

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: P821337

Luminaire Tested: **TT-D5-830-12VDC-RW-PM**

Issue Date: 10/15/2020

Test Information

Test Method: LM-79-08
Report Number: P821337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-981-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-830-12VDC-RW-PM
Description: TOPTIER LED SITE LUMINAIRE
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

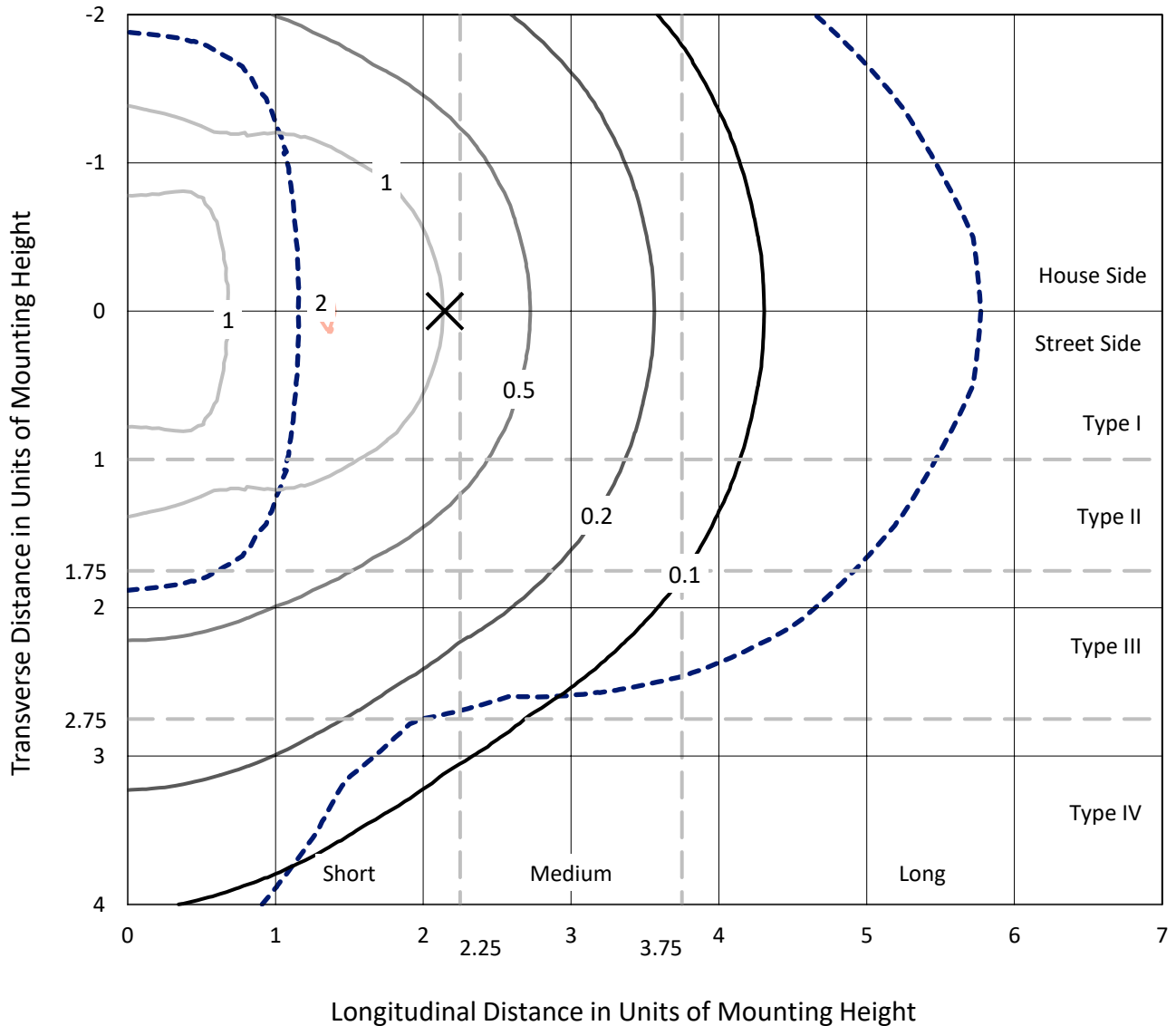
Lumens per Lamp: N/A
Luminaire Lumens: 6781 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 73
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

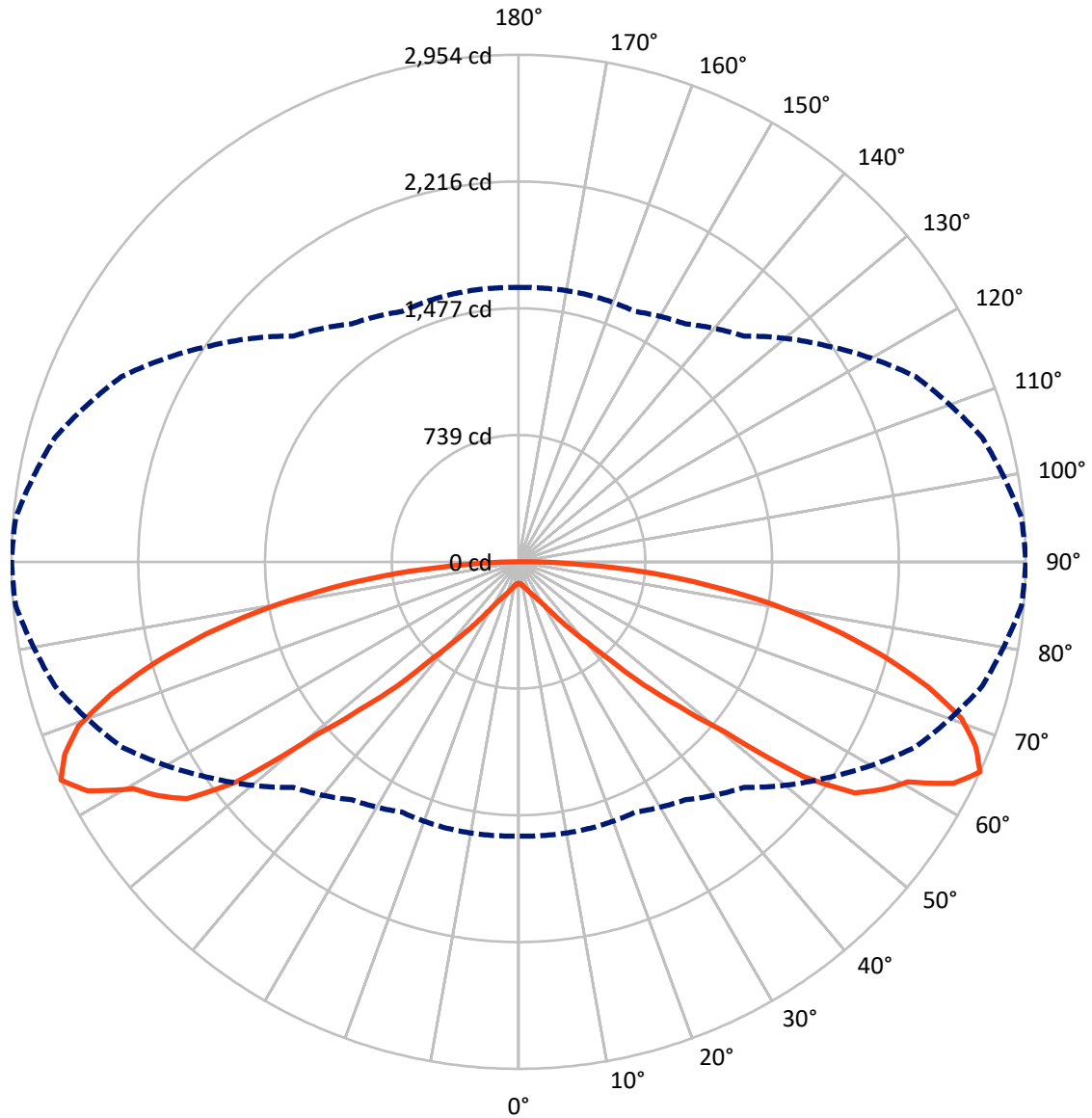
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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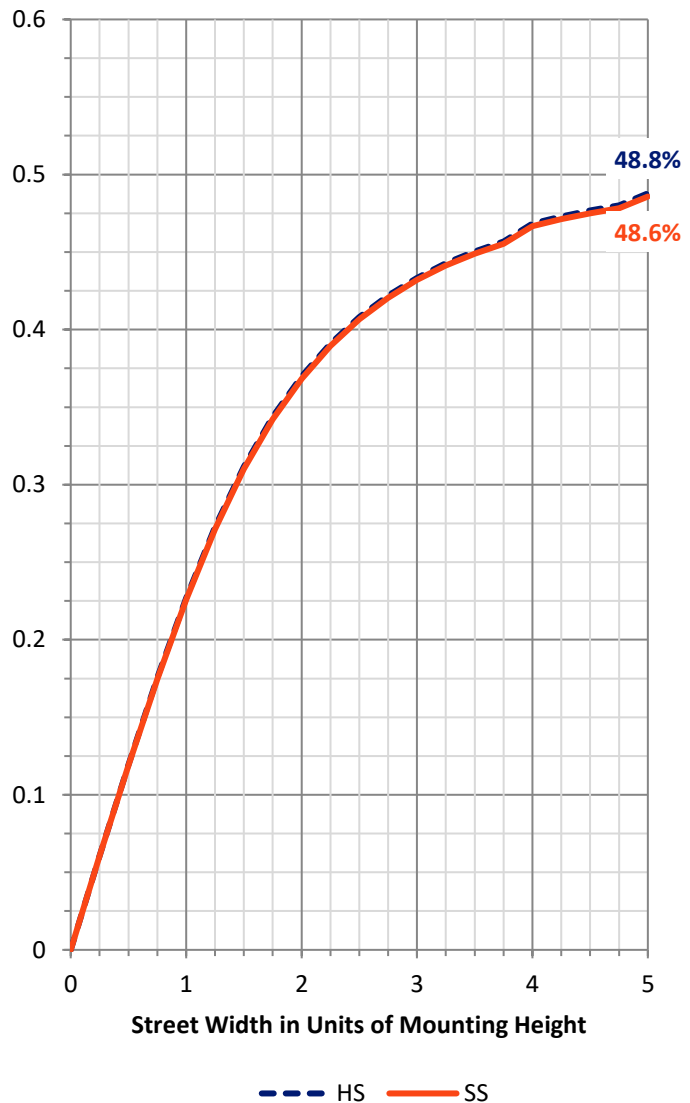
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3390.5 | 0.0 | 3390.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3390.5 | 0.0 | 3390.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6781.0 | 0.0 | 6781.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.9 | 0.2 |
| 10°-20° | 48.4 | 0.7 |
| 20°-30° | 111.7 | 1.6 |
| 30°-40° | 252.6 | 3.7 |
| 40°-50° | 615.4 | 9.1 |
| 50°-60° | 1383.9 | 20.4 |
| 60°-70° | 2022.6 | 29.8 |
| 70°-80° | 1762.4 | 26.0 |
| 80°-90° | 570.9 | 8.4 |
| 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° | 6781.0 | 100.0 |
| 0°-180° | 6781.0 | 100.0 |

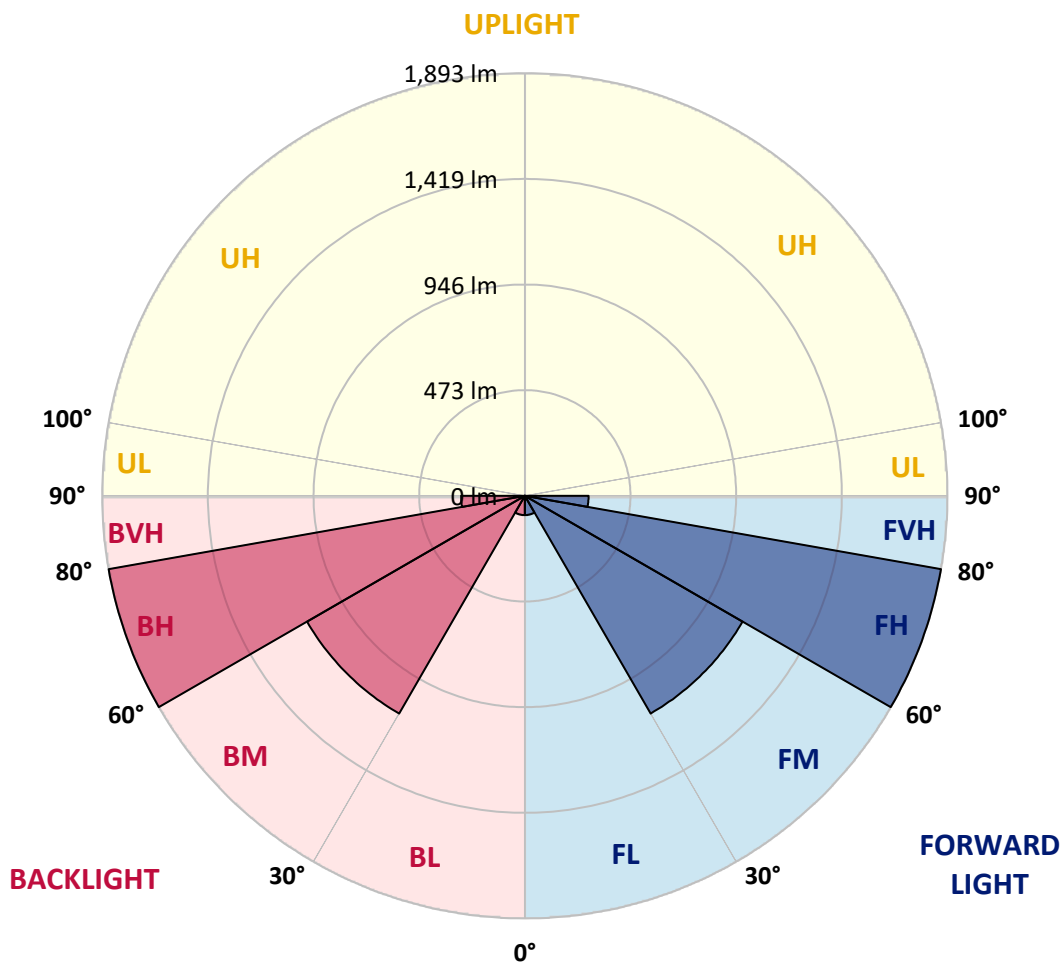


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 86.5 | 1.3 | | | |
| FM (30°-60°) | 1126.0 | 16.6 | | | |
| FH (60°-80°) | 1892.5 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 285.4 | 4.2 | | | G3/500 |
| BL (0°-30°) | 86.5 | 1.3 | B0/110 | | |
| BM (30°-60°) | 1126.0 | 16.6 | B2/2500 | | |
| BH (60°-80°) | 1892.5 | 27.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 285.4 | 4.2 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 | 123.9 |
| 2.5° | 125.5 | 125.5 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 |
| 5° | 130.3 | 130.3 | 130.3 | 130.3 | 131.9 | 131.9 | 130.3 | 130.3 | 130.3 | 130.3 | 130.3 |
| 7.5° | 138.4 | 136.8 | 138.4 | 138.4 | 138.4 | 136.8 | 136.8 | 136.8 | 135.2 | 135.2 | 135.2 |
| 10° | 146.4 | 146.4 | 148.0 | 146.4 | 146.4 | 144.8 | 144.8 | 144.8 | 143.2 | 143.2 | 143.2 |
| 12.5° | 157.7 | 157.7 | 157.7 | 157.7 | 156.1 | 156.1 | 154.5 | 152.9 | 151.2 | 151.2 | 151.2 |
| 15° | 172.2 | 170.5 | 170.5 | 168.9 | 167.3 | 165.7 | 164.1 | 164.1 | 162.5 | 162.5 | 162.5 |
| 17.5° | 186.6 | 186.6 | 185.0 | 183.4 | 180.2 | 178.6 | 178.6 | 177.0 | 175.4 | 175.4 | 175.4 |
| 20° | 204.3 | 204.3 | 202.7 | 199.5 | 196.3 | 194.7 | 193.1 | 193.1 | 191.5 | 191.5 | 191.5 |
| 22.5° | 225.3 | 223.6 | 220.4 | 217.2 | 214.0 | 212.4 | 210.8 | 209.2 | 209.2 | 209.2 | 209.2 |
| 25° | 247.8 | 246.2 | 244.6 | 239.7 | 234.9 | 233.3 | 230.1 | 230.1 | 228.5 | 230.1 | 230.1 |
| 27.5° | 275.1 | 273.5 | 270.3 | 265.5 | 259.0 | 255.8 | 254.2 | 254.2 | 255.8 | 255.8 | 257.4 |
| 30° | 308.9 | 305.7 | 302.5 | 296.0 | 289.6 | 284.8 | 284.8 | 286.4 | 291.2 | 294.4 | 294.4 |
| 32.5° | 349.1 | 347.5 | 342.7 | 336.3 | 325.0 | 321.8 | 325.0 | 334.7 | 341.1 | 345.9 | 349.1 |
| 35° | 395.8 | 394.2 | 387.8 | 376.5 | 368.5 | 366.8 | 376.5 | 392.6 | 413.5 | 419.9 | 423.2 |
| 37.5° | 447.3 | 448.9 | 440.9 | 428.0 | 419.9 | 423.2 | 442.5 | 473.0 | 494.0 | 508.4 | 511.6 |
| 40° | 511.6 | 514.9 | 505.2 | 490.7 | 482.7 | 495.6 | 526.1 | 561.5 | 598.5 | 616.2 | 621.1 |
| 42.5° | 587.3 | 592.1 | 579.2 | 564.7 | 559.9 | 580.8 | 624.3 | 682.2 | 748.2 | 769.1 | 777.1 |
| 45° | 680.6 | 683.8 | 667.7 | 654.8 | 651.6 | 688.6 | 762.6 | 859.2 | 963.8 | 1012.0 | 1020.1 |
| 47.5° | 791.6 | 790.0 | 775.5 | 759.4 | 762.6 | 815.7 | 926.8 | 1057.1 | 1168.1 | 1242.1 | 1258.2 |
| 50° | 918.7 | 910.7 | 899.4 | 880.1 | 901.0 | 978.2 | 1118.2 | 1275.9 | 1462.5 | 1528.5 | 1557.5 |
| 52.5° | 1045.8 | 1031.3 | 1021.7 | 1008.8 | 1045.8 | 1145.6 | 1341.9 | 1617.0 | 1898.6 | 2049.8 | 2080.4 |
| 55° | 1160.1 | 1148.8 | 1144.0 | 1145.6 | 1203.5 | 1346.7 | 1604.1 | 1956.5 | 2228.4 | 2353.9 | 2376.4 |
| 57.5° | 1272.7 | 1266.3 | 1261.4 | 1271.1 | 1362.8 | 1549.4 | 1839.0 | 2168.9 | 2392.5 | 2485.8 | 2501.9 |
| 60° | 1378.9 | 1385.3 | 1382.1 | 1411.1 | 1522.1 | 1710.3 | 1961.3 | 2286.3 | 2501.9 | 2587.2 | 2604.9 |
| 62.5° | 1496.3 | 1501.2 | 1501.2 | 1533.3 | 1623.4 | 1789.2 | 2045.0 | 2424.7 | 2698.2 | 2823.7 | 2843.0 |
| 65° | 1597.7 | 1600.9 | 1607.4 | 1609.0 | 1692.6 | 1858.3 | 2193.0 | 2551.8 | 2796.4 | 2941.2 | 2954.0 |
| 67.5° | 1673.3 | 1676.5 | 1668.5 | 1660.4 | 1724.8 | 1874.4 | 2181.7 | 2535.7 | 2752.9 | 2862.3 | 2872.0 |
| 70° | 1734.5 | 1720.0 | 1697.5 | 1657.2 | 1678.1 | 1790.8 | 2088.4 | 2407.0 | 2625.8 | 2724.0 | 2738.4 |
| 72.5° | 1742.5 | 1729.6 | 1658.8 | 1568.7 | 1543.0 | 1641.1 | 1924.3 | 2210.7 | 2399.0 | 2492.3 | 2493.9 |
| 75° | 1694.2 | 1660.4 | 1543.0 | 1407.8 | 1359.6 | 1452.9 | 1695.8 | 1956.5 | 2107.7 | 2186.6 | 2194.6 |
| 77.5° | 1531.7 | 1499.5 | 1351.5 | 1197.1 | 1142.4 | 1222.8 | 1428.8 | 1639.5 | 1784.3 | 1861.6 | 1866.4 |
| 80° | 1243.7 | 1232.5 | 1097.3 | 955.7 | 889.8 | 936.4 | 1116.6 | 1282.3 | 1399.8 | 1491.5 | 1499.5 |
| 82.5° | 917.1 | 907.5 | 804.5 | 680.6 | 627.5 | 666.1 | 794.8 | 917.1 | 1026.5 | 1100.5 | 1105.4 |
| 85° | 572.8 | 553.5 | 489.1 | 402.2 | 366.8 | 392.6 | 477.9 | 559.9 | 658.1 | 716.0 | 719.2 |
| 87.5° | 191.5 | 183.4 | 157.7 | 130.3 | 109.4 | 114.2 | 140.0 | 170.5 | 249.4 | 275.1 | 291.2 |
| 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)