

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: P649347

Luminaire Tested: **GLAN-SA4D-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21583.4 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

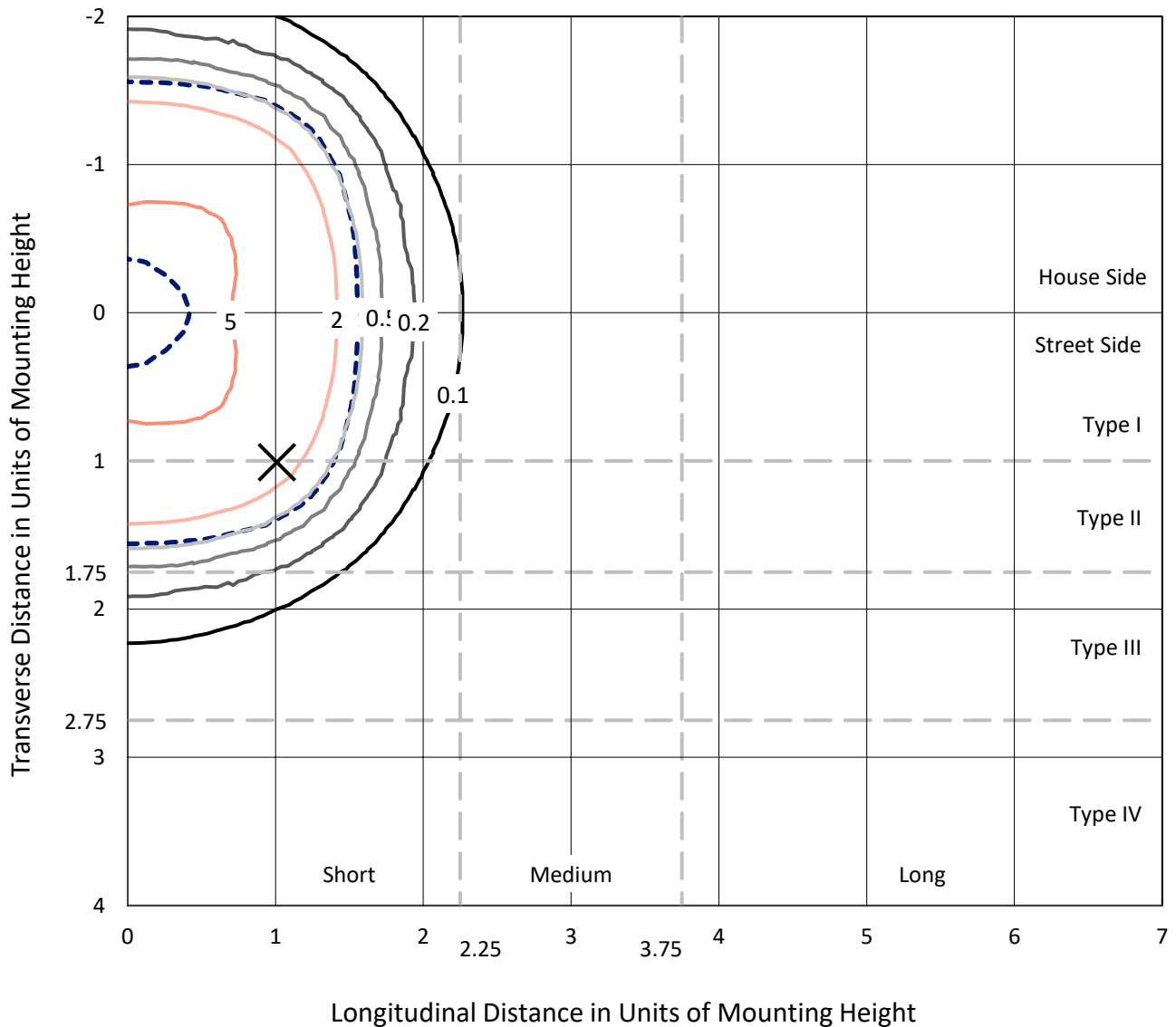
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

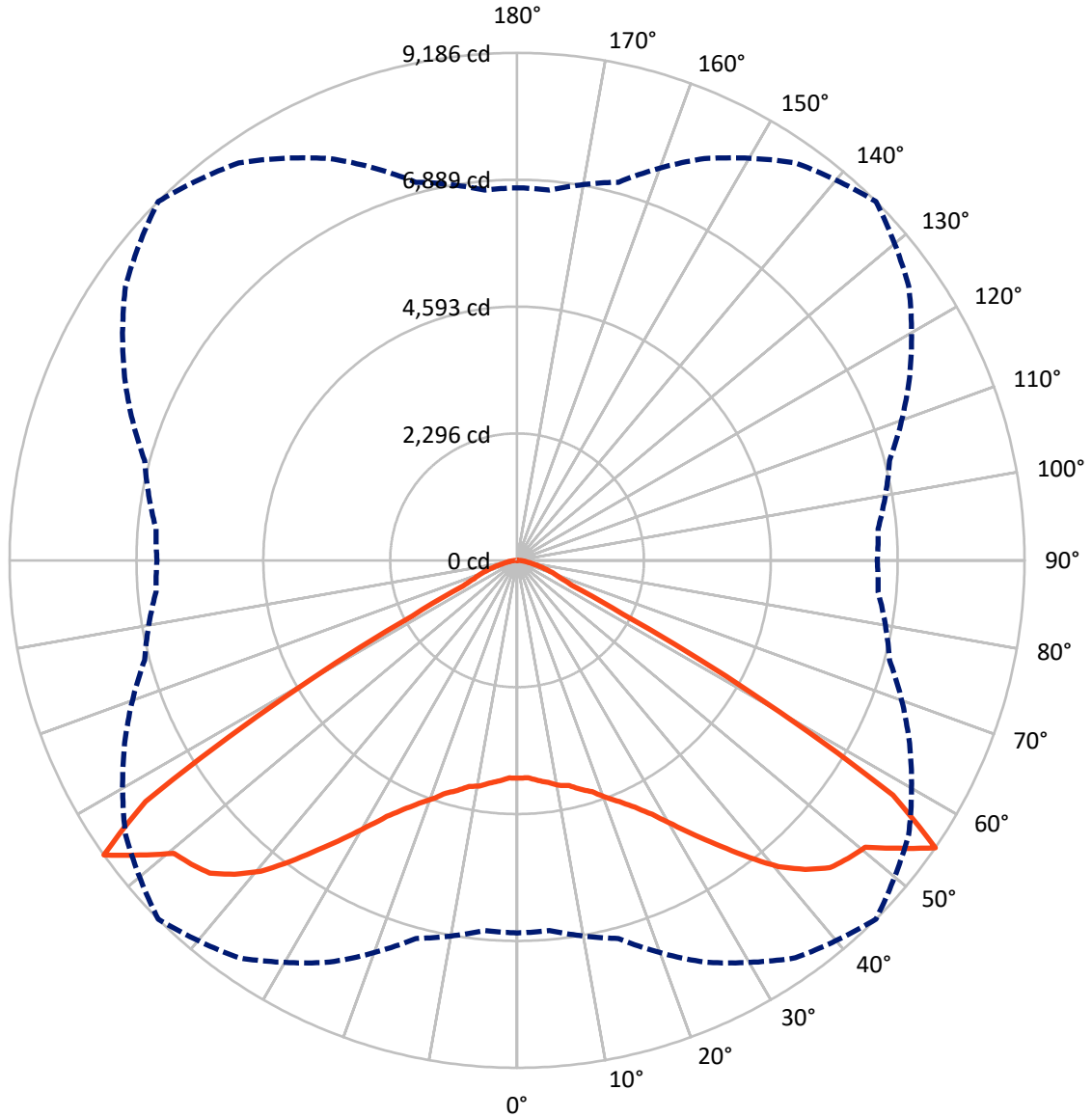
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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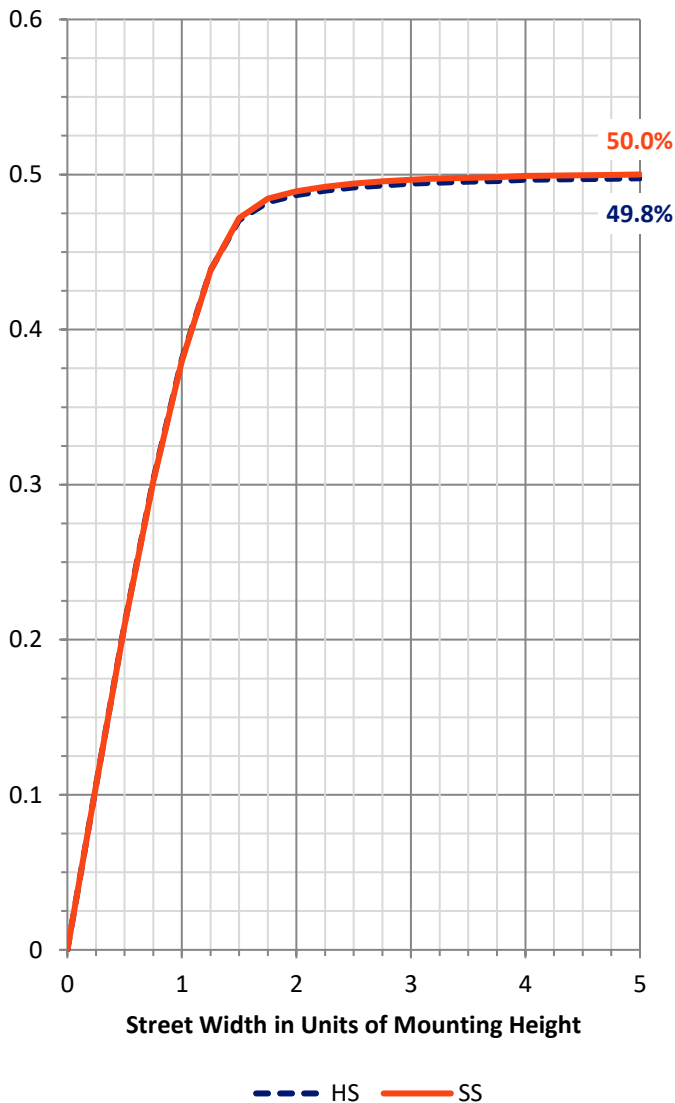
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10791.7 | 0.0 | 10791.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10791.7 | 0.0 | 10791.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21583.4 | 0.0 | 21583.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 385.0 | 1.8 |
| 10°-20° | 1219.8 | 5.7 |
| 20°-30° | 2274.6 | 10.5 |
| 30°-40° | 3808.3 | 17.6 |
| 40°-50° | 5926.1 | 27.5 |
| 50°-60° | 6153.1 | 28.5 |
| 60°-70° | 1304.9 | 6.0 |
| 70°-80° | 429.7 | 2.0 |
| 80°-90° | 81.9 | 0.4 |
| 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° | 21583.4 | 100.0 |
| 0°-180° | 21583.4 | 100.0 |

Coefficient of Utilization



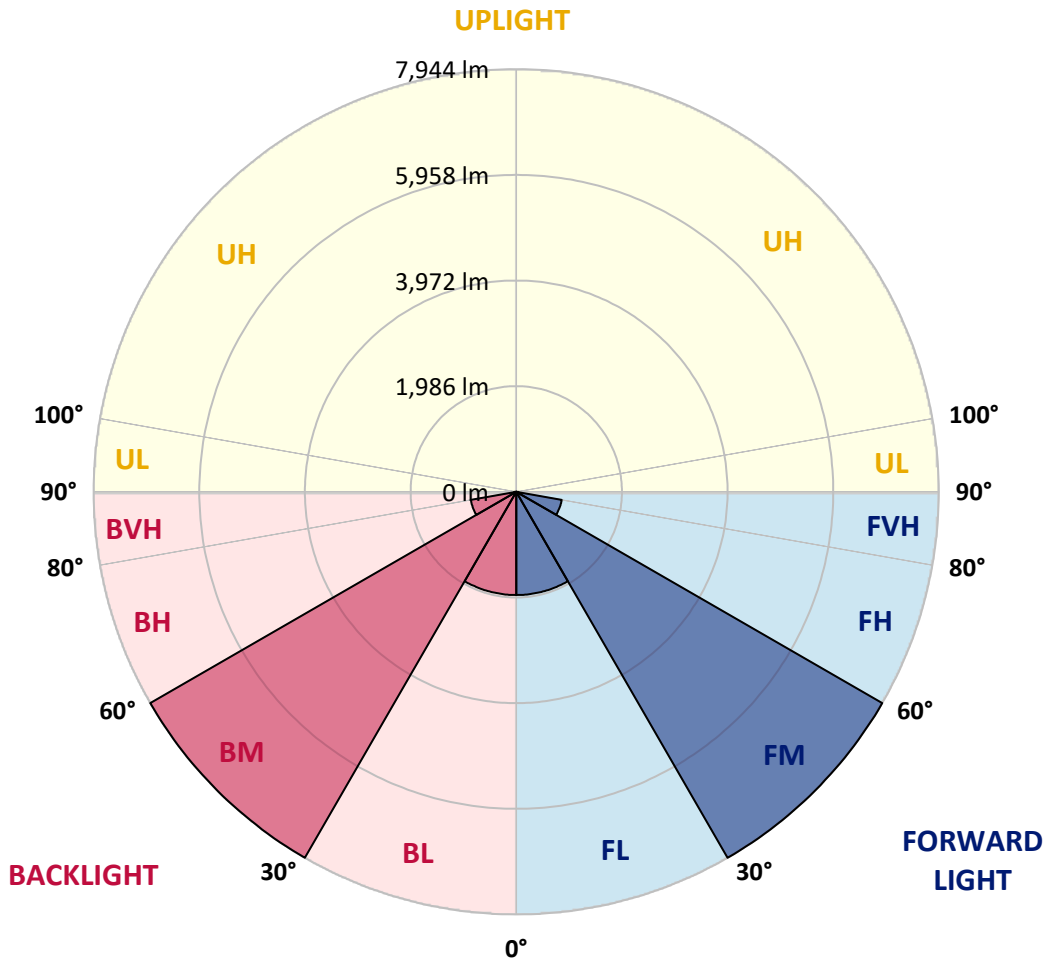
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1939.7 | 9.0 | | | |
| FM (30°-60°) | 7943.8 | 36.8 | | | |
| FH (60°-80°) | 867.3 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 40.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1939.7 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 7943.8 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 867.3 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 40.9 | 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° | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 | 3940.8 |
| 2.5° | 3987.7 | 3969.5 | 3938.2 | 3961.7 | 3979.9 | 3940.8 | 3956.4 | 3964.3 | 3959.1 | 3938.2 | 3946.0 |
| 5° | 4045.1 | 4034.7 | 4008.6 | 4026.9 | 4003.4 | 4003.4 | 3987.7 | 3966.9 | 3998.2 | 3993.0 | 4006.0 |
| 7.5° | 4045.1 | 4032.1 | 4084.3 | 4050.4 | 4060.8 | 4060.8 | 4034.7 | 4013.8 | 4029.5 | 4006.0 | 3993.0 |
| 10° | 4126.0 | 4144.3 | 4120.8 | 4128.6 | 4123.4 | 4141.6 | 4102.5 | 4089.5 | 4076.5 | 4068.6 | 4053.0 |
| 12.5° | 4222.5 | 4209.4 | 4217.2 | 4212.1 | 4230.3 | 4183.3 | 4159.9 | 4131.2 | 4154.7 | 4120.8 | 4144.3 |
| 15° | 4300.7 | 4292.9 | 4300.7 | 4321.6 | 4303.4 | 4300.7 | 4259.0 | 4230.3 | 4193.8 | 4201.6 | 4165.1 |
| 17.5° | 4407.7 | 4399.8 | 4402.4 | 4420.7 | 4418.1 | 4405.1 | 4373.8 | 4318.9 | 4306.0 | 4285.0 | 4261.6 |
| 20° | 4566.8 | 4553.7 | 4548.5 | 4556.3 | 4569.4 | 4579.8 | 4517.2 | 4496.3 | 4452.0 | 4418.1 | 4378.9 |
| 22.5° | 4702.4 | 4697.1 | 4718.0 | 4684.1 | 4712.8 | 4744.1 | 4684.1 | 4673.6 | 4564.1 | 4545.9 | 4504.1 |
| 25° | 4890.1 | 4882.3 | 4869.3 | 4918.8 | 4952.7 | 4950.1 | 4892.7 | 4835.3 | 4751.9 | 4731.0 | 4731.0 |
| 27.5° | 5088.3 | 5044.0 | 5111.8 | 5124.9 | 5184.9 | 5203.1 | 5153.5 | 5070.1 | 4991.9 | 4947.5 | 4958.0 |
| 30° | 5336.1 | 5294.4 | 5310.1 | 5404.0 | 5482.2 | 5550.0 | 5424.8 | 5302.2 | 5192.7 | 5114.5 | 5101.4 |
| 32.5° | 5583.9 | 5542.2 | 5589.1 | 5680.4 | 5836.9 | 5938.6 | 5816.0 | 5602.1 | 5474.3 | 5359.6 | 5383.0 |
| 35° | 5784.7 | 5816.0 | 5891.7 | 6029.9 | 6191.6 | 6355.9 | 6160.3 | 5996.0 | 5813.4 | 5685.6 | 5703.8 |
| 37.5° | 6108.1 | 6204.6 | 6264.6 | 6423.7 | 6653.2 | 6822.7 | 6619.3 | 6405.4 | 6209.8 | 6042.9 | 5985.6 |
| 40° | 6530.6 | 6595.8 | 6663.6 | 6851.4 | 7122.6 | 7292.2 | 7099.2 | 6820.1 | 6627.2 | 6455.0 | 6447.1 |
| 42.5° | 6994.9 | 7057.5 | 7127.9 | 7357.4 | 7519.1 | 7646.9 | 7469.5 | 7320.9 | 7107.0 | 6971.4 | 6963.5 |
| 45° | 7534.7 | 7490.4 | 7568.6 | 7719.9 | 7855.5 | 7939.0 | 7824.2 | 7751.2 | 7597.3 | 7472.2 | 7459.1 |
| 47.5° | 7894.7 | 7855.5 | 7996.4 | 8132.0 | 8152.8 | 8061.5 | 8085.0 | 8152.8 | 7991.1 | 7785.1 | 7850.3 |
| 50° | 8103.3 | 8103.3 | 8197.2 | 8322.4 | 8283.3 | 8165.9 | 8351.1 | 8356.3 | 8194.6 | 8012.0 | 8012.0 |
| 52.5° | 7740.7 | 7821.6 | 8087.7 | 8497.1 | 8627.5 | 8661.4 | 8619.7 | 8442.4 | 8019.9 | 7646.9 | 7628.6 |
| 55° | 6744.5 | 6726.2 | 7086.2 | 8025.0 | 8784.0 | 9185.7 | 8653.6 | 7837.3 | 6979.2 | 6559.3 | 6517.6 |
| 57.5° | 4386.8 | 4407.7 | 4944.9 | 5902.1 | 7271.3 | 8019.9 | 7122.6 | 5975.1 | 4944.9 | 4365.9 | 4420.7 |
| 60° | 1974.3 | 2044.7 | 2370.8 | 3085.3 | 4261.6 | 4871.9 | 4272.0 | 3241.9 | 2488.1 | 2159.5 | 2188.2 |
| 62.5° | 1134.5 | 1147.6 | 1160.6 | 1377.1 | 1815.2 | 2146.4 | 1885.6 | 1455.3 | 1283.2 | 1225.8 | 1225.8 |
| 65° | 957.1 | 949.3 | 952.0 | 970.2 | 1017.1 | 1084.9 | 1056.3 | 1017.1 | 1022.4 | 1017.1 | 1009.4 |
| 67.5° | 813.7 | 824.2 | 816.4 | 829.4 | 832.0 | 842.4 | 860.7 | 876.3 | 878.9 | 884.2 | 878.9 |
| 70° | 667.7 | 670.2 | 675.5 | 685.9 | 688.6 | 696.3 | 722.5 | 735.5 | 743.3 | 743.3 | 753.7 |
| 72.5° | 511.2 | 508.6 | 513.8 | 524.2 | 537.3 | 539.9 | 563.4 | 581.6 | 592.0 | 579.0 | 581.6 |
| 75° | 336.5 | 339.0 | 346.9 | 354.7 | 372.9 | 391.2 | 399.0 | 417.3 | 419.9 | 425.1 | 412.1 |
| 77.5° | 200.8 | 206.0 | 213.8 | 229.5 | 245.2 | 260.8 | 279.1 | 292.1 | 297.3 | 292.1 | 276.5 |
| 80° | 130.4 | 130.4 | 140.9 | 153.9 | 172.1 | 185.2 | 195.6 | 206.0 | 213.8 | 206.0 | 200.8 |
| 82.5° | 80.9 | 80.9 | 93.9 | 109.5 | 122.6 | 130.4 | 146.0 | 159.1 | 166.9 | 161.7 | 153.9 |
| 85° | 41.7 | 44.3 | 54.7 | 67.8 | 78.2 | 83.5 | 80.9 | 73.1 | 65.2 | 62.6 | 57.4 |
| 87.5° | 13.1 | 13.1 | 15.7 | 15.7 | 13.1 | 13.1 | 15.7 | 13.1 | 15.7 | 15.7 | 15.7 |
| 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)