

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: P195244

Luminaire Tested: **NAV-AF-04-D-UNV-SLL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P195244
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-04-D-UNV-SLL-7060-600
Description: NAVION ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 615mA 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: 14197 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

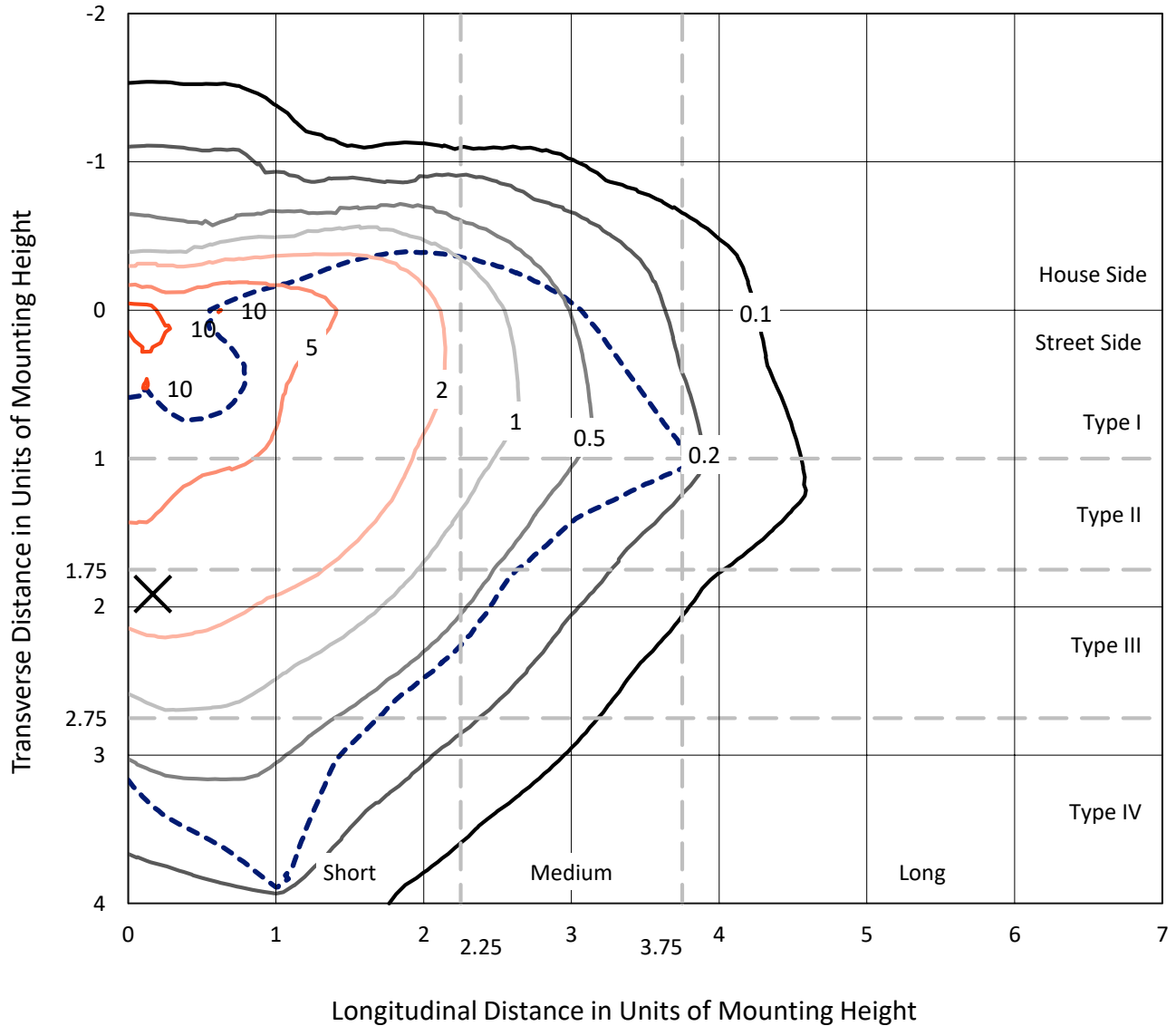
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P195244
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Iso-Footcandle Lines of Horizontal Illumination

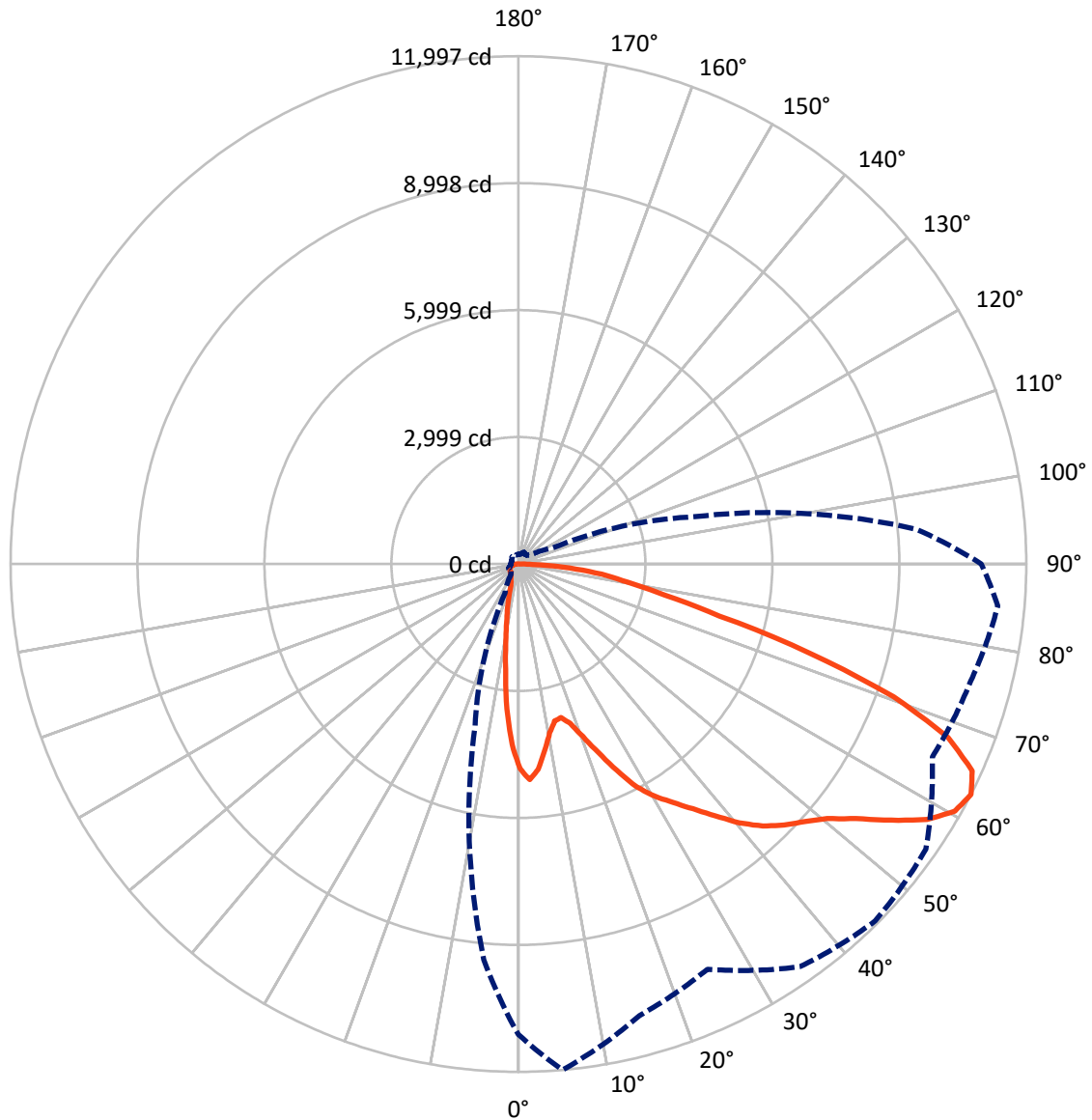
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.9 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 | 2515.0 | 0.0 | 2515.0 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 11682.0 | 0.0 | 11682.0 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 14197.0 | 0.0 | 14197.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 352.0 | 2.5 |
| 10°-20° | 642.9 | 4.5 |
| 20°-30° | 924.7 | 6.5 |
| 30°-40° | 1416.2 | 10.0 |
| 40°-50° | 2070.6 | 14.6 |
| 50°-60° | 3012.7 | 21.2 |
| 60°-70° | 3490.6 | 24.6 |
| 70°-80° | 1819.6 | 12.8 |
| 80°-90° | 467.7 | 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° | 14197.0 | 100.0 |
| 0°-180° | 14197.0 | 100.0 |



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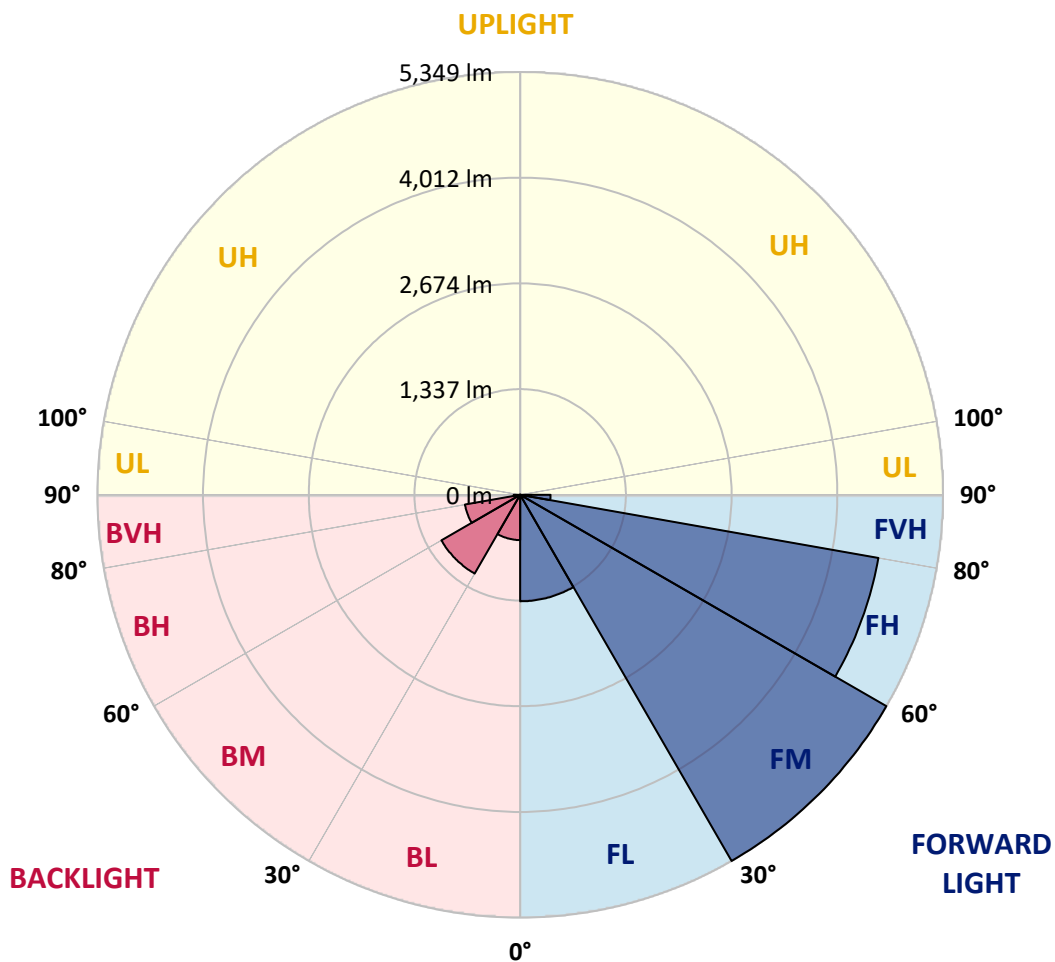
CATALOG NUMBER: NAV-AF-04-D-UNV-SLL-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1347.4 | 9.5 | | | |
| FM (30°-60°) | 5348.8 | 37.7 | | | |
| FH (60°-80°) | 4601.0 | 32.4 | | | G2/5000 |
| FVH (80°-90°) | 384.8 | 2.7 | | | G3/500 |
| BL (0°-30°) | 572.2 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 1150.7 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 709.2 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 82.9 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P195244

CATALOG NUMBER: NAV-AF-04-D-UNV-SLL-7060-600

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 |
| 2.5° | 4996.5 | 5102.5 | 5224.0 | 5382.5 | 5490.6 | 5533.8 | 5569.9 | 5509.1 | 5450.4 | 5340.3 | 5301.2 |
| 5° | 4667.1 | 4870.9 | 5205.5 | 5523.5 | 5803.5 | 5964.1 | 6013.5 | 5901.3 | 5701.6 | 5413.4 | 5261.0 |
| 7.5° | 4178.2 | 4446.8 | 4917.2 | 5385.6 | 5787.0 | 6054.7 | 6074.2 | 5851.9 | 5458.7 | 4986.2 | 4739.2 |
| 10° | 3751.0 | 4054.6 | 4599.2 | 5123.1 | 5548.2 | 5822.0 | 5768.5 | 5456.6 | 4982.1 | 4444.8 | 4165.8 |
| 12.5° | 3502.9 | 3806.6 | 4361.4 | 4893.6 | 5294.0 | 5398.0 | 5288.8 | 5026.4 | 4576.5 | 4038.2 | 3757.2 |
| 15° | 3450.4 | 3763.3 | 4277.0 | 4725.8 | 4973.9 | 4906.9 | 4798.9 | 4666.1 | 4345.9 | 3905.4 | 3633.6 |
| 17.5° | 3608.9 | 3958.9 | 4389.2 | 4635.2 | 4624.9 | 4464.3 | 4373.7 | 4399.5 | 4344.9 | 4049.5 | 3765.4 |
| 20° | 3935.2 | 4349.0 | 4674.3 | 4610.5 | 4347.0 | 4121.5 | 4069.1 | 4270.8 | 4523.0 | 4410.8 | 4098.9 |
| 22.5° | 4364.5 | 4835.9 | 5063.4 | 4681.5 | 4201.8 | 3958.9 | 3948.6 | 4263.6 | 4847.2 | 4957.4 | 4577.6 |
| 25° | 4849.3 | 5399.0 | 5455.6 | 4807.1 | 4186.4 | 3944.5 | 3935.2 | 4374.8 | 5237.4 | 5498.8 | 5113.8 |
| 27.5° | 5442.2 | 5967.2 | 5782.9 | 4974.9 | 4254.3 | 3986.7 | 3992.9 | 4564.2 | 5644.0 | 6034.1 | 5718.1 |
| 30° | 5889.0 | 6370.7 | 5984.7 | 5139.6 | 4363.4 | 4060.8 | 4076.3 | 4769.0 | 5863.2 | 6405.7 | 6200.9 |
| 32.5° | 6306.9 | 6715.5 | 6178.2 | 5302.2 | 4523.0 | 4171.0 | 4224.5 | 5024.3 | 6126.7 | 6724.8 | 6656.9 |
| 35° | 6769.1 | 7101.5 | 6393.3 | 5476.2 | 4751.5 | 4364.5 | 4441.7 | 5267.2 | 6388.2 | 7043.9 | 7108.7 |
| 37.5° | 7293.0 | 7543.1 | 6627.0 | 5722.2 | 5080.9 | 4722.7 | 4765.9 | 5515.3 | 6570.4 | 7397.0 | 7593.6 |
| 40° | 7838.6 | 8038.3 | 6882.3 | 6050.6 | 5559.6 | 5206.5 | 5227.1 | 5833.4 | 6713.5 | 7762.4 | 8064.0 |
| 42.5° | 8306.9 | 8462.3 | 7138.6 | 6458.2 | 6109.2 | 5699.6 | 5717.1 | 6176.1 | 6850.4 | 8077.4 | 8440.7 |
| 45° | 8681.6 | 8795.9 | 7380.5 | 6887.4 | 6696.0 | 6315.1 | 6311.0 | 6525.1 | 7033.6 | 8342.9 | 8730.0 |
| 47.5° | 9030.6 | 9091.3 | 7650.2 | 7305.4 | 7304.3 | 7107.7 | 6960.5 | 6936.8 | 7277.6 | 8566.3 | 8982.2 |
| 50° | 9429.9 | 9452.6 | 8006.3 | 7727.4 | 8047.5 | 8016.6 | 7744.9 | 7459.8 | 7593.6 | 8817.5 | 9246.7 |
| 52.5° | 9985.8 | 9986.8 | 8447.9 | 8139.1 | 8867.9 | 8965.7 | 8649.7 | 8051.6 | 8060.9 | 9306.4 | 9703.8 |
| 55° | 10639.4 | 10684.7 | 9023.3 | 8632.2 | 9726.4 | 9893.2 | 9595.7 | 8754.7 | 8732.0 | 10094.9 | 10444.9 |
| 57.5° | 11144.9 | 11384.7 | 9693.5 | 9248.8 | 10528.3 | 10745.5 | 10505.6 | 9483.5 | 9556.6 | 10908.1 | 11056.3 |
| 60° | 11286.9 | 11847.9 | 10361.5 | 9940.5 | 11206.6 | 11532.9 | 11289.0 | 10270.9 | 10363.6 | 11436.2 | 11232.4 |
| 62.5° | 11117.1 | 11997.2 | 11041.9 | 10560.2 | 11609.1 | 11922.0 | 11747.0 | 10786.6 | 11021.3 | 11368.2 | 10934.9 |
| 65° | 10613.7 | 11781.0 | 11632.8 | 10823.7 | 11377.5 | 11488.7 | 11442.3 | 10813.4 | 11378.5 | 10725.9 | 10112.4 |
| 67.5° | 9438.2 | 10947.2 | 11369.3 | 10260.6 | 10295.6 | 10176.2 | 10115.5 | 10078.4 | 10977.1 | 9689.3 | 8815.4 |
| 70° | 7675.9 | 9406.3 | 10112.4 | 8586.9 | 8327.5 | 8212.2 | 8012.5 | 8506.6 | 9866.4 | 8255.4 | 7254.9 |
| 72.5° | 5912.6 | 7196.2 | 8294.6 | 6509.7 | 5970.3 | 6009.4 | 5782.9 | 6504.5 | 8173.1 | 6382.0 | 5539.0 |
| 75° | 4198.8 | 4906.9 | 6620.8 | 4677.4 | 3963.0 | 3961.0 | 3943.5 | 4681.5 | 6448.9 | 4580.6 | 4052.6 |
| 77.5° | 3026.3 | 3532.8 | 5186.9 | 3130.3 | 2812.2 | 2848.2 | 2790.6 | 3181.7 | 5027.4 | 3295.0 | 3002.6 |
| 80° | 2413.8 | 2615.6 | 3352.6 | 2087.5 | 2093.7 | 2178.1 | 2165.8 | 2176.1 | 3307.3 | 2386.1 | 2245.0 |
| 82.5° | 1734.5 | 1985.6 | 2563.1 | 1599.6 | 1384.5 | 1474.0 | 1491.5 | 1614.0 | 2333.6 | 1687.1 | 1480.2 |
| 85° | 889.4 | 1210.5 | 2358.3 | 1385.5 | 865.7 | 717.5 | 825.5 | 1273.3 | 2026.8 | 1010.8 | 721.6 |
| 87.5° | 172.9 | 335.6 | 1728.3 | 770.0 | 389.1 | 196.6 | 324.2 | 539.4 | 1178.6 | 183.2 | 89.6 |
| 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: P195244

CATALOG NUMBER: NAV-AF-04-D-UNV-SLL-7060-600

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 |
| 2.5° | 5234.3 | 5102.5 | 4979.0 | 4851.4 | 4752.5 | 4632.1 | 4513.7 | 4410.8 | 4311.0 | 4245.1 | 4265.7 |
| 5° | 5106.6 | 4785.5 | 4497.3 | 4229.6 | 4073.2 | 3884.8 | 3717.0 | 3576.0 | 3466.9 | 3396.9 | 3439.1 |
| 7.5° | 4525.1 | 4090.7 | 3710.8 | 3357.8 | 3135.4 | 2891.5 | 2695.9 | 2558.0 | 2473.5 | 2426.2 | 2495.2 |
| 10° | 3930.1 | 3442.2 | 3016.0 | 2648.5 | 2429.3 | 2222.4 | 2045.3 | 1899.2 | 1785.9 | 1732.4 | 1760.2 |
| 12.5° | 3503.9 | 2961.5 | 2514.7 | 2267.7 | 2079.3 | 1894.0 | 1710.8 | 1539.9 | 1395.8 | 1329.9 | 1316.5 |
| 15° | 3344.4 | 2703.1 | 2247.1 | 1971.2 | 1783.9 | 1582.1 | 1384.5 | 1201.3 | 1064.4 | 1007.7 | 995.4 |
| 17.5° | 3414.4 | 2647.5 | 2088.6 | 1762.3 | 1490.5 | 1245.5 | 1023.2 | 850.2 | 749.4 | 717.5 | 720.6 |
| 20° | 3660.4 | 2668.1 | 1960.9 | 1547.1 | 1211.6 | 921.3 | 698.9 | 579.5 | 536.3 | 529.1 | 537.3 |
| 22.5° | 3998.0 | 2752.5 | 1868.3 | 1361.8 | 965.5 | 670.1 | 519.8 | 463.2 | 451.9 | 450.9 | 459.1 |
| 25° | 4443.7 | 2917.2 | 1806.5 | 1197.1 | 762.8 | 531.1 | 452.9 | 421.0 | 411.7 | 413.8 | 422.0 |
| 27.5° | 4968.7 | 3126.2 | 1766.4 | 1055.1 | 626.9 | 473.5 | 423.1 | 395.3 | 386.0 | 388.1 | 394.2 |
| 30° | 5448.4 | 3309.4 | 1706.7 | 948.0 | 563.1 | 452.9 | 406.6 | 378.8 | 366.5 | 366.5 | 370.6 |
| 32.5° | 5877.6 | 3467.9 | 1636.7 | 867.7 | 504.4 | 406.6 | 368.5 | 346.9 | 337.6 | 340.7 | 342.8 |
| 35° | 6258.5 | 3551.3 | 1582.1 | 820.4 | 457.0 | 374.7 | 336.6 | 314.0 | 301.6 | 303.7 | 306.7 |
| 37.5° | 6633.2 | 3583.2 | 1546.1 | 794.7 | 423.1 | 355.1 | 320.1 | 301.6 | 288.2 | 286.2 | 285.1 |
| 40° | 6989.3 | 3576.0 | 1512.1 | 787.5 | 400.4 | 340.7 | 309.8 | 293.4 | 280.0 | 276.9 | 275.9 |
| 42.5° | 7297.1 | 3552.3 | 1480.2 | 767.9 | 385.0 | 330.4 | 301.6 | 287.2 | 273.8 | 269.7 | 267.6 |
| 45° | 7578.1 | 3537.9 | 1445.2 | 731.9 | 393.2 | 326.3 | 297.5 | 282.0 | 269.7 | 264.5 | 262.5 |
| 47.5° | 7890.0 | 3589.4 | 1406.1 | 692.8 | 391.2 | 327.3 | 297.5 | 280.0 | 267.6 | 262.5 | 260.4 |
| 50° | 8261.6 | 3763.3 | 1357.7 | 639.2 | 372.6 | 350.0 | 296.5 | 276.9 | 265.6 | 262.5 | 258.4 |
| 52.5° | 8786.6 | 4045.4 | 1290.8 | 570.3 | 358.2 | 373.7 | 295.4 | 271.8 | 262.5 | 257.3 | 252.2 |
| 55° | 9506.1 | 4327.4 | 1204.3 | 497.2 | 335.6 | 357.2 | 297.5 | 265.6 | 255.3 | 250.1 | 244.0 |
| 57.5° | 10095.9 | 4541.5 | 1095.2 | 436.4 | 315.0 | 337.6 | 294.4 | 258.4 | 247.0 | 241.9 | 236.8 |
| 60° | 10057.9 | 4562.1 | 991.3 | 397.3 | 302.6 | 303.7 | 301.6 | 253.2 | 239.8 | 235.7 | 231.6 |
| 62.5° | 9435.1 | 4307.9 | 894.5 | 377.8 | 293.4 | 276.9 | 307.8 | 247.0 | 232.6 | 228.5 | 225.4 |
| 65° | 8398.5 | 3716.0 | 843.0 | 377.8 | 285.1 | 262.5 | 268.7 | 238.8 | 225.4 | 221.3 | 219.3 |
| 67.5° | 7084.0 | 2986.2 | 794.7 | 386.0 | 273.8 | 252.2 | 244.0 | 230.6 | 218.2 | 214.1 | 212.0 |
| 70° | 5677.9 | 2350.0 | 760.7 | 381.9 | 263.5 | 240.9 | 230.6 | 219.3 | 206.9 | 205.9 | 203.8 |
| 72.5° | 4454.0 | 1887.8 | 745.3 | 381.9 | 248.1 | 227.5 | 217.2 | 209.0 | 196.6 | 195.6 | 192.5 |
| 75° | 3568.8 | 1417.4 | 681.4 | 374.7 | 232.6 | 210.0 | 200.7 | 193.5 | 181.2 | 182.2 | 180.1 |
| 77.5° | 2763.8 | 1002.6 | 569.2 | 337.6 | 213.1 | 190.4 | 183.2 | 178.1 | 163.7 | 164.7 | 164.7 |
| 80° | 2161.7 | 652.6 | 441.6 | 280.0 | 190.4 | 167.8 | 162.6 | 158.5 | 143.1 | 145.1 | 145.1 |
| 82.5° | 1481.2 | 388.1 | 320.1 | 225.4 | 163.7 | 143.1 | 142.1 | 135.9 | 119.4 | 120.4 | 122.5 |
| 85° | 809.1 | 255.3 | 213.1 | 166.8 | 128.7 | 116.3 | 114.3 | 111.2 | 95.7 | 95.7 | 96.8 |
| 87.5° | 149.3 | 136.9 | 125.6 | 110.1 | 86.5 | 83.4 | 80.3 | 83.4 | 72.1 | 70.0 | 70.0 |
| 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: P195244

CATALOG NUMBER: NAV-AF-04-D-UNV-SLL-7060-600

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 | 4840.0 |
| 2.5° | 4217.3 | 4146.3 | 4096.8 | 4053.6 | 3949.6 | 3956.9 | 3971.3 | 3991.8 | 3927.0 | 3961.0 | 4003.2 |
| 5° | 3396.9 | 3338.2 | 3293.9 | 3225.0 | 3079.8 | 3028.4 | 2995.4 | 2981.0 | 2884.3 | 2904.8 | 2950.1 |
| 7.5° | 2504.4 | 2503.4 | 2488.0 | 2410.8 | 2235.8 | 2129.7 | 2059.7 | 2038.1 | 1978.4 | 2001.1 | 2070.0 |
| 10° | 1763.3 | 1781.8 | 1774.6 | 1705.6 | 1549.2 | 1473.0 | 1457.6 | 1500.8 | 1501.8 | 1546.1 | 1664.5 |
| 12.5° | 1274.3 | 1264.1 | 1254.8 | 1198.2 | 1080.8 | 1068.5 | 1103.5 | 1163.2 | 1177.6 | 1224.9 | 1348.5 |
| 15° | 951.1 | 926.4 | 921.3 | 877.0 | 799.8 | 811.1 | 836.9 | 867.7 | 868.8 | 901.7 | 1003.6 |
| 17.5° | 713.3 | 713.3 | 721.6 | 692.8 | 637.2 | 632.0 | 618.6 | 610.4 | 598.1 | 611.4 | 667.0 |
| 20° | 553.8 | 579.5 | 600.1 | 583.6 | 533.2 | 508.5 | 482.8 | 466.3 | 457.0 | 458.1 | 474.5 |
| 22.5° | 474.5 | 495.1 | 521.9 | 513.6 | 471.4 | 439.5 | 423.1 | 411.7 | 404.5 | 404.5 | 413.8 |
| 25° | 434.4 | 447.8 | 472.5 | 468.4 | 432.3 | 406.6 | 393.2 | 381.9 | 373.7 | 372.6 | 381.9 |
| 27.5° | 402.5 | 410.7 | 427.2 | 425.1 | 388.1 | 371.6 | 363.4 | 356.2 | 351.0 | 350.0 | 359.2 |
| 30° | 373.7 | 377.8 | 386.0 | 382.9 | 355.1 | 338.7 | 335.6 | 332.5 | 329.4 | 330.4 | 343.8 |
| 32.5° | 347.9 | 351.0 | 356.2 | 352.0 | 325.3 | 310.9 | 305.7 | 301.6 | 298.5 | 301.6 | 317.0 |
| 35° | 319.1 | 328.4 | 334.5 | 332.5 | 303.7 | 286.2 | 274.8 | 264.5 | 260.4 | 263.5 | 281.0 |
| 37.5° | 294.4 | 309.8 | 318.1 | 316.0 | 286.2 | 265.6 | 251.2 | 249.1 | 249.1 | 253.2 | 270.7 |
| 40° | 285.1 | 296.5 | 303.7 | 300.6 | 270.7 | 250.1 | 241.9 | 238.8 | 239.8 | 244.0 | 262.5 |
| 42.5° | 276.9 | 287.2 | 289.2 | 283.1 | 253.2 | 239.8 | 234.7 | 230.6 | 232.6 | 237.8 | 256.3 |
| 45° | 269.7 | 277.9 | 276.9 | 267.6 | 238.8 | 229.5 | 229.5 | 226.5 | 227.5 | 231.6 | 251.2 |
| 47.5° | 264.5 | 268.7 | 266.6 | 257.3 | 228.5 | 221.3 | 224.4 | 224.4 | 226.5 | 229.5 | 249.1 |
| 50° | 256.3 | 259.4 | 257.3 | 249.1 | 220.3 | 214.1 | 217.2 | 221.3 | 223.4 | 226.5 | 244.0 |
| 52.5° | 248.1 | 250.1 | 249.1 | 240.9 | 212.0 | 207.9 | 207.9 | 212.0 | 216.2 | 220.3 | 235.7 |
| 55° | 239.8 | 241.9 | 242.9 | 236.8 | 205.9 | 201.8 | 200.7 | 200.7 | 204.8 | 211.0 | 227.5 |
| 57.5° | 233.7 | 233.7 | 235.7 | 231.6 | 199.7 | 194.5 | 189.4 | 190.4 | 195.6 | 200.7 | 217.2 |
| 60° | 226.5 | 227.5 | 230.6 | 226.5 | 191.5 | 183.2 | 179.1 | 184.3 | 186.3 | 191.5 | 209.0 |
| 62.5° | 220.3 | 220.3 | 222.3 | 219.3 | 184.3 | 176.0 | 172.9 | 178.1 | 178.1 | 183.2 | 200.7 |
| 65° | 215.1 | 214.1 | 214.1 | 213.1 | 177.0 | 168.8 | 166.8 | 168.8 | 169.8 | 175.0 | 192.5 |
| 67.5° | 211.0 | 205.9 | 205.9 | 207.9 | 169.8 | 161.6 | 160.6 | 160.6 | 161.6 | 167.8 | 183.2 |
| 70° | 201.8 | 197.6 | 196.6 | 203.8 | 162.6 | 152.3 | 152.3 | 150.3 | 152.3 | 155.4 | 171.9 |
| 72.5° | 191.5 | 188.4 | 187.3 | 197.6 | 155.4 | 142.1 | 140.0 | 139.0 | 140.0 | 143.1 | 158.5 |
| 75° | 178.1 | 176.0 | 178.1 | 193.5 | 148.2 | 130.7 | 127.6 | 126.6 | 126.6 | 127.6 | 144.1 |
| 77.5° | 162.6 | 160.6 | 176.0 | 180.1 | 144.1 | 117.3 | 114.3 | 112.2 | 110.1 | 110.1 | 128.7 |
| 80° | 144.1 | 143.1 | 169.8 | 152.3 | 137.9 | 102.9 | 97.8 | 94.7 | 92.6 | 91.6 | 110.1 |
| 82.5° | 125.6 | 123.5 | 145.1 | 119.4 | 114.3 | 84.4 | 77.2 | 71.0 | 67.9 | 67.9 | 84.4 |
| 85° | 102.9 | 101.9 | 114.3 | 87.5 | 79.3 | 61.8 | 51.5 | 46.3 | 42.2 | 42.2 | 54.6 |
| 87.5° | 75.1 | 73.1 | 71.0 | 52.5 | 40.1 | 27.8 | 19.6 | 18.5 | 16.5 | 15.4 | 22.6 |
| 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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| 35° | 299.5 | 329.4 | 372.6 | 625.8 | 1256.8 | 2889.4 | 5694.4 | 6769.1 |
| 37.5° | 286.2 | 315.0 | 346.9 | 611.4 | 1269.2 | 2922.3 | 6117.5 | 7293.0 |
| 40° | 277.9 | 303.7 | 329.4 | 609.4 | 1279.5 | 2948.1 | 6531.3 | 7838.6 |
| 42.5° | 270.7 | 296.5 | 326.3 | 595.0 | 1275.4 | 2983.1 | 6897.7 | 8306.9 |
| 45° | 268.7 | 294.4 | 333.5 | 573.4 | 1274.3 | 3037.6 | 7189.0 | 8681.6 |
| 47.5° | 266.6 | 305.7 | 331.5 | 549.7 | 1270.2 | 3152.9 | 7517.4 | 9030.6 |
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| 65° | 207.9 | 206.9 | 229.5 | 323.2 | 739.1 | 3386.6 | 8622.9 | 10613.7 |
| 67.5° | 189.4 | 198.7 | 220.3 | 335.6 | 748.3 | 2668.1 | 7505.0 | 9438.2 |
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| 72.5° | 164.7 | 174.0 | 195.6 | 358.2 | 753.5 | 1658.3 | 4835.9 | 5912.6 |
| 75° | 149.3 | 157.5 | 178.1 | 328.4 | 646.4 | 1218.8 | 3842.6 | 4198.8 |
| 77.5° | 131.8 | 139.0 | 156.5 | 259.4 | 485.9 | 848.2 | 2878.1 | 3026.3 |
| 80° | 113.2 | 116.3 | 129.7 | 189.4 | 317.0 | 507.5 | 2190.5 | 2413.8 |
| 82.5° | 89.6 | 90.6 | 98.8 | 139.0 | 197.6 | 324.2 | 1519.3 | 1734.5 |
| 85° | 57.6 | 59.7 | 63.8 | 97.8 | 132.8 | 207.9 | 776.1 | 889.4 |
| 87.5° | 19.6 | 22.6 | 22.6 | 47.4 | 64.8 | 115.3 | 237.8 | 172.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)