

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: LUMARK

Report Number: P197186

Luminaire Tested: **NAV-AF-02-D-UNV-SLR-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-AF-02-D-UNV-SLR-8030-600
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5784 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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: 25 FT

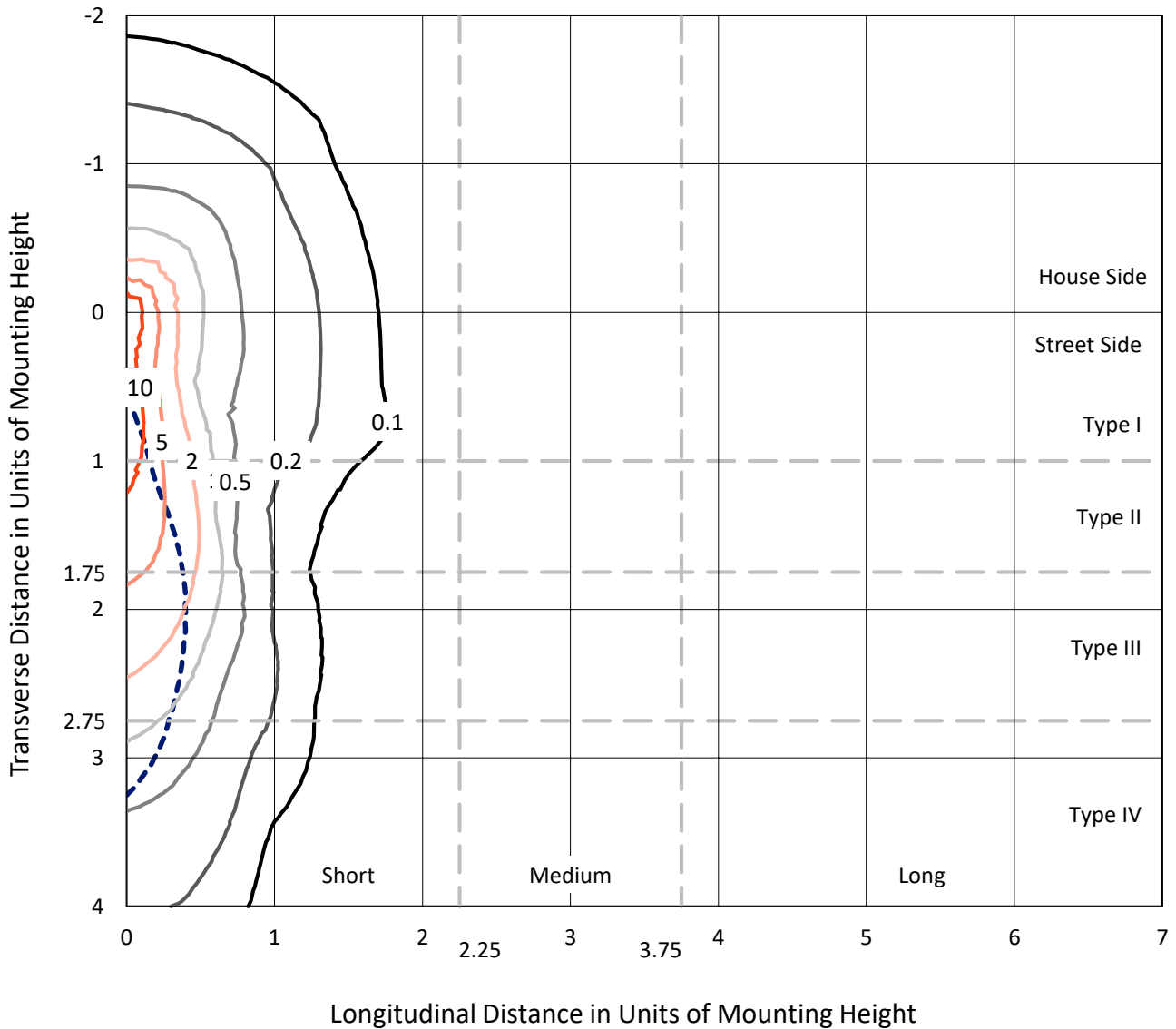


REPORT NUMBER: P197186

CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

Iso-Footcandle Lines of Horizontal Illumination

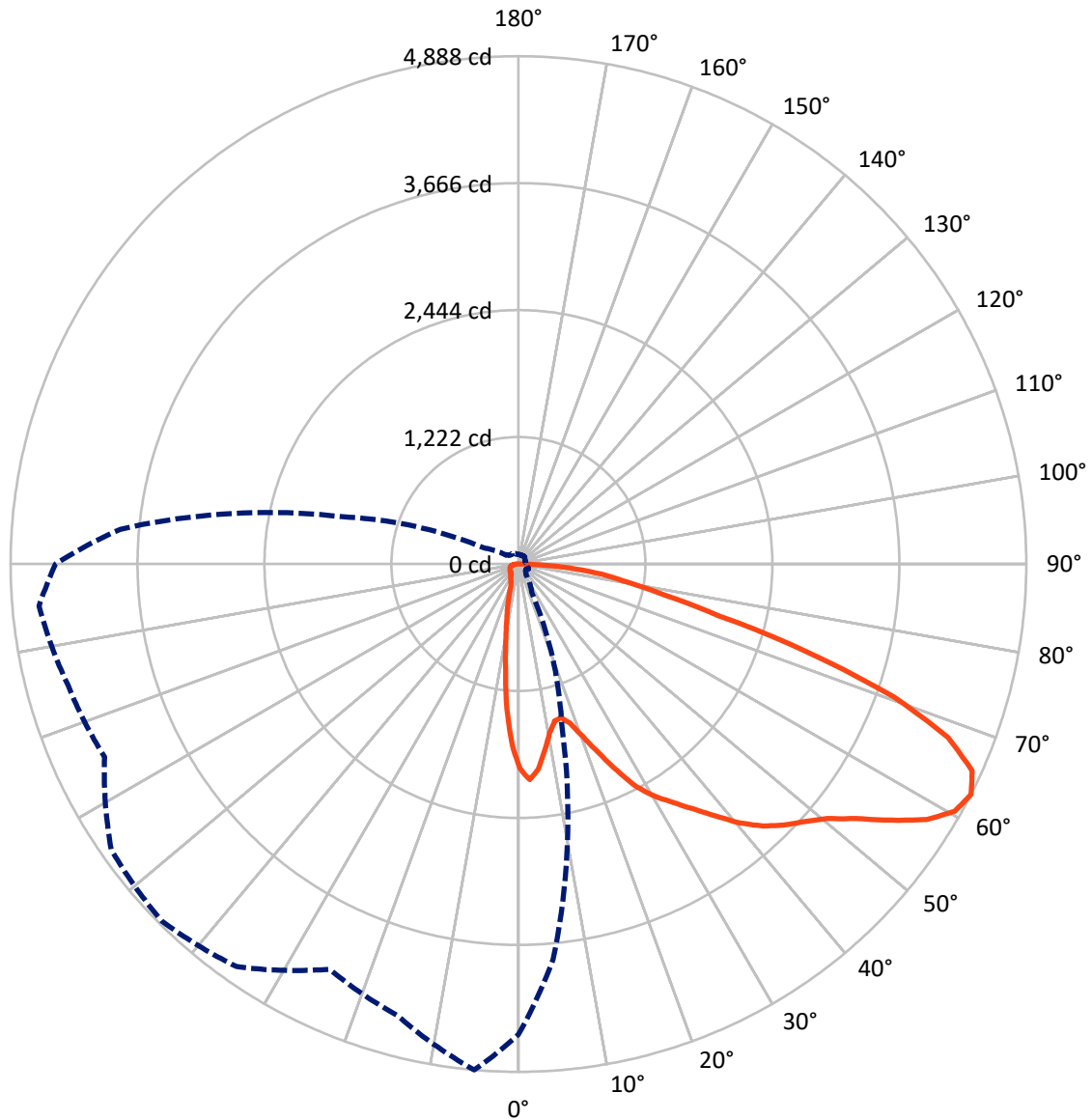
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P197186
CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P197186

CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1024.6 | 0.0 | 1024.6 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 4759.4 | 0.0 | 4759.4 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 5784.0 | 0.0 | 5784.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.4 | 2.5 |
| 10°-20° | 261.9 | 4.5 |
| 20°-30° | 376.7 | 6.5 |
| 30°-40° | 577.0 | 10.0 |
| 40°-50° | 843.6 | 14.6 |
| 50°-60° | 1227.4 | 21.2 |
| 60°-70° | 1422.1 | 24.6 |
| 70°-80° | 741.3 | 12.8 |
| 80°-90° | 190.6 | 3.3 |
| 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° | 5784.0 | 100.0 |
| 0°-180° | 5784.0 | 100.0 |



REPORT NUMBER: P197186

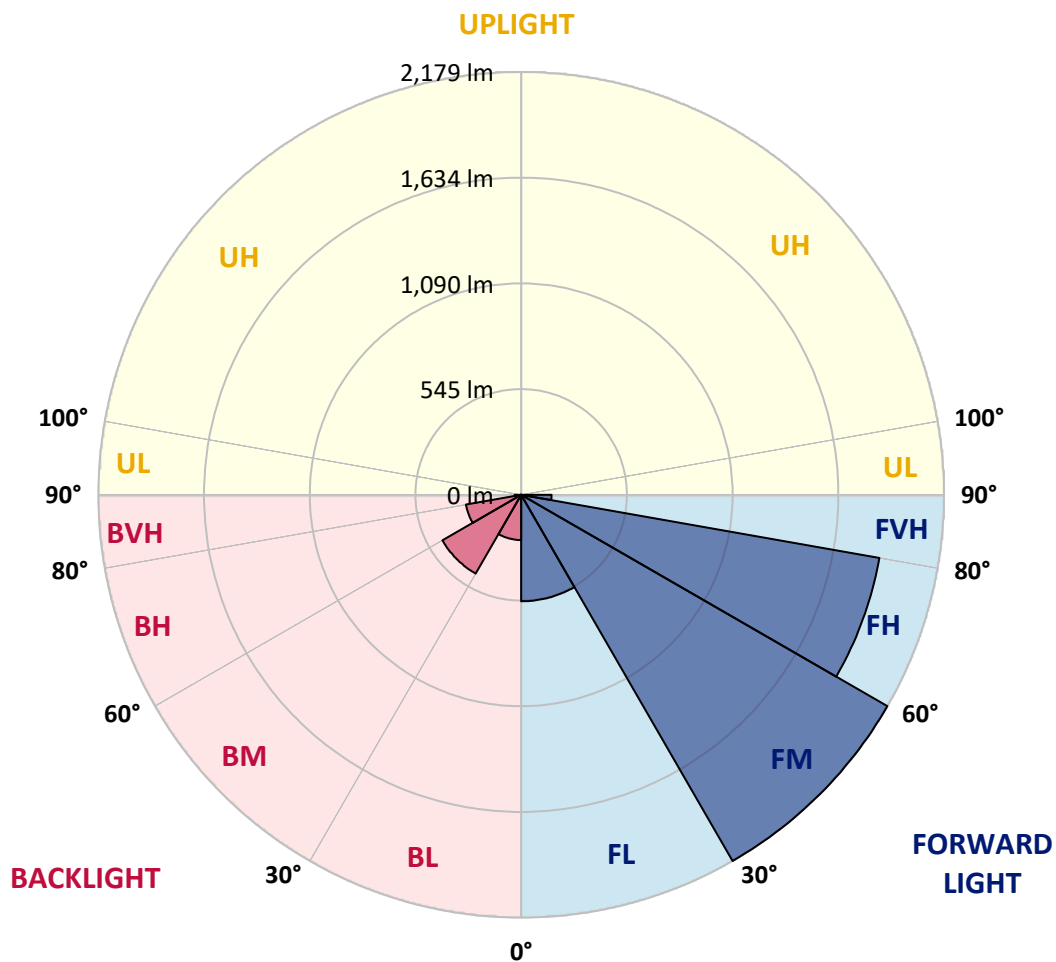
CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 548.9 | 9.5 | | | |
| FM | (30°-60°) | 2179.1 | 37.7 | | | |
| FH | (60°-80°) | 1874.5 | 32.4 | | | G2/5000 |
| FVH | (80°-90°) | 156.8 | 2.7 | | | G2/225 |
| BL | (0°-30°) | 233.1 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 468.8 | 8.1 | B1/1000 | | |
| BH | (60°-80°) | 288.9 | 5.0 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 33.8 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P197186

CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 |
| 2.5° | 2035.6 | 2007.1 | 1941.3 | 1883.4 | 1811.3 | 1757.2 | 1691.3 | 1656.5 | 1630.9 | 1613.7 | 1599.9 |
| 5° | 1901.4 | 1832.6 | 1706.8 | 1596.5 | 1477.4 | 1391.5 | 1290.8 | 1235.9 | 1201.9 | 1183.5 | 1175.1 |
| 7.5° | 1702.2 | 1611.2 | 1448.5 | 1300.5 | 1151.6 | 1044.2 | 967.9 | 886.5 | 843.4 | 815.3 | 806.0 |
| 10° | 1528.2 | 1425.4 | 1231.3 | 1064.8 | 949.9 | 873.5 | 808.1 | 733.5 | 678.1 | 629.9 | 611.9 |
| 12.5° | 1427.1 | 1307.6 | 1086.2 | 935.6 | 839.2 | 757.4 | 688.2 | 607.7 | 549.4 | 499.1 | 479.8 |
| 15° | 1405.7 | 1272.4 | 1025.4 | 853.4 | 735.2 | 636.6 | 553.6 | 465.9 | 408.9 | 367.4 | 353.9 |
| 17.5° | 1470.3 | 1305.9 | 999.8 | 778.4 | 635.8 | 515.4 | 413.1 | 319.1 | 271.8 | 249.1 | 243.7 |
| 20° | 1603.3 | 1379.7 | 987.6 | 710.8 | 539.3 | 396.7 | 285.6 | 216.8 | 193.3 | 186.6 | 186.2 |
| 22.5° | 1778.1 | 1499.7 | 1001.0 | 655.5 | 448.7 | 292.7 | 209.3 | 178.2 | 168.6 | 164.8 | 164.8 |
| 25° | 1975.7 | 1662.0 | 1036.7 | 613.1 | 369.0 | 227.7 | 180.3 | 163.6 | 155.6 | 151.8 | 152.2 |
| 27.5° | 2217.2 | 1859.5 | 1085.3 | 574.1 | 312.0 | 199.6 | 168.6 | 154.3 | 146.4 | 142.6 | 143.0 |
| 30° | 2399.2 | 2029.3 | 1127.3 | 538.5 | 282.7 | 188.3 | 162.3 | 148.9 | 140.1 | 134.6 | 134.2 |
| 32.5° | 2569.5 | 2179.0 | 1161.2 | 512.9 | 265.9 | 168.2 | 146.8 | 136.7 | 129.2 | 122.9 | 121.6 |
| 35° | 2757.8 | 2320.0 | 1177.2 | 512.1 | 255.0 | 151.8 | 134.2 | 122.0 | 114.5 | 107.4 | 106.1 |
| 37.5° | 2971.2 | 2492.3 | 1190.6 | 517.1 | 249.1 | 141.3 | 128.3 | 116.6 | 110.3 | 103.2 | 101.5 |
| 40° | 3193.5 | 2660.9 | 1201.1 | 521.3 | 248.3 | 134.2 | 123.7 | 113.2 | 106.9 | 99.4 | 97.7 |
| 42.5° | 3384.3 | 2810.2 | 1215.3 | 519.6 | 242.4 | 132.9 | 120.8 | 110.3 | 104.4 | 96.9 | 94.8 |
| 45° | 3537.0 | 2928.9 | 1237.6 | 519.2 | 233.6 | 135.9 | 119.9 | 109.5 | 102.3 | 94.4 | 92.7 |
| 47.5° | 3679.1 | 3062.7 | 1284.5 | 517.5 | 223.9 | 135.0 | 124.6 | 108.6 | 101.5 | 93.5 | 92.3 |
| 50° | 3841.9 | 3242.6 | 1364.6 | 504.9 | 210.5 | 129.2 | 132.9 | 107.8 | 99.4 | 92.3 | 91.0 |
| 52.5° | 4068.3 | 3505.9 | 1483.3 | 482.3 | 192.1 | 122.9 | 134.2 | 107.4 | 96.0 | 89.7 | 88.1 |
| 55° | 4334.6 | 3788.2 | 1611.2 | 449.6 | 167.7 | 112.0 | 127.5 | 105.7 | 92.7 | 86.0 | 83.5 |
| 57.5° | 4540.5 | 3996.6 | 1700.5 | 402.6 | 143.8 | 105.7 | 113.6 | 101.9 | 88.5 | 81.8 | 79.7 |
| 60° | 4598.4 | 4005.8 | 1716.5 | 346.4 | 131.7 | 101.5 | 97.7 | 111.1 | 85.1 | 78.0 | 75.9 |
| 62.5° | 4529.2 | 3822.6 | 1612.5 | 307.0 | 127.5 | 97.3 | 88.9 | 106.1 | 81.8 | 74.6 | 72.6 |
| 65° | 4324.1 | 3513.1 | 1379.7 | 301.1 | 131.7 | 93.5 | 84.3 | 84.7 | 78.4 | 71.3 | 69.2 |
| 67.5° | 3845.2 | 3057.6 | 1087.0 | 304.9 | 136.7 | 89.7 | 80.9 | 77.2 | 74.6 | 68.4 | 65.8 |
| 70° | 3127.2 | 2461.7 | 856.4 | 311.6 | 141.3 | 84.7 | 76.7 | 72.1 | 70.0 | 63.3 | 62.1 |
| 72.5° | 2408.9 | 1970.2 | 675.6 | 307.0 | 145.9 | 79.7 | 70.9 | 67.1 | 64.6 | 58.3 | 57.0 |
| 75° | 1710.6 | 1565.5 | 496.5 | 263.4 | 133.8 | 72.6 | 64.2 | 60.8 | 58.7 | 52.0 | 51.6 |
| 77.5° | 1232.9 | 1172.6 | 345.6 | 197.9 | 105.7 | 63.7 | 56.6 | 53.7 | 52.4 | 44.9 | 44.9 |
| 80° | 983.4 | 892.4 | 206.7 | 129.2 | 77.2 | 52.8 | 47.4 | 46.1 | 44.9 | 37.3 | 37.7 |
| 82.5° | 706.6 | 619.0 | 132.1 | 80.5 | 56.6 | 40.3 | 36.9 | 36.5 | 34.4 | 27.7 | 27.7 |
| 85° | 362.3 | 316.2 | 84.7 | 54.1 | 39.8 | 26.0 | 24.3 | 23.5 | 22.2 | 17.2 | 17.2 |
| 87.5° | 70.5 | 96.9 | 47.0 | 26.4 | 19.3 | 9.2 | 9.2 | 8.0 | 9.2 | 6.3 | 6.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P197186

CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 |
| 2.5° | 1626.3 | 1617.9 | 1612.1 | 1609.1 | 1651.5 | 1669.1 | 1689.2 | 1718.2 | 1737.9 | 1729.5 | 1756.3 |
| 5° | 1214.5 | 1220.4 | 1233.8 | 1254.8 | 1313.9 | 1342.0 | 1360.0 | 1383.9 | 1401.1 | 1383.9 | 1412.4 |
| 7.5° | 830.4 | 839.2 | 867.7 | 910.9 | 982.2 | 1013.6 | 1019.9 | 1020.3 | 1016.6 | 988.5 | 1007.7 |
| 10° | 611.4 | 593.8 | 600.1 | 631.2 | 694.9 | 723.0 | 725.9 | 718.4 | 717.1 | 705.8 | 727.6 |
| 12.5° | 473.9 | 449.6 | 435.3 | 440.3 | 488.1 | 511.2 | 515.0 | 519.2 | 536.4 | 541.8 | 568.7 |
| 15° | 353.5 | 340.9 | 330.5 | 325.9 | 357.3 | 375.3 | 377.4 | 387.5 | 405.5 | 410.6 | 433.6 |
| 17.5° | 248.7 | 252.0 | 257.5 | 259.6 | 282.2 | 294.0 | 290.6 | 290.6 | 293.6 | 292.3 | 305.3 |
| 20° | 190.0 | 196.7 | 207.2 | 217.2 | 237.8 | 244.5 | 236.1 | 225.6 | 218.9 | 215.6 | 218.5 |
| 22.5° | 167.7 | 172.4 | 179.1 | 192.1 | 209.3 | 212.6 | 201.7 | 193.3 | 187.0 | 183.7 | 184.1 |
| 25° | 155.6 | 160.2 | 165.7 | 176.1 | 190.8 | 192.5 | 182.4 | 177.0 | 171.9 | 168.6 | 167.7 |
| 27.5° | 145.1 | 148.0 | 151.4 | 158.1 | 173.2 | 174.0 | 167.3 | 164.0 | 160.6 | 158.1 | 157.3 |
| 30° | 135.5 | 136.7 | 138.0 | 144.7 | 156.0 | 157.3 | 153.9 | 152.2 | 151.0 | 149.3 | 149.3 |
| 32.5° | 122.9 | 124.6 | 126.6 | 132.5 | 143.4 | 145.1 | 143.0 | 141.7 | 139.7 | 138.8 | 137.6 |
| 35° | 107.8 | 112.0 | 116.6 | 123.7 | 135.5 | 136.3 | 133.8 | 130.0 | 125.0 | 123.7 | 122.9 |
| 37.5° | 101.5 | 102.3 | 108.2 | 116.6 | 128.7 | 129.6 | 126.2 | 119.9 | 116.2 | 116.6 | 117.4 |
| 40° | 97.3 | 98.6 | 101.9 | 110.3 | 122.5 | 123.7 | 120.8 | 116.2 | 112.4 | 112.8 | 114.1 |
| 42.5° | 93.9 | 95.6 | 97.7 | 103.2 | 115.3 | 117.8 | 117.0 | 112.8 | 109.0 | 109.9 | 111.6 |
| 45° | 92.3 | 93.5 | 93.5 | 97.3 | 109.0 | 112.8 | 113.2 | 109.9 | 106.9 | 107.8 | 109.9 |
| 47.5° | 91.4 | 91.4 | 90.2 | 93.1 | 104.8 | 108.6 | 109.5 | 107.8 | 106.1 | 106.9 | 109.0 |
| 50° | 90.2 | 88.5 | 87.2 | 89.7 | 101.5 | 104.8 | 105.7 | 104.4 | 105.3 | 106.9 | 108.2 |
| 52.5° | 86.4 | 84.7 | 84.7 | 86.4 | 98.1 | 101.5 | 101.9 | 101.1 | 102.7 | 104.8 | 106.9 |
| 55° | 81.8 | 81.8 | 82.2 | 83.9 | 96.5 | 99.0 | 98.6 | 97.7 | 99.4 | 101.9 | 104.0 |
| 57.5° | 77.6 | 77.2 | 79.3 | 81.4 | 94.4 | 96.0 | 95.2 | 95.2 | 96.5 | 98.6 | 100.6 |
| 60° | 75.1 | 73.0 | 74.6 | 78.0 | 92.3 | 93.9 | 92.7 | 92.3 | 94.4 | 96.0 | 97.7 |
| 62.5° | 72.6 | 70.5 | 71.7 | 75.1 | 89.3 | 90.6 | 89.7 | 89.7 | 91.8 | 93.1 | 94.8 |
| 65° | 68.8 | 67.9 | 68.8 | 72.1 | 86.8 | 87.2 | 87.2 | 87.6 | 89.3 | 90.2 | 91.8 |
| 67.5° | 65.4 | 65.4 | 65.8 | 69.2 | 84.7 | 83.9 | 83.9 | 86.0 | 86.4 | 87.2 | 88.9 |
| 70° | 61.2 | 62.1 | 62.1 | 66.3 | 83.0 | 80.1 | 80.5 | 82.2 | 83.0 | 83.9 | 84.3 |
| 72.5° | 56.6 | 57.0 | 57.9 | 63.3 | 80.5 | 76.3 | 76.7 | 78.0 | 78.4 | 79.7 | 80.1 |
| 75° | 51.6 | 52.0 | 53.3 | 60.4 | 78.8 | 72.6 | 71.7 | 72.6 | 73.4 | 74.2 | 73.8 |
| 77.5° | 45.7 | 46.6 | 47.8 | 58.7 | 73.4 | 71.7 | 65.4 | 66.3 | 67.1 | 67.1 | 66.7 |
| 80° | 38.6 | 39.8 | 41.9 | 56.2 | 62.1 | 69.2 | 58.3 | 58.7 | 59.1 | 59.1 | 58.3 |
| 82.5° | 28.9 | 31.5 | 34.4 | 46.6 | 48.6 | 59.1 | 50.3 | 51.2 | 49.9 | 49.1 | 48.6 |
| 85° | 18.9 | 21.0 | 25.2 | 32.3 | 35.6 | 46.6 | 41.5 | 41.9 | 39.4 | 39.0 | 39.0 |
| 87.5° | 7.5 | 8.0 | 11.3 | 16.4 | 21.4 | 28.9 | 29.8 | 30.6 | 28.5 | 28.5 | 29.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P197186

CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 |
| 2.5° | 1797.0 | 1838.9 | 1887.2 | 1936.2 | 1976.5 | 2028.5 | 2078.8 | 2132.5 | 2159.8 | 2175.7 | 2220.6 |
| 5° | 1456.9 | 1514.3 | 1582.7 | 1659.4 | 1723.2 | 1832.2 | 1949.7 | 2080.5 | 2143.4 | 2205.5 | 2322.9 |
| 7.5° | 1042.1 | 1098.3 | 1178.0 | 1277.4 | 1368.0 | 1511.8 | 1666.6 | 1843.6 | 1930.8 | 2031.4 | 2223.9 |
| 10° | 773.7 | 833.3 | 905.4 | 989.7 | 1079.0 | 1228.8 | 1402.4 | 1601.2 | 1697.2 | 1810.8 | 2029.8 |
| 12.5° | 627.4 | 697.0 | 771.6 | 847.1 | 923.9 | 1024.5 | 1206.5 | 1427.5 | 1530.7 | 1645.2 | 1864.5 |
| 15° | 489.4 | 564.1 | 644.6 | 726.8 | 803.1 | 915.5 | 1101.3 | 1362.5 | 1480.4 | 1591.1 | 1770.6 |
| 17.5° | 346.4 | 416.9 | 507.4 | 607.2 | 718.0 | 850.9 | 1078.6 | 1391.1 | 1534.1 | 1649.8 | 1770.2 |
| 20° | 236.1 | 284.8 | 375.3 | 493.6 | 630.3 | 798.9 | 1087.0 | 1491.3 | 1669.9 | 1797.0 | 1842.7 |
| 22.5° | 188.7 | 211.8 | 273.0 | 393.4 | 554.8 | 761.2 | 1121.4 | 1628.8 | 1864.9 | 2019.7 | 1974.8 |
| 25° | 171.5 | 184.5 | 216.4 | 310.8 | 487.7 | 736.0 | 1188.5 | 1810.4 | 2083.4 | 2240.3 | 2133.8 |
| 27.5° | 161.0 | 172.4 | 192.9 | 255.4 | 429.9 | 719.6 | 1273.6 | 2024.3 | 2329.6 | 2458.4 | 2299.4 |
| 30° | 154.3 | 165.7 | 184.5 | 229.4 | 386.2 | 695.3 | 1348.3 | 2219.7 | 2526.3 | 2609.7 | 2388.7 |
| 32.5° | 141.3 | 150.1 | 165.7 | 205.5 | 353.5 | 666.8 | 1412.9 | 2394.6 | 2712.1 | 2739.7 | 2496.1 |
| 35° | 127.9 | 137.1 | 152.7 | 186.2 | 334.2 | 644.6 | 1446.8 | 2549.8 | 2896.2 | 2869.8 | 2602.6 |
| 37.5° | 122.9 | 130.4 | 144.7 | 172.4 | 323.8 | 629.9 | 1459.8 | 2702.4 | 3093.7 | 3013.6 | 2676.8 |
| 40° | 119.5 | 126.2 | 138.8 | 163.1 | 320.8 | 616.1 | 1456.9 | 2847.5 | 3285.3 | 3162.5 | 2735.1 |
| 42.5° | 117.0 | 122.9 | 134.6 | 156.8 | 312.9 | 603.1 | 1447.2 | 2972.9 | 3438.8 | 3290.8 | 2790.9 |
| 45° | 114.9 | 121.2 | 132.9 | 160.2 | 298.2 | 588.8 | 1441.4 | 3087.4 | 3556.7 | 3399.0 | 2865.6 |
| 47.5° | 114.1 | 121.2 | 133.4 | 159.4 | 282.2 | 572.9 | 1462.3 | 3214.5 | 3659.4 | 3490.0 | 2965.0 |
| 50° | 112.8 | 120.8 | 142.6 | 151.8 | 260.4 | 553.1 | 1533.2 | 3365.9 | 3767.2 | 3592.3 | 3093.7 |
| 52.5° | 110.7 | 120.4 | 152.2 | 145.9 | 232.3 | 525.9 | 1648.1 | 3579.7 | 3953.4 | 3791.5 | 3284.1 |
| 55° | 108.2 | 121.2 | 145.5 | 136.7 | 202.6 | 490.7 | 1763.0 | 3872.9 | 4255.4 | 4112.8 | 3557.5 |
| 57.5° | 105.3 | 119.9 | 137.6 | 128.3 | 177.8 | 446.2 | 1850.3 | 4113.2 | 4504.5 | 4444.1 | 3893.4 |
| 60° | 103.2 | 122.9 | 123.7 | 123.3 | 161.9 | 403.9 | 1858.7 | 4097.7 | 4576.2 | 4659.2 | 4222.2 |
| 62.5° | 100.6 | 125.4 | 112.8 | 119.5 | 153.9 | 364.4 | 1755.1 | 3844.0 | 4455.0 | 4631.5 | 4490.2 |
| 65° | 97.3 | 109.5 | 106.9 | 116.2 | 153.9 | 343.5 | 1513.9 | 3421.6 | 4119.9 | 4369.8 | 4635.7 |
| 67.5° | 93.9 | 99.4 | 102.7 | 111.6 | 157.3 | 323.8 | 1216.6 | 2886.1 | 3591.5 | 3947.5 | 4472.2 |
| 70° | 89.3 | 93.9 | 98.1 | 107.4 | 155.6 | 309.9 | 957.4 | 2313.2 | 2955.7 | 3363.4 | 4019.7 |
| 72.5° | 85.1 | 88.5 | 92.7 | 101.1 | 155.6 | 303.6 | 769.1 | 1814.6 | 2256.6 | 2600.1 | 3329.8 |
| 75° | 78.8 | 81.8 | 85.6 | 94.8 | 152.7 | 277.6 | 577.5 | 1454.0 | 1651.1 | 1866.2 | 2627.4 |
| 77.5° | 72.6 | 74.6 | 77.6 | 86.8 | 137.6 | 231.9 | 408.5 | 1126.0 | 1223.3 | 1342.4 | 2048.2 |
| 80° | 64.6 | 66.3 | 68.4 | 77.6 | 114.1 | 179.9 | 265.9 | 880.7 | 914.6 | 972.1 | 1347.4 |
| 82.5° | 55.4 | 57.9 | 58.3 | 66.7 | 91.8 | 130.4 | 158.1 | 603.5 | 603.1 | 687.3 | 950.7 |
| 85° | 45.3 | 46.6 | 47.4 | 52.4 | 67.9 | 86.8 | 104.0 | 329.6 | 294.0 | 411.8 | 825.7 |
| 87.5° | 34.0 | 32.7 | 34.0 | 35.2 | 44.9 | 51.2 | 55.8 | 60.8 | 36.5 | 74.6 | 480.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P197186

CATALOG NUMBER: NAV-AF-02-D-UNV-SLR-8030-600

CANDELA DISTRIBUTION (continued):

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 | 1971.9 |
| 2.5° | 2244.5 | 2269.2 | 2254.5 | 2236.9 | 2192.9 | 2128.3 | 2078.8 | 2035.6 |
| 5° | 2404.3 | 2450.0 | 2429.8 | 2364.4 | 2250.3 | 2120.8 | 1984.5 | 1901.4 |
| 7.5° | 2384.1 | 2474.7 | 2466.7 | 2357.7 | 2194.1 | 2003.3 | 1811.7 | 1702.2 |
| 10° | 2223.1 | 2350.2 | 2372.0 | 2260.4 | 2087.2 | 1873.7 | 1651.9 | 1528.2 |
| 12.5° | 2047.8 | 2154.7 | 2199.2 | 2156.8 | 1993.7 | 1776.9 | 1550.8 | 1427.1 |
| 15° | 1901.0 | 1955.1 | 1999.1 | 2026.4 | 1925.3 | 1742.5 | 1533.2 | 1405.7 |
| 17.5° | 1792.4 | 1781.9 | 1818.8 | 1884.2 | 1888.4 | 1788.2 | 1612.9 | 1470.3 |
| 20° | 1740.0 | 1657.8 | 1679.2 | 1771.0 | 1878.4 | 1904.4 | 1771.8 | 1603.3 |
| 22.5° | 1737.0 | 1608.7 | 1612.9 | 1711.9 | 1907.3 | 2062.9 | 1970.2 | 1778.1 |
| 25° | 1782.3 | 1603.3 | 1607.0 | 1705.6 | 1958.5 | 2222.7 | 2199.6 | 1975.7 |
| 27.5° | 1859.5 | 1626.7 | 1624.2 | 1733.3 | 2026.8 | 2356.0 | 2431.1 | 2217.2 |
| 30° | 1942.9 | 1660.7 | 1654.4 | 1777.7 | 2093.9 | 2438.2 | 2595.5 | 2399.2 |
| 32.5° | 2046.9 | 1721.1 | 1699.3 | 1842.7 | 2160.2 | 2517.1 | 2736.0 | 2569.5 |
| 35° | 2145.9 | 1809.6 | 1778.1 | 1935.8 | 2231.1 | 2604.7 | 2893.2 | 2757.8 |
| 37.5° | 2247.0 | 1941.7 | 1924.1 | 2070.0 | 2331.3 | 2699.9 | 3073.1 | 2971.2 |
| 40° | 2376.6 | 2129.6 | 2121.2 | 2265.0 | 2465.1 | 2803.9 | 3274.9 | 3193.5 |
| 42.5° | 2516.2 | 2329.2 | 2322.1 | 2489.0 | 2631.1 | 2908.3 | 3447.6 | 3384.3 |
| 45° | 2658.4 | 2571.2 | 2572.8 | 2728.0 | 2806.0 | 3006.9 | 3583.5 | 3537.0 |
| 47.5° | 2826.1 | 2835.8 | 2895.8 | 2975.9 | 2976.3 | 3116.8 | 3703.9 | 3679.1 |
| 50° | 3039.2 | 3155.3 | 3266.1 | 3278.6 | 3148.2 | 3261.9 | 3851.1 | 3841.9 |
| 52.5° | 3280.3 | 3524.0 | 3652.7 | 3612.9 | 3316.0 | 3441.8 | 4068.7 | 4068.3 |
| 55° | 3566.7 | 3909.4 | 4030.6 | 3962.6 | 3516.8 | 3676.2 | 4353.1 | 4334.6 |
| 57.5° | 3863.7 | 4280.1 | 4377.8 | 4289.3 | 3768.0 | 3949.2 | 4638.2 | 4540.5 |
| 60° | 4184.5 | 4599.2 | 4698.6 | 4565.7 | 4049.9 | 4221.4 | 4827.0 | 4598.4 |
| 62.5° | 4394.6 | 4785.9 | 4857.2 | 4729.7 | 4302.3 | 4498.6 | 4887.8 | 4529.2 |
| 65° | 4405.5 | 4661.7 | 4680.6 | 4635.3 | 4409.7 | 4739.3 | 4799.7 | 4324.1 |
| 67.5° | 4106.1 | 4121.2 | 4145.9 | 4194.5 | 4180.3 | 4631.9 | 4460.0 | 3845.2 |
| 70° | 3465.7 | 3264.4 | 3345.7 | 3392.7 | 3498.4 | 4119.9 | 3832.2 | 3127.2 |
| 72.5° | 2650.0 | 2356.0 | 2448.3 | 2432.3 | 2652.1 | 3379.3 | 2931.8 | 2408.9 |
| 75° | 1907.3 | 1606.6 | 1613.7 | 1614.6 | 1905.6 | 2697.4 | 1999.1 | 1710.6 |
| 77.5° | 1296.3 | 1136.9 | 1160.4 | 1145.7 | 1275.3 | 2113.2 | 1439.3 | 1232.9 |
| 80° | 886.5 | 882.4 | 887.4 | 853.0 | 850.5 | 1365.9 | 1065.6 | 983.4 |
| 82.5° | 657.6 | 607.7 | 600.5 | 564.1 | 651.7 | 1044.2 | 809.0 | 706.6 |
| 85° | 518.8 | 336.3 | 292.3 | 352.7 | 564.5 | 960.8 | 493.2 | 362.3 |
| 87.5° | 219.8 | 132.1 | 80.1 | 158.5 | 313.7 | 704.1 | 136.7 | 70.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)