

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: P647156

Luminaire Tested: **GALN-SA9C-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32250.2 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

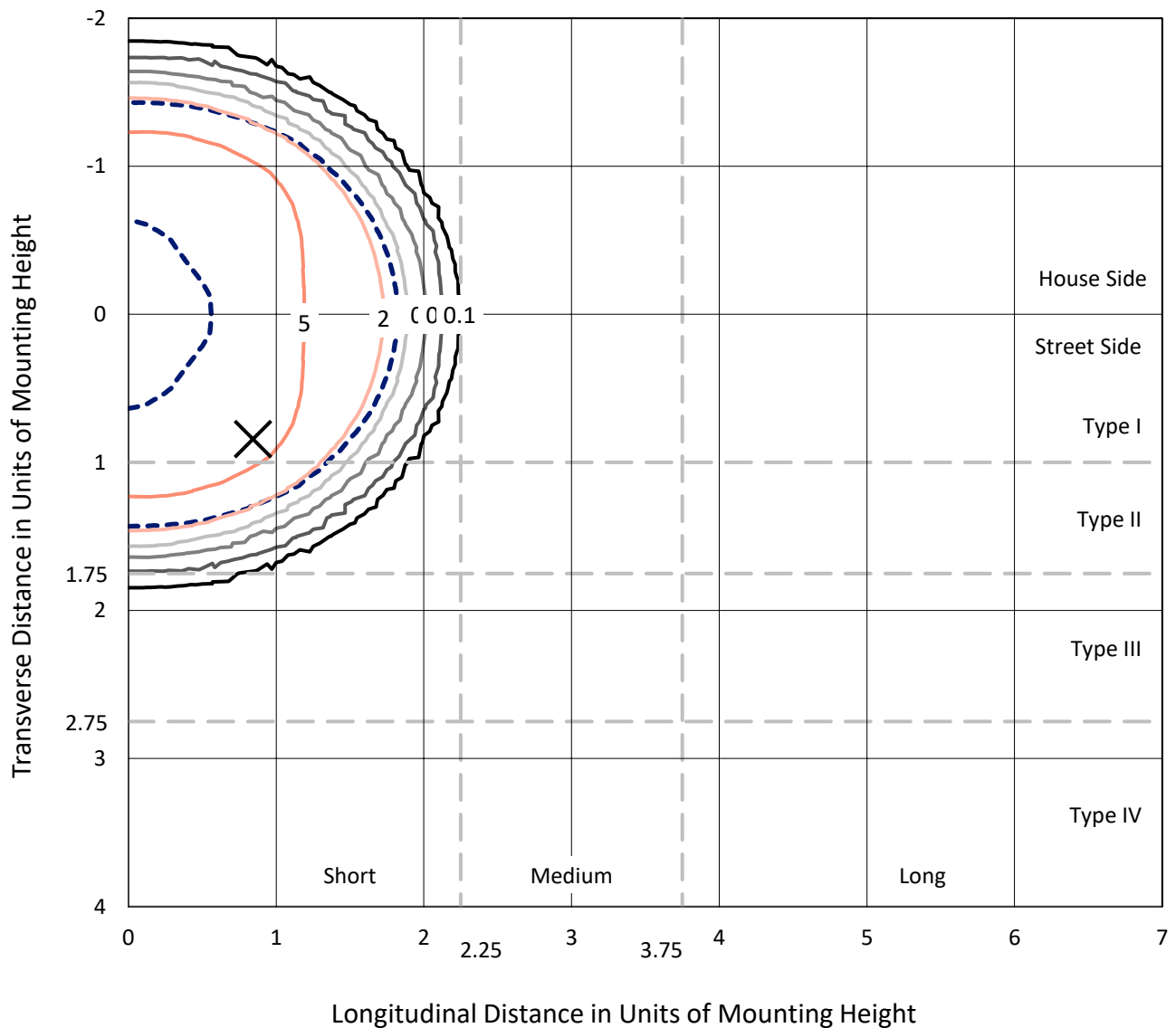
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

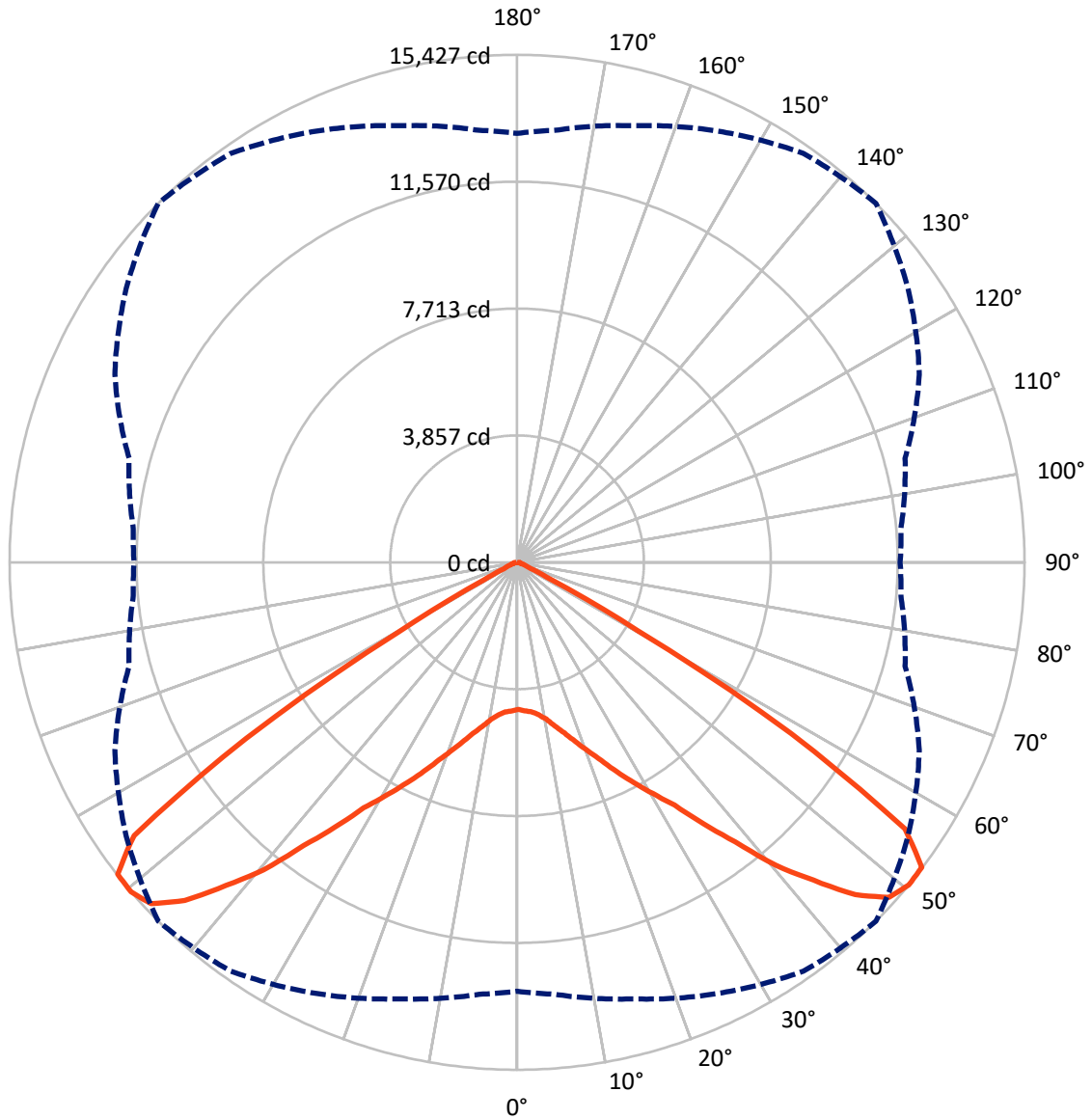
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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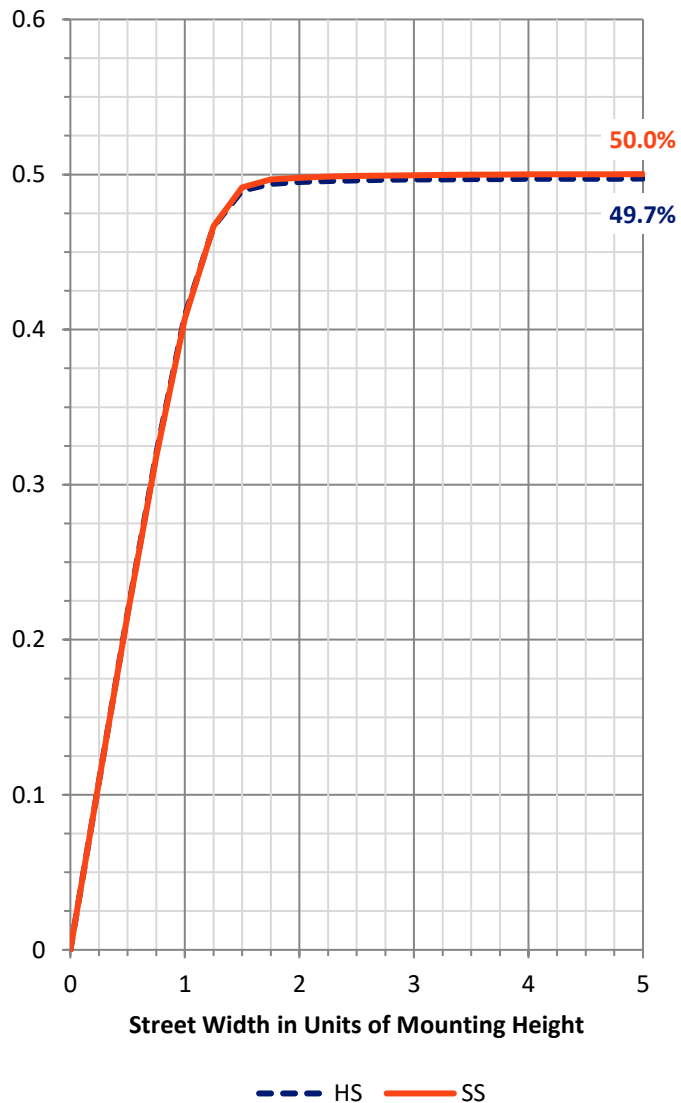
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16125.1 | 0.0 | 16125.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16125.1 | 0.0 | 16125.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32250.2 | 0.0 | 32250.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 444.8 | 1.4 |
| 10°-20° | 1533.1 | 4.8 |
| 20°-30° | 3131.1 | 9.7 |
| 30°-40° | 5971.1 | 18.5 |
| 40°-50° | 10062.1 | 31.2 |
| 50°-60° | 9596.0 | 29.8 |
| 60°-70° | 1339.6 | 4.2 |
| 70°-80° | 128.1 | 0.4 |
| 80°-90° | 44.3 | 0.1 |
| 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° | 32250.2 | 100.0 |
| 0°-180° | 32250.2 | 100.0 |

Coefficient of Utilization

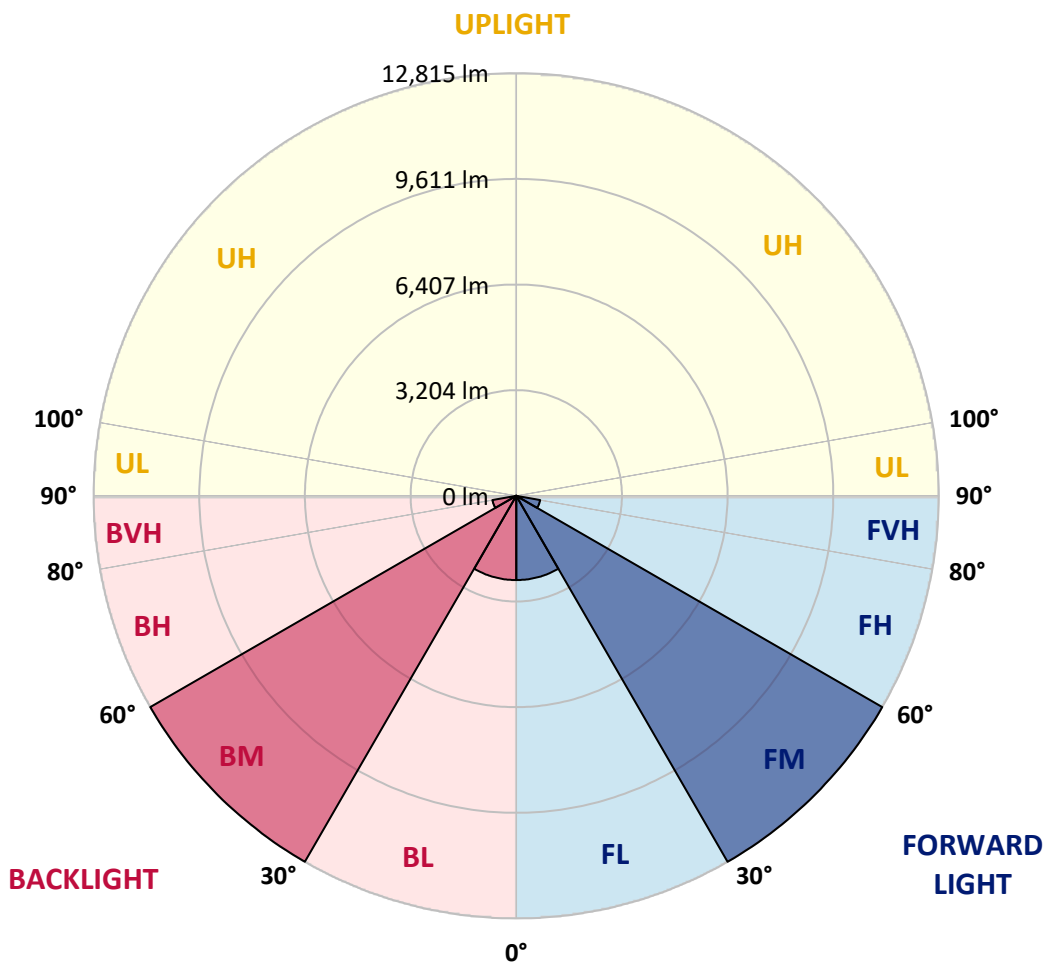


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2554.5 | 7.9 | | | |
| FM (30°-60°) | 12814.6 | 39.7 | | | |
| FH (60°-80°) | 733.8 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 22.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2554.5 | 7.9 | B4/5000 | | |
| BM (30°-60°) | 12814.6 | 39.7 | B5 | | |
| BH (60°-80°) | 733.8 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 22.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 | 4471.2 |
| 2.5° | 4454.9 | 4454.9 | 4449.4 | 4492.9 | 4471.2 | 4519.9 | 4514.5 | 4530.8 | 4547.1 | 4541.7 | 4585.1 |
| 5° | 4416.9 | 4411.4 | 4411.4 | 4460.3 | 4509.1 | 4563.4 | 4612.2 | 4644.8 | 4699.0 | 4699.0 | 4753.3 |
| 7.5° | 4454.9 | 4427.7 | 4465.7 | 4487.5 | 4579.7 | 4671.9 | 4753.3 | 4818.4 | 4943.2 | 4986.6 | 4970.3 |
| 10° | 4465.7 | 4498.3 | 4525.4 | 4590.5 | 4704.5 | 4845.5 | 4916.1 | 5078.9 | 5219.9 | 5317.6 | 5339.4 |
| 12.5° | 4536.2 | 4585.1 | 4661.0 | 4818.4 | 4921.5 | 5106.0 | 5203.7 | 5361.0 | 5556.3 | 5664.8 | 5740.9 |
| 15° | 4671.9 | 4688.2 | 4785.9 | 4986.6 | 5209.1 | 5377.3 | 5529.2 | 5643.2 | 5833.1 | 5957.9 | 5963.3 |
| 17.5° | 4845.5 | 4916.1 | 5051.8 | 5241.6 | 5475.0 | 5724.6 | 5843.9 | 5968.7 | 6039.3 | 6207.5 | 6245.5 |
| 20° | 5192.8 | 5203.7 | 5333.9 | 5583.5 | 5876.5 | 6104.4 | 6191.3 | 6256.3 | 6229.2 | 6402.8 | 6435.4 |
| 22.5° | 5518.3 | 5529.2 | 5692.0 | 6028.5 | 6343.2 | 6538.5 | 6576.5 | 6538.5 | 6457.1 | 6581.9 | 6592.8 |
| 25° | 5849.4 | 5947.0 | 6066.4 | 6402.8 | 6793.5 | 7054.0 | 7059.4 | 6956.3 | 6788.1 | 6809.8 | 6864.1 |
| 27.5° | 6364.9 | 6435.4 | 6560.2 | 6869.5 | 7298.2 | 7591.2 | 7542.3 | 7417.5 | 7200.5 | 7216.8 | 7200.5 |
| 30° | 6967.1 | 7032.3 | 7135.4 | 7531.4 | 7846.2 | 8166.3 | 8236.8 | 8117.5 | 7791.9 | 7721.4 | 7802.8 |
| 32.5° | 7694.2 | 7786.5 | 7976.4 | 8340.0 | 8605.9 | 8801.2 | 8850.0 | 8806.6 | 8502.8 | 8475.7 | 8529.9 |
| 35° | 8578.7 | 8703.5 | 8877.2 | 9197.3 | 9414.3 | 9767.1 | 9767.1 | 9620.6 | 9343.8 | 9376.3 | 9370.9 |
| 37.5° | 9512.0 | 9696.5 | 9967.8 | 10293.4 | 10586.4 | 10776.3 | 10716.6 | 10591.8 | 10315.1 | 10244.5 | 10315.1 |
| 40° | 10684.0 | 10776.3 | 11118.1 | 11541.4 | 11899.5 | 12116.5 | 11861.5 | 11590.2 | 10928.3 | 11031.3 | 11221.3 |
| 42.5° | 11753.0 | 11899.5 | 12160.0 | 12626.6 | 13033.6 | 13212.7 | 12908.8 | 12371.6 | 11573.9 | 11492.6 | 11633.7 |
| 45° | 12664.6 | 12821.9 | 13163.8 | 13831.2 | 14259.9 | 14417.2 | 13744.4 | 12876.2 | 11964.6 | 11758.5 | 11818.1 |
| 47.5° | 13272.3 | 13353.8 | 13831.2 | 14466.1 | 14856.8 | 15214.9 | 14249.0 | 13223.5 | 12149.1 | 11758.5 | 11736.7 |
| 50° | 13039.0 | 13180.1 | 13739.0 | 14460.7 | 15171.5 | 15426.5 | 14504.1 | 13489.4 | 12208.8 | 11709.6 | 11644.5 |
| 52.5° | 11579.4 | 11823.5 | 12447.6 | 13418.8 | 14493.2 | 15404.8 | 14856.8 | 13402.5 | 12187.1 | 11758.5 | 11856.1 |
| 55° | 8057.8 | 8063.3 | 8822.9 | 10255.4 | 12154.5 | 14303.3 | 14341.3 | 13500.3 | 12328.2 | 12062.3 | 12067.8 |
| 57.5° | 3239.4 | 3402.2 | 3982.8 | 5420.7 | 7173.4 | 9821.3 | 11677.0 | 12523.5 | 12344.5 | 12279.3 | 12447.6 |
| 60° | 819.3 | 824.7 | 1003.8 | 1530.1 | 2523.1 | 4210.7 | 6115.2 | 8274.8 | 9528.3 | 9956.9 | 10016.7 |
| 62.5° | 417.8 | 423.2 | 466.7 | 542.6 | 689.1 | 1128.6 | 2007.7 | 3185.2 | 4530.8 | 5214.5 | 5393.6 |
| 65° | 341.9 | 341.9 | 368.9 | 406.9 | 412.4 | 434.1 | 520.9 | 743.4 | 1079.8 | 1226.3 | 1242.6 |
| 67.5° | 260.4 | 260.4 | 282.2 | 303.9 | 314.7 | 309.3 | 298.4 | 309.3 | 374.4 | 358.1 | 347.3 |
| 70° | 162.8 | 168.2 | 179.1 | 200.8 | 211.6 | 217.0 | 222.5 | 233.3 | 265.9 | 276.7 | 265.9 |
| 72.5° | 97.6 | 97.6 | 103.1 | 119.4 | 135.6 | 146.5 | 162.8 | 173.7 | 189.9 | 217.0 | 211.6 |
| 75° | 43.4 | 43.4 | 54.3 | 70.5 | 86.8 | 103.1 | 119.4 | 135.6 | 146.5 | 162.8 | 168.2 |
| 77.5° | 10.9 | 16.3 | 27.1 | 48.9 | 65.1 | 86.8 | 108.5 | 124.8 | 135.6 | 135.6 | 130.2 |
| 80° | 5.4 | 5.4 | 21.7 | 38.0 | 70.5 | 92.2 | 119.4 | 130.2 | 146.5 | 135.6 | 119.4 |
| 82.5° | 5.4 | 5.4 | 21.7 | 38.0 | 65.1 | 92.2 | 124.8 | 141.1 | 151.9 | 135.6 | 113.9 |
| 85° | 0.0 | 5.4 | 16.3 | 32.6 | 54.3 | 65.1 | 54.3 | 38.0 | 21.7 | 21.7 | 16.3 |
| 87.5° | 0.0 | 0.0 | 5.4 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)