

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: P197178

Luminaire Tested: **NAV-AF-06-D-UNV-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197178
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-06-D-UNV-SLL-8030
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25961 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

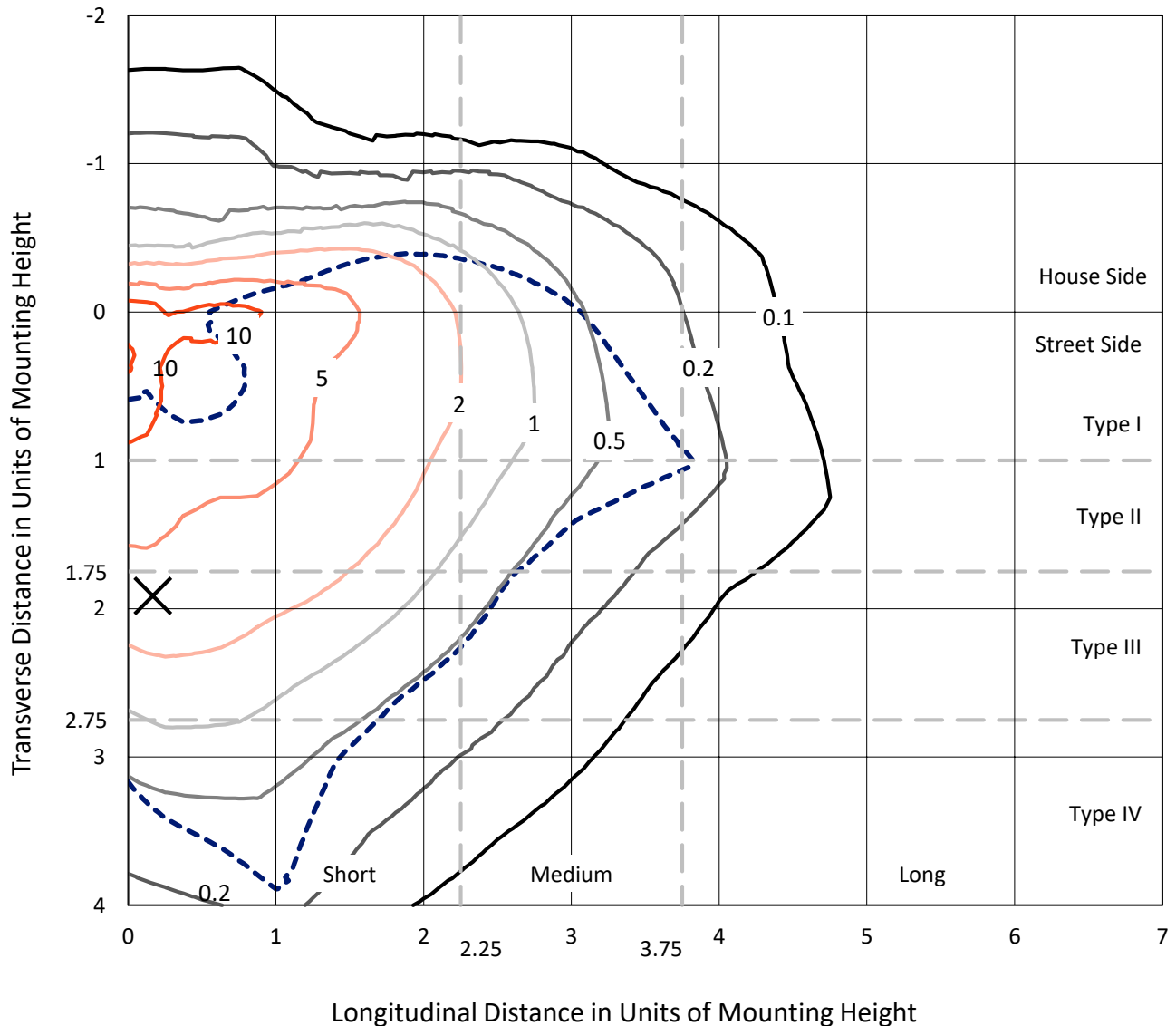
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

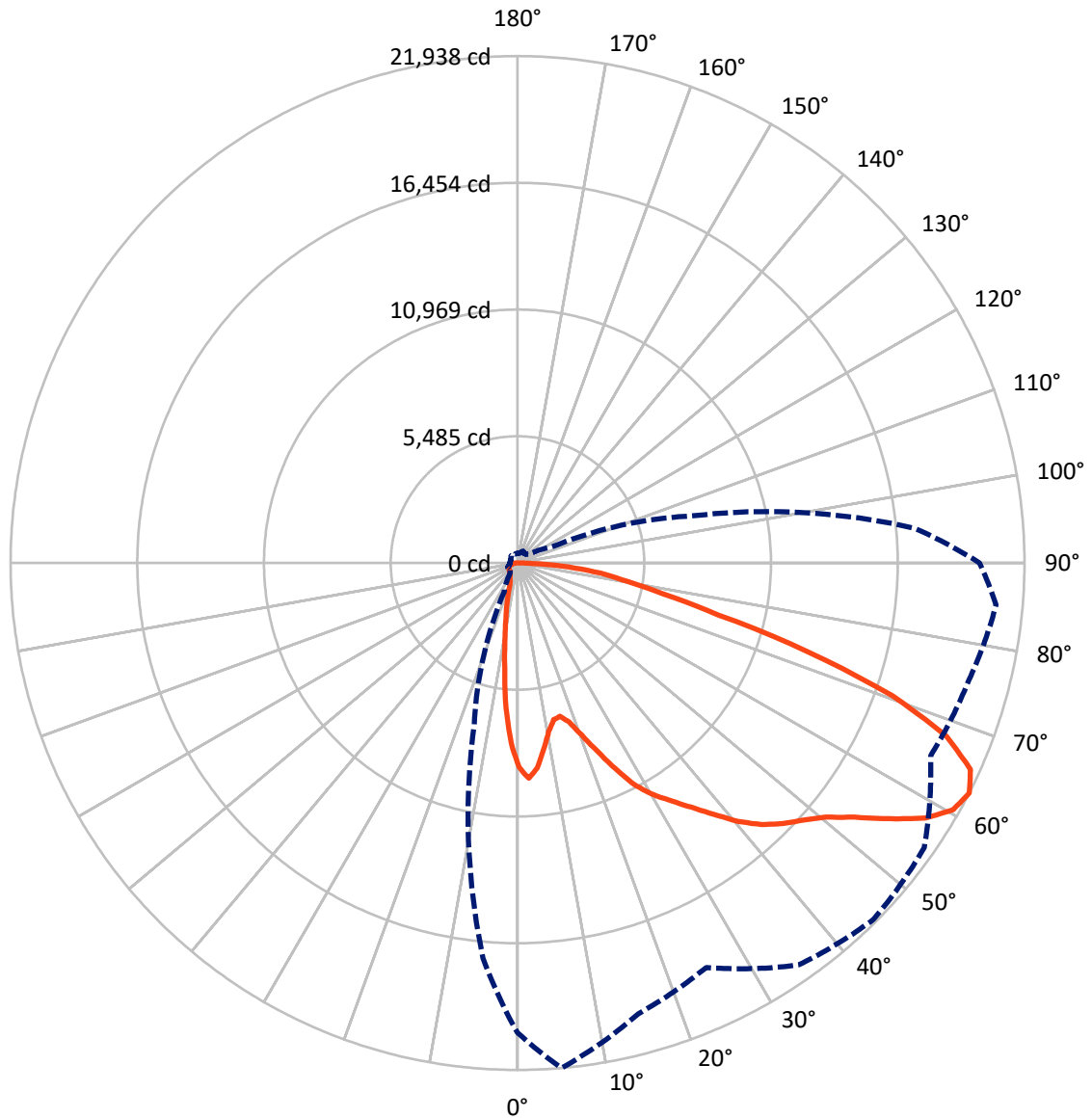
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4599.0 | 0.0 | 4599.0 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 21362.0 | 0.0 | 21362.0 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 25961.0 | 0.0 | 25961.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 643.7 | 2.5 |
| 10°-20° | 1175.6 | 4.5 |
| 20°-30° | 1690.9 | 6.5 |
| 30°-40° | 2589.8 | 10.0 |
| 40°-50° | 3786.3 | 14.6 |
| 50°-60° | 5509.1 | 21.2 |
| 60°-70° | 6383.0 | 24.6 |
| 70°-80° | 3327.4 | 12.8 |
| 80°-90° | 855.3 | 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° | 25961.0 | 100.0 |
| 0°-180° | 25961.0 | 100.0 |

Coefficient of Utilization



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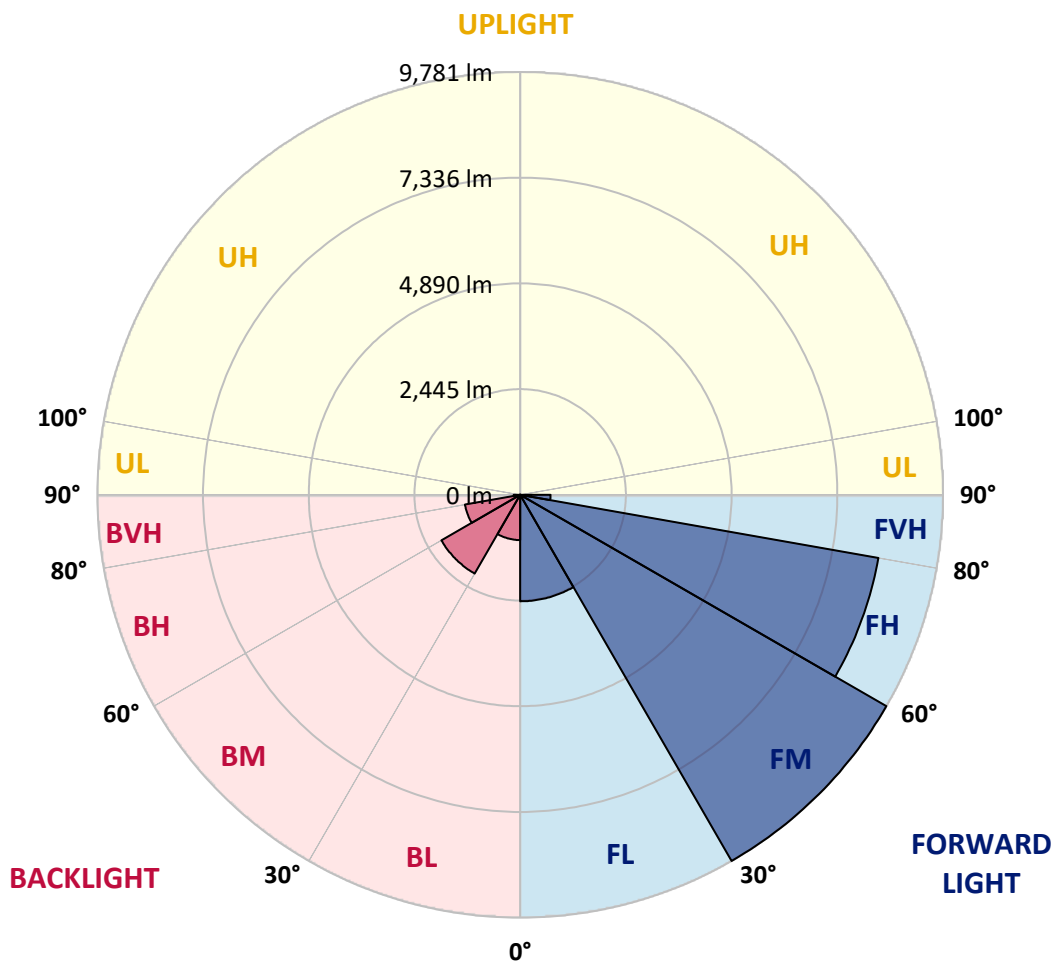
CATALOG NUMBER: NAV-AF-06-D-UNV-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2463.8 | 9.5 | | | |
| FM | (30°-60°) | 9780.9 | 37.7 | | | |
| FH | (60°-80°) | 8413.6 | 32.4 | | | G4/12000 |
| FVH | (80°-90°) | 703.6 | 2.7 | | | G4/750 |
| BL | (0°-30°) | 1046.4 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 2104.2 | 8.1 | B2/2500 | | |
| BH | (60°-80°) | 1296.8 | 5.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 151.7 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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 CATALOG NUMBER: NAV-AF-06-D-UNV-SLL-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 |
| 2.5° | 9136.7 | 9330.6 | 9552.7 | 9842.6 | 10040.2 | 10119.3 | 10185.2 | 10074.1 | 9966.8 | 9765.4 | 9693.9 |
| 5° | 8534.4 | 8907.1 | 9518.8 | 10100.5 | 10612.5 | 10906.1 | 10996.5 | 10791.3 | 10426.1 | 9899.1 | 9620.5 |
| 7.5° | 7640.3 | 8131.6 | 8991.8 | 9848.2 | 10582.3 | 11071.7 | 11107.5 | 10700.9 | 9981.9 | 9117.9 | 8666.2 |
| 10° | 6859.1 | 7414.4 | 8410.2 | 9368.3 | 10145.7 | 10646.3 | 10548.5 | 9978.1 | 9110.4 | 8127.8 | 7617.7 |
| 12.5° | 6405.5 | 6960.8 | 7975.3 | 8948.5 | 9680.7 | 9870.8 | 9671.3 | 9191.3 | 8368.8 | 7384.3 | 6870.4 |
| 15° | 6309.5 | 6881.7 | 7821.0 | 8641.7 | 9095.3 | 8973.0 | 8775.3 | 8532.5 | 7947.1 | 7141.5 | 6644.6 |
| 17.5° | 6599.4 | 7239.4 | 8026.2 | 8476.0 | 8457.2 | 8163.6 | 7997.9 | 8045.0 | 7945.2 | 7405.0 | 6885.5 |
| 20° | 7196.1 | 7952.8 | 8547.6 | 8430.9 | 7949.0 | 7536.8 | 7440.8 | 7809.7 | 8270.9 | 8065.7 | 7495.4 |
| 22.5° | 7981.0 | 8843.1 | 9259.1 | 8560.7 | 7683.6 | 7239.4 | 7220.5 | 7796.5 | 8863.8 | 9065.2 | 8370.6 |
| 25° | 8867.6 | 9872.7 | 9976.2 | 8790.4 | 7655.4 | 7213.0 | 7196.1 | 7999.8 | 9577.2 | 10055.3 | 9351.3 |
| 27.5° | 9951.8 | 10911.8 | 10574.8 | 9097.2 | 7779.6 | 7290.2 | 7301.5 | 8346.2 | 10320.7 | 11034.1 | 10456.2 |
| 30° | 10768.7 | 11649.6 | 10943.8 | 9398.4 | 7979.1 | 7425.7 | 7453.9 | 8720.7 | 10721.6 | 11713.6 | 11339.0 |
| 32.5° | 11532.9 | 12280.2 | 11297.6 | 9695.8 | 8270.9 | 7627.1 | 7725.0 | 9187.6 | 11203.5 | 12297.1 | 12172.9 |
| 35° | 12378.1 | 12986.1 | 11691.0 | 10013.9 | 8688.7 | 7981.0 | 8122.2 | 9631.8 | 11681.6 | 12880.6 | 12999.2 |
| 37.5° | 13336.2 | 13793.6 | 12118.3 | 10463.8 | 9291.1 | 8636.0 | 8715.1 | 10085.4 | 12014.8 | 13526.3 | 13885.8 |
| 40° | 14333.8 | 14699.0 | 12585.1 | 11064.2 | 10166.4 | 9520.7 | 9558.4 | 10667.1 | 12276.4 | 14194.5 | 14746.0 |
| 42.5° | 15190.2 | 15474.5 | 13053.8 | 11809.6 | 11171.5 | 10422.4 | 10454.4 | 11293.9 | 12526.8 | 14770.5 | 15434.9 |
| 45° | 15875.4 | 16084.3 | 13496.2 | 12594.5 | 12244.4 | 11548.0 | 11540.4 | 11932.0 | 12861.8 | 15256.1 | 15963.9 |
| 47.5° | 16513.5 | 16624.6 | 13989.3 | 13358.8 | 13356.9 | 12997.4 | 12728.2 | 12684.9 | 13307.9 | 15664.6 | 16425.0 |
| 50° | 17243.8 | 17285.3 | 14640.6 | 14130.5 | 14715.9 | 14659.4 | 14162.5 | 13641.1 | 13885.8 | 16123.9 | 16908.8 |
| 52.5° | 18260.3 | 18262.2 | 15448.1 | 14883.4 | 16216.1 | 16394.9 | 15817.1 | 14723.4 | 14740.4 | 17018.0 | 17744.5 |
| 55° | 19455.6 | 19538.4 | 16500.3 | 15785.1 | 17785.9 | 18090.9 | 17546.9 | 16009.0 | 15967.6 | 18459.8 | 19099.8 |
| 57.5° | 20379.8 | 20818.3 | 17725.7 | 16912.6 | 19252.3 | 19649.4 | 19210.9 | 17341.7 | 17475.4 | 19946.8 | 20217.9 |
| 60° | 20639.5 | 21665.4 | 18947.3 | 18177.5 | 20492.7 | 21089.4 | 20643.3 | 18781.7 | 18951.1 | 20912.5 | 20539.8 |
| 62.5° | 20328.9 | 21938.3 | 20191.5 | 19310.6 | 21228.7 | 21800.9 | 21480.9 | 19724.7 | 20153.9 | 20788.2 | 19995.8 |
| 65° | 19408.5 | 21543.0 | 21272.0 | 19792.5 | 20805.2 | 21008.5 | 20923.8 | 19773.7 | 20807.1 | 19613.7 | 18491.8 |
| 67.5° | 17258.9 | 20018.4 | 20790.1 | 18762.9 | 18826.9 | 18608.5 | 18497.5 | 18429.7 | 20073.0 | 17718.2 | 16120.1 |
| 70° | 14036.4 | 17200.5 | 18491.8 | 15702.2 | 15227.9 | 15017.1 | 14651.9 | 15555.4 | 18041.9 | 15096.1 | 13266.5 |
| 72.5° | 10812.0 | 13159.2 | 15167.7 | 11903.7 | 10917.4 | 10988.9 | 10574.8 | 11894.3 | 14945.5 | 11670.3 | 10128.7 |
| 75° | 7677.9 | 8973.0 | 12107.0 | 8553.2 | 7246.9 | 7243.1 | 7211.1 | 8560.7 | 11792.7 | 8376.3 | 7410.7 |
| 77.5° | 5534.0 | 6460.1 | 9485.0 | 5724.1 | 5142.5 | 5208.4 | 5102.9 | 5818.2 | 9193.2 | 6025.3 | 5490.7 |
| 80° | 4414.0 | 4782.9 | 6130.7 | 3817.3 | 3828.6 | 3983.0 | 3960.4 | 3979.2 | 6047.9 | 4363.2 | 4105.3 |
| 82.5° | 3171.7 | 3631.0 | 4687.0 | 2925.1 | 2531.7 | 2695.5 | 2727.5 | 2951.5 | 4267.2 | 3085.1 | 2706.8 |
| 85° | 1626.3 | 2213.6 | 4312.4 | 2533.6 | 1583.0 | 1312.0 | 1509.6 | 2328.4 | 3706.3 | 1848.4 | 1319.5 |
| 87.5° | 316.2 | 613.6 | 3160.4 | 1408.0 | 711.5 | 359.5 | 592.9 | 986.3 | 2155.2 | 335.1 | 163.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: NAV-AF-06-D-UNV-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 |
| 2.5° | 9571.5 | 9330.6 | 9104.7 | 8871.3 | 8690.6 | 8470.4 | 8253.9 | 8065.7 | 7883.1 | 7762.6 | 7800.3 |
| 5° | 9338.1 | 8750.9 | 8223.8 | 7734.4 | 7448.3 | 7103.8 | 6797.0 | 6539.1 | 6339.6 | 6211.6 | 6288.8 |
| 7.5° | 8274.6 | 7480.3 | 6785.7 | 6140.1 | 5733.5 | 5287.4 | 4929.8 | 4677.5 | 4523.2 | 4436.6 | 4562.7 |
| 10° | 7186.7 | 6294.4 | 5515.2 | 4843.2 | 4442.3 | 4063.9 | 3740.2 | 3472.9 | 3265.8 | 3167.9 | 3218.8 |
| 12.5° | 6407.4 | 5415.4 | 4598.5 | 4146.7 | 3802.3 | 3463.5 | 3128.4 | 2815.9 | 2552.4 | 2431.9 | 2407.5 |
| 15° | 6115.6 | 4942.9 | 4109.1 | 3604.6 | 3262.0 | 2893.1 | 2531.7 | 2196.7 | 1946.3 | 1842.8 | 1820.2 |
| 17.5° | 6243.6 | 4841.3 | 3819.2 | 3222.5 | 2725.6 | 2277.6 | 1871.0 | 1554.8 | 1370.3 | 1312.0 | 1317.6 |
| 20° | 6693.5 | 4878.9 | 3585.8 | 2829.1 | 2215.5 | 1684.7 | 1278.1 | 1059.7 | 980.7 | 967.5 | 982.6 |
| 22.5° | 7310.9 | 5033.3 | 3416.4 | 2490.3 | 1765.6 | 1225.4 | 950.6 | 847.0 | 826.3 | 824.5 | 839.5 |
| 25° | 8125.9 | 5334.5 | 3303.5 | 2189.1 | 1394.8 | 971.3 | 828.2 | 769.9 | 752.9 | 756.7 | 771.7 |
| 27.5° | 9085.9 | 5716.6 | 3230.0 | 1929.4 | 1146.3 | 865.9 | 773.6 | 722.8 | 705.9 | 709.6 | 720.9 |
| 30° | 9963.1 | 6051.6 | 3120.9 | 1733.6 | 1029.6 | 828.2 | 743.5 | 692.7 | 670.1 | 670.1 | 677.6 |
| 32.5° | 10748.0 | 6341.5 | 2992.9 | 1586.8 | 922.3 | 743.5 | 673.9 | 634.3 | 617.4 | 623.0 | 626.8 |
| 35° | 11444.4 | 6494.0 | 2893.1 | 1500.2 | 835.7 | 685.2 | 615.5 | 574.1 | 551.5 | 555.3 | 560.9 |
| 37.5° | 12129.6 | 6552.3 | 2827.2 | 1453.1 | 773.6 | 649.4 | 585.4 | 551.5 | 527.0 | 523.3 | 521.4 |
| 40° | 12780.9 | 6539.1 | 2765.1 | 1440.0 | 732.2 | 623.0 | 566.6 | 536.5 | 512.0 | 506.3 | 504.5 |
| 42.5° | 13343.7 | 6495.9 | 2706.8 | 1404.2 | 704.0 | 604.2 | 551.5 | 525.2 | 500.7 | 493.2 | 489.4 |
| 45° | 13857.6 | 6469.5 | 2642.8 | 1338.3 | 719.0 | 596.7 | 544.0 | 515.8 | 493.2 | 483.8 | 480.0 |
| 47.5° | 14427.9 | 6563.6 | 2571.2 | 1266.8 | 715.3 | 598.6 | 544.0 | 512.0 | 489.4 | 480.0 | 476.2 |
| 50° | 15107.4 | 6881.7 | 2482.8 | 1168.9 | 681.4 | 640.0 | 542.1 | 506.3 | 485.6 | 480.0 | 472.5 |
| 52.5° | 16067.4 | 7397.5 | 2360.4 | 1042.8 | 655.0 | 683.3 | 540.2 | 496.9 | 480.0 | 470.6 | 461.2 |
| 55° | 17383.1 | 7913.2 | 2202.3 | 909.2 | 613.6 | 653.2 | 544.0 | 485.6 | 466.8 | 457.4 | 446.1 |
| 57.5° | 18461.7 | 8304.8 | 2002.8 | 798.1 | 576.0 | 617.4 | 538.3 | 472.5 | 451.8 | 442.3 | 432.9 |
| 60° | 18392.1 | 8342.4 | 1812.7 | 726.6 | 553.4 | 555.3 | 551.5 | 463.0 | 438.6 | 431.0 | 423.5 |
| 62.5° | 17253.3 | 7877.5 | 1635.7 | 690.8 | 536.5 | 506.3 | 562.8 | 451.8 | 425.4 | 417.9 | 412.2 |
| 65° | 15357.8 | 6795.1 | 1541.6 | 690.8 | 521.4 | 480.0 | 491.3 | 436.7 | 412.2 | 404.7 | 400.9 |
| 67.5° | 12954.1 | 5460.6 | 1453.1 | 705.9 | 500.7 | 461.2 | 446.1 | 421.6 | 399.0 | 391.5 | 387.8 |
| 70° | 10382.8 | 4297.3 | 1391.0 | 698.3 | 481.9 | 440.5 | 421.6 | 400.9 | 378.3 | 376.5 | 372.7 |
| 72.5° | 8144.8 | 3452.2 | 1362.8 | 698.3 | 453.6 | 416.0 | 397.2 | 382.1 | 359.5 | 357.6 | 352.0 |
| 75° | 6526.0 | 2591.9 | 1246.1 | 685.2 | 425.4 | 384.0 | 367.1 | 353.9 | 331.3 | 333.2 | 329.4 |
| 77.5° | 5054.0 | 1833.4 | 1040.9 | 617.4 | 389.6 | 348.2 | 335.1 | 325.6 | 299.3 | 301.2 | 301.2 |
| 80° | 3952.9 | 1193.4 | 807.5 | 512.0 | 348.2 | 306.8 | 297.4 | 289.9 | 261.6 | 265.4 | 265.4 |
| 82.5° | 2708.6 | 709.6 | 585.4 | 412.2 | 299.3 | 261.6 | 259.8 | 248.5 | 218.3 | 220.2 | 224.0 |
| 85° | 1479.5 | 466.8 | 389.6 | 304.9 | 235.3 | 212.7 | 208.9 | 203.3 | 175.1 | 175.1 | 176.9 |
| 87.5° | 272.9 | 250.3 | 229.6 | 201.4 | 158.1 | 152.5 | 146.8 | 152.5 | 131.8 | 128.0 | 128.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: NAV-AF-06-D-UNV-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 |
| 2.5° | 7711.8 | 7581.9 | 7491.6 | 7412.5 | 7222.4 | 7235.6 | 7262.0 | 7299.6 | 7181.0 | 7243.1 | 7320.3 |
| 5° | 6211.6 | 6104.3 | 6023.4 | 5897.3 | 5631.9 | 5537.8 | 5477.5 | 5451.2 | 5274.2 | 5311.9 | 5394.7 |
| 7.5° | 4579.7 | 4577.8 | 4549.5 | 4408.4 | 4088.4 | 3894.5 | 3766.5 | 3727.0 | 3617.8 | 3659.2 | 3785.3 |
| 10° | 3224.4 | 3258.3 | 3245.1 | 3119.0 | 2832.9 | 2693.6 | 2665.4 | 2744.4 | 2746.3 | 2827.2 | 3043.7 |
| 12.5° | 2330.3 | 2311.5 | 2294.5 | 2191.0 | 1976.4 | 1953.8 | 2017.8 | 2127.0 | 2153.4 | 2239.9 | 2465.8 |
| 15° | 1739.3 | 1694.1 | 1684.7 | 1603.7 | 1462.6 | 1483.3 | 1530.3 | 1586.8 | 1588.7 | 1648.9 | 1835.3 |
| 17.5° | 1304.4 | 1304.4 | 1319.5 | 1266.8 | 1165.1 | 1155.7 | 1131.3 | 1116.2 | 1093.6 | 1118.1 | 1219.7 |
| 20° | 1012.7 | 1059.7 | 1097.4 | 1067.3 | 975.0 | 929.9 | 882.8 | 852.7 | 835.7 | 837.6 | 867.7 |
| 22.5° | 867.7 | 905.4 | 954.3 | 939.3 | 862.1 | 803.7 | 773.6 | 752.9 | 739.7 | 739.7 | 756.7 |
| 25° | 794.3 | 818.8 | 864.0 | 856.5 | 790.6 | 743.5 | 719.0 | 698.3 | 683.3 | 681.4 | 698.3 |
| 27.5° | 736.0 | 751.0 | 781.2 | 777.4 | 709.6 | 679.5 | 664.5 | 651.3 | 641.9 | 640.0 | 656.9 |
| 30° | 683.3 | 690.8 | 705.9 | 700.2 | 649.4 | 619.3 | 613.6 | 608.0 | 602.3 | 604.2 | 628.7 |
| 32.5° | 636.2 | 641.9 | 651.3 | 643.8 | 594.8 | 568.5 | 559.0 | 551.5 | 545.9 | 551.5 | 579.8 |
| 35° | 583.5 | 600.5 | 611.8 | 608.0 | 555.3 | 523.3 | 502.6 | 483.8 | 476.2 | 481.9 | 513.9 |
| 37.5° | 538.3 | 566.6 | 581.6 | 577.9 | 523.3 | 485.6 | 459.3 | 455.5 | 455.5 | 463.0 | 495.0 |
| 40° | 521.4 | 542.1 | 555.3 | 549.6 | 495.0 | 457.4 | 442.3 | 436.7 | 438.6 | 446.1 | 480.0 |
| 42.5° | 506.3 | 525.2 | 528.9 | 517.6 | 463.0 | 438.6 | 429.2 | 421.6 | 425.4 | 434.8 | 468.7 |
| 45° | 493.2 | 508.2 | 506.3 | 489.4 | 436.7 | 419.8 | 419.8 | 414.1 | 416.0 | 423.5 | 459.3 |
| 47.5° | 483.8 | 491.3 | 487.5 | 470.6 | 417.9 | 404.7 | 410.3 | 410.3 | 414.1 | 419.8 | 455.5 |
| 50° | 468.7 | 474.3 | 470.6 | 455.5 | 402.8 | 391.5 | 397.2 | 404.7 | 408.5 | 414.1 | 446.1 |
| 52.5° | 453.6 | 457.4 | 455.5 | 440.5 | 387.8 | 380.2 | 380.2 | 387.8 | 395.3 | 402.8 | 431.0 |
| 55° | 438.6 | 442.3 | 444.2 | 432.9 | 376.5 | 368.9 | 367.1 | 367.1 | 374.6 | 385.9 | 416.0 |
| 57.5° | 427.3 | 427.3 | 431.0 | 423.5 | 365.2 | 355.8 | 346.3 | 348.2 | 357.6 | 367.1 | 397.2 |
| 60° | 414.1 | 416.0 | 421.6 | 414.1 | 350.1 | 335.1 | 327.5 | 336.9 | 340.7 | 350.1 | 382.1 |
| 62.5° | 402.8 | 402.8 | 406.6 | 400.9 | 336.9 | 321.9 | 316.2 | 325.6 | 325.6 | 335.1 | 367.1 |
| 65° | 393.4 | 391.5 | 391.5 | 389.6 | 323.8 | 308.7 | 304.9 | 308.7 | 310.6 | 320.0 | 352.0 |
| 67.5° | 385.9 | 376.5 | 376.5 | 380.2 | 310.6 | 295.5 | 293.6 | 293.6 | 295.5 | 306.8 | 335.1 |
| 70° | 368.9 | 361.4 | 359.5 | 372.7 | 297.4 | 278.6 | 278.6 | 274.8 | 278.6 | 284.2 | 314.3 |
| 72.5° | 350.1 | 344.5 | 342.6 | 361.4 | 284.2 | 259.8 | 256.0 | 254.1 | 256.0 | 261.6 | 289.9 |
| 75° | 325.6 | 321.9 | 325.6 | 353.9 | 271.1 | 239.1 | 233.4 | 231.5 | 231.5 | 233.4 | 263.5 |
| 77.5° | 297.4 | 293.6 | 321.9 | 329.4 | 263.5 | 214.6 | 208.9 | 205.2 | 201.4 | 201.4 | 235.3 |
| 80° | 263.5 | 261.6 | 310.6 | 278.6 | 252.2 | 188.2 | 178.8 | 173.2 | 169.4 | 167.5 | 201.4 |
| 82.5° | 229.6 | 225.9 | 265.4 | 218.3 | 208.9 | 154.3 | 141.2 | 129.9 | 124.2 | 124.2 | 154.3 |
| 85° | 188.2 | 186.3 | 208.9 | 160.0 | 144.9 | 112.9 | 94.1 | 84.7 | 77.2 | 77.2 | 99.8 |
| 87.5° | 137.4 | 133.6 | 129.9 | 96.0 | 73.4 | 50.8 | 35.8 | 33.9 | 30.1 | 28.2 | 41.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 | 8850.6 |
| 2.5° | 7435.1 | 7591.4 | 7886.9 | 8129.7 | 8453.5 | 8713.2 | 9008.7 | 9136.7 |
| 5° | 5547.2 | 5793.8 | 6245.5 | 6631.4 | 7166.0 | 7661.0 | 8225.7 | 8534.4 |
| 7.5° | 3979.2 | 4344.4 | 4687.0 | 5168.8 | 5837.0 | 6501.5 | 7231.8 | 7640.3 |
| 10° | 3292.2 | 3627.2 | 3920.9 | 4263.4 | 4779.2 | 5526.5 | 6398.0 | 6859.1 |
| 12.5° | 2727.5 | 3088.9 | 3399.5 | 3766.5 | 4199.4 | 4875.2 | 5869.0 | 6405.5 |
| 15° | 2091.2 | 2484.6 | 2857.3 | 3299.7 | 3830.5 | 4602.2 | 5710.9 | 6309.5 |
| 17.5° | 1432.4 | 1854.1 | 2313.4 | 2853.6 | 3493.6 | 4487.4 | 5861.5 | 6599.4 |
| 20° | 973.2 | 1281.9 | 1780.7 | 2420.7 | 3190.5 | 4432.8 | 6192.8 | 7196.1 |
| 22.5° | 800.0 | 939.3 | 1313.9 | 2014.1 | 2942.1 | 4493.1 | 6731.1 | 7981.0 |
| 25° | 734.1 | 809.4 | 1022.1 | 1656.4 | 2751.9 | 4653.1 | 7459.6 | 8867.6 |
| 27.5° | 692.7 | 756.7 | 896.0 | 1400.4 | 2576.9 | 4871.4 | 8346.2 | 9951.8 |
| 30° | 668.2 | 728.5 | 845.2 | 1268.7 | 2416.9 | 5059.6 | 9108.5 | 10768.7 |
| 32.5° | 613.6 | 658.8 | 754.8 | 1193.4 | 2302.1 | 5212.1 | 9780.5 | 11532.9 |
| 35° | 547.8 | 602.3 | 681.4 | 1144.4 | 2298.3 | 5283.6 | 10412.9 | 12378.1 |
| 37.5° | 523.3 | 576.0 | 634.3 | 1118.1 | 2320.9 | 5343.9 | 11186.6 | 13336.2 |
| 40° | 508.2 | 555.3 | 602.3 | 1114.3 | 2339.7 | 5390.9 | 11943.3 | 14333.8 |
| 42.5° | 495.0 | 542.1 | 596.7 | 1088.0 | 2332.2 | 5454.9 | 12613.4 | 15190.2 |
| 45° | 491.3 | 538.3 | 609.9 | 1048.4 | 2330.3 | 5554.7 | 13146.1 | 15875.4 |
| 47.5° | 487.5 | 559.0 | 606.1 | 1005.2 | 2322.8 | 5765.5 | 13746.5 | 16513.5 |
| 50° | 483.8 | 596.7 | 579.8 | 944.9 | 2266.3 | 6125.0 | 14554.0 | 17243.8 |
| 52.5° | 481.9 | 602.3 | 551.5 | 862.1 | 2164.7 | 6657.7 | 15736.1 | 18260.3 |
| 55° | 474.3 | 572.2 | 502.6 | 752.9 | 2017.8 | 7231.8 | 17002.9 | 19455.6 |
| 57.5° | 457.4 | 510.1 | 474.3 | 645.6 | 1807.0 | 7632.8 | 17938.4 | 20379.8 |
| 60° | 498.8 | 438.6 | 455.5 | 591.0 | 1554.8 | 7704.3 | 17979.8 | 20639.5 |
| 62.5° | 476.2 | 399.0 | 436.7 | 572.2 | 1377.9 | 7237.5 | 17157.3 | 20328.9 |
| 65° | 380.2 | 378.3 | 419.8 | 591.0 | 1351.5 | 6192.8 | 15768.1 | 19408.5 |
| 67.5° | 346.3 | 363.3 | 402.8 | 613.6 | 1368.4 | 4878.9 | 13723.9 | 17258.9 |
| 70° | 323.8 | 344.5 | 380.2 | 634.3 | 1398.6 | 3843.7 | 11049.2 | 14036.4 |
| 72.5° | 301.2 | 318.1 | 357.6 | 655.0 | 1377.9 | 3032.4 | 8843.1 | 10812.0 |
| 75° | 272.9 | 288.0 | 325.6 | 600.5 | 1182.1 | 2228.7 | 7026.7 | 7677.9 |
| 77.5° | 240.9 | 254.1 | 286.1 | 474.3 | 888.5 | 1551.0 | 5262.9 | 5534.0 |
| 80° | 207.1 | 212.7 | 237.2 | 346.3 | 579.8 | 928.0 | 4005.6 | 4414.0 |
| 82.5° | 163.8 | 165.6 | 180.7 | 254.1 | 361.4 | 592.9 | 2778.3 | 3171.7 |
| 85° | 105.4 | 109.2 | 116.7 | 178.8 | 242.8 | 380.2 | 1419.3 | 1626.3 |
| 87.5° | 35.8 | 41.4 | 41.4 | 86.6 | 118.6 | 210.8 | 434.8 | 316.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)