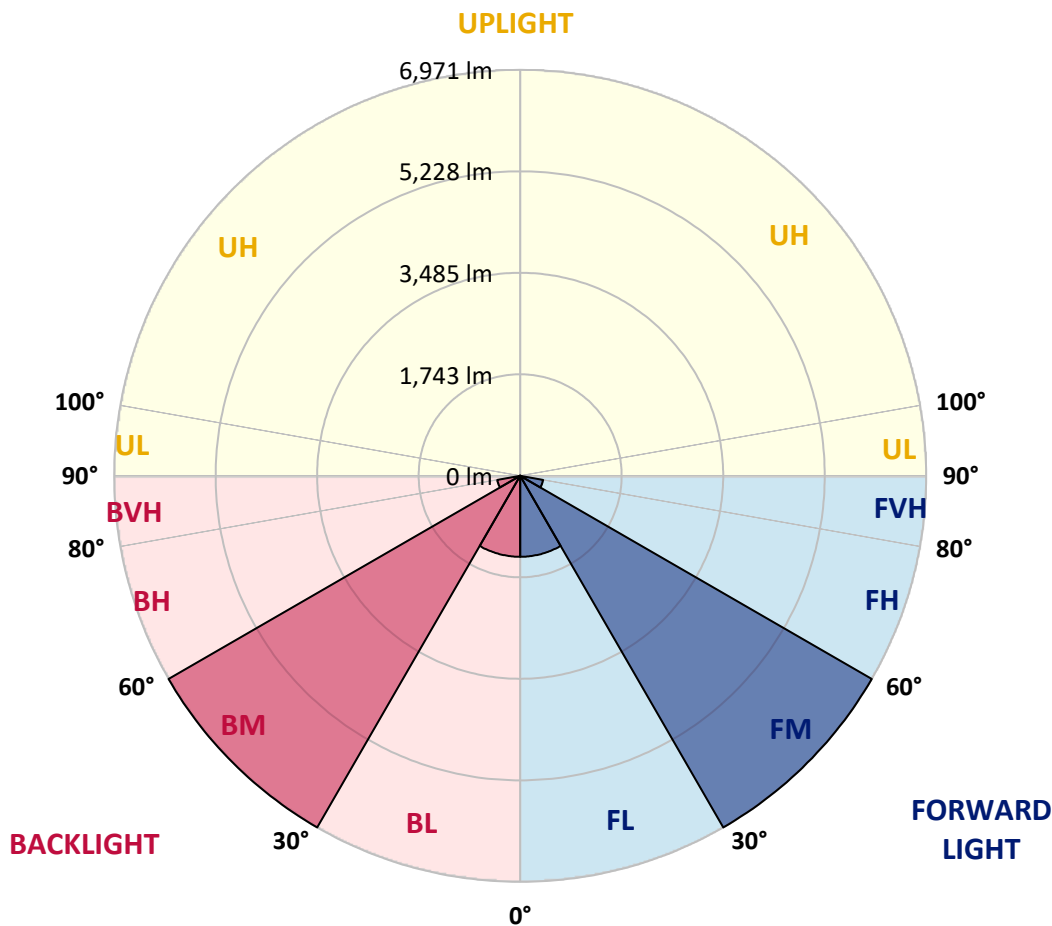
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1389.6 | 7.9 | | | |
| FM (30°-60°) | 6970.7 | 39.7 | | | |
| FH (60°-80°) | 399.2 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 12.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1389.6 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 6970.7 | 39.7 | B4/8500 | | |
| BH (60°-80°) | 399.2 | 2.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 12.0 | 0.1 | | | G1/100 |
| 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° | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 | 2432.1 |
| 2.5° | 2423.3 | 2423.3 | 2420.3 | 2444.0 | 2432.1 | 2458.7 | 2455.8 | 2464.6 | 2473.5 | 2470.5 | 2494.1 |
| 5° | 2402.6 | 2399.7 | 2399.7 | 2426.2 | 2452.8 | 2482.3 | 2508.9 | 2526.6 | 2556.1 | 2556.1 | 2585.6 |
| 7.5° | 2423.3 | 2408.5 | 2429.2 | 2441.0 | 2491.2 | 2541.4 | 2585.6 | 2621.0 | 2688.9 | 2712.5 | 2703.7 |
| 10° | 2429.2 | 2446.9 | 2461.7 | 2497.1 | 2559.1 | 2635.8 | 2674.2 | 2762.7 | 2839.5 | 2892.6 | 2904.4 |
| 12.5° | 2467.6 | 2494.1 | 2535.5 | 2621.0 | 2677.1 | 2777.5 | 2830.6 | 2916.2 | 3022.5 | 3081.5 | 3122.8 |
| 15° | 2541.4 | 2550.2 | 2603.3 | 2712.5 | 2833.6 | 2925.1 | 3007.7 | 3069.7 | 3173.0 | 3240.9 | 3243.8 |
| 17.5° | 2635.8 | 2674.2 | 2748.0 | 2851.3 | 2978.2 | 3114.0 | 3178.9 | 3246.8 | 3285.2 | 3376.7 | 3397.3 |
| 20° | 2824.7 | 2830.6 | 2901.5 | 3037.2 | 3196.6 | 3320.6 | 3367.8 | 3403.2 | 3388.5 | 3482.9 | 3500.6 |
| 22.5° | 3001.8 | 3007.7 | 3096.3 | 3279.3 | 3450.5 | 3556.7 | 3577.4 | 3556.7 | 3512.4 | 3580.3 | 3586.2 |
| 25° | 3181.9 | 3235.0 | 3299.9 | 3482.9 | 3695.4 | 3837.1 | 3840.1 | 3784.0 | 3692.5 | 3704.3 | 3733.8 |
| 27.5° | 3462.3 | 3500.6 | 3568.5 | 3736.8 | 3969.9 | 4129.3 | 4102.8 | 4034.9 | 3916.8 | 3925.7 | 3916.8 |
| 30° | 3789.9 | 3825.3 | 3881.4 | 4096.9 | 4268.1 | 4442.2 | 4480.6 | 4415.6 | 4238.5 | 4200.2 | 4244.4 |
| 32.5° | 4185.4 | 4235.6 | 4338.9 | 4536.7 | 4681.3 | 4787.5 | 4814.1 | 4790.5 | 4625.2 | 4610.4 | 4640.0 |
| 35° | 4666.5 | 4734.4 | 4828.9 | 5003.0 | 5121.1 | 5312.9 | 5312.9 | 5233.2 | 5082.7 | 5100.4 | 5097.5 |
| 37.5° | 5174.2 | 5274.6 | 5422.1 | 5599.2 | 5758.6 | 5861.9 | 5829.5 | 5761.6 | 5611.1 | 5572.7 | 5611.1 |
| 40° | 5811.8 | 5861.9 | 6047.9 | 6278.1 | 6472.9 | 6591.0 | 6452.3 | 6304.7 | 5944.6 | 6000.7 | 6104.0 |
| 42.5° | 6393.2 | 6472.9 | 6614.6 | 6868.4 | 7089.8 | 7187.2 | 7021.9 | 6729.7 | 6295.8 | 6251.6 | 6328.3 |
| 45° | 6889.1 | 6974.7 | 7160.7 | 7523.7 | 7756.9 | 7842.5 | 7476.5 | 7004.2 | 6508.3 | 6396.2 | 6428.7 |
| 47.5° | 7219.7 | 7264.0 | 7523.7 | 7869.0 | 8081.6 | 8276.4 | 7751.0 | 7193.1 | 6608.7 | 6396.2 | 6384.4 |
| 50° | 7092.8 | 7169.5 | 7473.5 | 7866.1 | 8252.8 | 8391.5 | 7889.7 | 7337.8 | 6641.2 | 6369.6 | 6334.2 |
| 52.5° | 6298.8 | 6431.6 | 6771.0 | 7299.4 | 7883.8 | 8379.7 | 8081.6 | 7290.5 | 6629.4 | 6396.2 | 6449.3 |
| 55° | 4383.2 | 4386.1 | 4799.4 | 5578.6 | 6611.7 | 7780.5 | 7801.2 | 7343.7 | 6706.1 | 6561.5 | 6564.4 |
| 57.5° | 1762.1 | 1850.7 | 2166.5 | 2948.7 | 3902.1 | 5342.5 | 6351.9 | 6812.4 | 6715.0 | 6679.5 | 6771.0 |
| 60° | 445.7 | 448.6 | 546.1 | 832.4 | 1372.5 | 2290.5 | 3326.5 | 4501.2 | 5183.1 | 5416.2 | 5448.7 |
| 62.5° | 227.3 | 230.2 | 253.8 | 295.2 | 374.9 | 613.9 | 1092.1 | 1732.6 | 2464.6 | 2836.5 | 2933.9 |
| 65° | 186.0 | 186.0 | 200.7 | 221.4 | 224.3 | 236.1 | 283.4 | 404.4 | 587.4 | 667.1 | 675.9 |
| 67.5° | 141.7 | 141.7 | 153.5 | 165.3 | 171.2 | 168.2 | 162.3 | 168.2 | 203.7 | 194.8 | 188.9 |
| 70° | 88.5 | 91.5 | 97.4 | 109.2 | 115.1 | 118.1 | 121.0 | 126.9 | 144.6 | 150.5 | 144.6 |
| 72.5° | 53.1 | 53.1 | 56.1 | 64.9 | 73.8 | 79.7 | 88.5 | 94.5 | 103.3 | 118.1 | 115.1 |
| 75° | 23.6 | 23.6 | 29.5 | 38.4 | 47.2 | 56.1 | 64.9 | 73.8 | 79.7 | 88.5 | 91.5 |
| 77.5° | 5.9 | 8.9 | 14.8 | 26.6 | 35.4 | 47.2 | 59.0 | 67.9 | 73.8 | 73.8 | 70.8 |
| 80° | 3.0 | 3.0 | 11.8 | 20.7 | 38.4 | 50.2 | 64.9 | 70.8 | 79.7 | 73.8 | 64.9 |
| 82.5° | 3.0 | 3.0 | 11.8 | 20.7 | 35.4 | 50.2 | 67.9 | 76.7 | 82.6 | 73.8 | 62.0 |
| 85° | 0.0 | 3.0 | 8.9 | 17.7 | 29.5 | 35.4 | 29.5 | 20.7 | 11.8 | 11.8 | 8.9 |
| 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)