

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: P947375

Luminaire Tested: **GALN-SB2D-730-U-RW**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P947375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2D-730-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20956 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147.6  
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

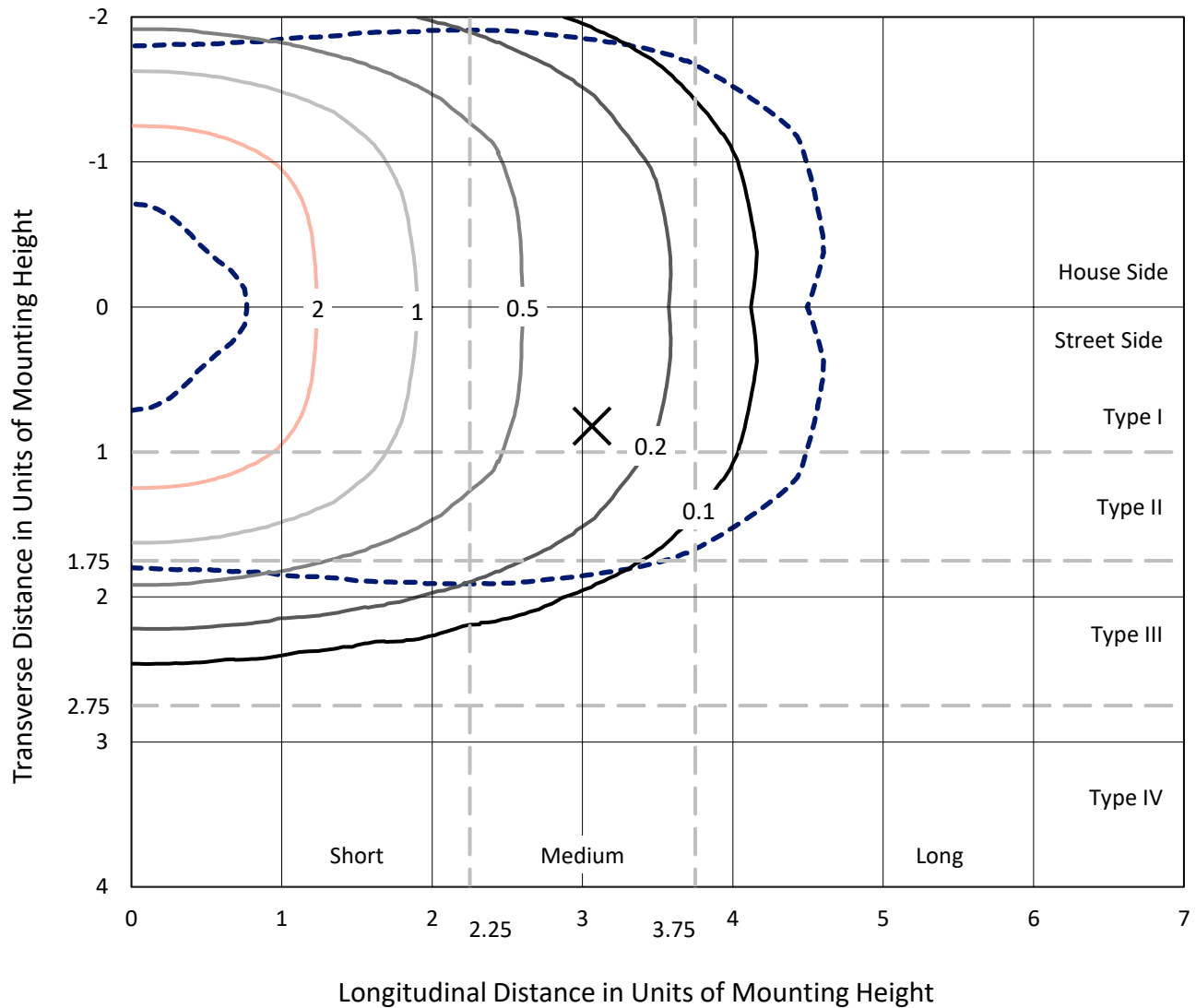


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

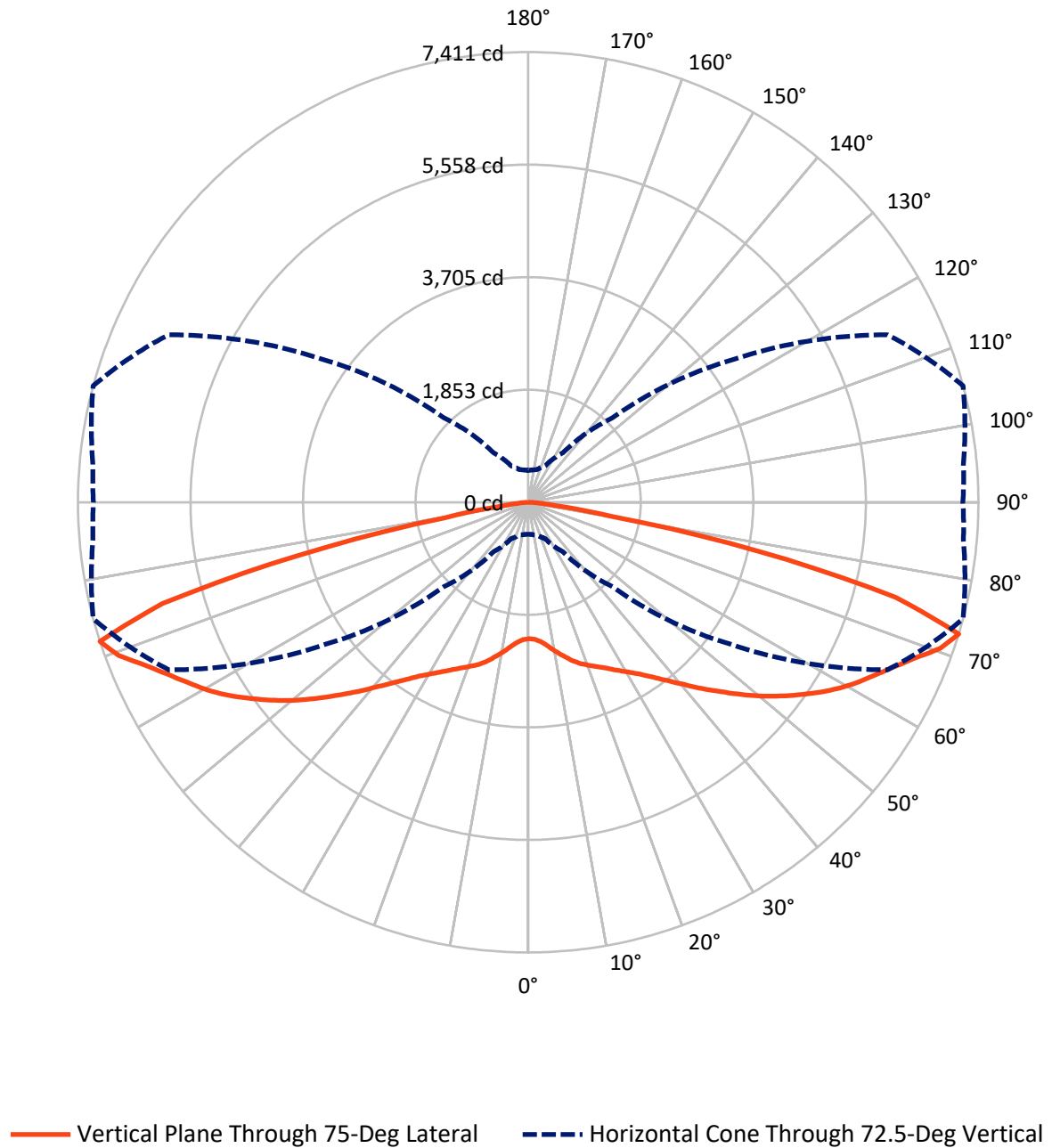


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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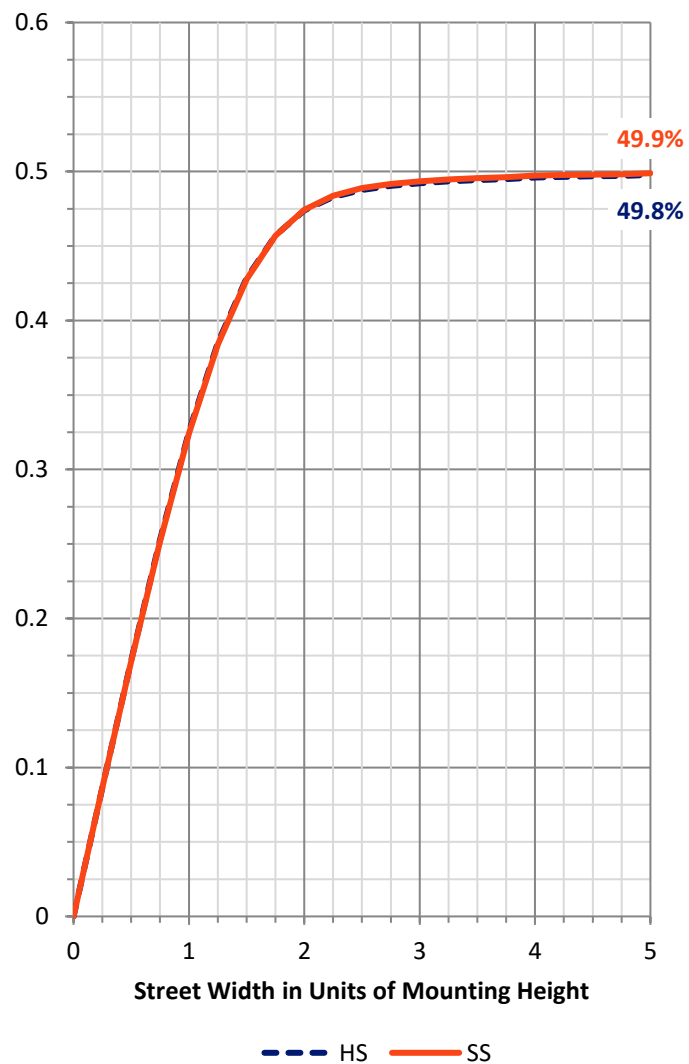
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10478.0  | 0.0    | 10478.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10478.0  | 0.0    | 10478.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 20956.0  | 0.0    | 20956.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 219.9   | 1.0       |
| 10°-20°   | 725.3   | 3.5       |
| 20°-30°   | 1401.4  | 6.7       |
| 30°-40°   | 2366.4  | 11.3      |
| 40°-50°   | 3752.8  | 17.9      |
| 50°-60°   | 5024.5  | 24.0      |
| 60°-70°   | 4781.7  | 22.8      |
| 70°-80°   | 2495.2  | 11.9      |
| 80°-90°   | 188.9   | 0.9       |
| 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°    | 20956.0 | 100.0     |
| 0°-180°   | 20956.0 | 100.0     |

**Coefficient of Utilization**



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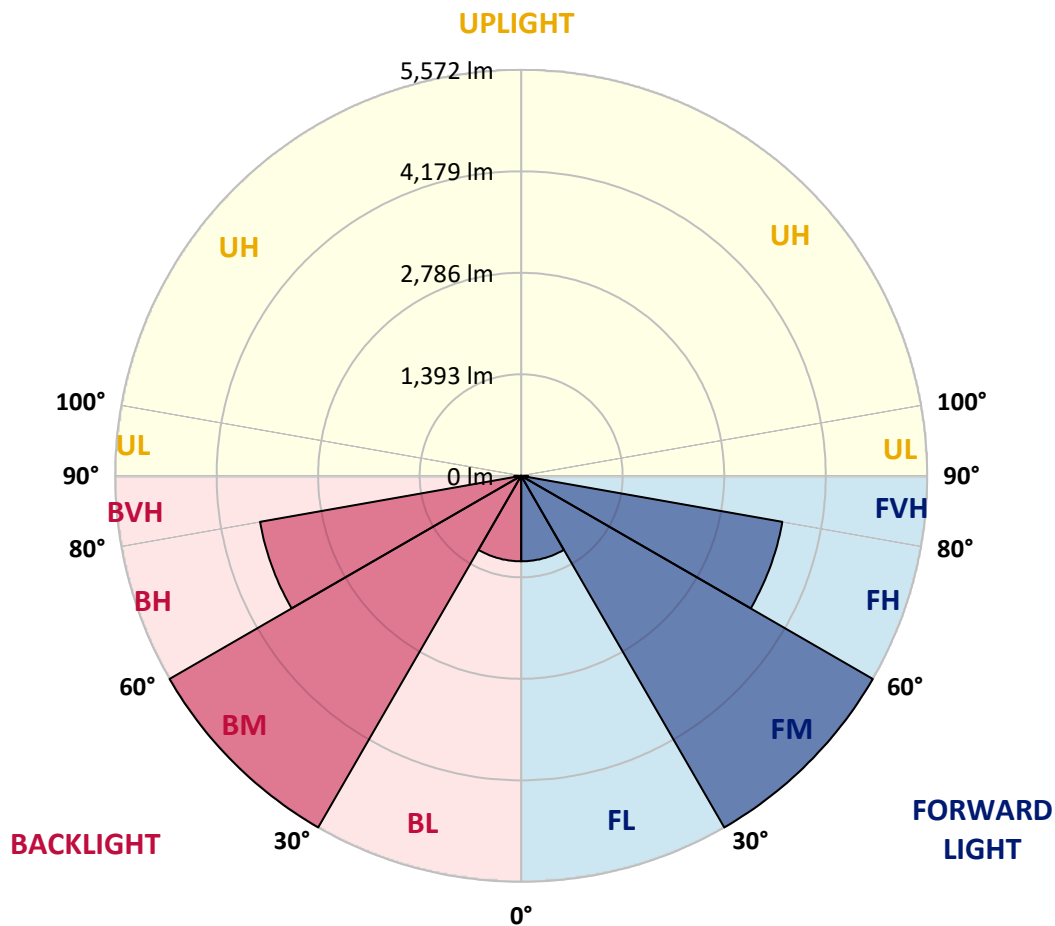
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1173.3 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5571.8 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 3638.5 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 94.4   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1173.3 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5571.8 | 26.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3638.5 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 94.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 | 2244.8 |
| 2.5°  | 2244.8 | 2242.6 | 2244.8 | 2246.9 | 2245.8 | 2245.8 | 2251.2 | 2254.4 | 2260.8 | 2259.7 | 2258.7 |
| 5°    | 2229.8 | 2228.7 | 2237.3 | 2246.9 | 2254.4 | 2267.2 | 2283.3 | 2295.1 | 2310.0 | 2313.2 | 2313.2 |
| 7.5°  | 2222.3 | 2219.1 | 2234.1 | 2251.2 | 2274.7 | 2306.8 | 2337.8 | 2369.9 | 2395.6 | 2404.2 | 2406.3 |
| 10°   | 2227.6 | 2228.7 | 2249.0 | 2281.1 | 2318.6 | 2363.5 | 2407.4 | 2462.0 | 2498.3 | 2506.9 | 2515.5 |
| 12.5° | 2252.3 | 2250.1 | 2284.4 | 2335.7 | 2387.1 | 2443.8 | 2495.1 | 2555.0 | 2594.6 | 2615.0 | 2623.5 |
| 15°   | 2297.2 | 2292.9 | 2341.1 | 2417.0 | 2491.9 | 2558.3 | 2600.0 | 2656.7 | 2702.7 | 2728.4 | 2738.0 |
| 17.5° | 2350.7 | 2352.8 | 2416.0 | 2514.4 | 2612.8 | 2687.7 | 2727.3 | 2756.2 | 2791.5 | 2814.0 | 2824.7 |
| 20°   | 2444.8 | 2449.1 | 2519.7 | 2636.4 | 2748.7 | 2834.3 | 2866.4 | 2855.7 | 2865.3 | 2882.5 | 2895.3 |
| 22.5° | 2571.1 | 2573.2 | 2652.4 | 2778.7 | 2896.4 | 2990.5 | 3011.9 | 2968.1 | 2941.3 | 2953.1 | 2961.6 |
| 25°   | 2717.7 | 2731.6 | 2810.8 | 2940.2 | 3061.1 | 3151.0 | 3160.6 | 3094.3 | 3028.0 | 3031.2 | 3036.5 |
| 27.5° | 2896.4 | 2909.2 | 2989.5 | 3117.8 | 3240.9 | 3319.0 | 3317.9 | 3229.1 | 3131.8 | 3107.1 | 3114.6 |
| 30°   | 3090.0 | 3103.9 | 3186.3 | 3319.0 | 3433.5 | 3502.0 | 3487.0 | 3381.1 | 3242.0 | 3196.0 | 3201.3 |
| 32.5° | 3320.1 | 3328.6 | 3412.1 | 3544.8 | 3650.7 | 3705.2 | 3674.2 | 3543.7 | 3370.4 | 3317.9 | 3330.8 |
| 35°   | 3598.3 | 3611.1 | 3673.2 | 3798.3 | 3891.4 | 3936.4 | 3883.9 | 3729.9 | 3535.1 | 3476.3 | 3484.8 |
| 37.5° | 3916.0 | 3907.5 | 3978.1 | 4089.4 | 4166.4 | 4194.2 | 4122.5 | 3939.6 | 3723.4 | 3653.9 | 3666.7 |
| 40°   | 4247.7 | 4243.4 | 4320.5 | 4427.5 | 4469.2 | 4486.3 | 4380.4 | 4180.3 | 3940.6 | 3865.7 | 3890.4 |
| 42.5° | 4548.4 | 4545.2 | 4648.9 | 4767.7 | 4818.0 | 4798.7 | 4665.0 | 4436.0 | 4192.1 | 4106.5 | 4127.9 |
| 45°   | 4789.1 | 4784.8 | 4912.2 | 5079.1 | 5177.5 | 5145.4 | 4965.7 | 4718.5 | 4446.7 | 4357.9 | 4378.3 |
| 47.5° | 4974.2 | 4976.4 | 5113.3 | 5319.8 | 5492.1 | 5503.8 | 5272.7 | 5006.3 | 4727.1 | 4626.5 | 4656.4 |
| 50°   | 5108.0 | 5114.4 | 5261.0 | 5489.9 | 5725.3 | 5829.1 | 5586.2 | 5301.6 | 5017.0 | 4903.6 | 4937.8 |
| 52.5° | 5141.1 | 5152.9 | 5329.4 | 5598.0 | 5875.1 | 6073.1 | 5905.1 | 5585.2 | 5292.0 | 5183.9 | 5211.7 |
| 55°   | 4964.6 | 4988.1 | 5211.7 | 5589.4 | 5967.1 | 6233.5 | 6185.4 | 5873.0 | 5569.1 | 5457.8 | 5488.9 |
| 57.5° | 4559.1 | 4592.2 | 4853.3 | 5346.6 | 5946.8 | 6343.8 | 6402.6 | 6149.0 | 5846.2 | 5739.2 | 5763.8 |
| 60°   | 3990.9 | 4030.5 | 4280.9 | 4819.1 | 5660.1 | 6384.4 | 6555.6 | 6417.6 | 6100.9 | 5997.1 | 6019.6 |
| 62.5° | 3133.9 | 3185.3 | 3484.8 | 4116.1 | 5054.5 | 6195.0 | 6686.1 | 6660.5 | 6329.8 | 6200.4 | 6215.4 |
| 65°   | 2010.4 | 2065.0 | 2380.6 | 3126.4 | 4246.6 | 5615.1 | 6726.8 | 6896.9 | 6571.7 | 6390.8 | 6413.3 |
| 67.5° | 1212.3 | 1236.9 | 1393.1 | 1894.9 | 3103.9 | 4741.0 | 6382.3 | 7159.1 | 6854.1 | 6629.4 | 6646.6 |
| 70°   | 775.7  | 789.6  | 882.7  | 1112.8 | 1754.7 | 3459.2 | 5528.5 | 7208.3 | 7196.5 | 6874.5 | 6872.3 |
| 72.5° | 526.4  | 530.7  | 555.3  | 659.1  | 992.9  | 1965.5 | 4077.6 | 6525.6 | 7410.5 | 7190.1 | 7155.8 |
| 75°   | 385.2  | 408.7  | 448.3  | 466.5  | 563.9  | 982.2  | 2336.8 | 4584.8 | 6245.3 | 6341.6 | 6108.4 |
| 77.5° | 286.7  | 287.8  | 342.4  | 363.8  | 402.3  | 523.2  | 988.6  | 2559.3 | 3877.5 | 4071.2 | 3631.4 |
| 80°   | 242.9  | 230.0  | 229.0  | 293.2  | 302.8  | 326.3  | 441.9  | 883.8  | 1388.8 | 842.1  | 636.6  |
| 82.5° | 202.2  | 188.3  | 170.1  | 229.0  | 206.5  | 200.1  | 191.5  | 359.5  | 441.9  | 217.2  | 185.1  |
| 85°   | 141.2  | 134.8  | 128.4  | 149.8  | 117.7  | 100.6  | 92.0   | 168.0  | 186.2  | 92.0   | 81.3   |
| 87.5° | 61.0   | 63.1   | 64.2   | 66.3   | 49.2   | 35.3   | 35.3   | 47.1   | 47.1   | 36.4   | 26.7   |
| 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)