

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: P383691

Luminaire Tested: **GLEON-SA9D-735-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66654.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

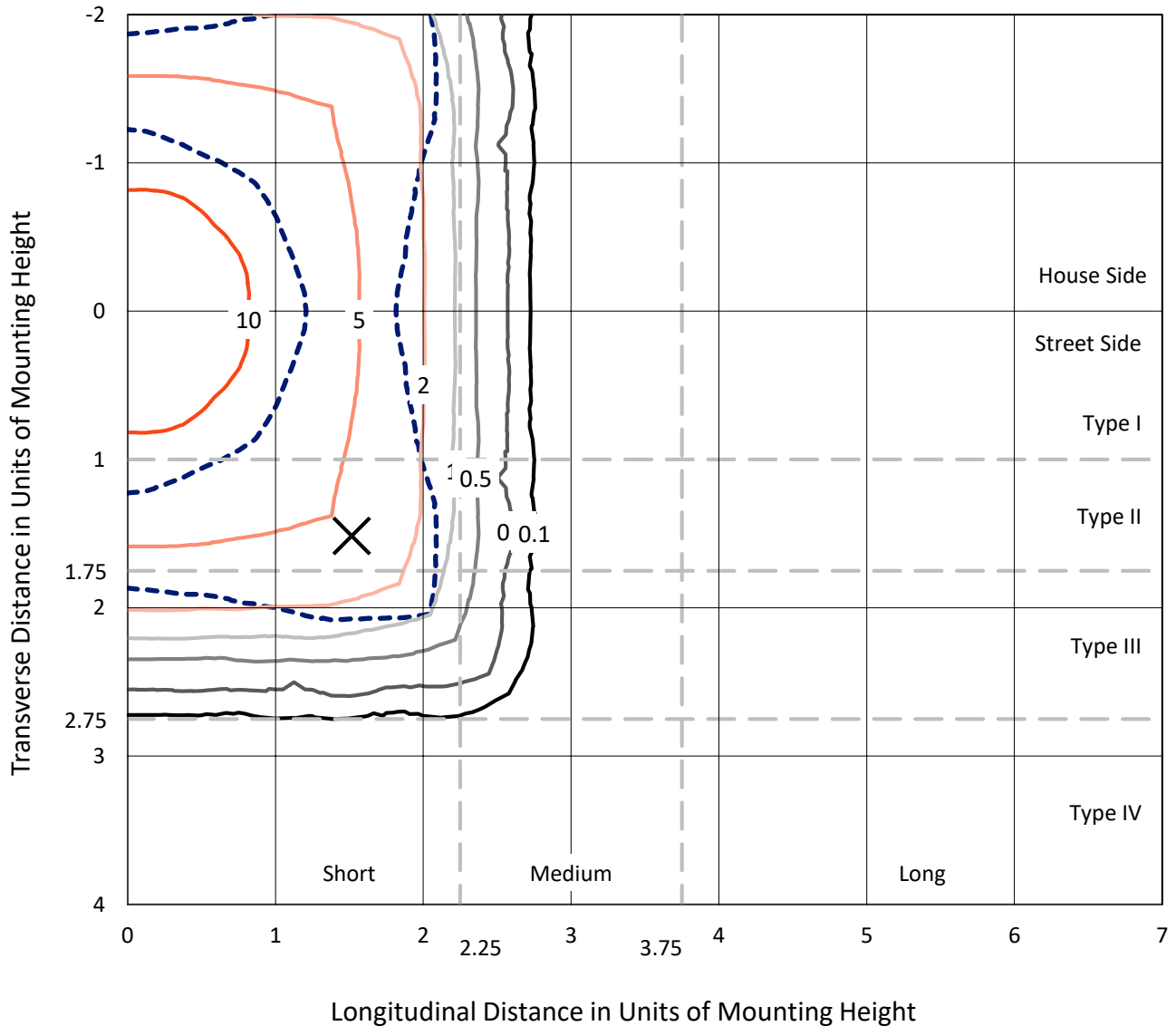
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

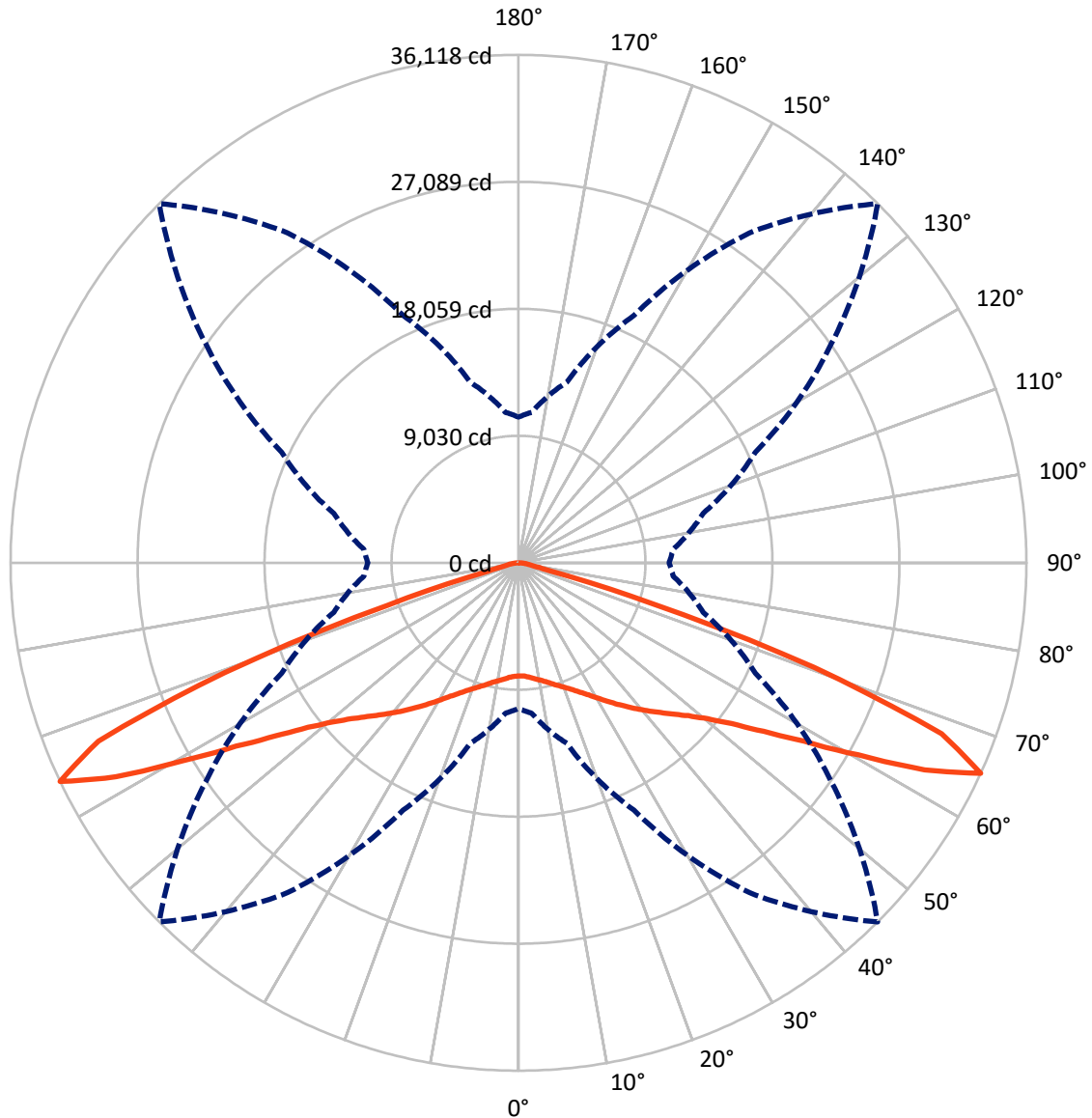
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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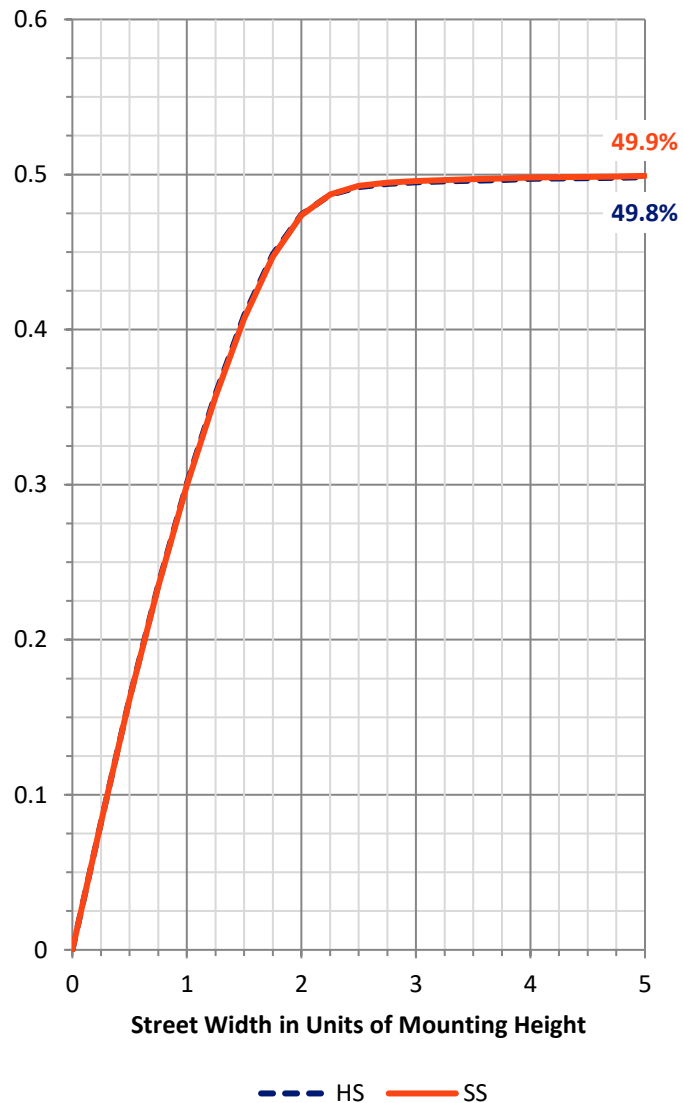
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 33327.0 | 0.0 | 33327.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 33327.0 | 0.0 | 33327.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 66654.1 | 0.0 | 66654.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 789.7 | 1.2 |
| 10°-20° | 2538.5 | 3.8 |
| 20°-30° | 4762.6 | 7.1 |
| 30°-40° | 7876.4 | 11.8 |
| 40°-50° | 12199.5 | 18.3 |
| 50°-60° | 18710.7 | 28.1 |
| 60°-70° | 17459.2 | 26.2 |
| 70°-80° | 2032.0 | 3.0 |
| 80°-90° | 285.5 | 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° | 66654.1 | 100.0 |
| 0°-180° | 66654.1 | 100.0 |

Coefficient of Utilization



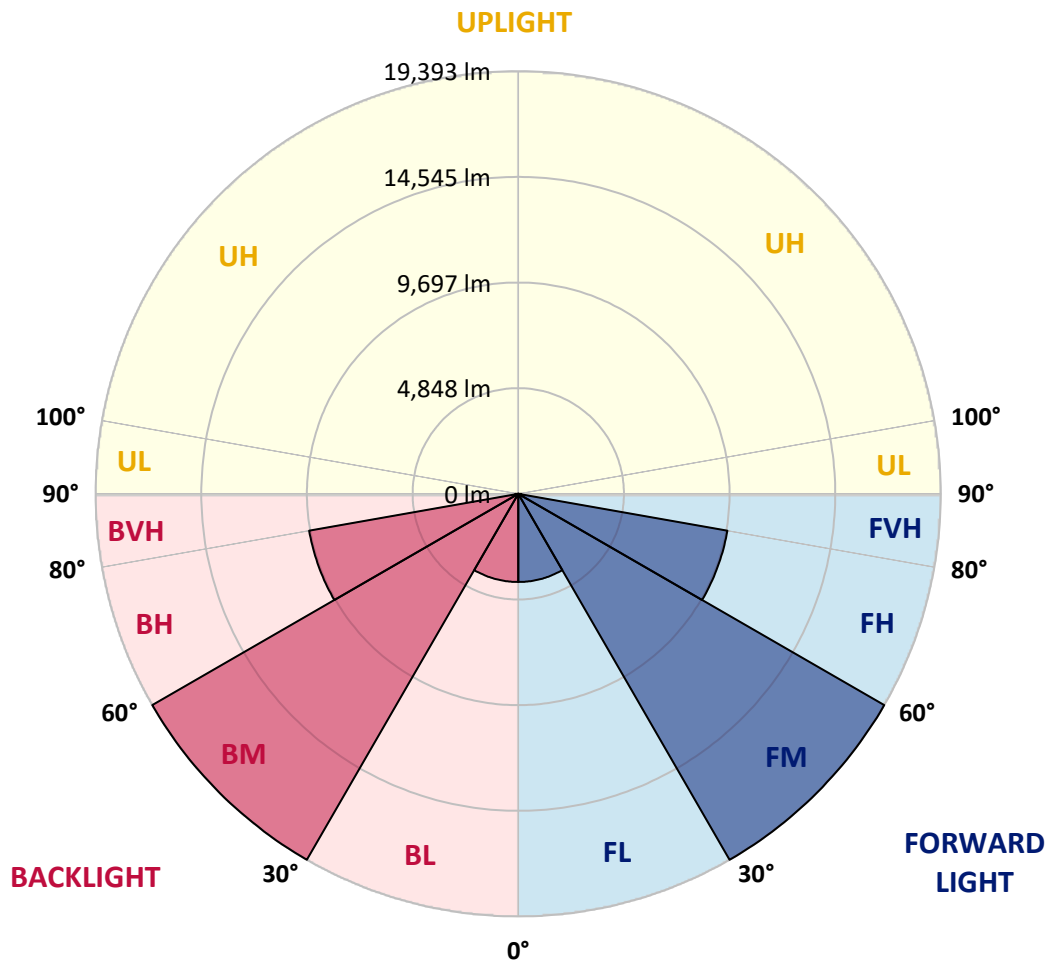
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4045.4 | 6.1 | | | |
| FM (30°-60°) | 19393.3 | 29.1 | | | |
| FH (60°-80°) | 9745.6 | 14.6 | | | G4/12000 |
| FVH (80°-90°) | 142.8 | 0.2 | | | G2/225 |
| BL (0°-30°) | 4045.4 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 19393.3 | 29.1 | B5 | | |
| BH (60°-80°) | 9745.6 | 14.6 | B5 | | G4/12000 |
| BVH (80°-90°) | 142.8 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 | 8049.3 |
| 2.5° | 8075.9 | 8071.5 | 8075.9 | 8078.1 | 8064.8 | 8071.5 | 8069.3 | 8080.3 | 8084.7 | 8080.3 | 8080.3 |
| 5° | 8168.8 | 8162.1 | 8171.0 | 8182.1 | 8164.4 | 8168.8 | 8162.1 | 8175.4 | 8179.8 | 8171.0 | 8177.7 |
| 7.5° | 8297.1 | 8299.3 | 8308.2 | 8328.1 | 8317.0 | 8325.9 | 8312.7 | 8314.8 | 8312.7 | 8299.3 | 8301.6 |
| 10° | 8436.6 | 8438.7 | 8454.3 | 8480.8 | 8485.2 | 8485.2 | 8476.3 | 8469.7 | 8460.9 | 8452.0 | 8454.3 |
| 12.5° | 8604.7 | 8615.7 | 8626.8 | 8660.0 | 8660.0 | 8677.7 | 8673.3 | 8655.6 | 8640.1 | 8626.8 | 8626.8 |
| 15° | 8832.6 | 8830.3 | 8843.6 | 8876.8 | 8892.3 | 8921.1 | 8921.1 | 8896.7 | 8876.8 | 8863.6 | 8859.1 |
| 17.5° | 9071.5 | 9078.2 | 9087.1 | 9126.8 | 9151.2 | 9184.4 | 9188.8 | 9168.9 | 9155.6 | 9137.9 | 9126.8 |
| 20° | 9350.3 | 9361.4 | 9396.8 | 9412.3 | 9434.4 | 9465.4 | 9476.4 | 9472.0 | 9458.7 | 9449.9 | 9452.1 |
| 22.5° | 9675.5 | 9704.3 | 9726.5 | 9748.6 | 9775.1 | 9797.3 | 9808.4 | 9823.8 | 9810.5 | 9803.9 | 9799.5 |
| 25° | 10069.4 | 10089.3 | 10133.6 | 10173.4 | 10191.1 | 10197.7 | 10211.0 | 10233.1 | 10230.9 | 10215.4 | 10215.4 |
| 27.5° | 10516.3 | 10554.0 | 10609.3 | 10666.8 | 10666.8 | 10644.7 | 10688.9 | 10726.5 | 10713.3 | 10693.3 | 10666.8 |
| 30° | 11058.4 | 11093.8 | 11158.0 | 11237.6 | 11197.9 | 11182.3 | 11242.1 | 11310.7 | 11290.7 | 11257.6 | 11253.1 |
| 32.5° | 11642.6 | 11675.7 | 11759.8 | 11846.1 | 11795.2 | 11773.1 | 11837.3 | 11936.9 | 11901.5 | 11835.0 | 11795.2 |
| 35° | 12275.4 | 12308.5 | 12428.0 | 12532.0 | 12445.7 | 12408.1 | 12461.2 | 12569.6 | 12507.6 | 12383.7 | 12352.8 |
| 37.5° | 12963.4 | 12981.1 | 13136.0 | 13242.2 | 13182.5 | 13082.9 | 13149.3 | 13228.9 | 13175.8 | 13025.4 | 12965.7 |
| 40° | 13678.1 | 13742.3 | 13921.5 | 14045.4 | 13941.4 | 13784.3 | 13895.0 | 14005.5 | 13925.9 | 13733.4 | 13631.6 |
| 42.5° | 14512.2 | 14560.9 | 14799.9 | 14910.5 | 14742.4 | 14521.1 | 14671.5 | 14822.0 | 14742.4 | 14556.5 | 14468.0 |
| 45° | 15379.6 | 15454.8 | 15740.2 | 15850.8 | 15607.4 | 15326.5 | 15510.1 | 15773.4 | 15766.7 | 15499.1 | 15406.1 |
| 47.5° | 16324.3 | 16399.5 | 16740.3 | 16886.3 | 16623.0 | 16246.9 | 16505.7 | 16877.5 | 16851.0 | 16556.7 | 16481.4 |
| 50° | 17415.1 | 17494.7 | 17919.6 | 18103.2 | 17857.7 | 17419.6 | 17809.0 | 18136.4 | 18087.8 | 17724.9 | 17731.5 |
| 52.5° | 18784.8 | 18780.3 | 19309.1 | 19627.7 | 19375.4 | 18988.3 | 19346.7 | 19665.3 | 19463.9 | 18961.7 | 18946.2 |
| 55° | 19983.9 | 20057.0 | 20711.8 | 21315.9 | 21300.4 | 21152.2 | 21296.0 | 21309.2 | 20734.0 | 20065.8 | 19983.9 |
| 57.5° | 20771.6 | 20911.0 | 21833.6 | 22926.6 | 23745.3 | 23942.2 | 23663.5 | 22818.3 | 21470.8 | 20402.1 | 20271.6 |
| 60° | 20287.1 | 20499.5 | 21948.7 | 24176.7 | 26588.4 | 27745.6 | 26172.5 | 23550.5 | 20897.7 | 19408.7 | 19231.6 |
| 62.5° | 17016.9 | 17375.3 | 19497.2 | 23572.7 | 29035.5 | 32418.6 | 27991.2 | 22375.7 | 18618.7 | 16567.8 | 16264.6 |
| 65° | 10363.7 | 10742.0 | 13299.8 | 19402.0 | 28639.5 | 36118.0 | 27161.5 | 18572.3 | 13589.6 | 11038.5 | 10711.0 |
| 67.5° | 3453.8 | 3564.5 | 5071.3 | 10724.3 | 22508.4 | 32451.8 | 22546.1 | 11118.1 | 5914.2 | 3920.7 | 3805.7 |
| 70° | 1351.9 | 1362.9 | 1608.5 | 3108.7 | 10629.1 | 22289.4 | 11728.8 | 3164.0 | 1681.5 | 1329.8 | 1358.5 |
| 72.5° | 993.4 | 997.9 | 1066.4 | 1298.8 | 2770.1 | 9819.4 | 2869.7 | 1305.4 | 1037.7 | 931.5 | 931.5 |
| 75° | 798.7 | 798.7 | 847.4 | 947.0 | 1241.3 | 2252.4 | 1259.0 | 935.9 | 812.0 | 743.5 | 734.6 |
| 77.5° | 630.6 | 643.9 | 681.4 | 745.6 | 840.8 | 1084.1 | 871.7 | 741.2 | 654.9 | 590.8 | 577.5 |
| 80° | 469.0 | 482.4 | 544.3 | 575.2 | 604.0 | 752.3 | 643.9 | 579.7 | 517.8 | 442.5 | 429.3 |
| 82.5° | 307.5 | 320.8 | 398.2 | 415.9 | 409.3 | 491.2 | 433.6 | 427.0 | 380.5 | 285.4 | 272.1 |
| 85° | 201.3 | 205.8 | 265.5 | 276.6 | 254.4 | 223.5 | 276.6 | 292.0 | 265.5 | 185.8 | 179.2 |
| 87.5° | 95.1 | 95.1 | 135.0 | 126.1 | 115.0 | 93.0 | 126.1 | 148.2 | 150.4 | 90.7 | 88.5 |
| 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)