

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: P528802

Luminaire Tested: **GLAN-SA3D-830-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-830-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16079 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

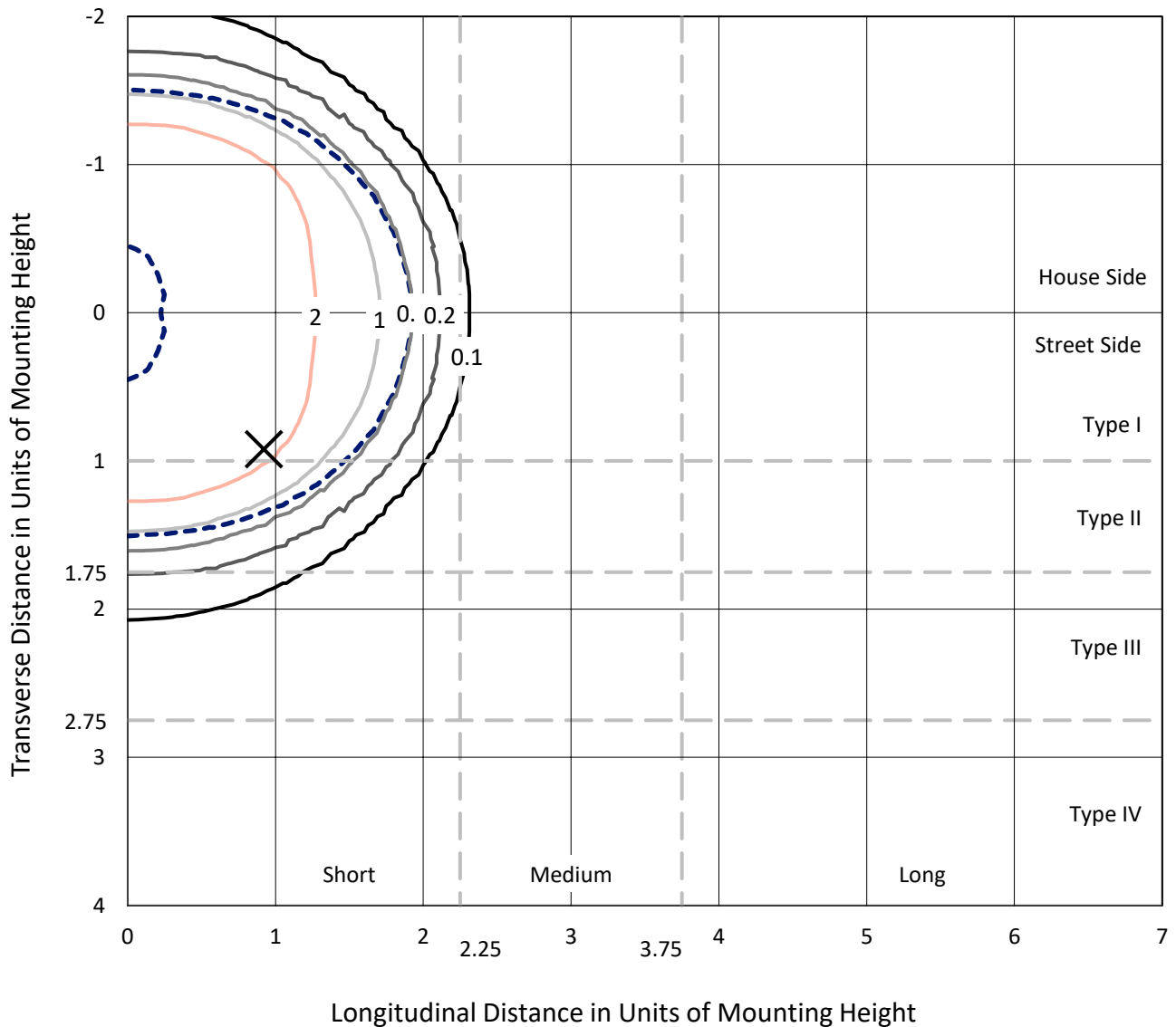
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

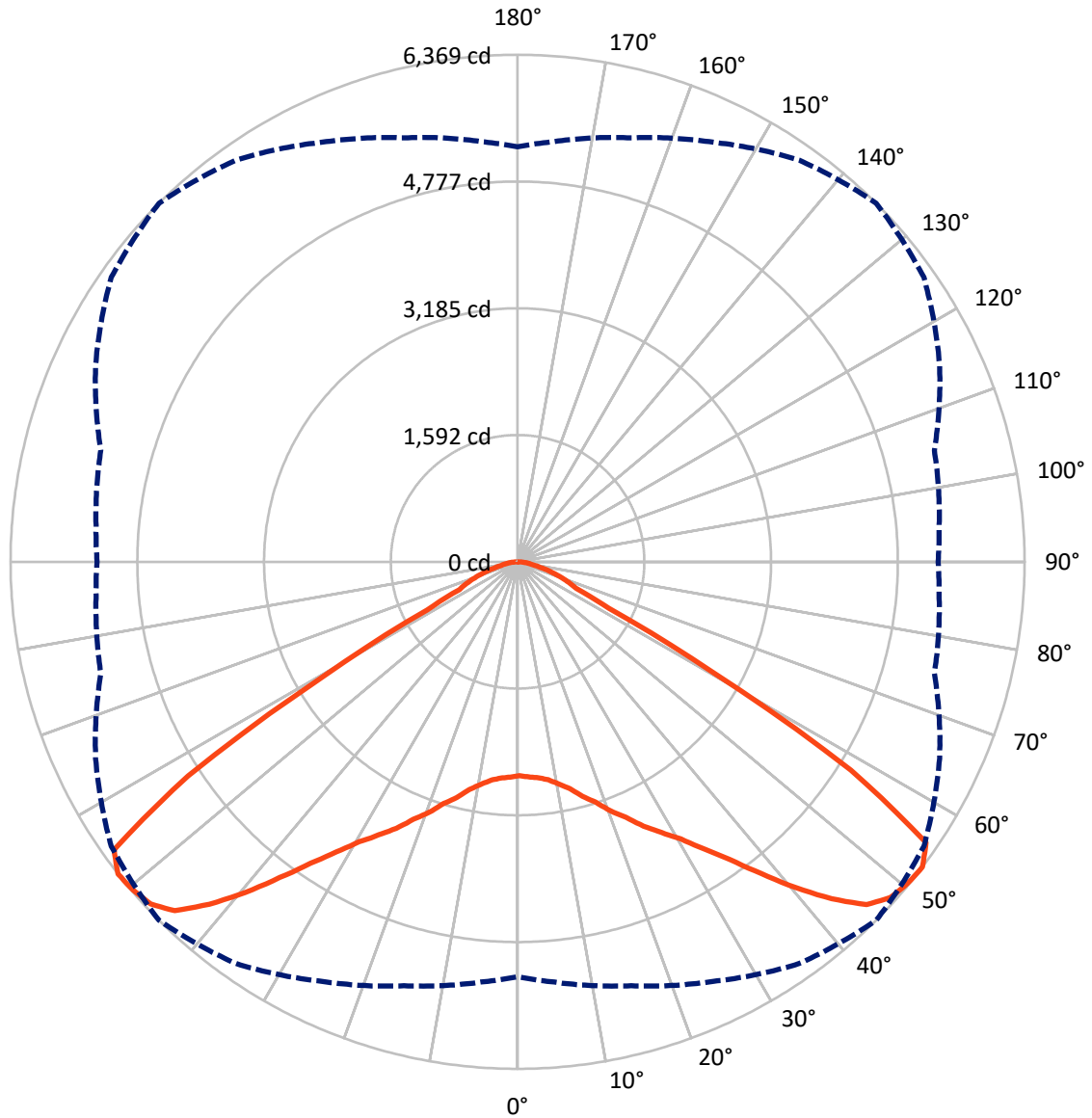
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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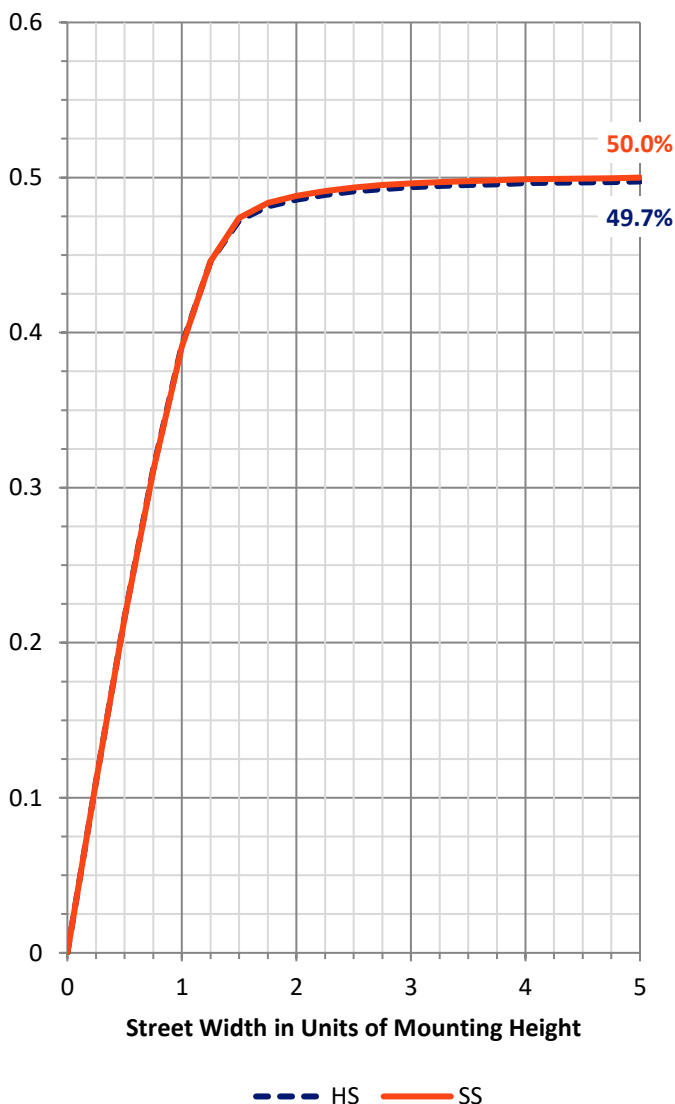
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8039.5 | 0.0 | 8039.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8039.5 | 0.0 | 8039.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16079.0 | 0.0 | 16079.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 264.1 | 1.6 |
| 10°-20° | 867.7 | 5.4 |
| 20°-30° | 1652.0 | 10.3 |
| 30°-40° | 2836.6 | 17.6 |
| 40°-50° | 4360.0 | 27.1 |
| 50°-60° | 4427.5 | 27.5 |
| 60°-70° | 1233.9 | 7.7 |
| 70°-80° | 364.0 | 2.3 |
| 80°-90° | 73.3 | 0.5 |
| 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° | 16079.0 | 100.0 |
| 0°-180° | 16079.0 | 100.0 |

Coefficient of Utilization



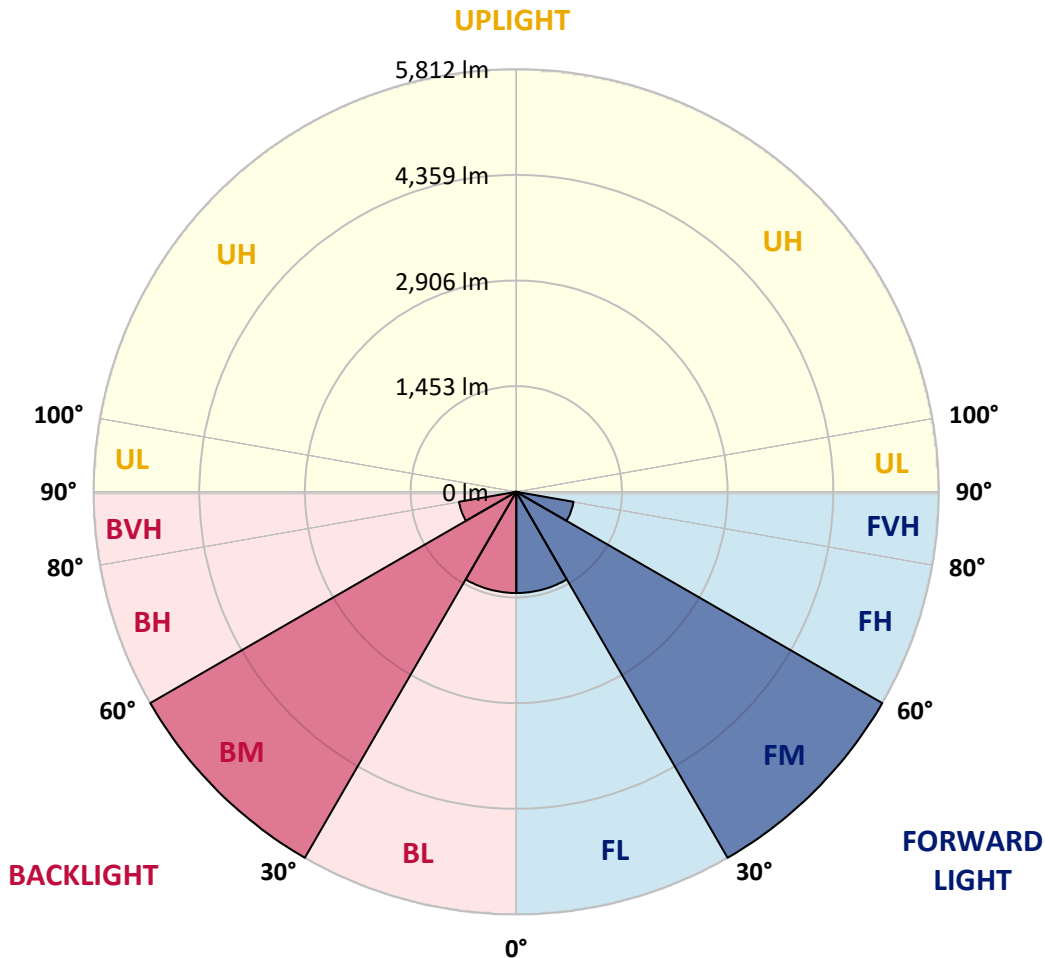
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1391.9 | 8.7 | | | |
| FM (30°-60°) | 5812.0 | 36.1 | | | |
| FH (60°-80°) | 798.9 | 5.0 | | | G1/1800 |
| FVH (80°-90°) | 36.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1391.9 | 8.7 | B3/2500 | | |
| BM (30°-60°) | 5812.0 | 36.1 | B4/8500 | | |
| BH (60°-80°) | 798.9 | 5.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 36.7 | 0.2 | | | 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° | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 | 2687.8 |
| 2.5° | 2693.8 | 2665.9 | 2675.8 | 2681.8 | 2707.8 | 2705.8 | 2699.8 | 2707.8 | 2715.8 | 2717.7 | 2713.8 |
| 5° | 2691.8 | 2671.9 | 2679.8 | 2685.8 | 2711.8 | 2725.7 | 2721.7 | 2755.7 | 2779.6 | 2773.6 | 2803.6 |
| 7.5° | 2675.8 | 2687.8 | 2677.8 | 2707.8 | 2729.7 | 2763.6 | 2799.6 | 2831.5 | 2861.4 | 2895.3 | 2901.3 |
| 10° | 2711.8 | 2711.8 | 2729.7 | 2753.7 | 2811.5 | 2837.5 | 2889.4 | 2935.2 | 2993.1 | 3033.0 | 3017.1 |
| 12.5° | 2749.7 | 2755.7 | 2755.7 | 2817.5 | 2865.4 | 2923.3 | 2971.2 | 3033.0 | 3114.8 | 3162.7 | 3186.7 |
| 15° | 2787.6 | 2791.6 | 2811.5 | 2895.3 | 2967.2 | 3059.0 | 3102.9 | 3158.7 | 3204.6 | 3294.4 | 3296.4 |
| 17.5° | 2821.5 | 2843.5 | 2903.3 | 2997.1 | 3086.9 | 3174.7 | 3244.5 | 3302.4 | 3342.3 | 3378.2 | 3370.2 |
| 20° | 2949.2 | 2965.2 | 3027.0 | 3120.8 | 3254.5 | 3340.3 | 3364.3 | 3374.2 | 3400.2 | 3472.0 | 3450.1 |
| 22.5° | 3072.9 | 3078.9 | 3136.8 | 3280.5 | 3374.2 | 3488.0 | 3513.9 | 3507.9 | 3517.9 | 3535.9 | 3567.8 |
| 25° | 3200.6 | 3210.6 | 3290.4 | 3412.2 | 3543.8 | 3679.5 | 3701.5 | 3655.6 | 3641.6 | 3661.6 | 3663.6 |
| 27.5° | 3364.3 | 3366.3 | 3468.0 | 3573.8 | 3723.4 | 3851.1 | 3885.1 | 3849.1 | 3783.3 | 3799.3 | 3825.2 |
| 30° | 3571.8 | 3557.8 | 3659.6 | 3811.2 | 3968.9 | 4040.7 | 4098.6 | 4080.6 | 4008.8 | 3994.8 | 3972.9 |
| 32.5° | 3811.2 | 3815.2 | 3907.0 | 4072.6 | 4176.4 | 4296.1 | 4358.0 | 4328.0 | 4282.1 | 4258.2 | 4272.2 |
| 35° | 4148.5 | 4166.4 | 4228.3 | 4366.0 | 4533.6 | 4593.4 | 4691.2 | 4627.4 | 4507.6 | 4537.6 | 4563.5 |
| 37.5° | 4425.8 | 4477.7 | 4593.4 | 4757.1 | 4856.8 | 4966.6 | 5002.5 | 4916.7 | 4828.9 | 4793.0 | 4878.8 |
| 40° | 4850.8 | 4834.9 | 4962.6 | 5126.2 | 5273.9 | 5383.6 | 5337.7 | 5251.9 | 5034.4 | 5036.4 | 5060.4 |
| 42.5° | 5216.0 | 5224.0 | 5321.8 | 5517.3 | 5718.8 | 5786.7 | 5641.0 | 5431.5 | 5190.1 | 5164.1 | 5216.0 |
| 45° | 5523.3 | 5555.2 | 5611.1 | 5872.5 | 6070.0 | 6143.9 | 5874.5 | 5627.1 | 5303.8 | 5196.0 | 5281.8 |
| 47.5° | 5633.0 | 5684.9 | 5806.6 | 6046.1 | 6241.6 | 6301.5 | 6086.0 | 5730.8 | 5409.6 | 5234.0 | 5279.9 |
| 50° | 5649.0 | 5631.0 | 5830.6 | 6050.1 | 6221.7 | 6351.4 | 6161.8 | 5806.6 | 5383.6 | 5291.8 | 5277.9 |
| 52.5° | 5212.0 | 5299.8 | 5513.3 | 5814.6 | 6161.8 | 6369.3 | 6229.7 | 5848.5 | 5419.5 | 5315.8 | 5281.8 |
| 55° | 4218.3 | 4114.5 | 4503.6 | 5010.5 | 5649.0 | 6225.7 | 6205.7 | 5870.5 | 5441.5 | 5355.7 | 5309.8 |
| 57.5° | 2354.6 | 2384.5 | 2604.0 | 3154.7 | 3978.8 | 4936.6 | 5517.3 | 5639.0 | 5431.5 | 5381.6 | 5405.6 |
| 60° | 1089.5 | 1099.5 | 1193.3 | 1450.7 | 1961.5 | 2799.6 | 3563.8 | 4340.0 | 4697.2 | 4769.0 | 4769.0 |
| 62.5° | 812.1 | 808.1 | 832.1 | 878.0 | 985.7 | 1287.0 | 1718.0 | 2334.6 | 2825.5 | 3168.7 | 3258.5 |
| 65° | 734.3 | 732.3 | 744.3 | 760.3 | 768.2 | 810.1 | 905.9 | 1095.5 | 1255.1 | 1346.9 | 1330.9 |
| 67.5° | 642.5 | 640.5 | 644.5 | 654.5 | 668.5 | 690.4 | 714.4 | 754.3 | 810.1 | 806.1 | 796.2 |
| 70° | 518.8 | 518.8 | 524.8 | 532.8 | 548.7 | 574.7 | 602.6 | 630.5 | 678.4 | 688.4 | 686.4 |
| 72.5° | 383.1 | 377.1 | 389.1 | 405.1 | 421.0 | 453.0 | 482.9 | 508.8 | 542.8 | 552.7 | 548.7 |
| 75° | 243.4 | 247.4 | 255.4 | 273.4 | 301.3 | 323.3 | 355.2 | 377.1 | 399.1 | 407.1 | 409.1 |
| 77.5° | 135.7 | 139.7 | 153.6 | 175.6 | 203.5 | 227.5 | 255.4 | 273.4 | 287.3 | 289.3 | 291.3 |
| 80° | 81.8 | 83.8 | 97.8 | 117.7 | 141.7 | 167.6 | 189.6 | 207.5 | 219.5 | 213.5 | 211.5 |
| 82.5° | 49.9 | 51.9 | 63.9 | 81.8 | 101.8 | 121.7 | 145.7 | 161.6 | 173.6 | 165.6 | 157.6 |
| 85° | 25.9 | 27.9 | 37.9 | 49.9 | 65.8 | 75.8 | 75.8 | 67.8 | 65.8 | 61.9 | 59.9 |
| 87.5° | 8.0 | 8.0 | 10.0 | 12.0 | 10.0 | 12.0 | 14.0 | 16.0 | 16.0 | 18.0 | 16.0 |
| 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)