

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: P646828

Luminaire Tested: **GALN-SA3C-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16954.3 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

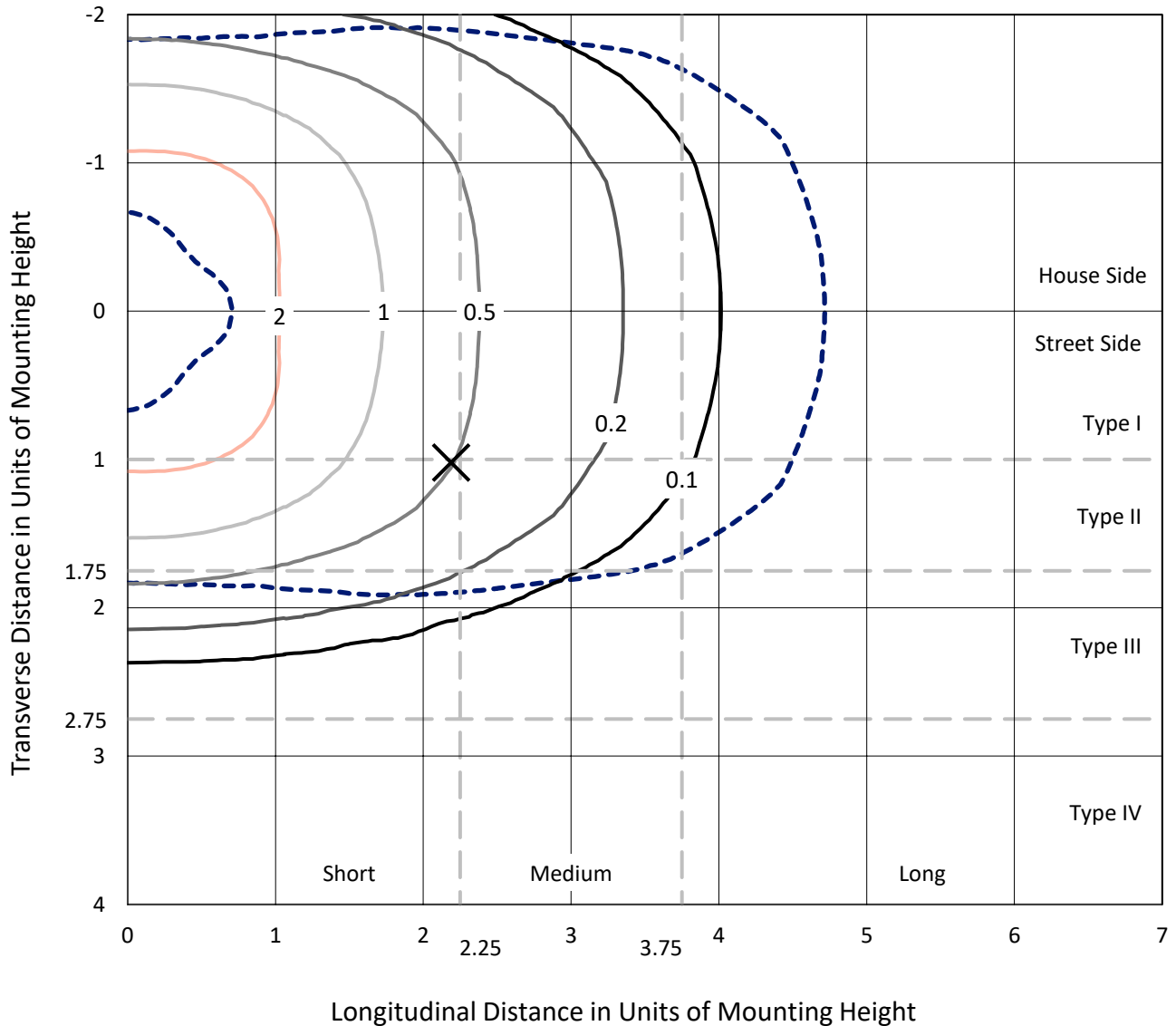
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

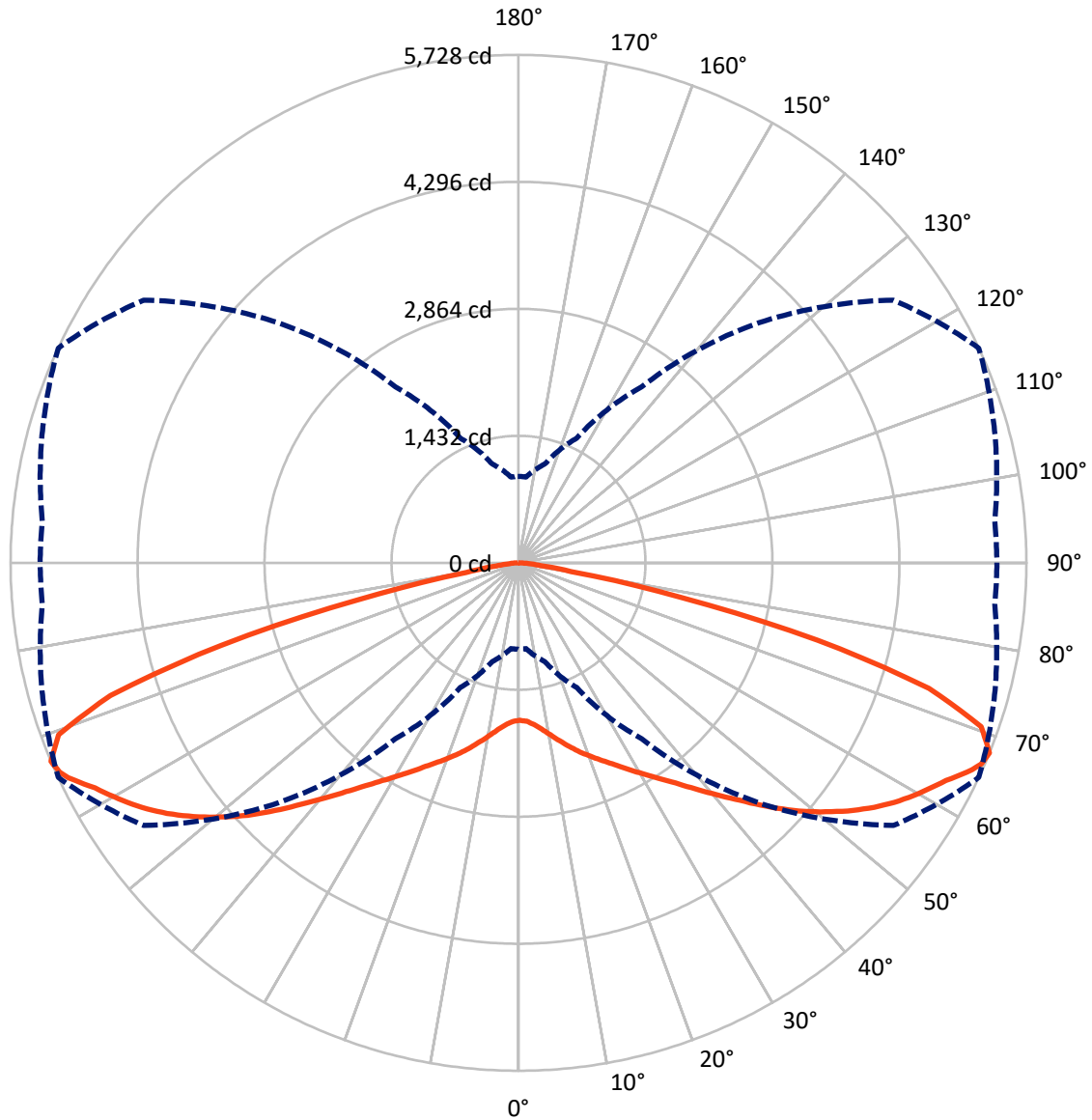
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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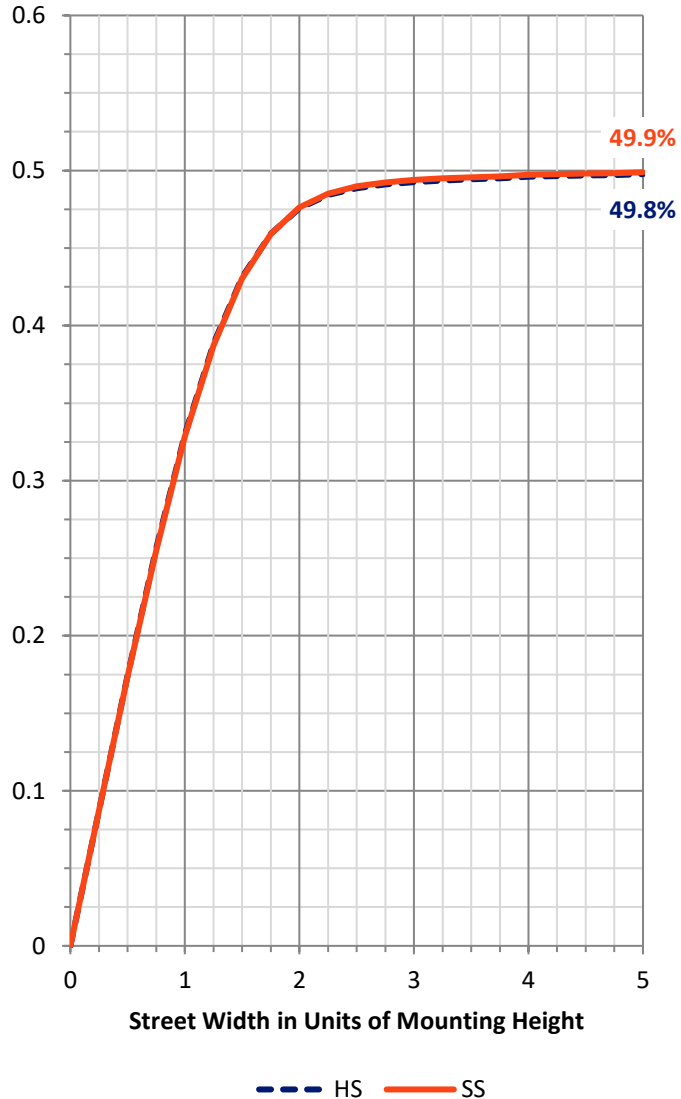
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8477.1 | 0.0 | 8477.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8477.1 | 0.0 | 8477.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16954.3 | 0.0 | 16954.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 175.1 | 1.0 |
| 10°-20° | 586.2 | 3.5 |
| 20°-30° | 1146.6 | 6.8 |
| 30°-40° | 1950.3 | 11.5 |
| 40°-50° | 3086.7 | 18.2 |
| 50°-60° | 4092.9 | 24.1 |
| 60°-70° | 3860.8 | 22.8 |
| 70°-80° | 1908.6 | 11.3 |
| 80°-90° | 147.1 | 0.9 |
| 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° | 16954.3 | 100.0 |
| 0°-180° | 16954.3 | 100.0 |

Coefficient of Utilization

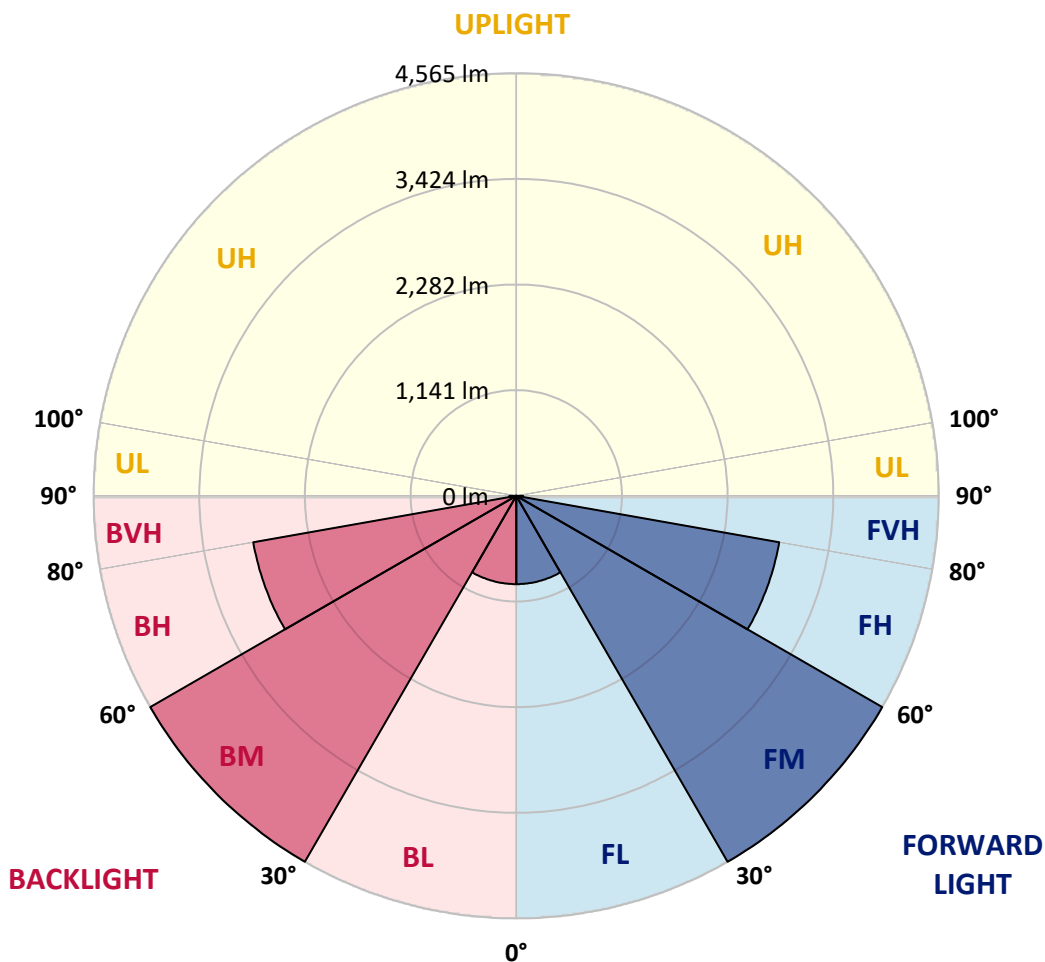


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 954.0 | 5.6 | | | |
| FM (30°-60°) | 4564.9 | 26.9 | | | |
| FH (60°-80°) | 2884.7 | 17.0 | | | G2/5000 |
| FVH (80°-90°) | 73.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 954.0 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 4564.9 | 26.9 | B3/5000 | | |
| BH (60°-80°) | 2884.7 | 17.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 73.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 | 1775.8 |
| 2.5° | 1766.8 | 1768.6 | 1770.4 | 1773.1 | 1776.7 | 1782.2 | 1785.8 | 1788.5 | 1795.8 | 1796.7 | 1795.8 |
| 5° | 1760.3 | 1762.2 | 1766.8 | 1774.9 | 1786.7 | 1803.1 | 1815.8 | 1831.2 | 1843.0 | 1851.2 | 1849.4 |
| 7.5° | 1759.5 | 1763.1 | 1770.4 | 1787.6 | 1810.3 | 1838.5 | 1867.5 | 1893.9 | 1916.6 | 1934.8 | 1932.1 |
| 10° | 1774.0 | 1778.5 | 1790.3 | 1815.8 | 1851.2 | 1892.1 | 1933.0 | 1972.0 | 2004.7 | 2028.4 | 2036.5 |
| 12.5° | 1798.6 | 1802.2 | 1823.9 | 1862.1 | 1912.9 | 1963.8 | 2010.2 | 2058.3 | 2103.8 | 2143.7 | 2143.7 |
| 15° | 1841.2 | 1847.6 | 1874.8 | 1930.3 | 1992.9 | 2051.9 | 2099.2 | 2150.0 | 2199.1 | 2244.5 | 2258.2 |
| 17.5° | 1900.3 | 1909.3 | 1950.2 | 2021.1 | 2101.0 | 2155.5 | 2200.0 | 2241.8 | 2284.5 | 2328.1 | 2334.4 |
| 20° | 1981.1 | 1990.2 | 2044.6 | 2130.1 | 2224.5 | 2290.0 | 2319.9 | 2329.9 | 2350.8 | 2392.6 | 2398.0 |
| 22.5° | 2091.0 | 2100.1 | 2160.9 | 2257.2 | 2362.6 | 2433.5 | 2446.2 | 2422.5 | 2417.1 | 2449.8 | 2453.5 |
| 25° | 2215.4 | 2223.6 | 2293.6 | 2397.2 | 2506.1 | 2583.4 | 2579.7 | 2521.6 | 2488.8 | 2508.8 | 2514.3 |
| 27.5° | 2355.3 | 2367.2 | 2438.0 | 2545.2 | 2663.3 | 2731.4 | 2720.5 | 2636.0 | 2566.0 | 2562.4 | 2564.2 |
| 30° | 2534.3 | 2547.0 | 2614.2 | 2716.9 | 2833.1 | 2895.8 | 2873.1 | 2759.5 | 2651.5 | 2615.1 | 2615.1 |
| 32.5° | 2723.2 | 2755.0 | 2823.1 | 2930.3 | 3021.1 | 3066.5 | 3032.1 | 2895.8 | 2752.2 | 2701.4 | 2698.7 |
| 35° | 2969.4 | 2986.7 | 3053.9 | 3158.3 | 3226.4 | 3261.9 | 3195.6 | 3049.3 | 2884.0 | 2824.0 | 2815.9 |
| 37.5° | 3210.1 | 3224.6 | 3302.8 | 3402.7 | 3485.3 | 3483.5 | 3393.6 | 3231.9 | 3047.5 | 2980.3 | 2974.9 |
| 40° | 3456.2 | 3471.7 | 3560.7 | 3652.5 | 3735.1 | 3727.9 | 3618.9 | 3438.1 | 3241.9 | 3166.5 | 3181.0 |
| 42.5° | 3669.7 | 3687.0 | 3787.8 | 3918.6 | 3993.1 | 3991.3 | 3865.0 | 3661.5 | 3457.2 | 3389.9 | 3402.7 |
| 45° | 3864.1 | 3879.5 | 3996.7 | 4146.6 | 4255.6 | 4269.2 | 4131.2 | 3915.9 | 3706.0 | 3619.7 | 3623.4 |
| 47.5° | 4001.3 | 4030.3 | 4153.0 | 4324.7 | 4472.7 | 4520.8 | 4385.5 | 4174.7 | 3933.2 | 3843.2 | 3848.7 |
| 50° | 4105.7 | 4123.9 | 4257.4 | 4452.7 | 4639.8 | 4739.7 | 4630.7 | 4414.6 | 4160.2 | 4064.9 | 4077.6 |
| 52.5° | 4118.4 | 4140.3 | 4285.6 | 4510.9 | 4750.6 | 4902.4 | 4848.7 | 4648.9 | 4391.8 | 4293.7 | 4321.0 |
| 55° | 4014.9 | 4027.6 | 4201.1 | 4474.5 | 4794.2 | 5023.2 | 5036.8 | 4866.9 | 4612.6 | 4538.1 | 4556.3 |
| 57.5° | 3719.6 | 3752.4 | 3972.2 | 4304.6 | 4734.3 | 5087.6 | 5177.6 | 5064.9 | 4836.0 | 4762.4 | 4791.5 |
| 60° | 3235.5 | 3268.2 | 3489.0 | 3910.5 | 4508.1 | 5057.6 | 5293.9 | 5240.2 | 5038.6 | 4979.6 | 4995.0 |
| 62.5° | 2535.2 | 2532.5 | 2805.9 | 3322.7 | 4058.4 | 4910.5 | 5380.1 | 5409.2 | 5238.4 | 5164.0 | 5187.5 |
| 65° | 1643.2 | 1651.3 | 1915.7 | 2472.5 | 3380.0 | 4536.3 | 5399.2 | 5624.4 | 5434.6 | 5322.0 | 5339.3 |
| 66° | 1321.6 | 1346.1 | 1570.5 | 2083.7 | 3033.9 | 4291.0 | 5341.9 | 5688.0 | 5494.5 | 5358.3 | 5366.5 |
| 67.5° | 975.5 | 971.0 | 1155.4 | 1551.4 | 2422.5 | 3825.0 | 5163.0 | 5728.0 | 5562.7 | 5391.0 | 5394.6 |
| 70° | 556.8 | 555.9 | 621.3 | 852.1 | 1424.3 | 2693.2 | 4351.9 | 5536.4 | 5700.8 | 5509.1 | 5499.1 |
| 72.5° | 406.9 | 404.2 | 413.3 | 470.5 | 694.9 | 1359.8 | 3002.1 | 4838.8 | 5629.9 | 5490.0 | 5461.9 |
| 75° | 341.5 | 339.7 | 337.9 | 345.1 | 389.7 | 615.8 | 1593.2 | 3480.7 | 4885.1 | 5153.0 | 5124.0 |
| 77.5° | 278.8 | 278.8 | 279.8 | 278.0 | 279.8 | 324.2 | 660.4 | 1865.7 | 2974.9 | 3320.9 | 3401.7 |
| 80° | 218.0 | 217.1 | 232.6 | 226.2 | 211.6 | 208.0 | 292.5 | 600.4 | 987.4 | 981.9 | 810.2 |
| 82.5° | 160.7 | 149.9 | 177.1 | 172.6 | 156.2 | 132.6 | 170.8 | 256.1 | 329.7 | 214.4 | 158.9 |
| 85° | 101.7 | 100.9 | 125.4 | 114.5 | 95.4 | 62.6 | 81.7 | 109.9 | 136.2 | 82.7 | 67.2 |
| 87.5° | 18.2 | 17.2 | 39.9 | 29.0 | 29.0 | 18.2 | 22.7 | 30.0 | 44.5 | 30.9 | 22.7 |
| 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)