

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: P529195

Luminaire Tested: **GALN-SA4B-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-750-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13164 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

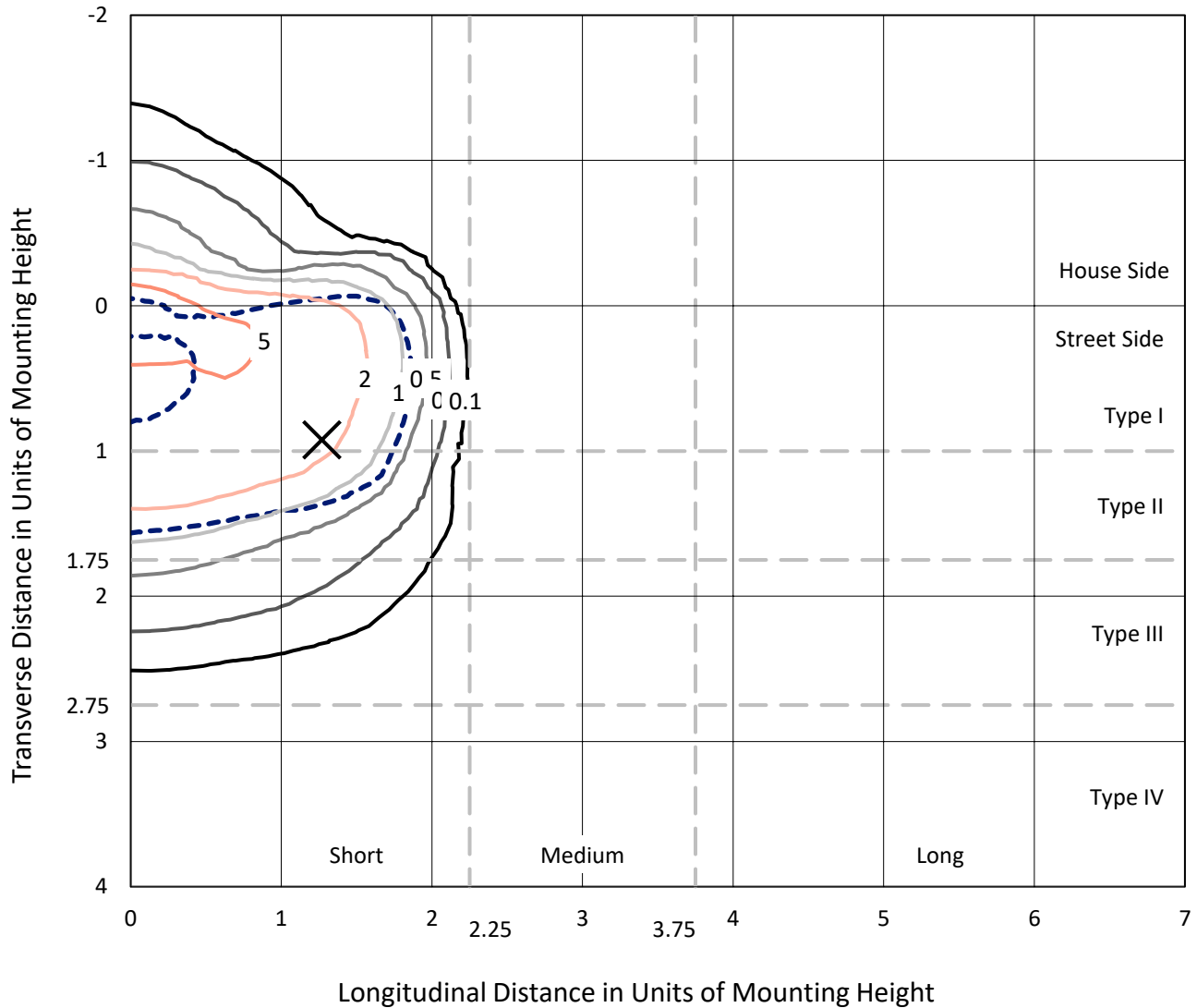
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

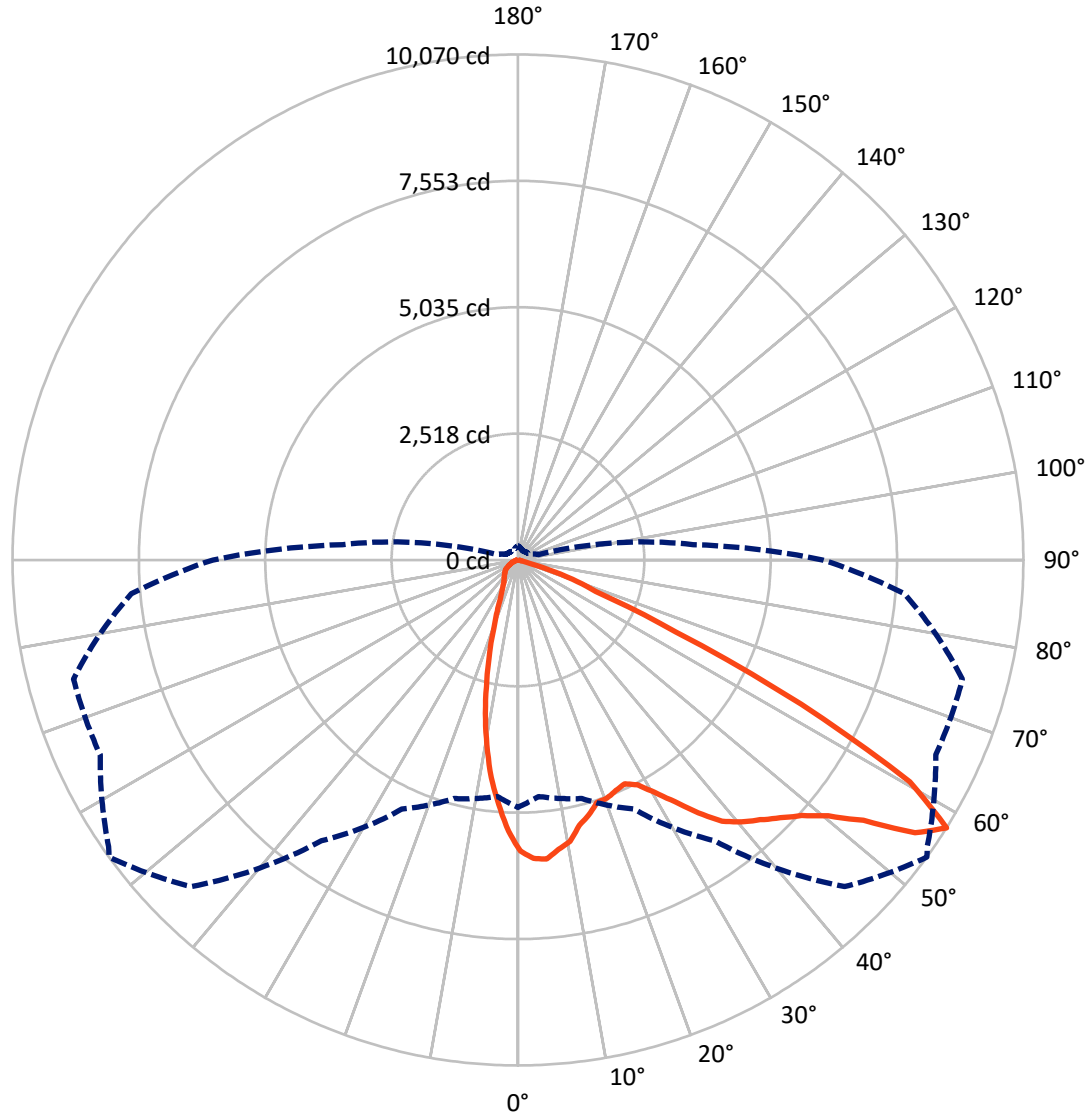
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1860.3 | 0.0 | 1860.3 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 11303.7 | 0.0 | 11303.7 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 13164.0 | 0.0 | 13164.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 485.3 | 3.7 |
| 10°-20° | 1036.0 | 7.9 |
| 20°-30° | 1372.9 | 10.4 |
| 30°-40° | 1995.3 | 15.2 |
| 40°-50° | 2958.7 | 22.5 |
| 50°-60° | 3699.8 | 28.1 |
| 60°-70° | 1459.4 | 11.1 |
| 70°-80° | 145.3 | 1.1 |
| 80°-90° | 11.3 | 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° | 13164.0 | 100.0 |
| 0°-180° | 13164.0 | 100.0 |

Coefficient of Utilization



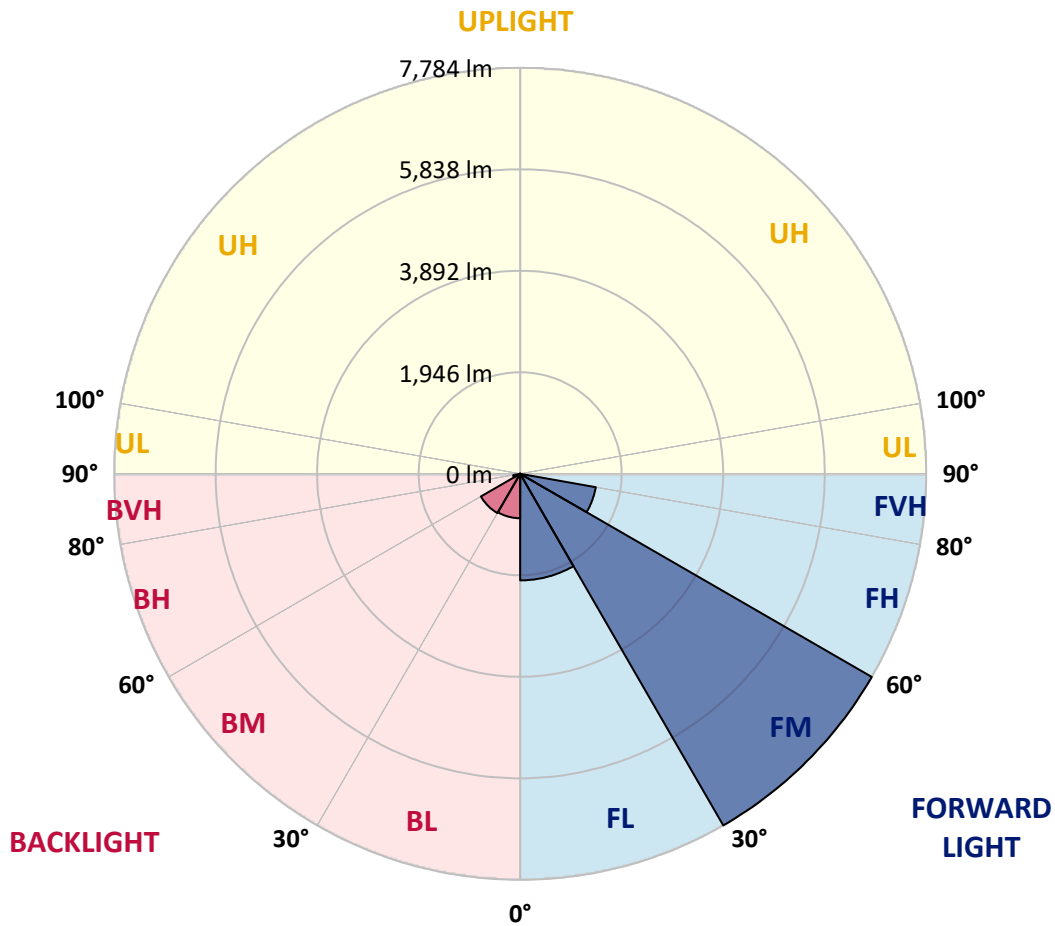
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2043.4 | 15.5 | | | |
| FM (30°-60°) | 7783.8 | 59.1 | | | |
| FH (60°-80°) | 1471.3 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 5.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 850.8 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 869.9 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 133.4 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0° | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 |
| 2.5° | 6136.7 | 6073.1 | 6078.0 | 6055.9 | 6026.6 | 6048.6 | 5953.1 | 5975.2 | 5972.7 | 5843.0 | 5757.3 |
| 5° | 5982.5 | 6051.0 | 5980.1 | 6038.8 | 5982.5 | 6043.7 | 5985.0 | 5940.9 | 5869.9 | 5774.4 | 5615.3 |
| 7.5° | 5720.6 | 5654.5 | 5674.1 | 5747.5 | 5759.8 | 5896.8 | 5823.4 | 5879.7 | 5850.3 | 5661.8 | 5444.0 |
| 10° | 5194.3 | 5179.6 | 5277.5 | 5375.4 | 5495.4 | 5642.3 | 5698.6 | 5666.7 | 5644.7 | 5573.7 | 5282.4 |
| 12.5° | 4790.4 | 4832.0 | 4829.6 | 4991.1 | 5194.3 | 5277.5 | 5424.4 | 5419.5 | 5541.9 | 5409.7 | 5130.7 |
| 15° | 4406.1 | 4428.1 | 4530.9 | 4631.3 | 4856.5 | 5093.9 | 5275.1 | 5299.6 | 5446.4 | 5353.4 | 5013.2 |
| 17.5° | 4171.1 | 4139.3 | 4220.1 | 4340.0 | 4570.1 | 4881.0 | 5081.7 | 5140.5 | 5341.2 | 5321.6 | 4878.5 |
| 20° | 3938.6 | 3938.6 | 4004.7 | 4146.6 | 4357.1 | 4707.2 | 5064.6 | 5047.4 | 5341.2 | 5284.9 | 4734.1 |
| 22.5° | 3860.2 | 3899.4 | 3916.5 | 4024.2 | 4273.9 | 4575.0 | 4991.1 | 5023.0 | 5382.8 | 5267.7 | 4670.5 |
| 25° | 3967.9 | 3916.5 | 3921.4 | 4007.1 | 4242.1 | 4511.4 | 4937.3 | 5008.3 | 5458.7 | 5353.4 | 4619.1 |
| 27.5° | 3985.1 | 4036.5 | 4051.2 | 4109.9 | 4266.6 | 4530.9 | 5071.9 | 5216.3 | 5647.2 | 5554.1 | 4633.8 |
| 30° | 4134.4 | 4185.8 | 4183.3 | 4283.7 | 4391.4 | 4690.1 | 5373.0 | 5402.4 | 6036.4 | 5806.3 | 4724.3 |
| 32.5° | 4315.5 | 4369.4 | 4386.5 | 4504.0 | 4589.7 | 4981.3 | 5740.2 | 5816.1 | 6410.9 | 6202.8 | 4961.8 |
| 35° | 4540.7 | 4521.1 | 4599.5 | 4717.0 | 4900.6 | 5407.3 | 6188.1 | 6315.4 | 6814.8 | 6716.9 | 5206.5 |
| 37.5° | 4822.2 | 4797.8 | 4873.6 | 5064.6 | 5314.2 | 5911.5 | 6601.8 | 6685.0 | 7108.5 | 7194.2 | 5659.4 |
| 40° | 5020.5 | 5030.3 | 5260.4 | 5517.4 | 5781.8 | 6391.3 | 6863.7 | 6944.5 | 7314.1 | 7639.7 | 6002.1 |
| 42.5° | 5351.0 | 5412.2 | 5688.8 | 6002.1 | 6278.7 | 6751.1 | 7076.7 | 7155.0 | 7409.6 | 7997.1 | 6464.7 |
| 45° | 5830.7 | 5803.8 | 6109.8 | 6459.8 | 6765.8 | 7125.6 | 7328.8 | 7301.9 | 7465.9 | 8352.0 | 6756.0 |
| 47.5° | 6447.6 | 6452.5 | 6655.7 | 6954.3 | 7272.5 | 7451.2 | 7610.3 | 7514.9 | 7583.4 | 8726.5 | 7145.2 |
| 50° | 6868.6 | 6905.3 | 7069.3 | 7375.3 | 7534.4 | 7808.6 | 8011.8 | 7953.0 | 7931.0 | 8951.7 | 7390.0 |
| 52.5° | 6976.3 | 7086.5 | 7174.6 | 7556.5 | 7928.5 | 8361.8 | 8621.3 | 8746.1 | 8354.5 | 9027.6 | 7700.9 |
| 55° | 6163.6 | 6261.6 | 6572.4 | 7096.3 | 8077.9 | 9238.1 | 9595.5 | 9598.0 | 8907.7 | 9365.4 | 7918.7 |
| 57.5° | 4927.5 | 4729.2 | 4920.1 | 5475.8 | 6829.5 | 9201.4 | 10070.4 | 9955.3 | 9184.3 | 9167.1 | 7730.3 |
| 60° | 3407.4 | 3358.4 | 3370.7 | 3591.0 | 4726.8 | 7319.0 | 8973.8 | 9123.1 | 8457.3 | 7945.7 | 6119.6 |
| 62.5° | 2700.0 | 2658.3 | 2604.5 | 2580.0 | 2935.0 | 4560.3 | 6330.1 | 6540.6 | 5914.0 | 5152.7 | 3627.7 |
| 65° | 2114.9 | 2090.5 | 2097.8 | 2195.7 | 2193.3 | 2587.4 | 3461.2 | 3375.6 | 2702.4 | 1997.4 | 1140.7 |
| 67.5° | 1427.1 | 1463.8 | 1493.2 | 1789.4 | 1941.1 | 1801.6 | 1671.9 | 1622.9 | 878.8 | 369.6 | 252.1 |
| 70° | 802.9 | 807.8 | 839.6 | 1118.7 | 1473.6 | 1397.7 | 1152.9 | 1152.9 | 438.2 | 134.6 | 144.4 |
| 72.5° | 438.2 | 423.5 | 394.1 | 482.2 | 656.0 | 665.8 | 514.0 | 448.0 | 129.7 | 88.1 | 80.8 |
| 75° | 213.0 | 210.5 | 181.1 | 149.3 | 142.0 | 117.5 | 90.6 | 83.2 | 58.7 | 56.3 | 49.0 |
| 77.5° | 44.1 | 41.6 | 22.0 | 22.0 | 24.5 | 26.9 | 34.3 | 34.3 | 41.6 | 41.6 | 34.3 |
| 80° | 0.0 | 0.0 | 2.4 | 9.8 | 17.1 | 24.5 | 29.4 | 29.4 | 34.3 | 34.3 | 26.9 |
| 82.5° | 0.0 | 0.0 | 2.4 | 7.3 | 14.7 | 22.0 | 26.9 | 29.4 | 34.3 | 36.7 | 29.4 |
| 85° | 0.0 | 0.0 | 0.0 | 4.9 | 12.2 | 17.1 | 14.7 | 14.7 | 12.2 | 9.8 | 4.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 | 5798.9 |
| 2.5° | 5713.2 | 5708.3 | 5595.7 | 5532.1 | 5417.1 | 5316.7 | 5235.9 | 5177.2 | 5177.2 | 5140.5 | 5106.2 |
| 5° | 5551.7 | 5510.1 | 5270.2 | 5116.0 | 4898.1 | 4736.6 | 4626.4 | 4540.7 | 4406.1 | 4442.8 | 4298.4 |
| 7.5° | 5351.0 | 5245.7 | 4927.5 | 4692.5 | 4391.4 | 4161.3 | 3926.3 | 3718.3 | 3517.5 | 3427.0 | 3475.9 |
| 10° | 5135.6 | 4952.0 | 4523.6 | 4151.5 | 3777.0 | 3356.0 | 3081.8 | 2748.9 | 2543.3 | 2531.1 | 2477.2 |
| 12.5° | 4907.9 | 4699.8 | 4178.5 | 3664.4 | 3172.4 | 2665.7 | 2247.1 | 1936.2 | 1796.7 | 1642.5 | 1671.9 |
| 15° | 4736.6 | 4428.1 | 3794.1 | 3174.8 | 2521.3 | 2009.7 | 1588.6 | 1348.8 | 1216.6 | 1179.9 | 1167.6 |
| 17.5° | 4550.5 | 4220.1 | 3402.5 | 2653.5 | 1977.9 | 1446.7 | 1143.1 | 1028.1 | 976.7 | 976.7 | 969.3 |
| 20° | 4357.1 | 3985.1 | 3013.3 | 2168.8 | 1483.4 | 1079.5 | 915.5 | 878.8 | 876.3 | 873.9 | 873.9 |
| 22.5° | 4229.9 | 3715.8 | 2660.8 | 1723.3 | 1118.7 | 864.1 | 795.5 | 780.9 | 790.7 | 820.0 | 820.0 |
| 25° | 4095.2 | 3456.3 | 2271.6 | 1329.2 | 866.5 | 741.7 | 702.5 | 712.3 | 736.8 | 763.7 | 753.9 |
| 27.5° | 3958.1 | 3287.4 | 1904.4 | 1042.8 | 709.9 | 648.7 | 634.0 | 656.0 | 682.9 | 707.4 | 700.1 |
| 30° | 3926.3 | 3106.3 | 1556.8 | 790.7 | 609.5 | 565.4 | 575.2 | 594.8 | 621.7 | 631.5 | 641.3 |
| 32.5° | 3975.3 | 2964.3 | 1275.3 | 648.7 | 531.2 | 518.9 | 518.9 | 528.7 | 545.9 | 567.9 | 560.6 |
| 35° | 4114.8 | 2883.5 | 1008.5 | 563.0 | 487.1 | 474.9 | 472.4 | 482.2 | 492.0 | 499.4 | 492.0 |
| 37.5° | 4327.8 | 2819.9 | 824.9 | 499.4 | 457.7 | 438.2 | 433.3 | 430.8 | 440.6 | 443.1 | 448.0 |
| 40° | 4599.5 | 2854.2 | 700.1 | 460.2 | 428.4 | 406.3 | 391.7 | 391.7 | 391.7 | 399.0 | 401.4 |
| 42.5° | 4893.2 | 2900.7 | 604.6 | 438.2 | 401.4 | 374.5 | 359.8 | 354.9 | 359.8 | 369.6 | 367.2 |
| 45° | 5201.6 | 2991.3 | 543.4 | 403.9 | 377.0 | 342.7 | 323.1 | 318.2 | 330.5 | 350.0 | 347.6 |
| 47.5° | 5490.5 | 3121.0 | 496.9 | 381.9 | 352.5 | 320.7 | 296.2 | 291.3 | 313.3 | 340.2 | 342.7 |
| 50° | 5779.3 | 3346.2 | 479.8 | 364.7 | 335.4 | 298.6 | 276.6 | 271.7 | 296.2 | 330.5 | 337.8 |
| 52.5° | 6112.2 | 3588.5 | 467.5 | 342.7 | 315.8 | 281.5 | 257.0 | 252.1 | 279.1 | 323.1 | 325.6 |
| 55° | 6330.1 | 3794.1 | 457.7 | 303.5 | 279.1 | 254.6 | 235.0 | 232.5 | 261.9 | 301.1 | 310.9 |
| 57.5° | 6075.5 | 3507.7 | 423.5 | 264.4 | 237.4 | 225.2 | 208.1 | 208.1 | 232.5 | 269.3 | 276.6 |
| 60° | 4606.8 | 2308.3 | 301.1 | 213.0 | 200.7 | 193.4 | 186.0 | 186.0 | 205.6 | 232.5 | 235.0 |
| 62.5° | 2697.5 | 1243.5 | 193.4 | 171.3 | 171.3 | 164.0 | 151.8 | 151.8 | 171.3 | 186.0 | 188.5 |
| 65° | 800.4 | 399.0 | 156.7 | 146.9 | 144.4 | 132.2 | 119.9 | 117.5 | 132.2 | 139.5 | 137.1 |
| 67.5° | 230.1 | 183.6 | 129.7 | 122.4 | 119.9 | 100.4 | 93.0 | 90.6 | 93.0 | 88.1 | 85.7 |
| 70° | 137.1 | 124.8 | 100.4 | 102.8 | 90.6 | 73.4 | 66.1 | 63.6 | 58.7 | 51.4 | 46.5 |
| 72.5° | 75.9 | 75.9 | 73.4 | 78.3 | 63.6 | 49.0 | 41.6 | 34.3 | 26.9 | 22.0 | 19.6 |
| 75° | 46.5 | 49.0 | 51.4 | 53.9 | 41.6 | 31.8 | 26.9 | 17.1 | 9.8 | 4.9 | 4.9 |
| 77.5° | 31.8 | 34.3 | 36.7 | 39.2 | 34.3 | 29.4 | 22.0 | 12.2 | 2.4 | 0.0 | 0.0 |
| 80° | 24.5 | 26.9 | 31.8 | 34.3 | 36.7 | 39.2 | 29.4 | 12.2 | 2.4 | 0.0 | 0.0 |
| 82.5° | 26.9 | 29.4 | 36.7 | 34.3 | 34.3 | 34.3 | 26.9 | 12.2 | 2.4 | 0.0 | 0.0 |
| 85° | 4.9 | 7.3 | 12.2 | 12.2 | 17.1 | 22.0 | 17.1 | 4.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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)