

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: STREETWORKS

Report Number: P452776

Luminaire Tested: **GLAN-SA3D-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21699 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 184  
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

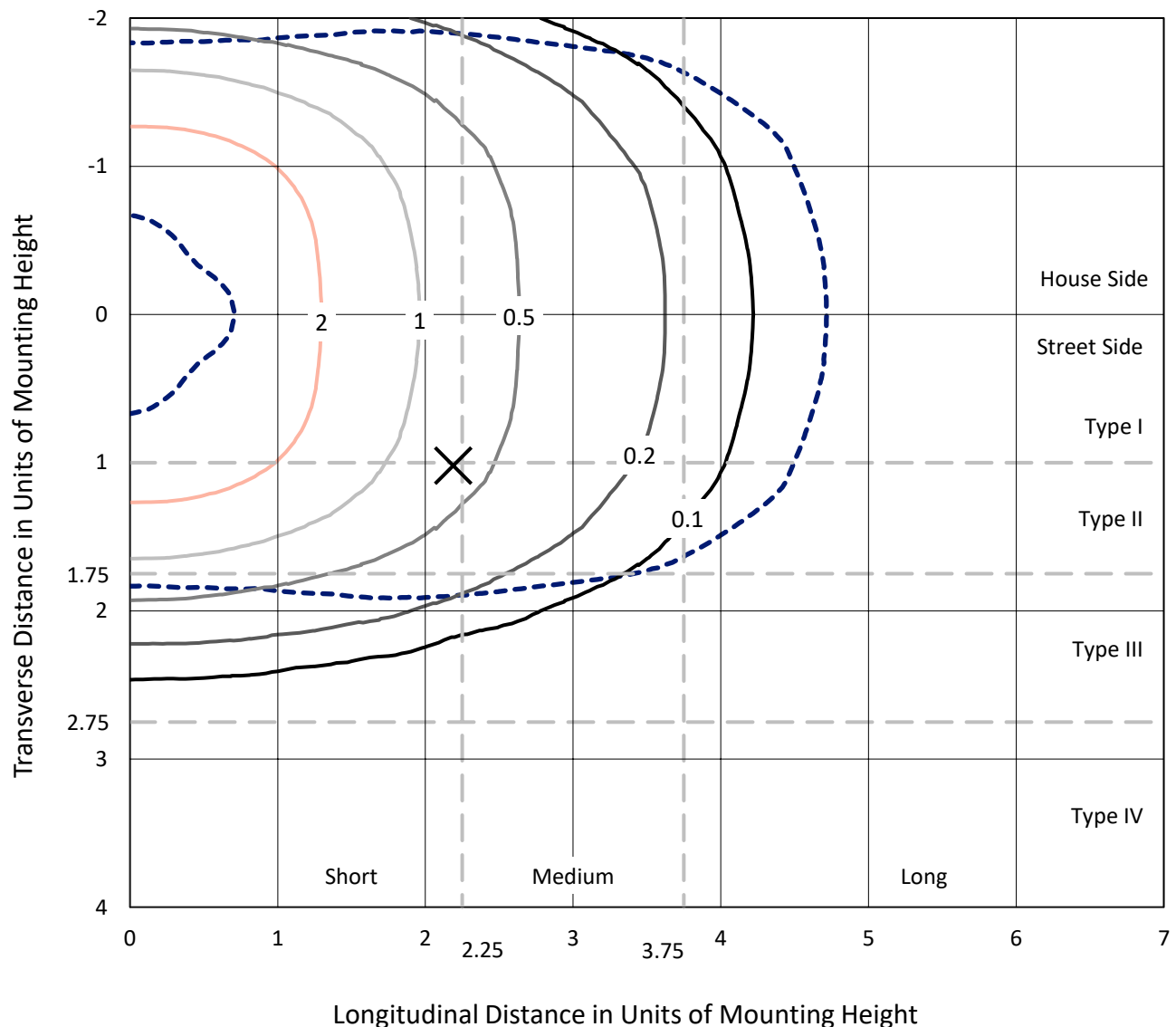


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

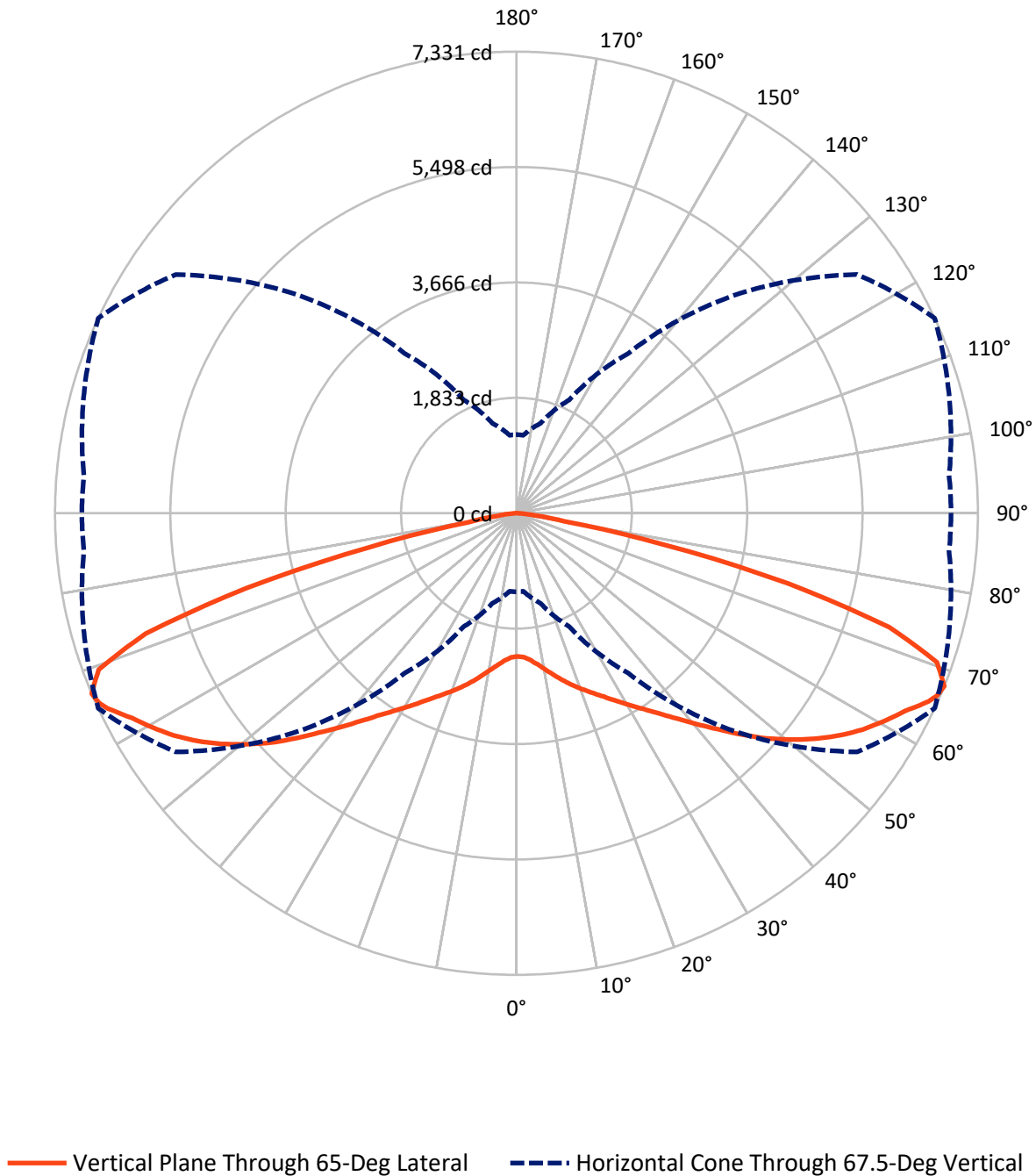


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P452776

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## Luminous Intensity Polar Plot



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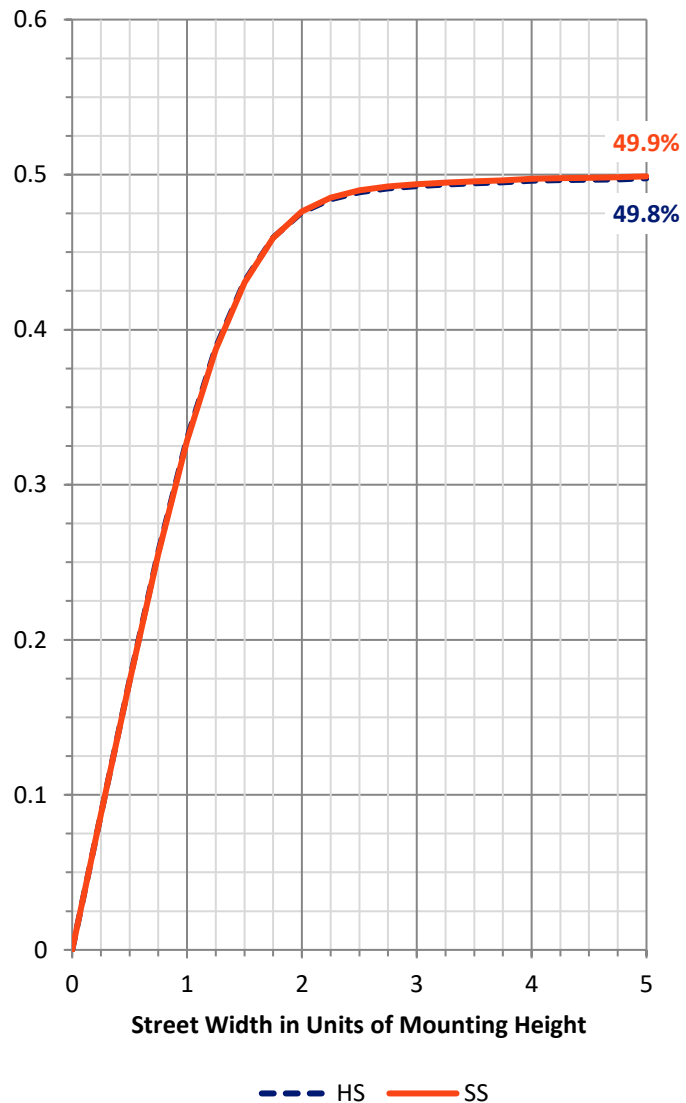
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10849.5  | 0.0    | 10849.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10849.5  | 0.0    | 10849.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21699.0  | 0.0    | 21699.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 224.2   | 1.0       |
| 10°-20°   | 750.2   | 3.5       |
| 20°-30°   | 1467.5  | 6.8       |
| 30°-40°   | 2496.0  | 11.5      |
| 40°-50°   | 3950.5  | 18.2      |
| 50°-60°   | 5238.3  | 24.1      |
| 60°-70°   | 4941.3  | 22.8      |
| 70°-80°   | 2442.7  | 11.3      |
| 80°-90°   | 188.3   | 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°    | 21699.0 | 100.0     |
| 0°-180°   | 21699.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452776

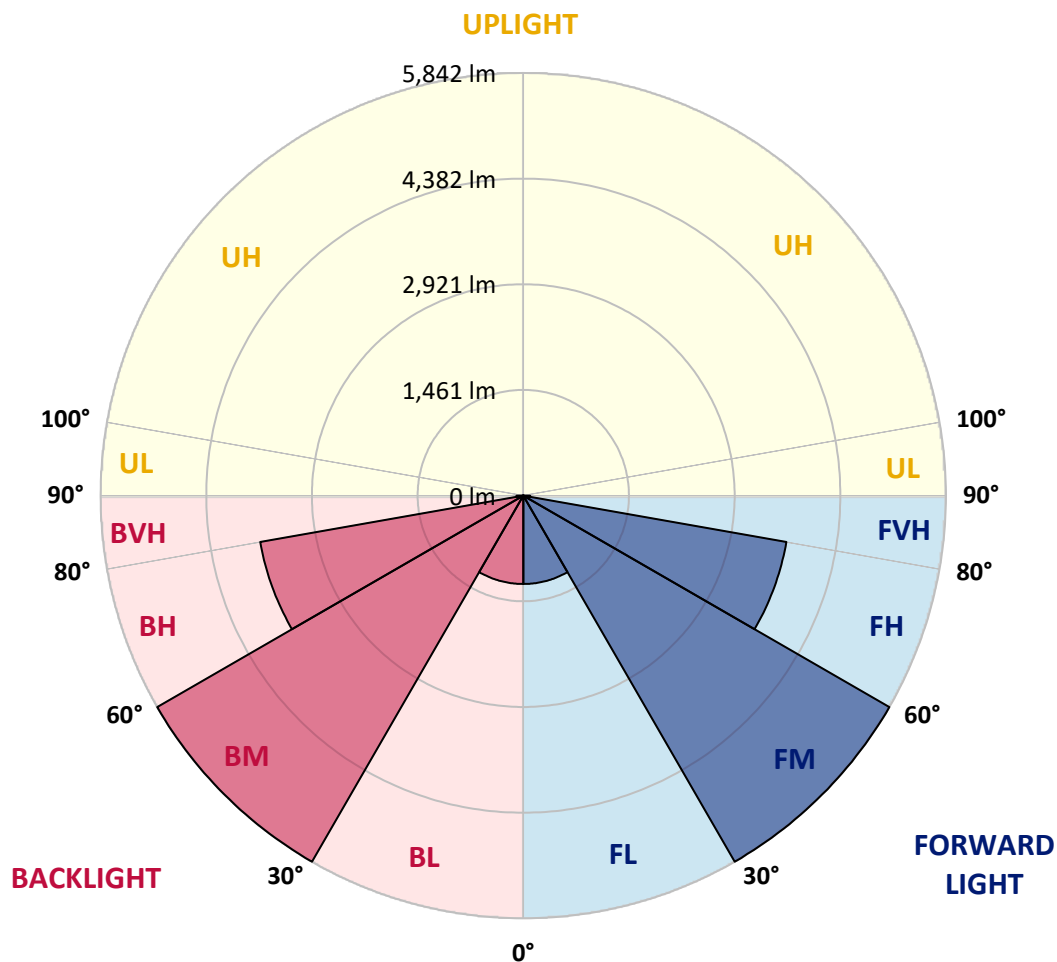
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1221.0 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5842.4 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 3692.0 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 94.1   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1221.0 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5842.4 | 26.9      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3692.0 | 17.0      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 94.1   | 0.4       |                         |      | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 | 2272.8 |
| 2.5°  | 2261.2 | 2263.5 | 2265.8 | 2269.3 | 2273.9 | 2280.9 | 2285.6 | 2289.1 | 2298.4 | 2299.5 | 2298.4 |
| 5°    | 2253.0 | 2255.3 | 2261.2 | 2271.6 | 2286.7 | 2307.7 | 2323.9 | 2343.7 | 2358.8 | 2369.3 | 2366.9 |
| 7.5°  | 2251.9 | 2256.5 | 2265.8 | 2287.9 | 2317.0 | 2353.0 | 2390.2 | 2423.9 | 2453.0 | 2476.2 | 2472.7 |
| 10°   | 2270.5 | 2276.3 | 2291.4 | 2323.9 | 2369.3 | 2421.6 | 2473.9 | 2523.9 | 2565.7 | 2596.0 | 2606.4 |
| 12.5° | 2301.8 | 2306.5 | 2334.4 | 2383.2 | 2448.3 | 2513.4 | 2572.7 | 2634.3 | 2692.5 | 2743.6 | 2743.6 |
| 15°   | 2356.5 | 2364.6 | 2399.5 | 2470.4 | 2550.6 | 2626.2 | 2686.6 | 2751.7 | 2814.5 | 2872.7 | 2890.1 |
| 17.5° | 2432.0 | 2443.7 | 2496.0 | 2586.7 | 2689.0 | 2758.7 | 2815.7 | 2869.2 | 2923.8 | 2979.6 | 2987.7 |
| 20°   | 2535.5 | 2547.1 | 2616.9 | 2726.2 | 2847.1 | 2930.8 | 2969.1 | 2981.9 | 3008.7 | 3062.1 | 3069.1 |
| 22.5° | 2676.2 | 2687.8 | 2765.7 | 2888.9 | 3023.8 | 3114.5 | 3130.7 | 3100.5 | 3093.5 | 3135.4 | 3140.0 |
| 25°   | 2835.5 | 2845.9 | 2935.4 | 3068.0 | 3207.5 | 3306.3 | 3301.6 | 3227.2 | 3185.4 | 3211.0 | 3217.9 |
| 27.5° | 3014.5 | 3029.6 | 3120.3 | 3257.5 | 3408.6 | 3495.8 | 3481.8 | 3373.7 | 3284.2 | 3279.5 | 3281.9 |
| 30°   | 3243.5 | 3259.8 | 3345.8 | 3477.2 | 3626.0 | 3706.2 | 3677.1 | 3531.8 | 3393.5 | 3347.0 | 3347.0 |
| 32.5° | 3485.3 | 3526.0 | 3613.2 | 3750.4 | 3866.6 | 3924.8 | 3880.6 | 3706.2 | 3522.5 | 3457.4 | 3453.9 |
| 35°   | 3800.4 | 3822.5 | 3908.5 | 4042.2 | 4129.4 | 4174.7 | 4089.8 | 3902.7 | 3691.1 | 3614.4 | 3603.9 |
| 37.5° | 4108.4 | 4127.0 | 4227.0 | 4354.9 | 4460.7 | 4458.4 | 4343.3 | 4136.3 | 3900.3 | 3814.3 | 3807.3 |
| 40°   | 4423.5 | 4443.3 | 4557.2 | 4674.6 | 4780.4 | 4771.1 | 4631.6 | 4400.2 | 4149.1 | 4052.6 | 4071.2 |
| 42.5° | 4696.7 | 4718.8 | 4847.8 | 5015.2 | 5110.6 | 5108.2 | 4946.6 | 4686.2 | 4424.7 | 4338.6 | 4354.9 |
| 45°   | 4945.5 | 4965.2 | 5115.2 | 5307.0 | 5446.5 | 5464.0 | 5287.3 | 5011.7 | 4743.2 | 4632.7 | 4637.4 |
| 47.5° | 5121.0 | 5158.2 | 5315.2 | 5534.9 | 5724.4 | 5786.0 | 5612.8 | 5343.1 | 5033.8 | 4918.7 | 4925.7 |
| 50°   | 5254.7 | 5278.0 | 5448.9 | 5698.8 | 5938.3 | 6066.2 | 5926.7 | 5650.0 | 5324.5 | 5202.4 | 5218.7 |
| 52.5° | 5271.0 | 5298.9 | 5484.9 | 5773.2 | 6080.1 | 6274.3 | 6205.7 | 5949.9 | 5620.9 | 5495.4 | 5530.2 |
| 55°   | 5138.5 | 5154.7 | 5376.8 | 5726.7 | 6135.9 | 6428.9 | 6446.3 | 6228.9 | 5903.4 | 5808.1 | 5831.3 |
| 57.5° | 4760.6 | 4802.5 | 5083.8 | 5509.3 | 6059.2 | 6511.4 | 6626.5 | 6482.4 | 6189.4 | 6095.2 | 6132.4 |
| 60°   | 4141.0 | 4182.8 | 4465.3 | 5004.8 | 5769.7 | 6473.1 | 6775.3 | 6706.7 | 6448.6 | 6373.1 | 6392.8 |
| 62.5° | 3244.7 | 3241.2 | 3591.1 | 4252.6 | 5194.3 | 6284.7 | 6885.8 | 6923.0 | 6704.4 | 6609.1 | 6639.3 |
| 65°   | 2103.0 | 2113.5 | 2451.8 | 3164.5 | 4325.8 | 5805.8 | 6910.2 | 7198.5 | 6955.5 | 6811.4 | 6833.4 |
| 66°   | 1691.5 | 1722.9 | 2010.0 | 2666.9 | 3882.9 | 5491.9 | 6836.9 | 7279.9 | 7032.2 | 6857.9 | 6868.3 |
| 67.5° | 1248.6 | 1242.8 | 1478.8 | 1985.6 | 3100.5 | 4895.5 | 6607.9 | 7331.0 | 7119.4 | 6899.7 | 6904.4 |
| 70°   | 712.6  | 711.5  | 795.2  | 1090.5 | 1822.9 | 3447.0 | 5569.8 | 7085.7 | 7296.1 | 7050.8 | 7038.1 |
| 72.5° | 520.8  | 517.3  | 529.0  | 602.2  | 889.3  | 1740.3 | 3842.2 | 6192.9 | 7205.5 | 7026.4 | 6990.4 |
| 75°   | 437.1  | 434.8  | 432.5  | 441.8  | 498.7  | 788.2  | 2039.1 | 4454.9 | 6252.2 | 6595.1 | 6557.9 |
| 77.5° | 356.9  | 356.9  | 358.1  | 355.7  | 358.1  | 415.0  | 845.2  | 2387.9 | 3807.3 | 4250.3 | 4353.7 |
| 80°   | 279.0  | 277.8  | 297.6  | 289.5  | 270.9  | 266.2  | 374.3  | 768.4  | 1263.7 | 1256.7 | 1037.0 |
| 82.5° | 205.8  | 191.8  | 226.7  | 220.9  | 200.0  | 169.7  | 218.6  | 327.8  | 422.0  | 274.4  | 203.4  |
| 85°   | 130.2  | 129.0  | 160.4  | 146.5  | 122.1  | 80.2   | 104.6  | 140.7  | 174.4  | 105.8  | 86.0   |
| 87.5° | 23.3   | 22.1   | 51.2   | 37.2   | 37.2   | 23.3   | 29.1   | 38.4   | 57.0   | 39.5   | 29.1   |
| 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)