

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: P532173

Luminaire Tested: **GLAN-SA7C-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27376 lumens
Efficiency: N/A
Efficacy: 72.6 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

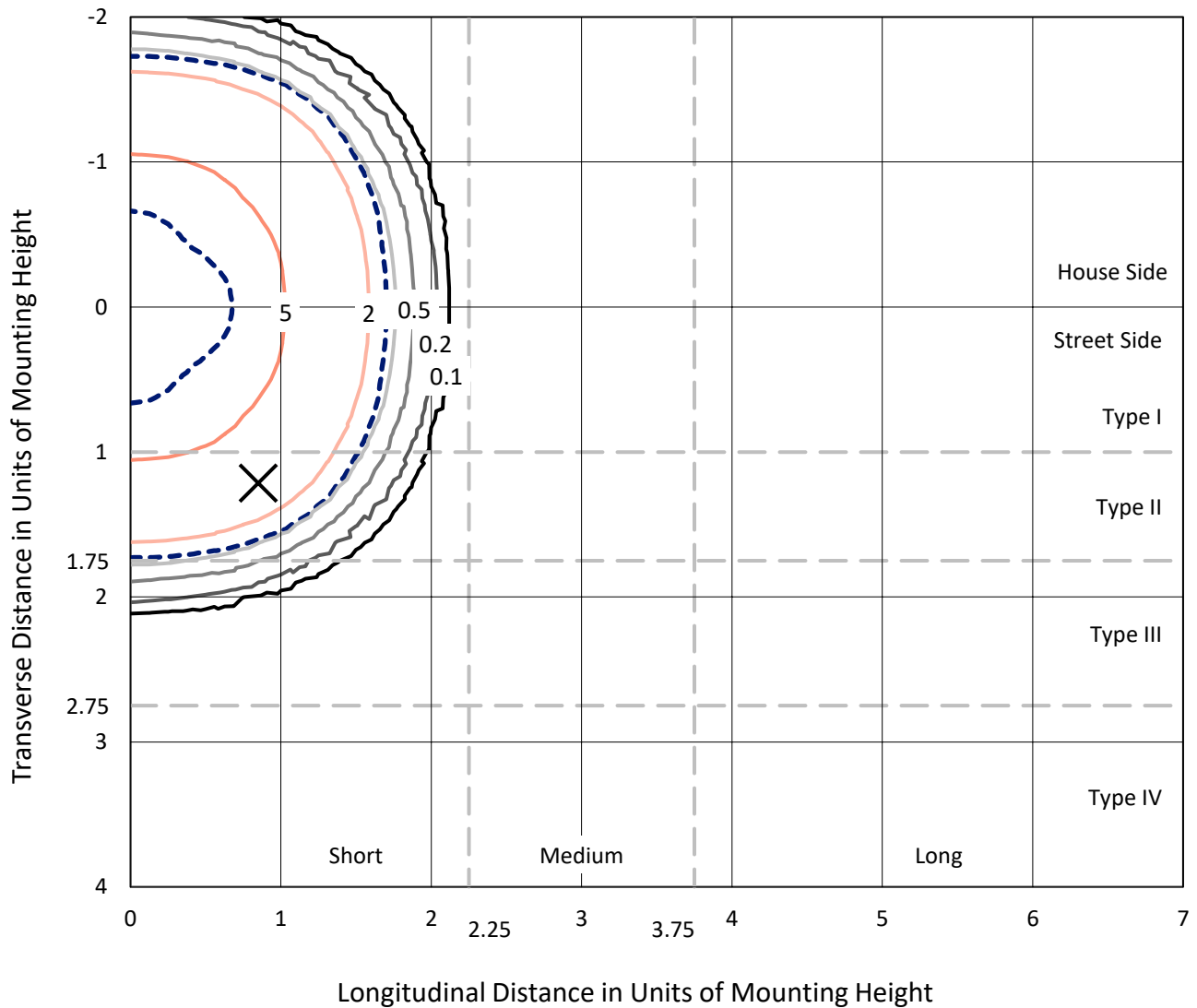
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

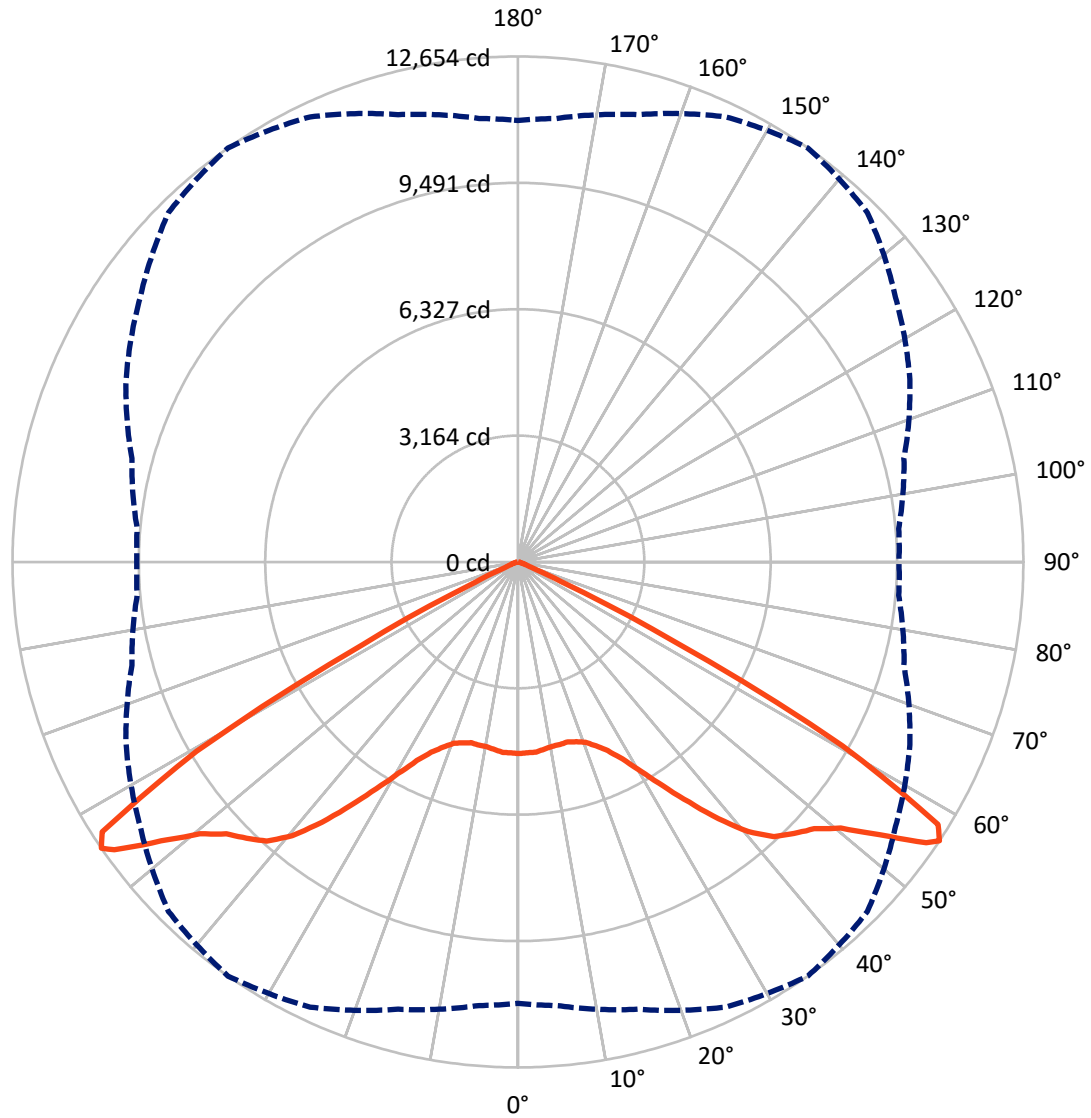
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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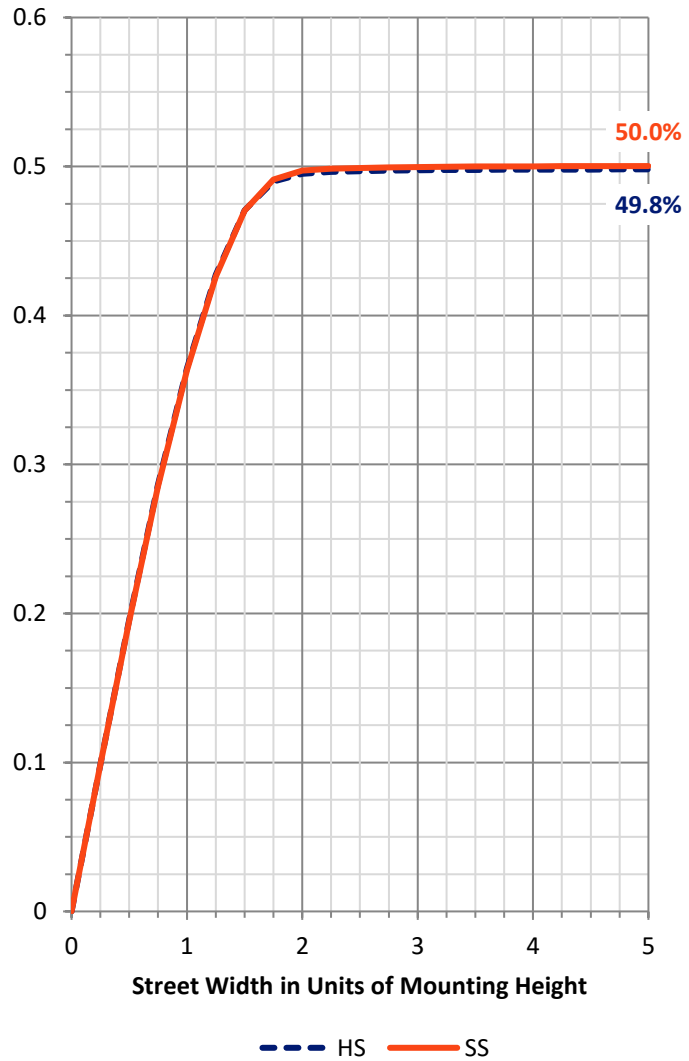
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13688.0 | 0.0 | 13688.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13688.0 | 0.0 | 13688.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27376.0 | 0.0 | 27376.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 450.8 | 1.6 |
| 10°-20° | 1316.2 | 4.8 |
| 20°-30° | 2383.5 | 8.7 |
| 30°-40° | 4419.8 | 16.1 |
| 40°-50° | 7254.8 | 26.5 |
| 50°-60° | 9346.4 | 34.1 |
| 60°-70° | 2059.8 | 7.5 |
| 70°-80° | 119.5 | 0.4 |
| 80°-90° | 25.2 | 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° | 27376.0 | 100.0 |
| 0°-180° | 27376.0 | 100.0 |

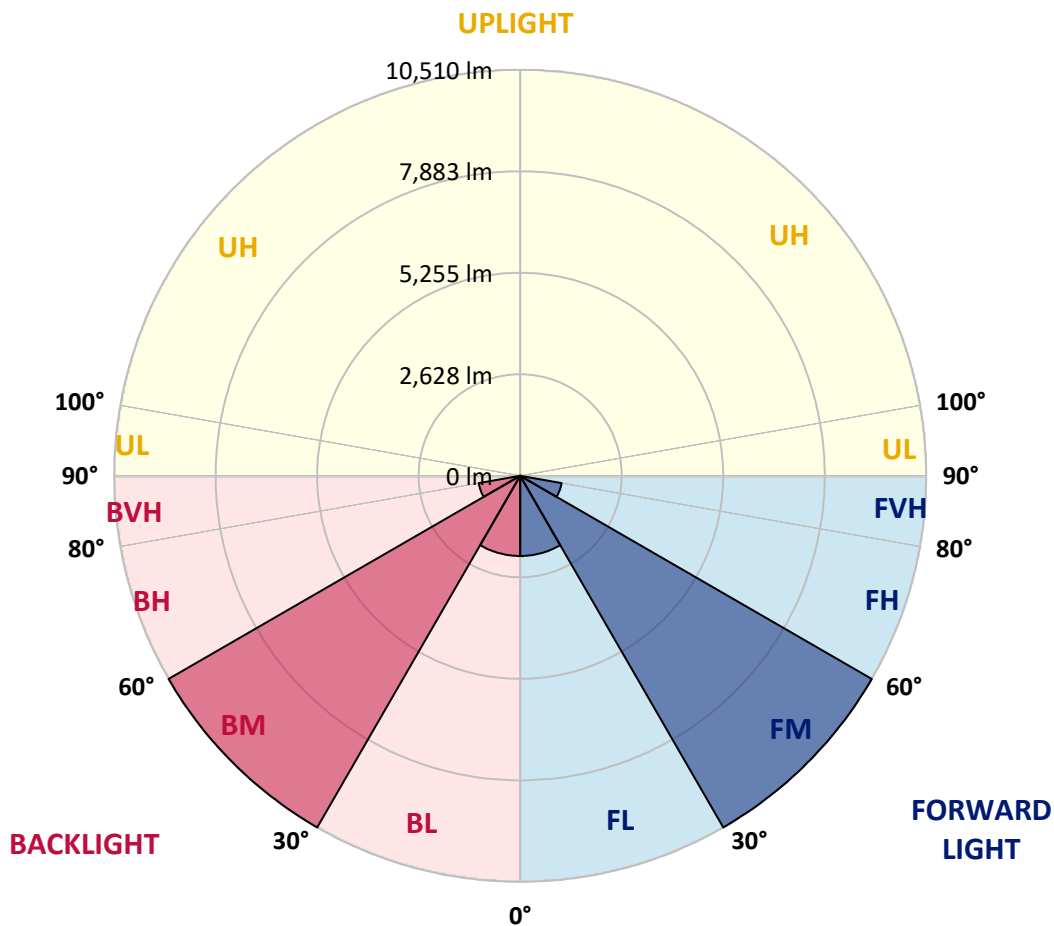


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2075.3 | 7.6 | | | |
| FM (30°-60°) | 10510.5 | 38.4 | | | |
| FH (60°-80°) | 1089.7 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 12.6 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2075.3 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 10510.5 | 38.4 | B5 | | |
| BH (60°-80°) | 1089.7 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 12.6 | 0.0 | | | 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° | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 | 4796.9 |
| 2.5° | 4806.8 | 4806.8 | 4811.7 | 4816.7 | 4782.0 | 4767.1 | 4772.1 | 4762.1 | 4757.2 | 4772.1 | 4772.1 |
| 5° | 4791.9 | 4791.9 | 4777.0 | 4782.0 | 4782.0 | 4737.3 | 4737.3 | 4747.3 | 4747.3 | 4717.5 | 4707.6 |
| 7.5° | 4752.2 | 4742.3 | 4722.5 | 4747.3 | 4732.4 | 4732.4 | 4697.7 | 4672.8 | 4662.9 | 4682.8 | 4662.9 |
| 10° | 4667.9 | 4672.8 | 4692.7 | 4702.6 | 4692.7 | 4722.5 | 4662.9 | 4628.2 | 4593.5 | 4578.6 | 4578.6 |
| 12.5° | 4628.2 | 4658.0 | 4628.2 | 4653.0 | 4687.7 | 4662.9 | 4628.2 | 4603.4 | 4553.8 | 4534.0 | 4534.0 |
| 15° | 4623.2 | 4643.1 | 4653.0 | 4687.7 | 4672.8 | 4682.8 | 4613.3 | 4583.6 | 4509.2 | 4474.4 | 4459.5 |
| 17.5° | 4618.3 | 4643.1 | 4658.0 | 4722.5 | 4732.4 | 4737.3 | 4682.8 | 4593.5 | 4529.0 | 4494.3 | 4459.5 |
| 20° | 4672.8 | 4682.8 | 4712.5 | 4777.0 | 4816.7 | 4886.2 | 4786.9 | 4692.7 | 4553.8 | 4514.1 | 4499.2 |
| 22.5° | 4742.3 | 4791.9 | 4821.7 | 4891.1 | 4995.3 | 5054.8 | 4925.8 | 4806.8 | 4662.9 | 4613.3 | 4553.8 |
| 25° | 4965.5 | 4955.6 | 5005.2 | 5149.1 | 5233.4 | 5278.0 | 5173.9 | 5000.2 | 4811.7 | 4752.2 | 4762.1 |
| 27.5° | 5243.3 | 5253.2 | 5297.9 | 5456.6 | 5580.6 | 5650.1 | 5526.1 | 5297.9 | 5114.3 | 5015.1 | 5005.2 |
| 30° | 5605.4 | 5595.5 | 5645.1 | 5858.4 | 6081.6 | 6185.8 | 5967.6 | 5699.7 | 5521.1 | 5392.1 | 5421.9 |
| 32.5° | 5987.4 | 5992.4 | 6131.3 | 6324.7 | 6686.8 | 6890.2 | 6538.0 | 6210.6 | 5942.8 | 5853.5 | 5808.8 |
| 35° | 6552.9 | 6577.7 | 6686.8 | 6984.5 | 7386.3 | 7649.2 | 7262.3 | 6870.4 | 6562.8 | 6399.1 | 6419.0 |
| 37.5° | 7252.3 | 7227.5 | 7411.1 | 7733.5 | 8155.2 | 8348.6 | 8021.2 | 7574.8 | 7262.3 | 7153.1 | 7222.6 |
| 40° | 7996.4 | 8021.2 | 8115.5 | 8408.2 | 8879.4 | 9008.4 | 8522.2 | 8279.2 | 8006.3 | 7951.8 | 8036.1 |
| 42.5° | 8740.5 | 8725.6 | 8795.1 | 9058.0 | 9400.3 | 9311.0 | 9023.3 | 8879.4 | 8685.9 | 8576.8 | 8690.9 |
| 45° | 9286.2 | 9261.4 | 9390.3 | 9568.9 | 9692.9 | 9524.3 | 9395.3 | 9345.7 | 9246.5 | 9127.4 | 9231.6 |
| 47.5° | 9817.0 | 9797.1 | 9921.1 | 9970.7 | 9980.7 | 9757.4 | 9782.2 | 9871.5 | 9623.5 | 9375.5 | 9494.5 |
| 50° | 10268.4 | 10233.6 | 10387.4 | 10496.6 | 10471.7 | 10114.6 | 10203.9 | 10114.6 | 9727.7 | 9435.0 | 9390.3 |
| 52.5° | 11022.4 | 11037.3 | 11201.0 | 11399.4 | 11339.8 | 11042.2 | 10913.2 | 10506.5 | 10010.4 | 9747.5 | 9593.7 |
| 55° | 11498.6 | 11424.2 | 11706.9 | 12336.9 | 12406.4 | 12098.8 | 11528.3 | 10928.1 | 10184.0 | 9861.6 | 9821.9 |
| 56° | 11052.1 | 11146.4 | 11592.8 | 12297.2 | 12654.4 | 12371.6 | 11543.2 | 10823.9 | 10005.5 | 9568.9 | 9539.2 |
| 57.5° | 9916.2 | 9866.6 | 10471.7 | 11434.1 | 12406.4 | 12287.3 | 11136.5 | 10079.9 | 9127.4 | 8636.3 | 8576.8 |
| 60° | 6170.9 | 6314.8 | 6845.6 | 8036.1 | 9335.8 | 9395.3 | 8254.4 | 7346.6 | 6235.4 | 5798.9 | 5903.1 |
| 62.5° | 2415.8 | 2291.8 | 2624.1 | 3512.1 | 4405.0 | 4603.4 | 4171.8 | 3467.4 | 2847.4 | 2415.8 | 2386.0 |
| 65° | 560.5 | 545.7 | 615.1 | 848.3 | 1185.6 | 1374.1 | 1304.6 | 937.5 | 689.5 | 654.8 | 605.2 |
| 67.5° | 317.5 | 317.5 | 302.6 | 302.6 | 332.4 | 352.2 | 337.3 | 332.4 | 347.2 | 362.1 | 357.2 |
| 70° | 223.2 | 218.3 | 208.3 | 213.3 | 203.4 | 203.4 | 218.3 | 243.1 | 262.9 | 262.9 | 267.9 |
| 72.5° | 133.9 | 133.9 | 133.9 | 148.8 | 148.8 | 148.8 | 163.7 | 183.5 | 188.5 | 183.5 | 178.6 |
| 75° | 59.5 | 59.5 | 69.4 | 84.3 | 94.3 | 99.2 | 114.1 | 124.0 | 133.9 | 124.0 | 114.1 |
| 77.5° | 14.9 | 14.9 | 24.8 | 34.7 | 44.6 | 54.6 | 74.4 | 89.3 | 94.3 | 89.3 | 74.4 |
| 80° | 5.0 | 5.0 | 9.9 | 24.8 | 44.6 | 54.6 | 74.4 | 79.4 | 84.3 | 74.4 | 59.5 |
| 82.5° | 5.0 | 5.0 | 9.9 | 24.8 | 34.7 | 44.6 | 59.5 | 69.4 | 74.4 | 64.5 | 59.5 |
| 85° | 0.0 | 5.0 | 9.9 | 19.8 | 29.8 | 39.7 | 39.7 | 29.8 | 24.8 | 14.9 | 19.8 |
| 87.5° | 0.0 | 0.0 | 5.0 | 5.0 | 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)