

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: P649322

Luminaire Tested: **GLAN-SA3D-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18050.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

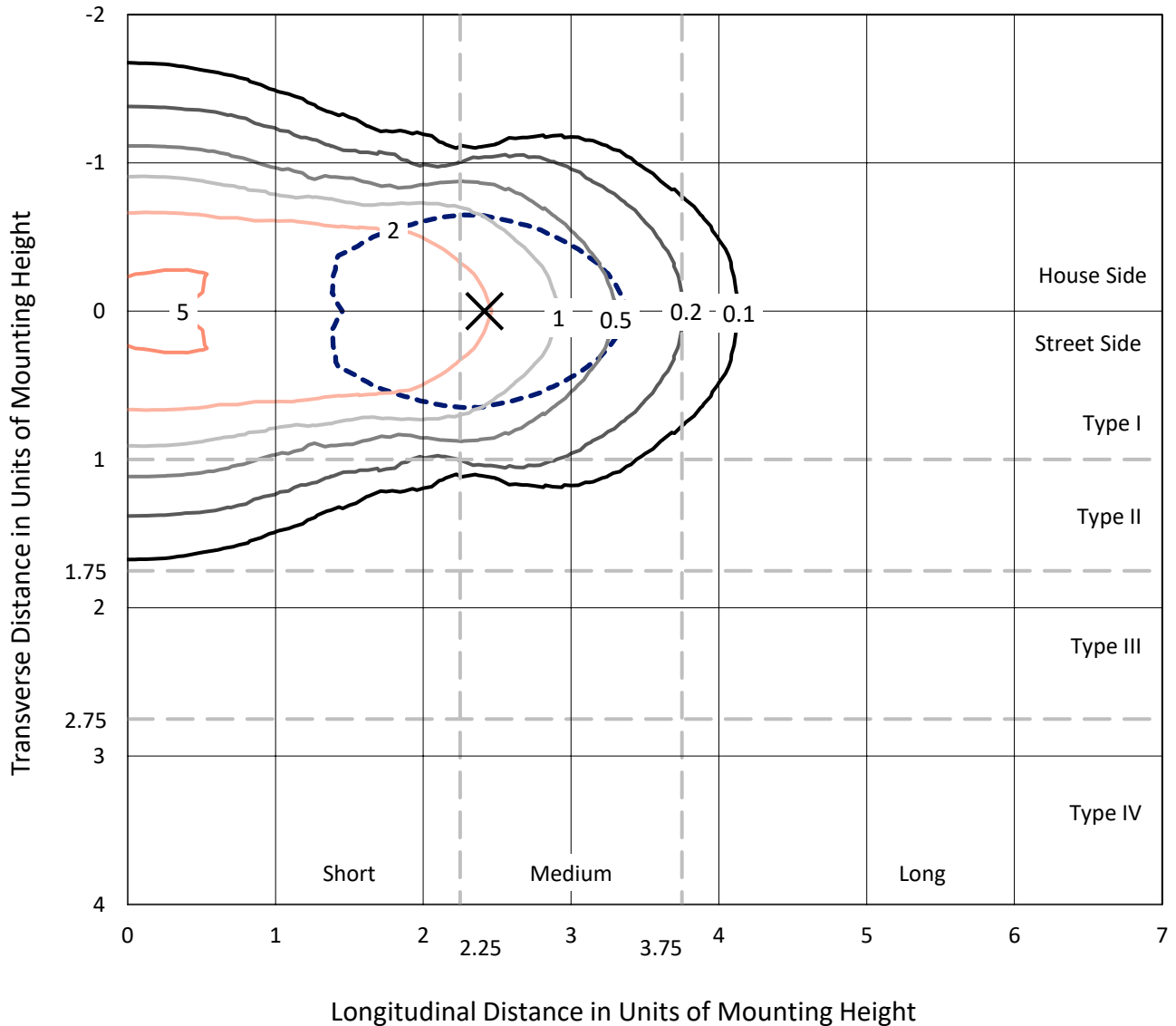
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

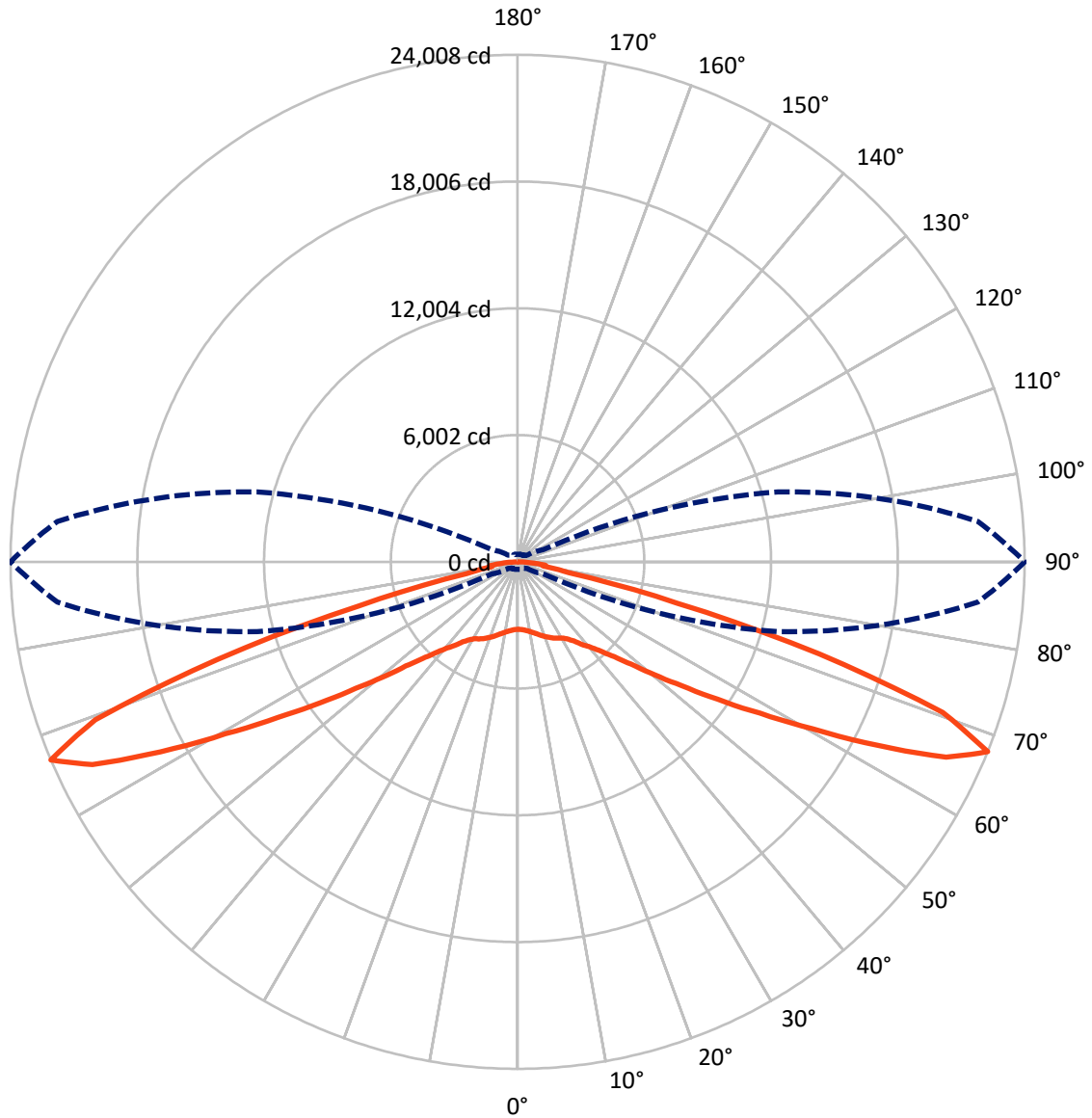
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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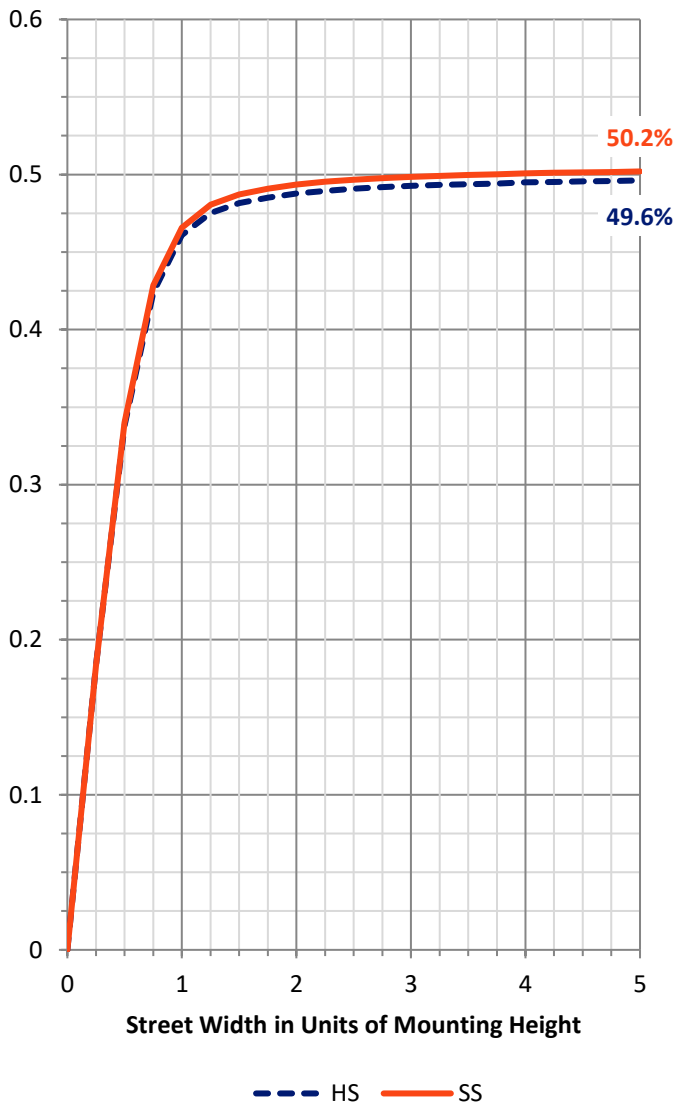
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9025.2 | 0.0 | 9025.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9025.2 | 0.0 | 9025.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18050.5 | 0.0 | 18050.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.6 | 1.8 |
| 10°-20° | 1019.3 | 5.6 |
| 20°-30° | 1706.1 | 9.5 |
| 30°-40° | 2311.3 | 12.8 |
| 40°-50° | 2927.6 | 16.2 |
| 50°-60° | 3657.3 | 20.3 |
| 60°-70° | 4299.0 | 23.8 |
| 70°-80° | 1644.6 | 9.1 |
| 80°-90° | 166.6 | 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° | 18050.5 | 100.0 |
| 0°-180° | 18050.5 | 100.0 |

Coefficient of Utilization

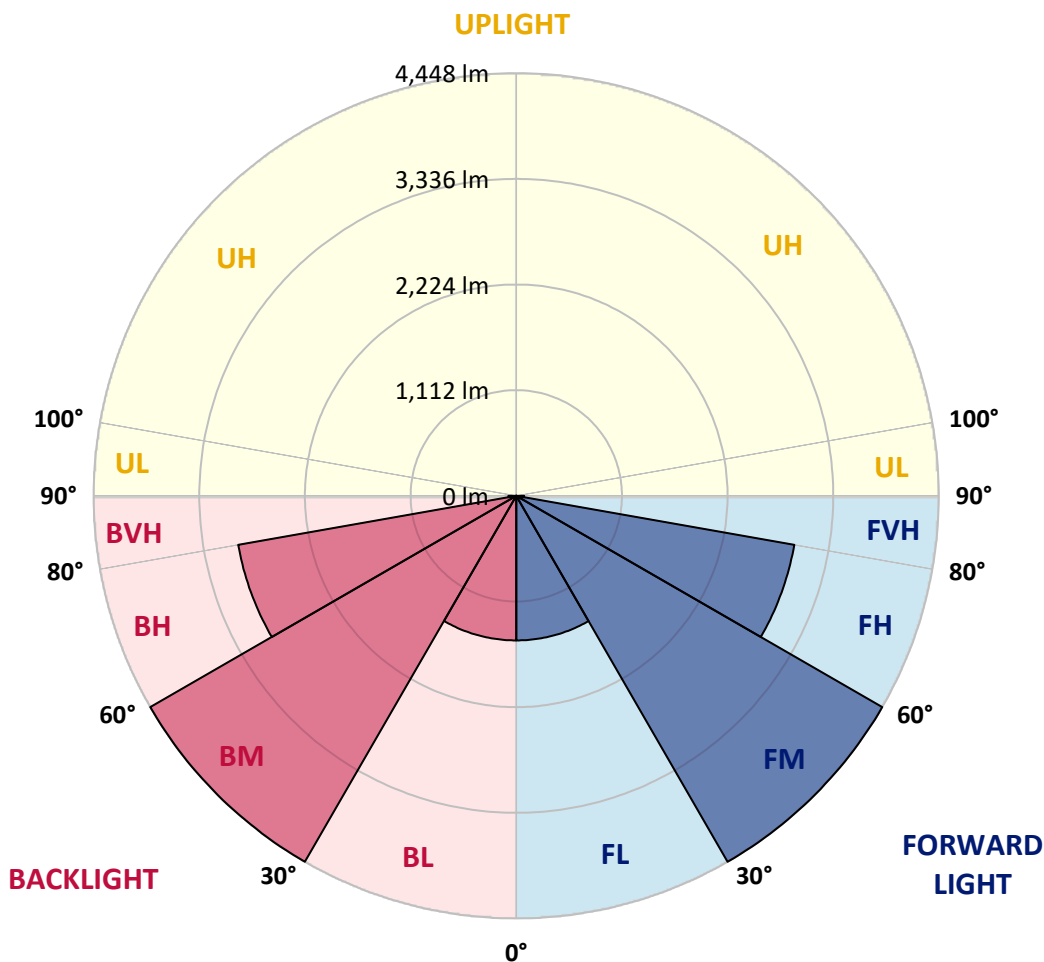


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1522.0 | 8.4 | | | |
| FM (30°-60°) | 4448.1 | 24.6 | | | |
| FH (60°-80°) | 2971.8 | 16.5 | | | G2/5000 |
| FVH (80°-90°) | 83.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1522.0 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 4448.1 | 24.6 | B3/5000 | | |
| BH (60°-80°) | 2971.8 | 16.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 83.3 | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 | 3195.5 |
| 2.5° | 3236.5 | 3234.5 | 3235.5 | 3234.5 | 3237.5 | 3235.5 | 3223.5 | 3213.5 | 3205.5 | 3206.5 | 3203.5 |
| 5° | 3305.4 | 3306.5 | 3307.5 | 3302.5 | 3309.4 | 3305.4 | 3286.5 | 3270.4 | 3254.5 | 3248.5 | 3246.5 |
| 7.5° | 3362.4 | 3367.4 | 3370.4 | 3375.4 | 3387.4 | 3387.4 | 3377.4 | 3354.5 | 3319.5 | 3299.5 | 3298.5 |
| 10° | 3419.4 | 3423.4 | 3432.4 | 3448.4 | 3468.4 | 3487.3 | 3483.3 | 3452.4 | 3407.4 | 3373.4 | 3365.4 |
| 12.5° | 3439.4 | 3444.4 | 3474.4 | 3520.4 | 3565.3 | 3602.3 | 3602.3 | 3577.3 | 3519.4 | 3467.4 | 3452.4 |
| 15° | 3369.4 | 3378.4 | 3432.4 | 3530.3 | 3648.3 | 3729.3 | 3747.2 | 3712.3 | 3650.3 | 3570.3 | 3552.3 |
| 17.5° | 3230.5 | 3252.5 | 3331.4 | 3476.4 | 3672.3 | 3840.2 | 3892.1 | 3875.1 | 3795.2 | 3693.3 | 3672.3 |
| 20° | 3081.6 | 3105.5 | 3189.5 | 3381.4 | 3652.3 | 3905.1 | 4056.1 | 4060.1 | 3961.1 | 3813.2 | 3782.2 |
| 22.5° | 2917.6 | 2935.6 | 3043.6 | 3268.5 | 3592.3 | 3920.2 | 4197.0 | 4266.0 | 4132.0 | 3933.2 | 3889.2 |
| 25° | 2733.7 | 2753.7 | 2866.6 | 3109.5 | 3479.3 | 3903.2 | 4326.0 | 4477.9 | 4311.0 | 4061.1 | 4005.1 |
| 27.5° | 2557.8 | 2565.8 | 2686.7 | 2933.6 | 3330.4 | 3859.2 | 4420.9 | 4672.8 | 4508.9 | 4167.0 | 4096.1 |
| 30° | 2388.9 | 2407.9 | 2514.8 | 2758.7 | 3159.5 | 3773.2 | 4502.9 | 4894.7 | 4721.8 | 4278.0 | 4187.0 |
| 32.5° | 2209.9 | 2233.0 | 2348.9 | 2595.8 | 2988.6 | 3644.3 | 4552.8 | 5137.6 | 5018.6 | 4457.9 | 4360.9 |
| 35° | 2038.1 | 2053.0 | 2170.0 | 2409.8 | 2821.7 | 3494.4 | 4561.8 | 5411.5 | 5401.4 | 4730.8 | 4601.8 |
| 37.5° | 1862.1 | 1884.1 | 2002.1 | 2231.9 | 2644.7 | 3335.4 | 4516.9 | 5702.4 | 5863.3 | 5109.6 | 4970.6 |
| 40° | 1693.2 | 1712.2 | 1828.1 | 2060.0 | 2443.8 | 3141.6 | 4409.9 | 5968.2 | 6402.0 | 5499.4 | 5302.5 |
| 42.5° | 1509.3 | 1514.3 | 1641.2 | 1877.1 | 2247.0 | 2916.6 | 4256.0 | 6205.1 | 7002.7 | 6022.2 | 5777.3 |
| 45° | 1300.4 | 1313.4 | 1431.3 | 1663.2 | 2021.1 | 2664.8 | 4047.1 | 6401.0 | 7764.4 | 6746.8 | 6413.0 |
| 47.5° | 1091.5 | 1102.5 | 1210.4 | 1439.3 | 1774.2 | 2375.9 | 3725.3 | 6572.9 | 8546.0 | 7667.4 | 7229.6 |
| 50° | 887.6 | 893.6 | 981.6 | 1184.4 | 1496.3 | 2072.1 | 3326.4 | 6627.9 | 9429.6 | 8970.8 | 8412.1 |
| 52.5° | 701.6 | 710.7 | 777.6 | 936.5 | 1199.4 | 1713.2 | 2895.6 | 6491.9 | 10461.1 | 10516.1 | 9728.5 |
| 55° | 568.8 | 571.7 | 621.7 | 738.7 | 937.6 | 1337.4 | 2375.9 | 6113.1 | 11570.5 | 12496.1 | 11491.6 |
| 57.5° | 489.8 | 491.8 | 519.8 | 584.7 | 721.7 | 1008.5 | 1843.1 | 5396.4 | 12567.1 | 14816.1 | 13524.7 |
| 60° | 444.8 | 445.8 | 461.8 | 499.8 | 571.7 | 773.6 | 1320.4 | 4385.0 | 13550.7 | 17397.9 | 16051.5 |
| 62.5° | 416.8 | 416.8 | 427.8 | 448.8 | 483.7 | 593.7 | 956.5 | 3163.5 | 14224.3 | 20017.6 | 19166.0 |
| 65° | 389.9 | 389.9 | 397.8 | 412.8 | 431.8 | 485.8 | 706.7 | 2063.0 | 14207.3 | 21925.7 | 22298.5 |
| 67.5° | 358.8 | 358.8 | 364.8 | 379.8 | 390.8 | 417.8 | 545.8 | 1351.4 | 12762.0 | 21883.8 | 24007.7 |
| 70° | 321.8 | 321.8 | 329.9 | 342.9 | 351.8 | 368.8 | 430.8 | 924.6 | 9375.6 | 18685.2 | 21351.0 |
| 72.5° | 284.9 | 285.9 | 290.9 | 303.9 | 310.9 | 320.9 | 357.8 | 647.7 | 5751.3 | 12723.0 | 14929.0 |
| 75° | 243.9 | 245.9 | 250.9 | 263.9 | 269.9 | 273.9 | 301.8 | 461.8 | 2909.6 | 6859.8 | 7810.3 |
| 77.5° | 196.9 | 200.9 | 203.9 | 217.9 | 221.9 | 227.9 | 248.9 | 333.9 | 1277.4 | 2464.8 | 2486.8 |
| 80° | 143.9 | 148.9 | 157.9 | 170.9 | 173.9 | 177.9 | 189.9 | 236.9 | 578.7 | 1125.5 | 1222.4 |
| 82.5° | 105.9 | 112.9 | 101.9 | 118.9 | 118.9 | 113.9 | 134.0 | 158.9 | 265.9 | 1114.4 | 1333.4 |
| 85° | 57.9 | 59.0 | 53.0 | 61.0 | 65.0 | 64.0 | 70.9 | 78.0 | 129.0 | 743.6 | 766.6 |
| 87.5° | 14.0 | 15.0 | 16.0 | 19.0 | 23.0 | 23.0 | 25.0 | 22.0 | 42.0 | 240.9 | 138.0 |
| 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)