

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: P821366

Luminaire Tested: **TT-D5-735-12VDC-RW-PM**

Issue Date: 10/15/2020

Test Information

Test Method: LM-79-08
Report Number: P821366
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-D5-735-12VDC-RW-PM
Description: TOPTIER LED SITE LUMINAIRE
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

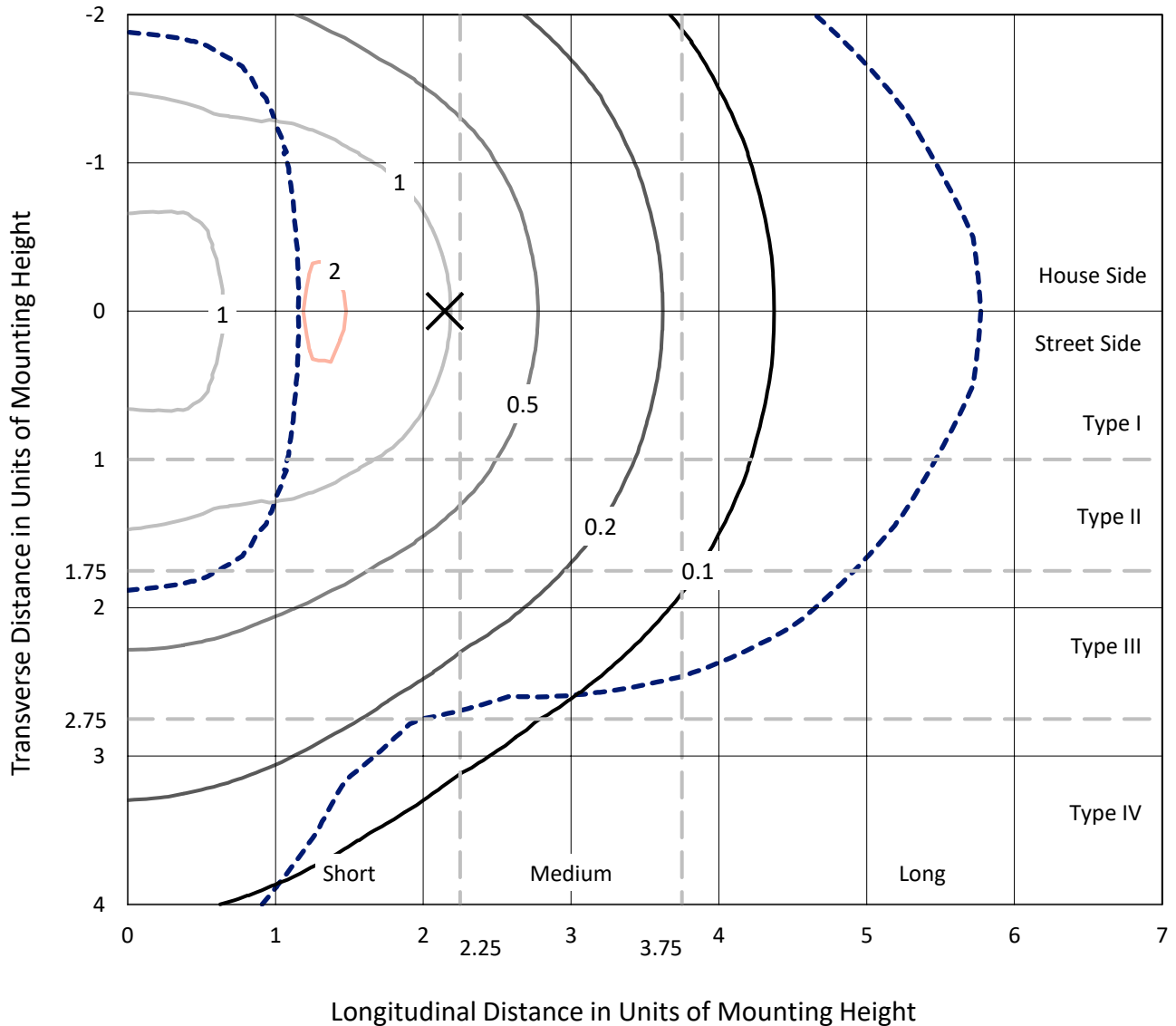
Lumens per Lamp: N/A
Luminaire Lumens: 7198 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

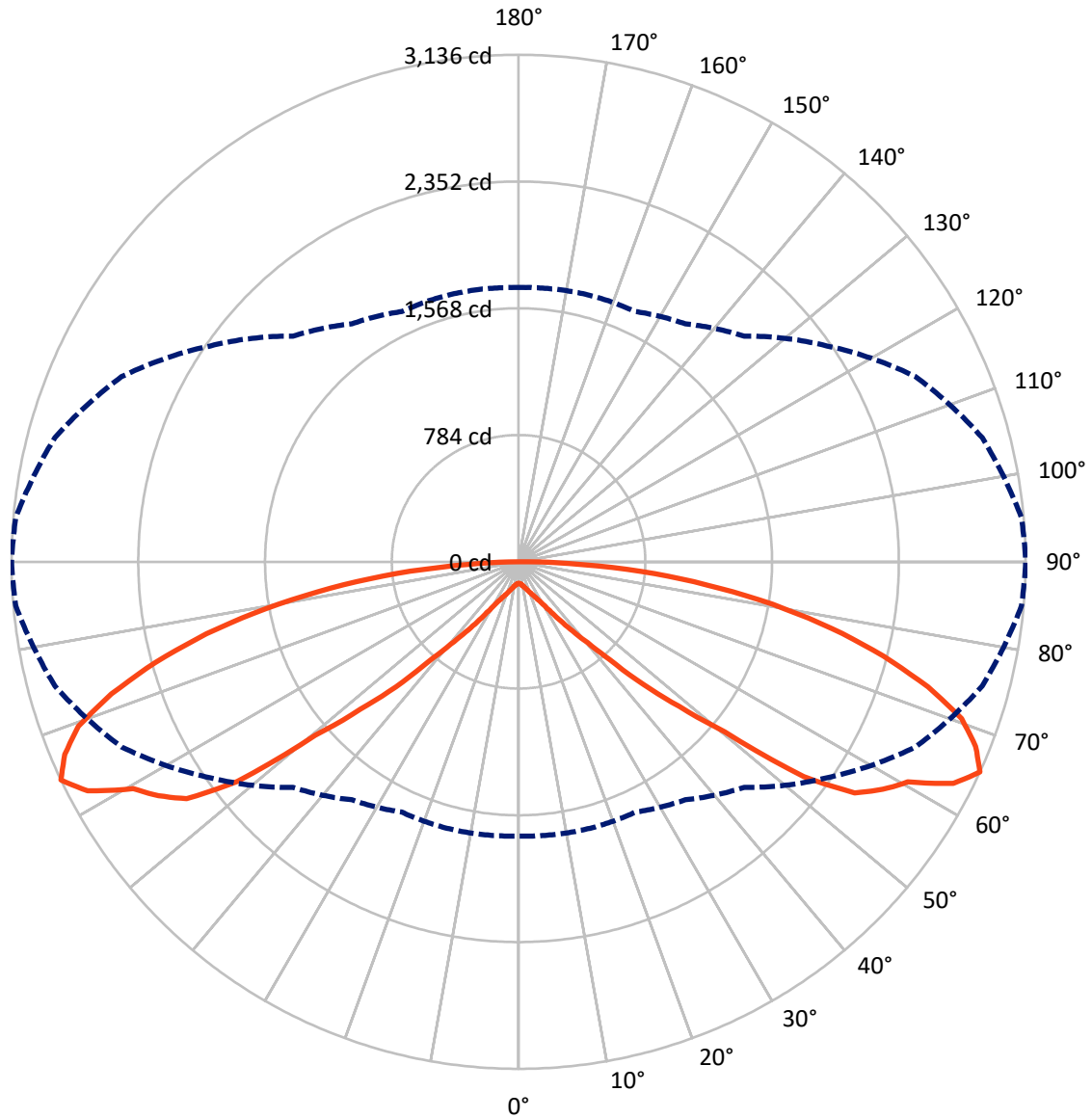
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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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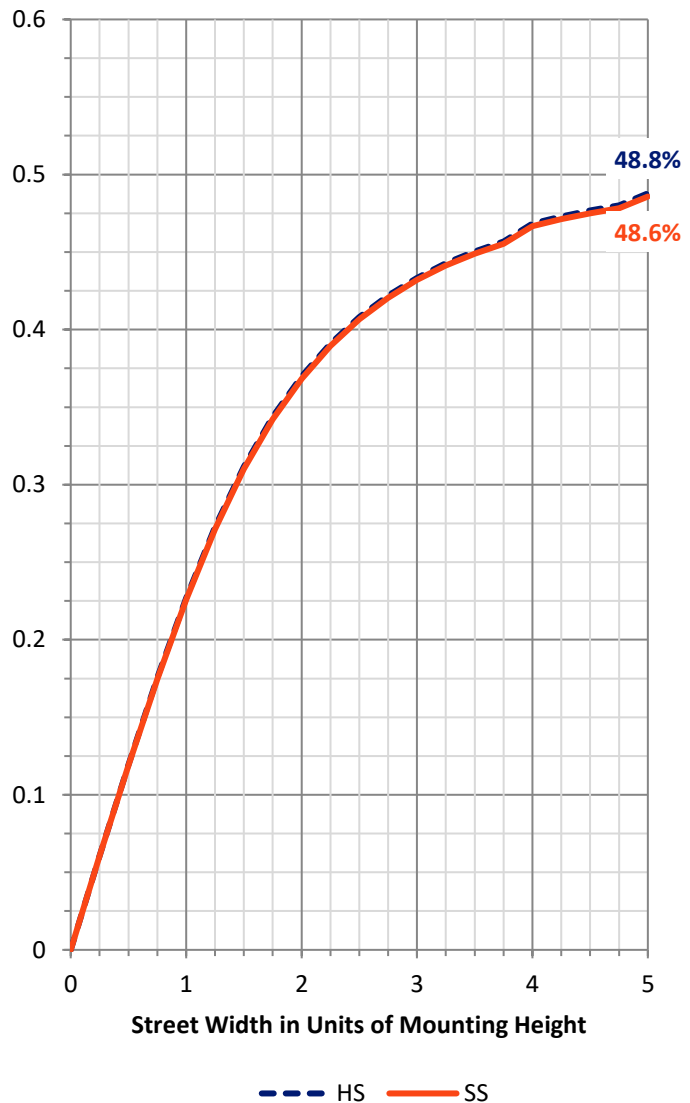
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3599.0 | 0.0 | 3599.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3599.0 | 0.0 | 3599.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7198.0 | 0.0 | 7198.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.7 | 0.2 |
| 10°-20° | 51.3 | 0.7 |
| 20°-30° | 118.6 | 1.6 |
| 30°-40° | 268.2 | 3.7 |
| 40°-50° | 653.3 | 9.1 |
| 50°-60° | 1469.0 | 20.4 |
| 60°-70° | 2147.0 | 29.8 |
| 70°-80° | 1870.8 | 26.0 |
| 80°-90° | 606.0 | 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° | 7198.0 | 100.0 |
| 0°-180° | 7198.0 | 100.0 |

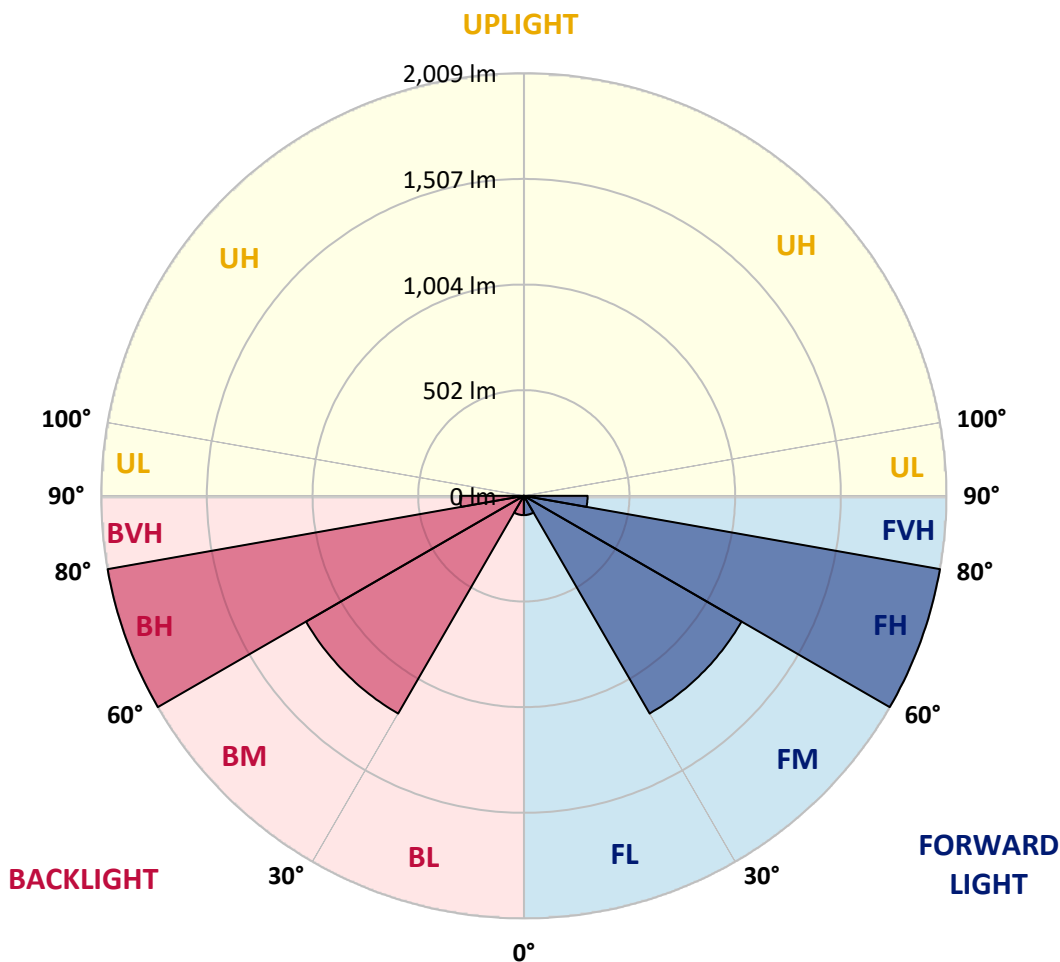


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 91.8 | 1.3 | | | |
| FM (30°-60°) | 1195.3 | 16.6 | | | |
| FH (60°-80°) | 2008.9 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 303.0 | 4.2 | | | G3/500 |
| BL (0°-30°) | 91.8 | 1.3 | B0/110 | | |
| BM (30°-60°) | 1195.3 | 16.6 | B2/2500 | | |
| BH (60°-80°) | 2008.9 | 27.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 303.0 | 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° | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 | 131.5 |
| 2.5° | 133.2 | 133.2 | 134.9 | 134.9 | 134.9 | 134.9 | 134.9 | 134.9 | 134.9 | 134.9 | 134.9 |
| 5° | 138.3 | 138.3 | 138.3 | 138.3 | 140.0 | 140.0 | 138.3 | 138.3 | 138.3 | 138.3 | 138.3 |
| 7.5° | 146.9 | 145.2 | 146.9 | 146.9 | 146.9 | 145.2 | 145.2 | 145.2 | 143.5 | 143.5 | 143.5 |
| 10° | 155.4 | 155.4 | 157.1 | 155.4 | 155.4 | 153.7 | 153.7 | 153.7 | 152.0 | 152.0 | 152.0 |
| 12.5° | 167.4 | 167.4 | 167.4 | 167.4 | 165.7 | 165.7 | 164.0 | 162.3 | 160.5 | 160.5 | 160.5 |
| 15° | 182.7 | 181.0 | 181.0 | 179.3 | 177.6 | 175.9 | 174.2 | 174.2 | 172.5 | 172.5 | 172.5 |
| 17.5° | 198.1 | 198.1 | 196.4 | 194.7 | 191.3 | 189.6 | 189.6 | 187.9 | 186.2 | 186.2 | 186.2 |
| 20° | 216.9 | 216.9 | 215.2 | 211.8 | 208.4 | 206.7 | 204.9 | 204.9 | 203.2 | 203.2 | 203.2 |
| 22.5° | 239.1 | 237.4 | 234.0 | 230.6 | 227.2 | 225.4 | 223.7 | 222.0 | 222.0 | 222.0 | 222.0 |
| 25° | 263.0 | 261.3 | 259.6 | 254.5 | 249.4 | 247.6 | 244.2 | 244.2 | 242.5 | 244.2 | 244.2 |
| 27.5° | 292.1 | 290.3 | 286.9 | 281.8 | 275.0 | 271.6 | 269.8 | 269.8 | 271.6 | 271.6 | 273.3 |
| 30° | 327.9 | 324.5 | 321.1 | 314.3 | 307.4 | 302.3 | 302.3 | 304.0 | 309.1 | 312.5 | 312.5 |
| 32.5° | 370.6 | 368.9 | 363.8 | 357.0 | 345.0 | 341.6 | 345.0 | 355.2 | 362.1 | 367.2 | 370.6 |
| 35° | 420.1 | 418.4 | 411.6 | 399.6 | 391.1 | 389.4 | 399.6 | 416.7 | 438.9 | 445.8 | 449.2 |
| 37.5° | 474.8 | 476.5 | 468.0 | 454.3 | 445.8 | 449.2 | 469.7 | 502.1 | 524.3 | 539.7 | 543.1 |
| 40° | 543.1 | 546.5 | 536.3 | 520.9 | 512.4 | 526.0 | 558.5 | 596.1 | 635.3 | 654.1 | 659.3 |
| 42.5° | 623.4 | 628.5 | 614.8 | 599.5 | 594.4 | 616.6 | 662.7 | 724.2 | 794.2 | 816.4 | 824.9 |
| 45° | 722.4 | 725.9 | 708.8 | 695.1 | 691.7 | 731.0 | 809.5 | 912.0 | 1023.0 | 1074.3 | 1082.8 |
| 47.5° | 840.3 | 838.6 | 823.2 | 806.1 | 809.5 | 865.9 | 983.8 | 1122.1 | 1239.9 | 1318.5 | 1335.6 |
| 50° | 975.2 | 966.7 | 954.7 | 934.2 | 956.4 | 1038.4 | 1187.0 | 1354.4 | 1552.5 | 1622.5 | 1653.2 |
| 52.5° | 1110.1 | 1094.8 | 1084.5 | 1070.9 | 1110.1 | 1216.0 | 1424.4 | 1716.4 | 2015.3 | 2175.9 | 2208.3 |
| 55° | 1231.4 | 1219.4 | 1214.3 | 1216.0 | 1277.5 | 1429.5 | 1702.8 | 2076.8 | 2365.4 | 2498.7 | 2522.6 |
| 57.5° | 1351.0 | 1344.1 | 1339.0 | 1349.2 | 1446.6 | 1644.7 | 1952.1 | 2302.3 | 2539.7 | 2638.7 | 2655.8 |
| 60° | 1463.7 | 1470.5 | 1467.1 | 1497.8 | 1615.7 | 1815.5 | 2081.9 | 2426.9 | 2655.8 | 2746.3 | 2765.1 |
| 62.5° | 1588.3 | 1593.5 | 1593.5 | 1627.6 | 1723.3 | 1899.2 | 2170.7 | 2573.8 | 2864.2 | 2997.4 | 3017.9 |
| 65° | 1695.9 | 1699.4 | 1706.2 | 1707.9 | 1796.7 | 1972.6 | 2327.9 | 2708.7 | 2968.3 | 3122.0 | 3135.7 |
| 67.5° | 1776.2 | 1779.6 | 1771.1 | 1762.6 | 1830.9 | 1989.7 | 2315.9 | 2691.7 | 2922.2 | 3038.4 | 3048.6 |
| 70° | 1841.1 | 1825.7 | 1801.8 | 1759.1 | 1781.3 | 1900.9 | 2216.9 | 2555.0 | 2787.3 | 2891.5 | 2906.9 |
| 72.5° | 1849.7 | 1836.0 | 1760.8 | 1665.2 | 1637.9 | 1742.1 | 2042.7 | 2346.7 | 2546.5 | 2645.5 | 2647.2 |
| 75° | 1798.4 | 1762.6 | 1637.9 | 1494.4 | 1443.2 | 1542.2 | 1800.1 | 2076.8 | 2237.4 | 2321.0 | 2329.6 |
| 77.5° | 1625.9 | 1591.8 | 1434.6 | 1270.7 | 1212.6 | 1298.0 | 1516.6 | 1740.4 | 1894.1 | 1976.0 | 1981.2 |
| 80° | 1320.2 | 1308.3 | 1164.8 | 1014.5 | 944.5 | 994.0 | 1185.3 | 1361.2 | 1485.9 | 1583.2 | 1591.8 |
| 82.5° | 973.5 | 963.3 | 854.0 | 722.4 | 666.1 | 707.1 | 843.7 | 973.5 | 1089.6 | 1168.2 | 1173.3 |
| 85° | 608.0 | 587.5 | 519.2 | 427.0 | 389.4 | 416.7 | 507.2 | 594.4 | 698.5 | 760.0 | 763.4 |
| 87.5° | 203.2 | 194.7 | 167.4 | 138.3 | 116.1 | 121.3 | 148.6 | 181.0 | 264.7 | 292.1 | 309.1 |
| 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)