

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: P543212

Luminaire Tested: **TT-D9-750-U-5WQ-PM**

Issue Date: 6/22/2021

Test Information

Test Method: LM-79-08
Report Number: P543212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2012-100-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D9-750-U-5WQ-PM
Description: TOPTIER LED SITE LUMINAIRE
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20022 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

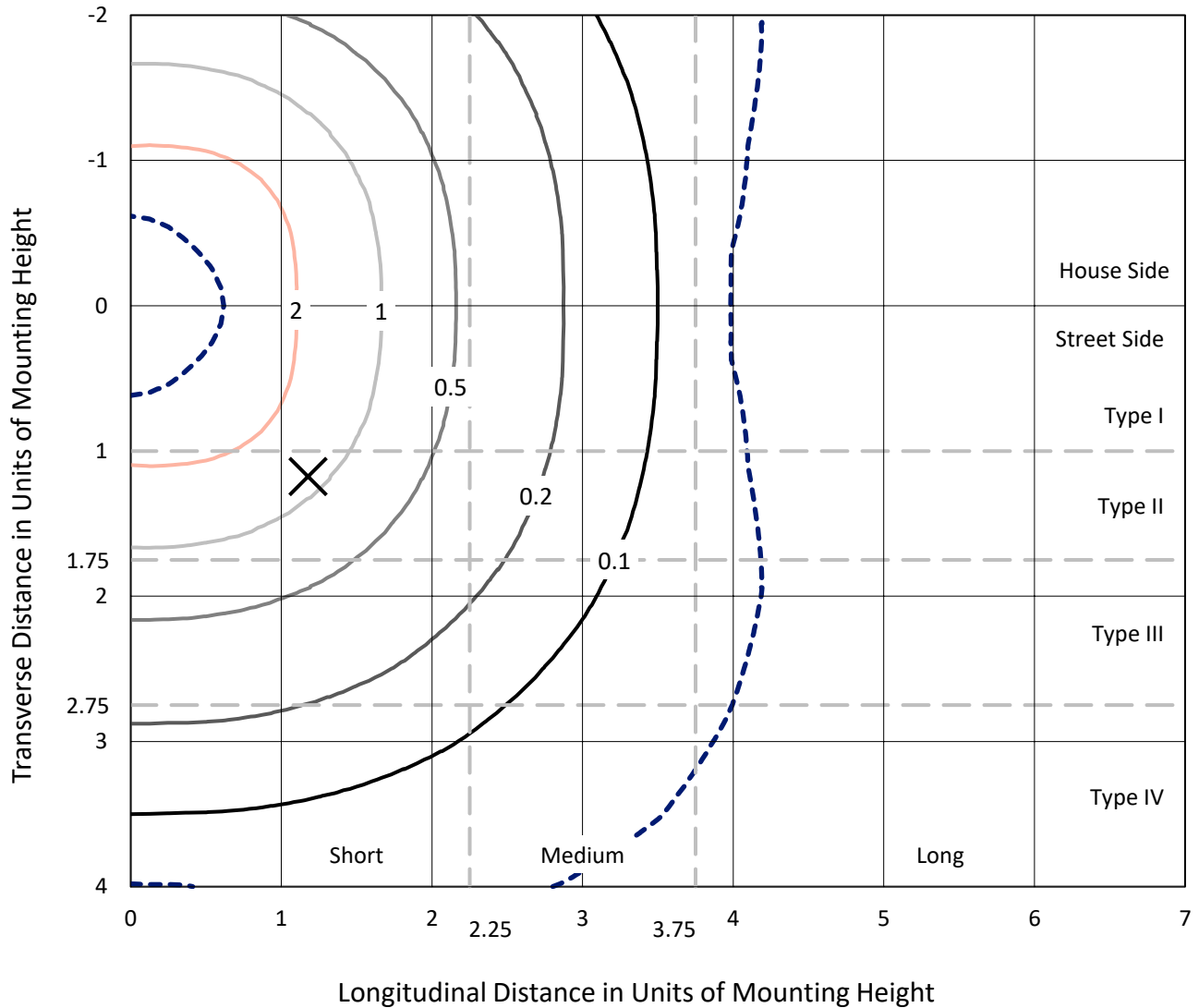
Input Watts (W): 173.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

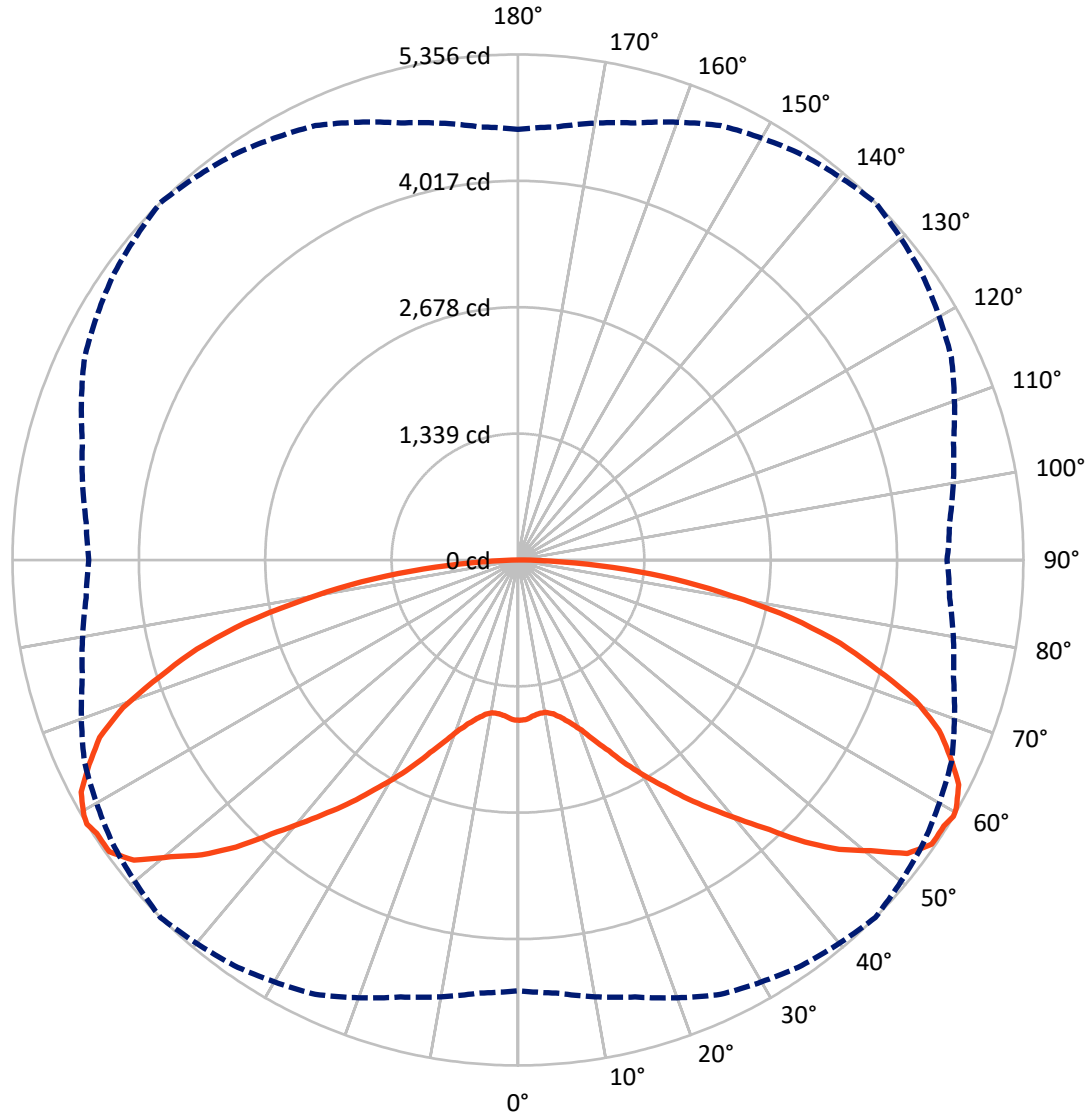
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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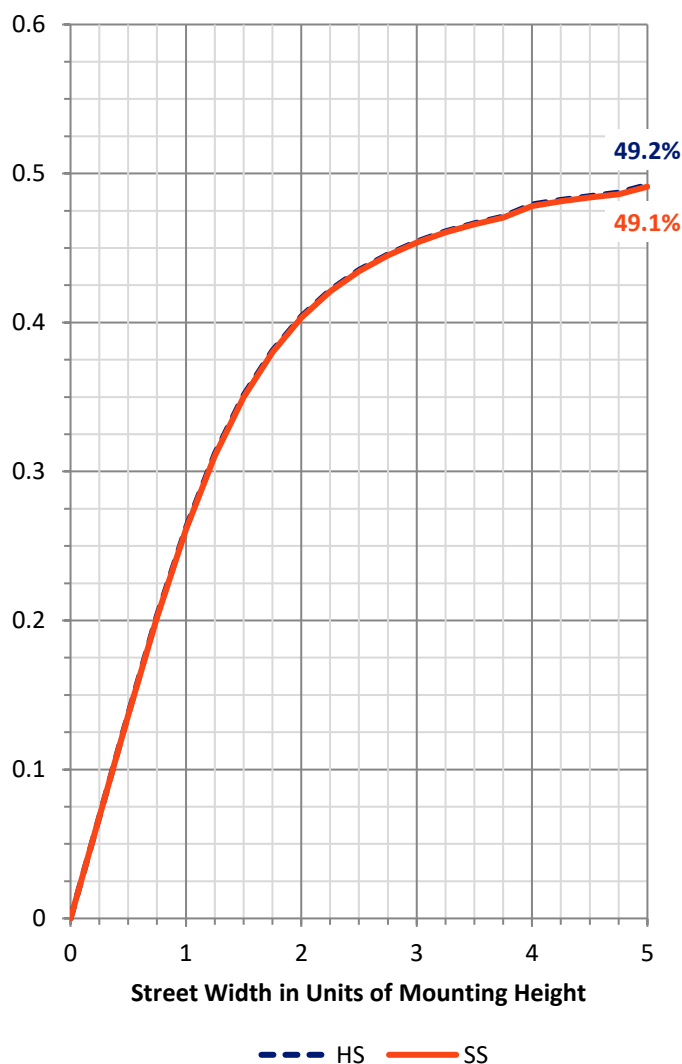
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10011.0 | 0.0 | 10011.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10011.0 | 0.0 | 10011.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20022.0 | 0.0 | 20022.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 157.3 | 0.8 |
| 10°-20° | 497.1 | 2.5 |
| 20°-30° | 1038.9 | 5.2 |
| 30°-40° | 1911.1 | 9.5 |
| 40°-50° | 3144.8 | 15.7 |
| 50°-60° | 4387.1 | 21.9 |
| 60°-70° | 4569.0 | 22.8 |
| 70°-80° | 3329.6 | 16.6 |
| 80°-90° | 987.1 | 4.9 |
| 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° | 20022.0 | 100.0 |
| 0°-180° | 20022.0 | 100.0 |

Coefficient of Utilization



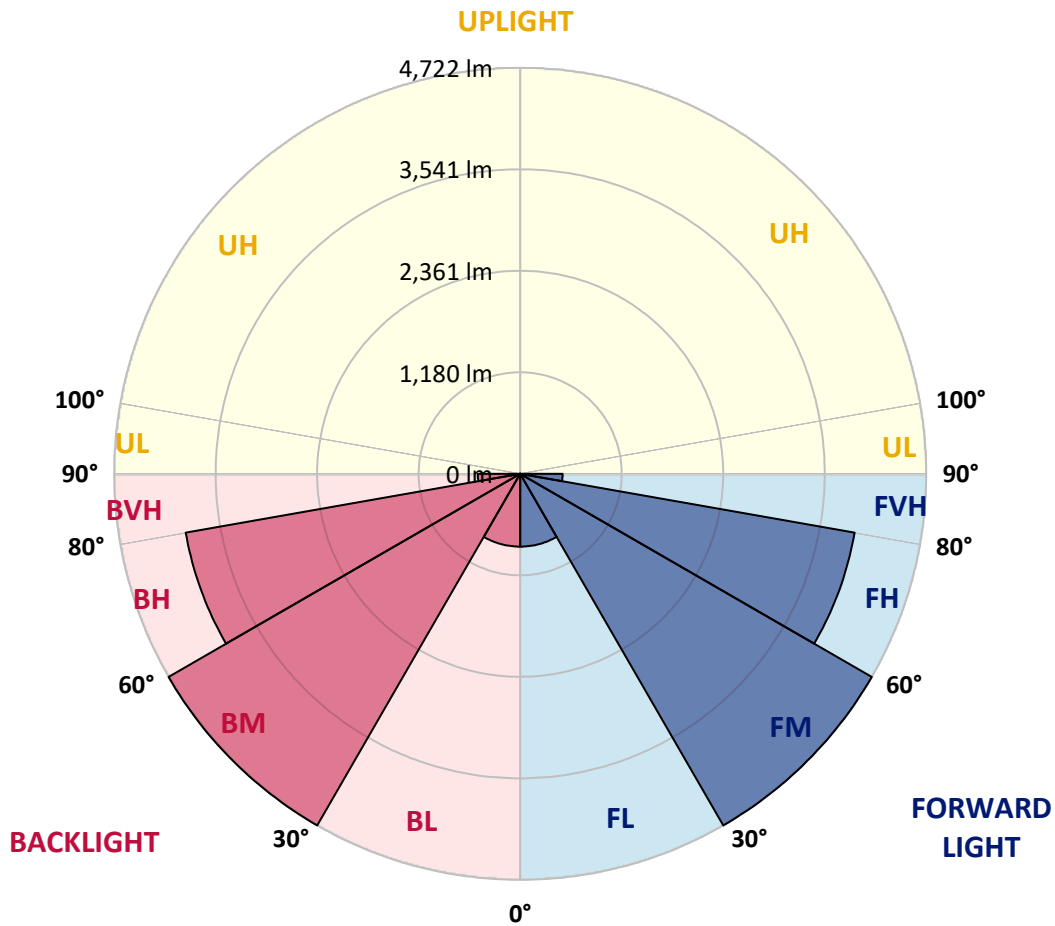
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 846.7 | 4.2 | | | |
| FM (30°-60°) | 4721.5 | 23.6 | | | |
| FH (60°-80°) | 3949.3 | 19.7 | | | G2/5000 |
| FVH (80°-90°) | 493.5 | 2.5 | | | G3/500 |
| BL (0°-30°) | 846.7 | 4.2 | B2/1000 | | |
| BM (30°-60°) | 4721.5 | 23.6 | B3/5000 | | |
| BH (60°-80°) | 3949.3 | 19.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 493.5 | 2.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 | 1699.6 |
| 2.5° | 1690.4 | 1691.4 | 1691.4 | 1692.3 | 1691.4 | 1692.3 | 1690.4 | 1689.5 | 1688.6 | 1689.5 | 1688.6 |
| 5° | 1651.2 | 1653.9 | 1653.9 | 1656.7 | 1657.6 | 1660.3 | 1658.5 | 1657.6 | 1654.8 | 1653.9 | 1653.0 |
| 7.5° | 1623.8 | 1624.7 | 1627.5 | 1632.9 | 1637.5 | 1641.2 | 1640.2 | 1636.6 | 1632.0 | 1628.4 | 1627.5 |
| 10° | 1622.9 | 1622.0 | 1624.7 | 1629.3 | 1638.4 | 1641.2 | 1640.2 | 1633.8 | 1630.2 | 1627.5 | 1627.5 |
| 12.5° | 1652.1 | 1651.2 | 1654.8 | 1661.2 | 1673.1 | 1673.1 | 1674.9 | 1664.9 | 1657.6 | 1655.8 | 1655.8 |
| 15° | 1709.6 | 1706.9 | 1716.0 | 1721.5 | 1735.2 | 1735.2 | 1736.1 | 1724.2 | 1716.0 | 1713.3 | 1713.3 |
| 17.5° | 1787.2 | 1784.5 | 1794.5 | 1803.6 | 1817.3 | 1818.2 | 1819.1 | 1806.4 | 1795.4 | 1790.8 | 1792.7 |
| 20° | 1887.6 | 1883.9 | 1893.1 | 1905.9 | 1925.0 | 1924.1 | 1923.2 | 1910.4 | 1896.7 | 1891.2 | 1893.1 |
| 22.5° | 2011.7 | 2016.3 | 2030.0 | 2047.3 | 2071.1 | 2074.7 | 2069.2 | 2051.9 | 2031.8 | 2023.6 | 2024.5 |
| 25° | 2162.3 | 2166.9 | 2183.3 | 2210.7 | 2242.7 | 2241.8 | 2238.1 | 2212.5 | 2183.3 | 2171.5 | 2174.2 |
| 27.5° | 2345.8 | 2348.5 | 2373.2 | 2401.5 | 2445.3 | 2449.9 | 2441.6 | 2401.5 | 2371.4 | 2347.6 | 2344.9 |
| 30° | 2529.3 | 2532.9 | 2556.7 | 2597.7 | 2645.2 | 2657.1 | 2634.2 | 2595.9 | 2556.7 | 2531.1 | 2526.5 |
| 32.5° | 2729.2 | 2737.4 | 2759.3 | 2799.4 | 2862.4 | 2868.8 | 2855.1 | 2800.4 | 2755.6 | 2732.8 | 2731.9 |
| 35° | 2926.3 | 2938.2 | 2969.2 | 3024.9 | 3089.7 | 3112.5 | 3081.5 | 3024.9 | 2972.0 | 2929.1 | 2924.5 |
| 37.5° | 3144.5 | 3160.0 | 3192.9 | 3265.0 | 3329.8 | 3351.7 | 3323.4 | 3260.4 | 3186.5 | 3149.0 | 3145.4 |
| 40° | 3354.4 | 3379.1 | 3440.2 | 3516.0 | 3592.6 | 3611.8 | 3591.7 | 3507.8 | 3429.3 | 3378.1 | 3345.3 |
| 42.5° | 3583.5 | 3599.0 | 3670.2 | 3786.1 | 3862.8 | 3905.7 | 3858.3 | 3780.7 | 3668.4 | 3595.4 | 3588.1 |
| 45° | 3843.7 | 3892.0 | 3952.3 | 4091.0 | 4217.9 | 4265.3 | 4215.1 | 4082.8 | 3941.3 | 3882.9 | 3849.1 |
| 47.5° | 4086.4 | 4123.0 | 4226.1 | 4384.0 | 4536.4 | 4581.2 | 4531.9 | 4379.4 | 4210.6 | 4112.9 | 4080.1 |
| 50° | 4287.3 | 4338.4 | 4443.3 | 4650.5 | 4783.8 | 4841.3 | 4774.7 | 4639.6 | 4433.3 | 4326.5 | 4287.3 |
| 52.5° | 4478.9 | 4536.4 | 4667.0 | 4872.3 | 5087.8 | 5166.2 | 5083.2 | 4856.8 | 4654.2 | 4519.1 | 4464.3 |
| 55° | 4582.1 | 4635.0 | 4776.5 | 5046.7 | 5268.5 | 5320.5 | 5261.2 | 5032.1 | 4763.7 | 4617.7 | 4566.6 |
| 57.5° | 4598.5 | 4642.3 | 4817.6 | 5103.3 | 5270.3 | 5321.4 | 5266.7 | 5090.5 | 4802.1 | 4626.8 | 4583.9 |
| 59° | 4563.8 | 4605.8 | 4793.8 | 5078.6 | 5245.7 | 5356.1 | 5242.0 | 5067.7 | 4777.4 | 4592.1 | 4547.4 |
| 60° | 4542.8 | 4583.0 | 4759.2 | 5043.0 | 5221.9 | 5336.0 | 5218.3 | 5033.9 | 4740.0 | 4571.1 | 4525.5 |
| 62.5° | 4437.9 | 4475.3 | 4705.3 | 4955.4 | 5152.6 | 5242.0 | 5147.1 | 4946.3 | 4690.7 | 4463.4 | 4413.2 |
| 65° | 4235.2 | 4253.5 | 4473.5 | 4720.8 | 4980.0 | 5033.9 | 4971.8 | 4718.1 | 4455.2 | 4240.7 | 4214.2 |
| 67.5° | 4011.6 | 4035.3 | 4224.3 | 4496.3 | 4741.8 | 4813.9 | 4729.0 | 4495.4 | 4210.6 | 4018.0 | 3987.9 |
| 70° | 3649.2 | 3673.9 | 3926.7 | 4159.5 | 4358.5 | 4469.8 | 4337.5 | 4152.2 | 3912.1 | 3666.6 | 3623.7 |
| 72.5° | 3298.7 | 3310.6 | 3490.4 | 3764.2 | 4004.3 | 3982.4 | 3979.7 | 3760.6 | 3476.7 | 3315.2 | 3296.0 |
| 75° | 2841.4 | 2847.8 | 3057.8 | 3285.0 | 3505.0 | 3528.7 | 3471.2 | 3280.5 | 3042.2 | 2845.1 | 2842.3 |
| 77.5° | 2348.5 | 2367.7 | 2511.0 | 2722.8 | 2890.7 | 2971.0 | 2872.5 | 2733.7 | 2496.4 | 2369.5 | 2353.1 |
| 80° | 1807.3 | 1831.0 | 1977.0 | 2145.9 | 2291.0 | 2297.4 | 2277.3 | 2160.5 | 1964.3 | 1833.7 | 1814.6 |
| 82.5° | 1248.7 | 1273.3 | 1402.0 | 1528.0 | 1668.5 | 1675.8 | 1653.0 | 1541.7 | 1390.1 | 1277.9 | 1259.6 |
| 85° | 690.1 | 712.0 | 799.6 | 896.3 | 1010.4 | 1010.4 | 978.5 | 913.7 | 790.5 | 719.3 | 701.9 |
| 87.5° | 116.8 | 118.7 | 172.5 | 226.4 | 328.6 | 339.5 | 309.4 | 247.4 | 181.6 | 142.4 | 130.5 |
| 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)