

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: P399839

Luminaire Tested: **ARCH-L-PA3-200-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25020 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

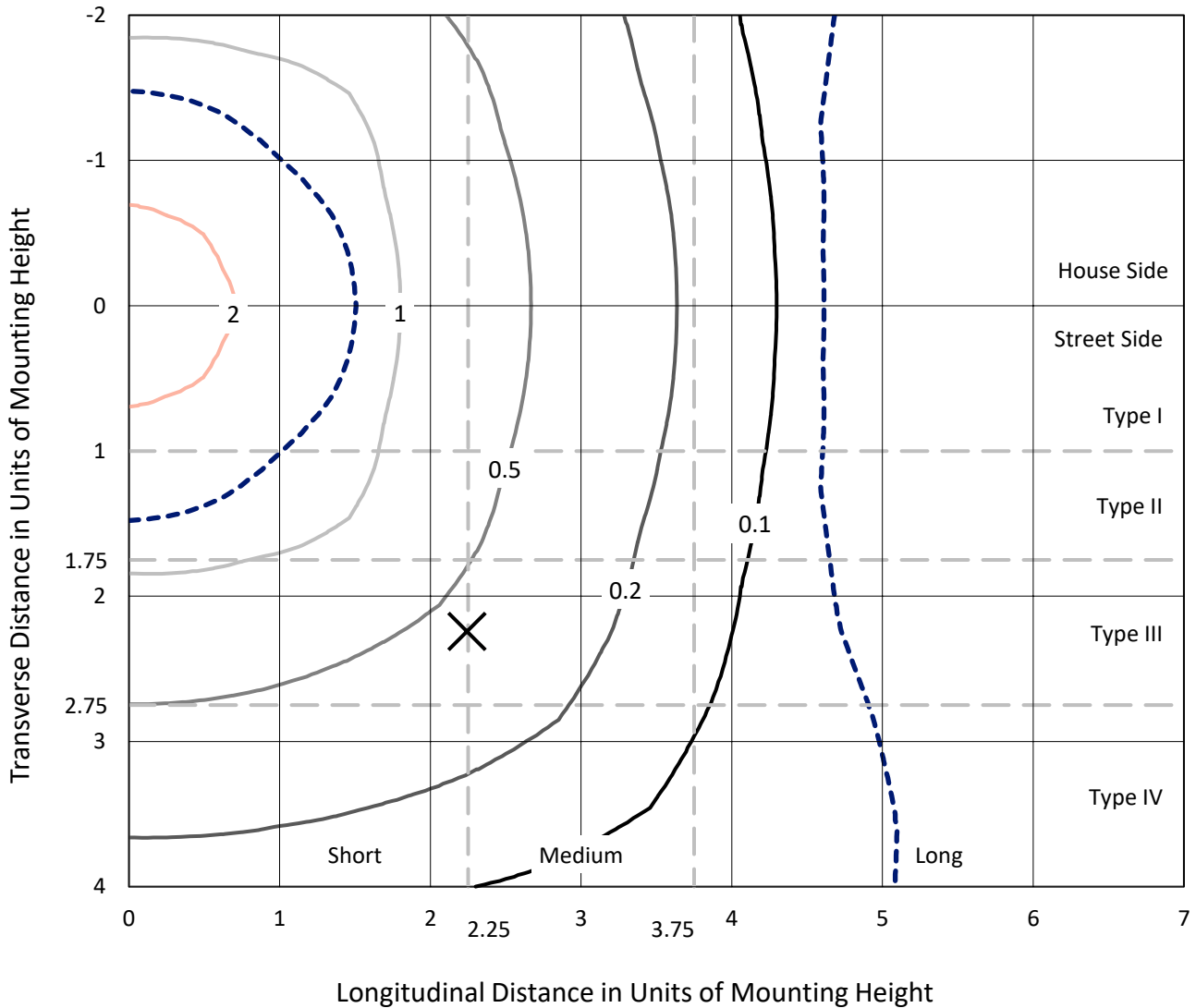
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

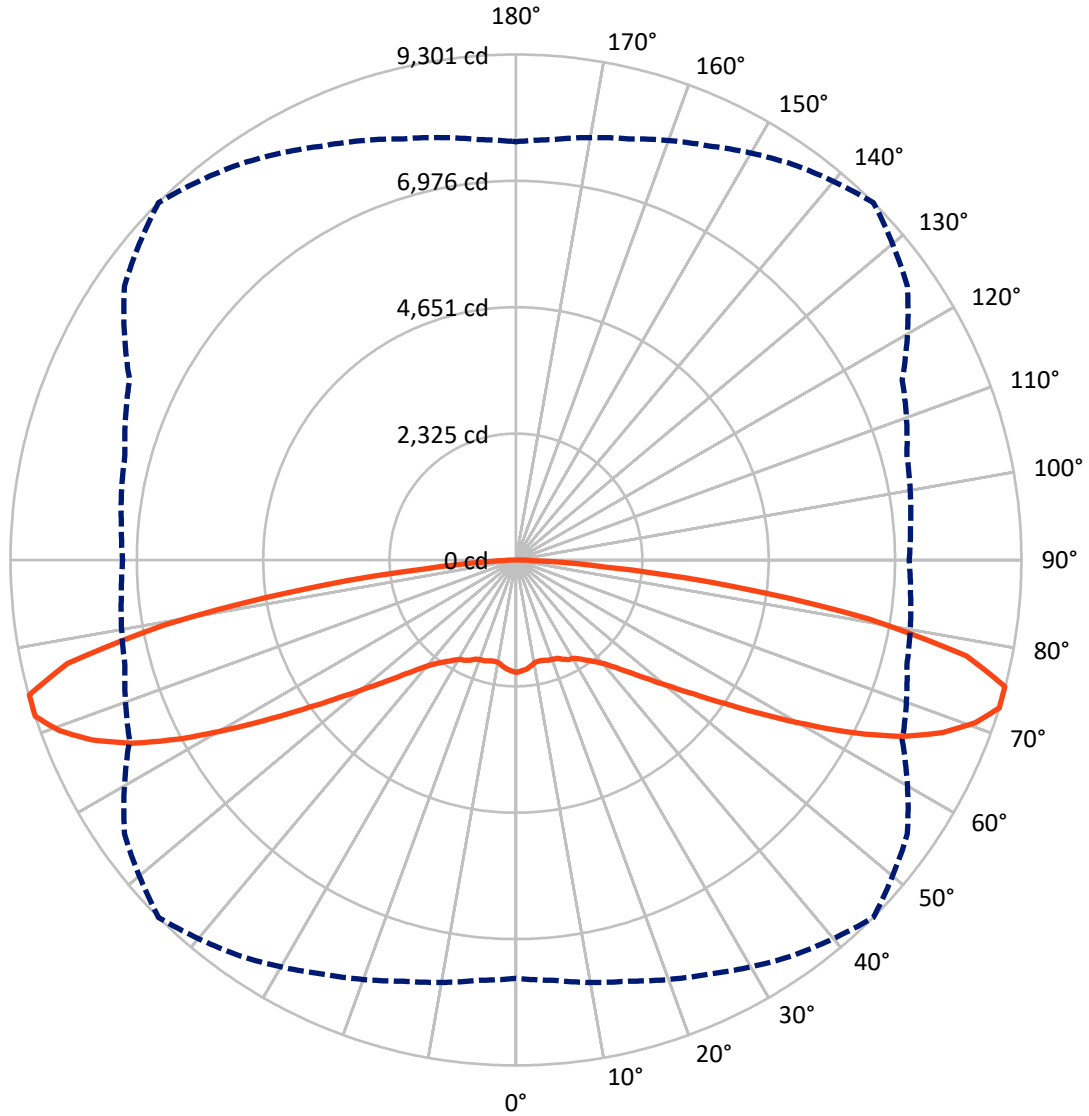
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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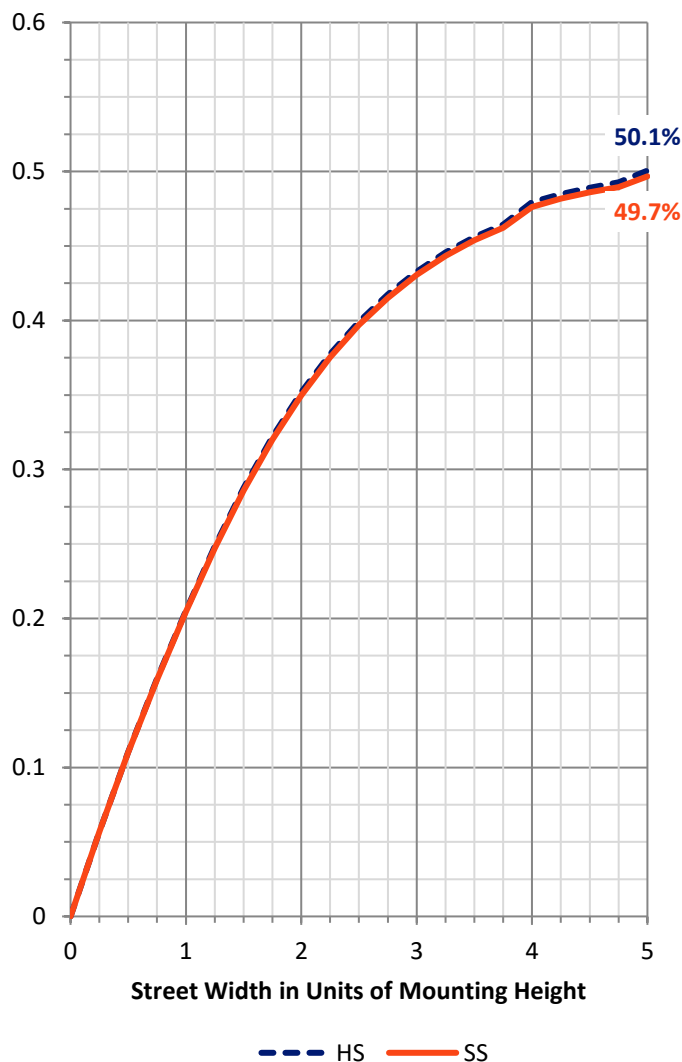
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12510.0 | 0.0 | 12510.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12510.0 | 0.0 | 12510.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25020.0 | 0.0 | 25020.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 189.9 | 0.8 |
| 10°-20° | 551.1 | 2.2 |
| 20°-30° | 936.4 | 3.7 |
| 30°-40° | 1428.2 | 5.7 |
| 40°-50° | 2351.8 | 9.4 |
| 50°-60° | 4106.9 | 16.4 |
| 60°-70° | 6885.3 | 27.5 |
| 70°-80° | 7368.7 | 29.5 |
| 80°-90° | 1201.8 | 4.8 |
| 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° | 25020.0 | 100.0 |
| 0°-180° | 25020.0 | 100.0 |

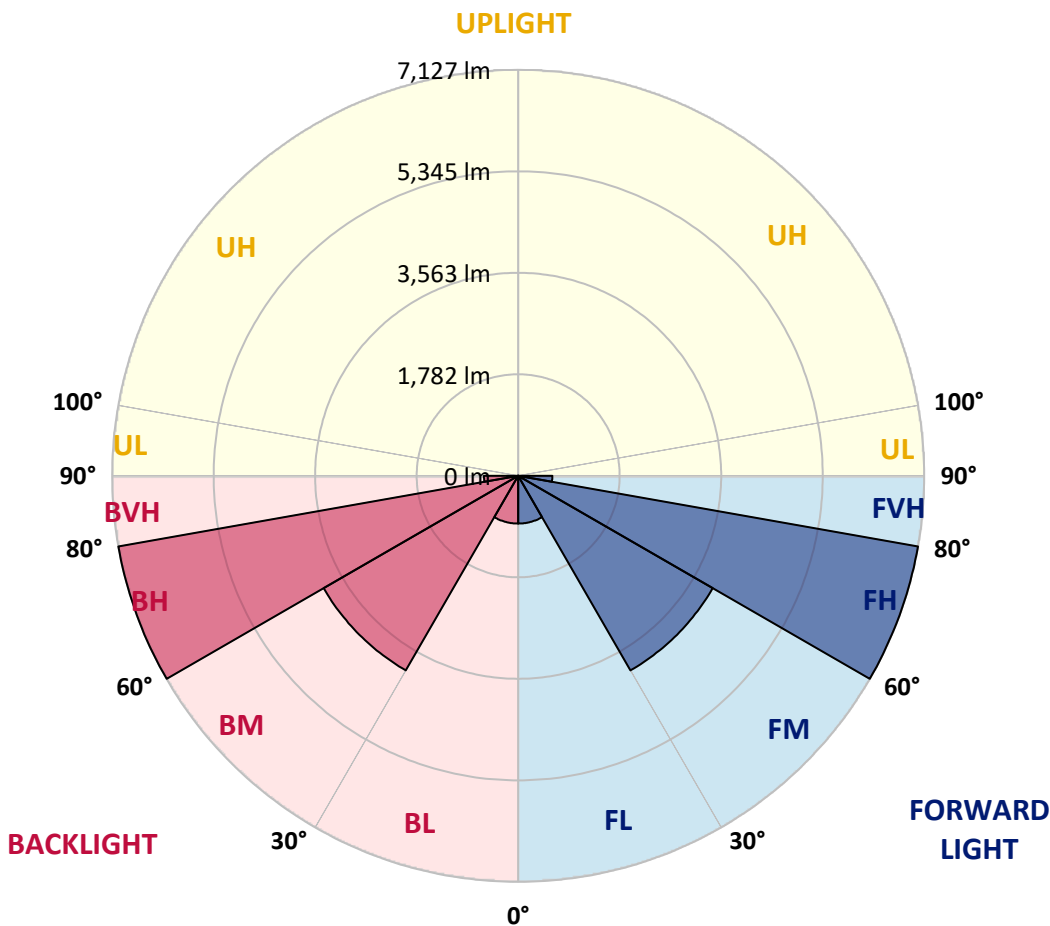


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 838.7 | 3.4 | | | |
| FM (30°-60°) | 3943.4 | 15.8 | | | |
| FH (60°-80°) | 7127.0 | 28.5 | | | G3/7500 |
| FVH (80°-90°) | 600.9 | 2.4 | | | G4/750 |
| BL (0°-30°) | 838.7 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 3943.4 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 7127.0 | 28.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 600.9 | 2.4 | | | G4/750 |
| 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° | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 | 2070.4 |
| 2.5° | 2057.7 | 2057.7 | 2057.7 | 2054.5 | 2048.1 | 2044.9 | 2038.5 | 2041.7 | 2041.7 | 2041.7 | 2041.7 |
| 5° | 2032.1 | 2032.1 | 2028.9 | 2025.7 | 2019.3 | 2016.1 | 2009.7 | 2016.1 | 2016.1 | 2016.1 | 2016.1 |
| 7.5° | 1984.2 | 1987.4 | 1987.4 | 1984.2 | 1974.6 | 1971.4 | 1961.8 | 1965.0 | 1965.0 | 1968.2 | 1965.0 |
| 10° | 1958.6 | 1958.6 | 1955.4 | 1939.4 | 1923.5 | 1917.1 | 1913.9 | 1923.5 | 1933.0 | 1942.6 | 1942.6 |
| 12.5° | 1958.6 | 1958.6 | 1952.2 | 1926.7 | 1904.3 | 1904.3 | 1904.3 | 1917.1 | 1936.2 | 1955.4 | 1958.6 |
| 15° | 1968.2 | 1968.2 | 1955.4 | 1926.7 | 1913.9 | 1917.1 | 1917.1 | 1929.8 | 1952.2 | 1977.8 | 1981.0 |
| 17.5° | 1974.6 | 1974.6 | 1958.6 | 1929.8 | 1929.8 | 1939.4 | 1933.0 | 1942.6 | 1965.0 | 1993.8 | 1996.9 |
| 20° | 1984.2 | 1984.2 | 1961.8 | 1939.4 | 1939.4 | 1949.0 | 1949.0 | 1958.6 | 1977.8 | 2006.5 | 2009.7 |
| 22.5° | 2003.3 | 2000.1 | 1977.8 | 1958.6 | 1958.6 | 1965.0 | 1971.4 | 1984.2 | 2000.1 | 2025.7 | 2032.1 |
| 25° | 2025.7 | 2025.7 | 2006.5 | 2003.3 | 2009.7 | 2025.7 | 2022.5 | 2019.3 | 2025.7 | 2048.1 | 2057.7 |
| 27.5° | 2038.5 | 2038.5 | 2025.7 | 2035.3 | 2060.8 | 2073.6 | 2057.7 | 2044.9 | 2044.9 | 2067.2 | 2070.4 |
| 30° | 2080.0 | 2076.8 | 2064.0 | 2070.4 | 2092.8 | 2099.2 | 2089.6 | 2073.6 | 2083.2 | 2108.8 | 2112.0 |
| 32.5° | 2150.3 | 2150.3 | 2131.1 | 2131.1 | 2147.1 | 2172.7 | 2140.7 | 2131.1 | 2143.9 | 2172.7 | 2175.9 |
| 35° | 2258.9 | 2258.9 | 2233.4 | 2220.6 | 2233.4 | 2268.5 | 2220.6 | 2217.4 | 2239.8 | 2271.7 | 2274.9 |
| 37.5° | 2396.3 | 2396.3 | 2380.4 | 2348.4 | 2351.6 | 2374.0 | 2332.4 | 2329.2 | 2370.8 | 2405.9 | 2405.9 |
| 40° | 2568.9 | 2578.5 | 2562.5 | 2524.1 | 2511.4 | 2514.6 | 2482.6 | 2485.8 | 2533.7 | 2575.3 | 2575.3 |
| 42.5° | 2782.9 | 2789.3 | 2763.8 | 2735.0 | 2719.0 | 2709.5 | 2677.5 | 2683.9 | 2741.4 | 2795.7 | 2795.7 |
| 45° | 3041.7 | 3044.9 | 3019.4 | 2984.2 | 2965.1 | 2958.7 | 2926.7 | 2942.7 | 3006.6 | 3064.1 | 3060.9 |
| 47.5° | 3332.5 | 3335.7 | 3310.1 | 3275.0 | 3262.2 | 3271.8 | 3239.8 | 3239.8 | 3297.4 | 3345.3 | 3338.9 |
| 50° | 3661.6 | 3668.0 | 3639.2 | 3623.3 | 3613.7 | 3639.2 | 3600.9 | 3565.7 | 3604.1 | 3652.0 | 3645.6 |
| 52.5° | 4025.8 | 4041.8 | 4022.6 | 4029.0 | 4064.2 | 4096.1 | 4032.2 | 3955.5 | 3974.7 | 4006.7 | 3997.1 |
| 55° | 4466.8 | 4485.9 | 4492.3 | 4514.7 | 4607.4 | 4661.7 | 4556.2 | 4428.4 | 4418.8 | 4422.0 | 4406.1 |
| 57.5° | 4962.0 | 4974.8 | 5016.3 | 5067.4 | 5259.2 | 5345.4 | 5179.3 | 4958.8 | 4888.5 | 4847.0 | 4837.4 |
| 60° | 5460.4 | 5482.8 | 5585.1 | 5690.5 | 5984.4 | 6141.0 | 5885.4 | 5514.8 | 5364.6 | 5287.9 | 5271.9 |
| 62.5° | 5962.1 | 6006.8 | 6173.0 | 6351.9 | 6780.0 | 7013.3 | 6620.3 | 6083.5 | 5866.2 | 5770.4 | 5744.8 |
| 65° | 6543.6 | 6597.9 | 6799.2 | 7026.1 | 7502.1 | 7831.2 | 7355.1 | 6671.4 | 6438.2 | 6310.3 | 6278.4 |
| 67.5° | 7224.1 | 7281.7 | 7444.6 | 7697.0 | 8147.5 | 8470.2 | 8048.5 | 7272.1 | 6968.5 | 6805.6 | 6780.0 |
| 70° | 7783.3 | 7834.4 | 8010.1 | 8265.8 | 8601.2 | 8968.7 | 8566.1 | 7751.3 | 7476.6 | 7361.5 | 7345.6 |
| 72.5° | 7697.0 | 7764.1 | 8022.9 | 8406.3 | 8885.6 | 9301.0 | 8792.9 | 7844.0 | 7447.8 | 7288.1 | 7236.9 |
| 75° | 6722.5 | 6796.0 | 7102.7 | 7796.1 | 8671.5 | 9291.4 | 8463.9 | 7227.3 | 6760.9 | 6626.7 | 6601.1 |
| 77.5° | 4450.8 | 4521.1 | 5038.7 | 6131.4 | 7572.4 | 8467.0 | 7470.2 | 6054.7 | 5303.9 | 4981.2 | 4962.0 |
| 80° | 1798.8 | 1888.3 | 2383.6 | 3543.4 | 5367.8 | 6581.9 | 5540.3 | 3875.7 | 2613.6 | 2108.8 | 2006.5 |
| 82.5° | 418.6 | 498.4 | 725.3 | 1306.8 | 2747.8 | 4099.3 | 2987.4 | 1447.4 | 840.3 | 597.5 | 536.8 |
| 85° | 175.7 | 178.9 | 309.9 | 424.9 | 859.5 | 1655.1 | 977.7 | 527.2 | 428.1 | 313.1 | 306.7 |
| 87.5° | 67.1 | 70.3 | 150.2 | 178.9 | 274.8 | 313.1 | 332.3 | 271.6 | 252.4 | 156.6 | 150.2 |
| 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)