

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: P647012

Luminaire Tested: **GALN-SA6C-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647012
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: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32585.4 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

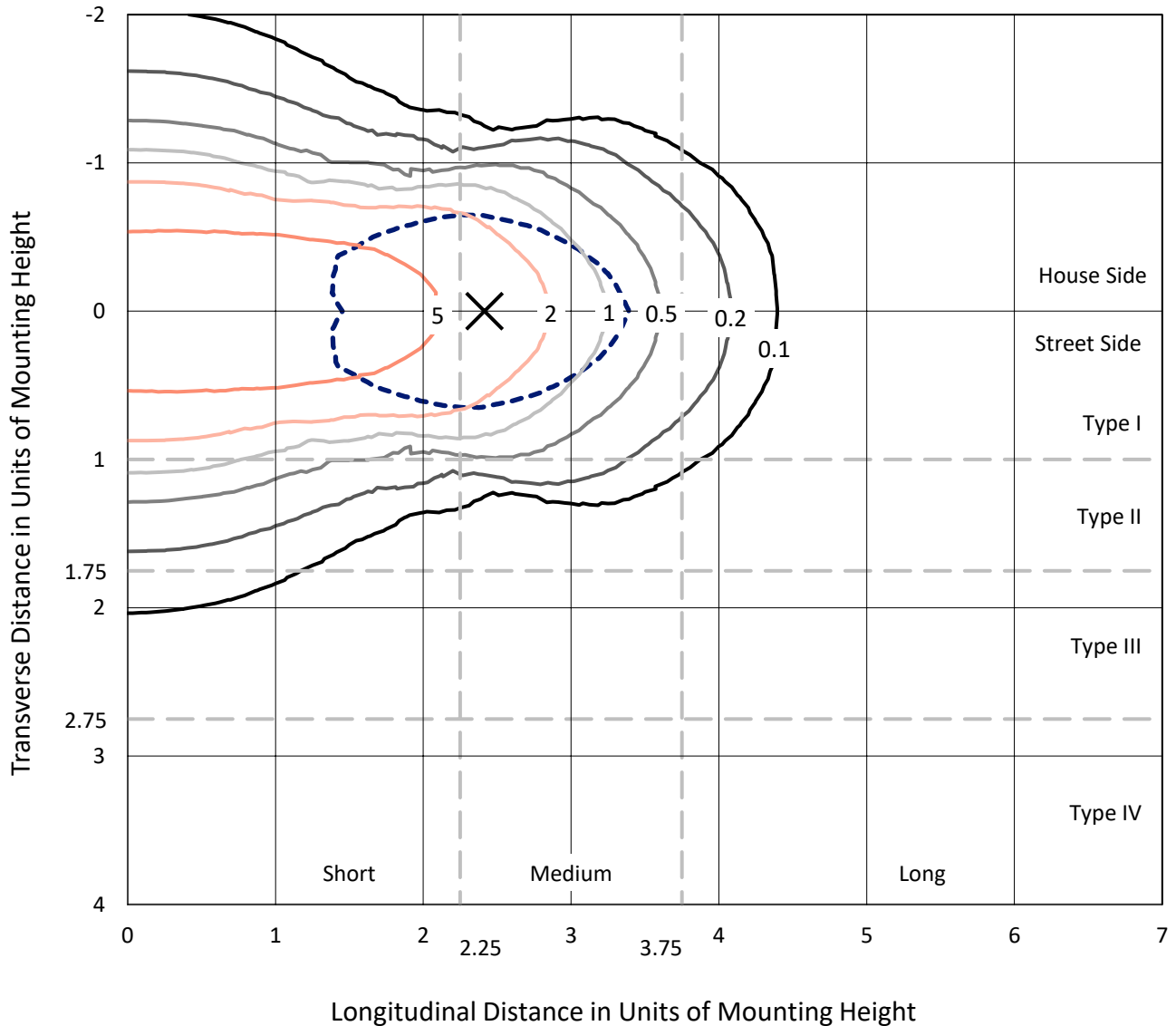
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

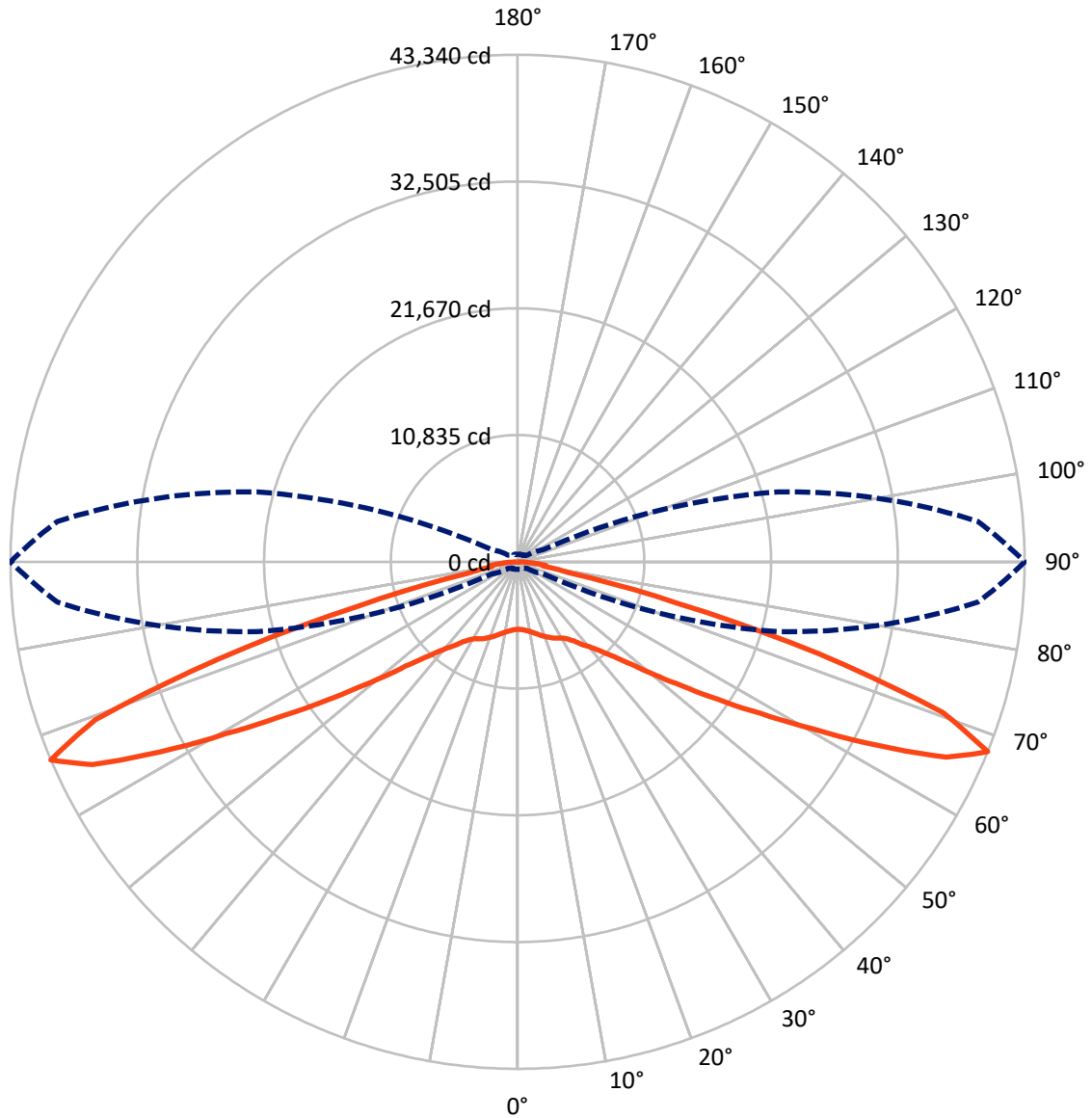
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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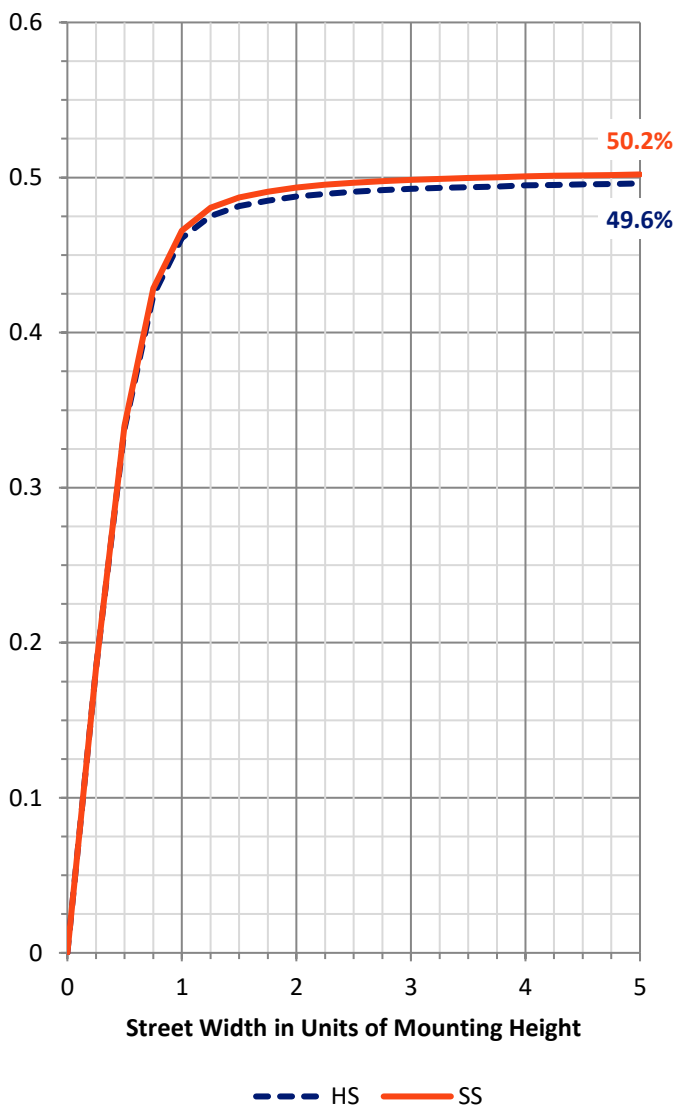
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16292.7 | 0.0 | 16292.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16292.7 | 0.0 | 16292.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32585.4 | 0.0 | 32585.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 575.1 | 1.8 |
| 10°-20° | 1840.1 | 5.6 |
| 20°-30° | 3079.9 | 9.5 |
| 30°-40° | 4172.4 | 12.8 |
| 40°-50° | 5285.1 | 16.2 |
| 50°-60° | 6602.4 | 20.3 |
| 60°-70° | 7760.8 | 23.8 |
| 70°-80° | 2968.9 | 9.1 |
| 80°-90° | 300.8 | 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° | 32585.4 | 100.0 |
| 0°-180° | 32585.4 | 100.0 |

Coefficient of Utilization



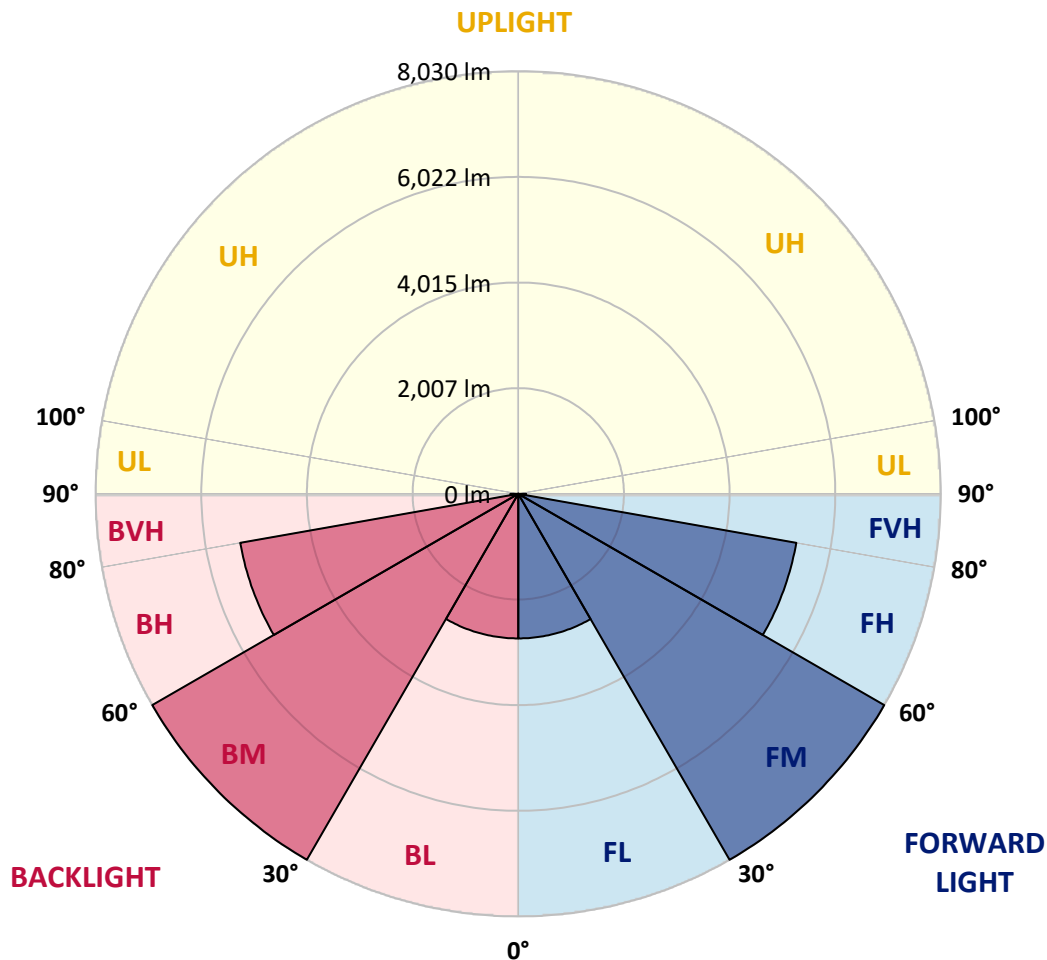
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2747.6 | 8.4 | | | |
| FM (30°-60°) | 8029.9 | 24.6 | | | |
| FH (60°-80°) | 5364.8 | 16.5 | | | G3/7500 |
| FVH (80°-90°) | 150.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2747.6 | 8.4 | B4/5000 | | |
| BM (30°-60°) | 8029.9 | 24.6 | B4/8500 | | |
| BH (60°-80°) | 5364.8 | 16.5 | B5 | | G5 |
| BVH (80°-90°) | 150.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 | 5768.6 |
| 2.5° | 5842.6 | 5839.0 | 5840.8 | 5839.0 | 5844.4 | 5840.8 | 5819.2 | 5801.1 | 5786.7 | 5788.5 | 5783.1 |
| 5° | 5967.1 | 5968.9 | 5970.7 | 5961.7 | 5974.3 | 5967.1 | 5932.8 | 5904.0 | 5875.1 | 5864.3 | 5860.7 |
| 7.5° | 6070.0 | 6079.0 | 6084.4 | 6093.4 | 6115.1 | 6115.1 | 6097.0 | 6055.5 | 5992.4 | 5956.3 | 5954.5 |
| 10° | 6172.8 | 6180.0 | 6196.3 | 6225.2 | 6261.2 | 6295.5 | 6288.3 | 6232.4 | 6151.2 | 6089.8 | 6075.4 |
| 12.5° | 6208.9 | 6217.9 | 6272.1 | 6355.1 | 6436.3 | 6503.0 | 6503.0 | 6457.9 | 6353.3 | 6259.4 | 6232.4 |
| 15° | 6082.6 | 6098.8 | 6196.3 | 6373.1 | 6586.0 | 6732.2 | 6764.7 | 6701.5 | 6589.6 | 6445.3 | 6412.8 |
| 17.5° | 5831.8 | 5871.5 | 6014.0 | 6275.7 | 6629.3 | 6932.4 | 7026.3 | 6995.6 | 6851.2 | 6667.2 | 6629.3 |
| 20° | 5562.9 | 5606.2 | 5757.8 | 6104.3 | 6593.3 | 7049.7 | 7322.2 | 7329.4 | 7150.7 | 6883.7 | 6827.8 |
| 22.5° | 5267.0 | 5299.5 | 5494.4 | 5900.4 | 6485.0 | 7076.8 | 7576.6 | 7701.1 | 7459.3 | 7100.2 | 7020.8 |
| 25° | 4935.0 | 4971.1 | 5175.0 | 5613.4 | 6281.1 | 7046.1 | 7809.4 | 8083.6 | 7782.3 | 7331.2 | 7230.1 |
| 27.5° | 4617.4 | 4631.8 | 4850.2 | 5295.9 | 6012.2 | 6966.7 | 7980.8 | 8435.5 | 8139.6 | 7522.5 | 7394.3 |
| 30° | 4312.5 | 4346.7 | 4539.8 | 4980.1 | 5703.7 | 6811.6 | 8128.7 | 8836.1 | 8523.9 | 7722.7 | 7558.5 |
| 32.5° | 3989.5 | 4031.0 | 4240.3 | 4686.0 | 5395.1 | 6578.8 | 8219.0 | 9274.6 | 9059.8 | 8047.5 | 7872.5 |
| 35° | 3679.2 | 3706.2 | 3917.3 | 4350.3 | 5093.8 | 6308.2 | 8235.2 | 9768.9 | 9750.9 | 8540.2 | 8307.4 |
| 37.5° | 3361.6 | 3401.3 | 3614.2 | 4029.2 | 4774.4 | 6021.3 | 8154.0 | 10294.0 | 10584.5 | 9224.1 | 8973.2 |
| 40° | 3056.6 | 3090.9 | 3300.2 | 3718.9 | 4411.7 | 5671.2 | 7960.9 | 10774.0 | 11557.1 | 9927.7 | 9572.3 |
| 42.5° | 2724.6 | 2733.6 | 2962.8 | 3388.7 | 4056.3 | 5265.2 | 7683.0 | 11201.6 | 12641.5 | 10871.4 | 10429.3 |
| 45° | 2347.5 | 2370.9 | 2583.9 | 3002.5 | 3648.5 | 4810.5 | 7305.9 | 11555.3 | 14016.5 | 12179.6 | 11577.0 |
| 47.5° | 1970.4 | 1990.2 | 2185.1 | 2598.3 | 3202.8 | 4289.0 | 6725.0 | 11865.7 | 15427.5 | 13841.4 | 13051.1 |
| 50° | 1602.3 | 1613.1 | 1771.9 | 2138.2 | 2701.2 | 3740.5 | 6005.0 | 11964.9 | 17022.6 | 16194.3 | 15185.7 |
| 52.5° | 1266.7 | 1282.9 | 1403.8 | 1690.7 | 2165.2 | 3092.7 | 5227.3 | 11719.5 | 18884.7 | 18983.9 | 17562.1 |
| 55° | 1026.7 | 1032.1 | 1122.4 | 1333.4 | 1692.5 | 2414.3 | 4289.0 | 11035.6 | 20887.5 | 22558.4 | 20745.0 |
| 57.5° | 884.2 | 887.8 | 938.3 | 1055.6 | 1302.8 | 1820.6 | 3327.3 | 9741.9 | 22686.6 | 26746.4 | 24415.1 |
| 60° | 803.0 | 804.8 | 833.7 | 902.2 | 1032.1 | 1396.6 | 2383.6 | 7915.8 | 24462.0 | 31407.1 | 28976.6 |
| 62.5° | 752.5 | 752.5 | 772.3 | 810.2 | 873.4 | 1071.8 | 1726.8 | 5710.9 | 25678.2 | 36136.4 | 34599.0 |
| 65° | 703.7 | 703.7 | 718.2 | 745.2 | 779.5 | 877.0 | 1275.7 | 3724.3 | 25647.6 | 39581.0 | 40254.0 |
| 67.5° | 647.8 | 647.8 | 658.6 | 685.7 | 705.5 | 754.3 | 985.2 | 2439.5 | 23038.4 | 39505.2 | 43339.5 |
| 70° | 581.0 | 581.0 | 595.5 | 618.9 | 635.2 | 665.8 | 777.7 | 1669.0 | 16925.1 | 33731.2 | 38543.5 |
| 72.5° | 514.3 | 516.1 | 525.1 | 548.6 | 561.2 | 579.2 | 646.0 | 1169.3 | 10382.4 | 22968.0 | 26950.3 |
| 75° | 440.3 | 443.9 | 452.9 | 476.4 | 487.2 | 494.4 | 544.9 | 833.7 | 5252.6 | 12383.5 | 14099.5 |
| 77.5° | 355.5 | 362.7 | 368.1 | 393.4 | 400.6 | 411.4 | 449.3 | 602.7 | 2306.0 | 4449.6 | 4489.3 |
| 80° | 259.8 | 268.9 | 285.1 | 308.6 | 314.0 | 321.2 | 342.8 | 427.7 | 1044.8 | 2031.7 | 2206.7 |
| 82.5° | 191.3 | 203.9 | 184.1 | 214.7 | 214.7 | 205.7 | 241.8 | 286.9 | 480.0 | 2011.9 | 2407.0 |
| 85° | 104.7 | 106.5 | 95.6 | 110.1 | 117.3 | 115.5 | 128.1 | 140.7 | 232.8 | 1342.5 | 1384.0 |
| 87.5° | 25.3 | 27.1 | 28.9 | 34.3 | 41.5 | 41.5 | 45.1 | 39.7 | 75.8 | 434.9 | 249.0 |
| 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)