

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: P270372

Luminaire Tested: **NAV-AF-02-D-UNV-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270372
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-SLL-7027-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10252.5 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' 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

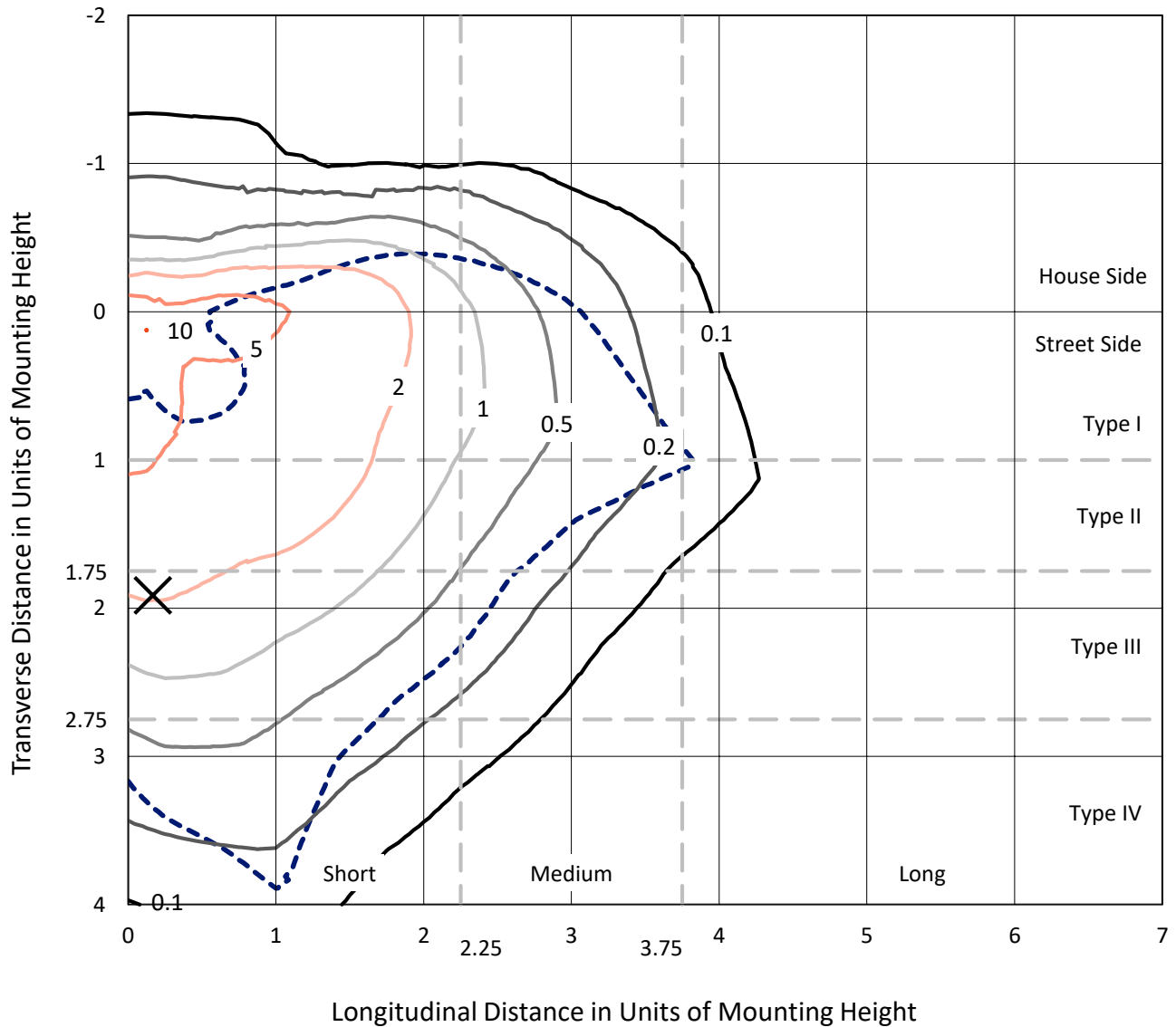


REPORT NUMBER: P270372

CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

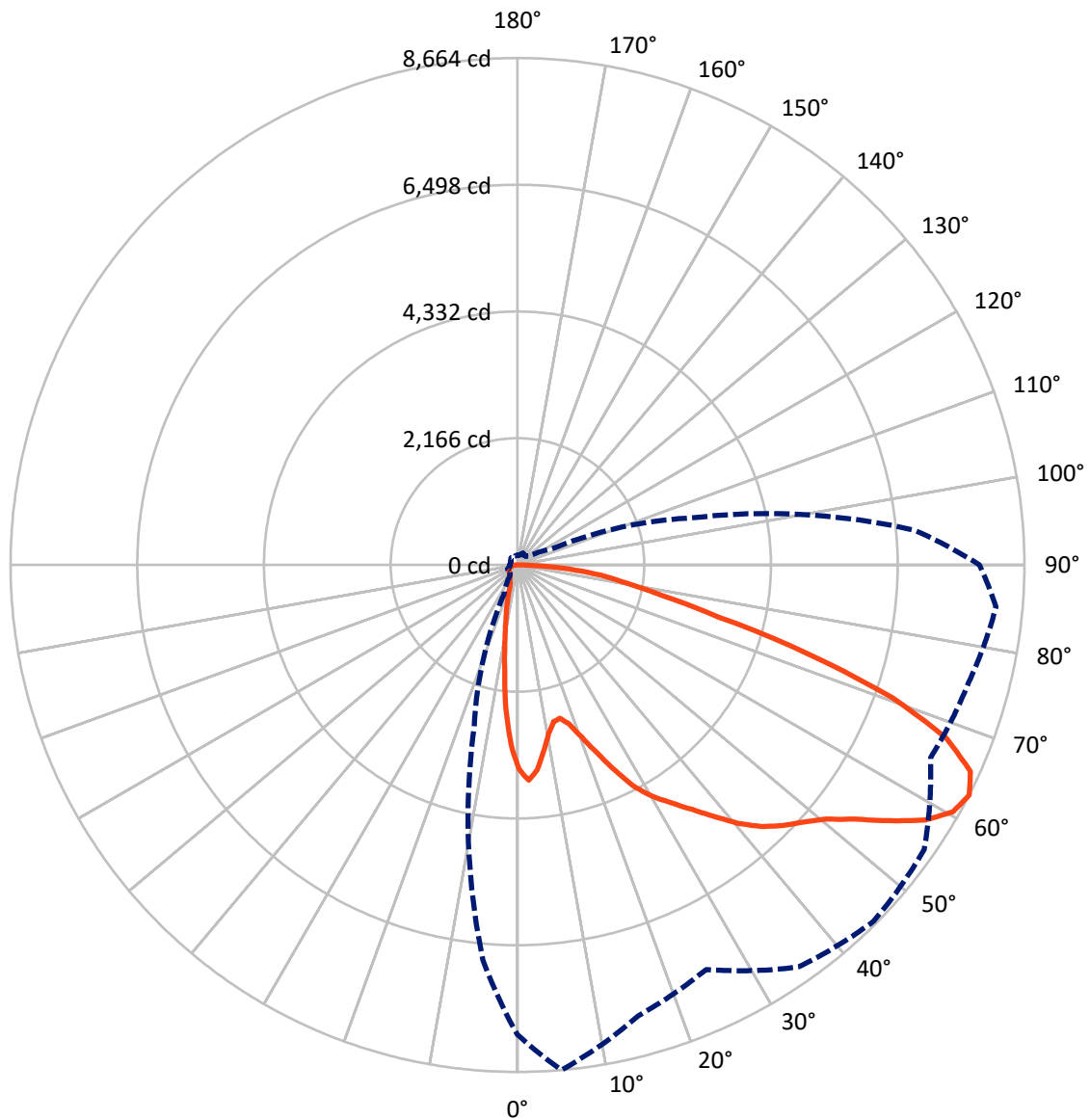
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P270372
CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270372

CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1816.2 | 0.0 | 1816.2 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 8436.3 | 0.0 | 8436.3 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 10252.5 | 0.0 | 10252.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.2 | 2.5 |
| 10°-20° | 464.3 | 4.5 |
| 20°-30° | 667.8 | 6.5 |
| 30°-40° | 1022.7 | 10.0 |
| 40°-50° | 1495.3 | 14.6 |
| 50°-60° | 2175.7 | 21.2 |
| 60°-70° | 2520.8 | 24.6 |
| 70°-80° | 1314.0 | 12.8 |
| 80°-90° | 337.8 | 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° | 10252.5 | 100.0 |
| 0°-180° | 10252.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P270372

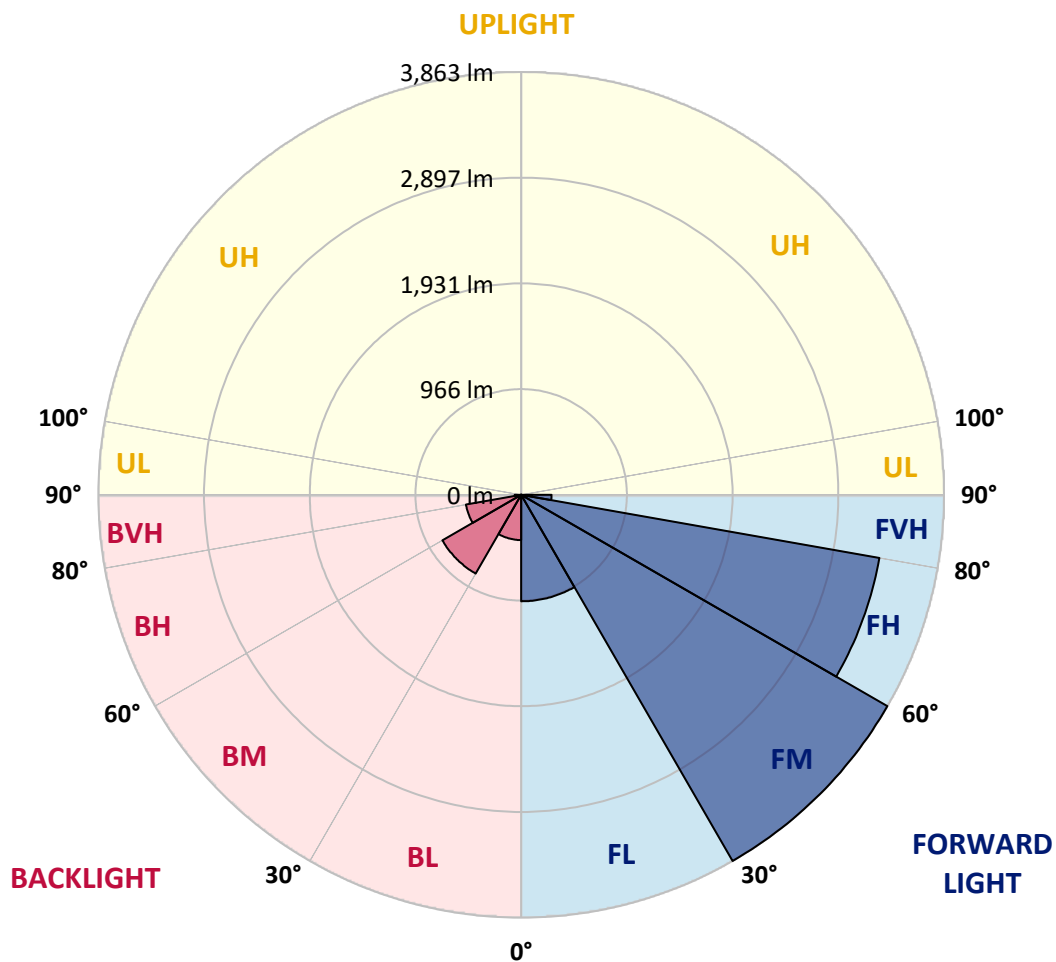
CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 973.0 | 9.5 | | | |
| FM | (30°-60°) | 3862.7 | 37.7 | | | |
| FH | (60°-80°) | 3322.7 | 32.4 | | | G2/5000 |
| FVH | (80°-90°) | 277.9 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 413.2 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 831.0 | 8.1 | B1/1000 | | |
| BH | (60°-80°) | 512.1 | 5.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 59.9 | 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: P270372

CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 |
| 2.5° | 3608.3 | 3684.8 | 3772.6 | 3887.1 | 3965.1 | 3996.3 | 4022.3 | 3978.6 | 3936.2 | 3856.6 | 3828.3 |
| 5° | 3370.4 | 3517.7 | 3759.1 | 3989.0 | 4191.1 | 4307.1 | 4342.8 | 4261.6 | 4117.6 | 3909.3 | 3799.3 |
| 7.5° | 3017.2 | 3211.4 | 3551.1 | 3889.3 | 4179.2 | 4372.5 | 4386.7 | 4226.0 | 3942.0 | 3600.9 | 3422.5 |
| 10° | 2708.7 | 2928.1 | 3321.4 | 3699.7 | 4006.7 | 4204.4 | 4165.8 | 3940.5 | 3597.9 | 3209.9 | 3008.5 |
| 12.5° | 2529.6 | 2749.0 | 3149.6 | 3533.9 | 3823.1 | 3898.3 | 3819.5 | 3629.8 | 3305.0 | 2916.2 | 2713.3 |
| 15° | 2491.8 | 2717.7 | 3088.7 | 3412.8 | 3592.0 | 3543.6 | 3465.7 | 3369.7 | 3138.5 | 2820.3 | 2624.0 |
| 17.5° | 2606.3 | 2858.9 | 3169.7 | 3347.4 | 3340.0 | 3223.9 | 3158.6 | 3177.1 | 3137.7 | 2924.4 | 2719.2 |
| 20° | 2841.9 | 3140.7 | 3375.7 | 3329.6 | 3139.2 | 2976.4 | 2938.5 | 3084.2 | 3266.3 | 3185.3 | 2960.1 |
| 22.5° | 3151.9 | 3492.3 | 3656.6 | 3380.9 | 3034.5 | 2858.9 | 2851.5 | 3079.0 | 3500.5 | 3580.0 | 3305.8 |
| 25° | 3502.0 | 3899.0 | 3939.8 | 3471.5 | 3023.2 | 2848.5 | 2841.9 | 3159.2 | 3782.3 | 3971.0 | 3693.0 |
| 27.5° | 3930.2 | 4309.3 | 4176.2 | 3592.7 | 3072.4 | 2879.1 | 2883.5 | 3296.2 | 4075.9 | 4357.6 | 4129.4 |
| 30° | 4252.8 | 4600.7 | 4321.9 | 3711.6 | 3151.2 | 2932.5 | 2943.7 | 3444.0 | 4234.3 | 4625.9 | 4478.1 |
| 32.5° | 4554.5 | 4849.7 | 4461.7 | 3829.0 | 3266.3 | 3012.0 | 3050.7 | 3628.3 | 4424.5 | 4856.3 | 4807.3 |
| 35° | 4888.3 | 5128.5 | 4617.1 | 3954.7 | 3431.3 | 3151.9 | 3207.6 | 3803.9 | 4613.3 | 5086.8 | 5133.6 |
| 37.5° | 5266.8 | 5447.4 | 4785.8 | 4132.4 | 3669.2 | 3410.5 | 3441.8 | 3982.9 | 4744.8 | 5341.9 | 5483.9 |
| 40° | 5660.7 | 5804.9 | 4970.1 | 4369.4 | 4015.0 | 3759.9 | 3774.8 | 4212.6 | 4848.2 | 5605.8 | 5823.5 |
| 42.5° | 5998.9 | 6111.2 | 5155.3 | 4663.9 | 4411.8 | 4116.0 | 4128.6 | 4460.2 | 4947.1 | 5833.1 | 6095.5 |
| 45° | 6269.5 | 6352.1 | 5330.0 | 4973.8 | 4835.5 | 4560.5 | 4557.6 | 4712.1 | 5079.3 | 6024.9 | 6304.5 |
| 47.5° | 6521.5 | 6565.4 | 5524.7 | 5275.7 | 5274.8 | 5132.9 | 5026.6 | 5009.6 | 5255.5 | 6186.3 | 6486.7 |
| 50° | 6810.1 | 6826.3 | 5781.9 | 5580.5 | 5811.7 | 5789.3 | 5593.0 | 5387.1 | 5483.9 | 6367.6 | 6677.6 |
| 52.5° | 7211.4 | 7212.1 | 6100.7 | 5877.8 | 6404.0 | 6474.8 | 6246.5 | 5814.5 | 5821.2 | 6720.8 | 7007.7 |
| 55° | 7683.5 | 7716.1 | 6516.3 | 6233.9 | 7024.0 | 7144.5 | 6929.6 | 6322.4 | 6305.9 | 7290.1 | 7542.9 |
| 57.5° | 8048.5 | 8221.6 | 7000.2 | 6679.2 | 7603.2 | 7760.0 | 7586.7 | 6848.6 | 6901.4 | 7877.4 | 7984.5 |
| 60° | 8151.0 | 8556.1 | 7482.7 | 7178.6 | 8093.0 | 8328.6 | 8152.5 | 7417.2 | 7484.1 | 8258.7 | 8111.5 |
| 62.5° | 8028.3 | 8664.0 | 7974.1 | 7626.3 | 8383.6 | 8609.6 | 8483.2 | 7789.7 | 7959.3 | 8209.7 | 7896.8 |
| 65° | 7664.9 | 8507.8 | 8400.8 | 7816.5 | 8216.3 | 8296.7 | 8263.2 | 7809.1 | 8217.2 | 7745.8 | 7302.9 |
| 67.5° | 6815.9 | 7905.7 | 8210.5 | 7409.8 | 7435.1 | 7348.9 | 7305.0 | 7278.2 | 7927.3 | 6997.3 | 6366.2 |
| 70° | 5543.4 | 6792.9 | 7302.9 | 6201.2 | 6013.9 | 5930.6 | 5786.3 | 6143.1 | 7125.1 | 5961.8 | 5239.3 |
| 72.5° | 4270.0 | 5196.9 | 5990.1 | 4701.0 | 4311.5 | 4339.7 | 4176.2 | 4697.2 | 5902.4 | 4608.8 | 4000.1 |
| 75° | 3032.1 | 3543.6 | 4781.3 | 3377.8 | 2862.0 | 2860.5 | 2847.8 | 3380.9 | 4657.3 | 3308.0 | 2926.6 |
| 77.5° | 2185.4 | 2551.2 | 3745.8 | 2260.6 | 2030.9 | 2056.8 | 2015.3 | 2297.8 | 3630.6 | 2379.5 | 2168.4 |
| 80° | 1743.3 | 1888.9 | 2421.1 | 1507.5 | 1511.9 | 1572.9 | 1563.9 | 1571.5 | 2388.5 | 1723.0 | 1621.4 |
| 82.5° | 1252.5 | 1434.0 | 1851.0 | 1155.2 | 999.9 | 1064.5 | 1077.2 | 1165.6 | 1685.2 | 1218.5 | 1069.0 |
| 85° | 642.3 | 874.2 | 1703.0 | 1000.5 | 625.2 | 518.1 | 596.1 | 919.5 | 1463.7 | 730.1 | 521.0 |
| 87.5° | 124.9 | 242.4 | 1248.1 | 556.1 | 281.0 | 142.0 | 234.2 | 389.5 | 851.1 | 132.3 | 64.7 |
| 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: P270372

CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 |
| 2.5° | 3780.0 | 3684.8 | 3595.6 | 3503.5 | 3432.2 | 3345.2 | 3259.7 | 3185.3 | 3113.3 | 3065.6 | 3080.5 |
| 5° | 3687.8 | 3455.9 | 3247.7 | 3054.4 | 2941.5 | 2805.4 | 2684.2 | 2582.4 | 2503.7 | 2453.1 | 2483.5 |
| 7.5° | 3267.9 | 2954.2 | 2679.9 | 2424.9 | 2264.3 | 2088.1 | 1946.8 | 1847.3 | 1786.3 | 1752.1 | 1801.9 |
| 10° | 2838.1 | 2485.8 | 2178.1 | 1912.8 | 1754.3 | 1604.9 | 1477.1 | 1371.5 | 1289.7 | 1251.1 | 1271.1 |
| 12.5° | 2530.4 | 2138.7 | 1816.1 | 1637.6 | 1501.5 | 1367.8 | 1235.4 | 1112.1 | 1008.0 | 960.4 | 950.8 |
| 15° | 2415.3 | 1952.0 | 1622.8 | 1423.5 | 1288.3 | 1142.6 | 999.9 | 867.6 | 768.6 | 727.7 | 718.9 |
| 17.5° | 2465.8 | 1912.0 | 1508.3 | 1272.7 | 1076.3 | 899.5 | 738.9 | 614.0 | 541.1 | 518.1 | 520.4 |
| 20° | 2643.4 | 1926.9 | 1416.1 | 1117.3 | 874.9 | 665.4 | 504.8 | 418.5 | 387.3 | 382.0 | 388.1 |
| 22.5° | 2887.2 | 1987.8 | 1349.3 | 983.5 | 697.3 | 483.9 | 375.4 | 334.4 | 326.4 | 325.5 | 331.6 |
| 25° | 3209.1 | 2106.6 | 1304.6 | 864.4 | 550.8 | 383.5 | 327.2 | 304.0 | 297.3 | 298.9 | 304.7 |
| 27.5° | 3588.2 | 2257.6 | 1275.7 | 761.9 | 452.7 | 342.0 | 305.6 | 285.4 | 278.7 | 280.2 | 284.8 |
| 30° | 3934.7 | 2389.9 | 1232.6 | 684.7 | 406.7 | 327.2 | 293.7 | 273.5 | 264.6 | 264.6 | 267.6 |
| 32.5° | 4244.6 | 2504.4 | 1182.0 | 626.7 | 364.3 | 293.7 | 266.1 | 250.4 | 243.8 | 246.0 | 247.6 |
| 35° | 4519.6 | 2564.7 | 1142.6 | 592.4 | 330.0 | 270.6 | 243.1 | 226.7 | 217.7 | 219.2 | 221.5 |
| 37.5° | 4790.2 | 2587.7 | 1116.6 | 573.8 | 305.6 | 256.5 | 231.1 | 217.7 | 208.1 | 206.7 | 205.9 |
| 40° | 5047.4 | 2582.4 | 1092.0 | 568.6 | 289.2 | 246.0 | 223.8 | 211.9 | 202.2 | 200.0 | 199.2 |
| 42.5° | 5269.6 | 2565.4 | 1069.0 | 554.6 | 278.0 | 238.6 | 217.7 | 207.4 | 197.7 | 194.8 | 193.2 |
| 45° | 5472.7 | 2555.0 | 1043.7 | 528.6 | 284.0 | 235.6 | 214.9 | 203.6 | 194.8 | 191.0 | 189.5 |
| 47.5° | 5697.9 | 2592.1 | 1015.4 | 500.3 | 282.4 | 236.4 | 214.9 | 202.2 | 193.2 | 189.5 | 188.0 |
| 50° | 5966.3 | 2717.7 | 980.5 | 461.5 | 269.1 | 252.8 | 214.1 | 200.0 | 191.8 | 189.5 | 186.6 |
| 52.5° | 6345.4 | 2921.4 | 932.3 | 411.9 | 258.7 | 269.9 | 213.3 | 196.3 | 189.5 | 185.8 | 182.1 |
| 55° | 6864.9 | 3125.2 | 869.6 | 359.1 | 242.4 | 258.0 | 214.9 | 191.8 | 184.3 | 180.6 | 176.2 |
| 57.5° | 7291.0 | 3279.7 | 791.0 | 315.1 | 227.5 | 243.8 | 212.5 | 186.6 | 178.5 | 174.7 | 170.9 |
| 60° | 7263.4 | 3294.7 | 715.9 | 287.0 | 218.6 | 219.2 | 217.7 | 182.8 | 173.3 | 170.1 | 167.3 |
| 62.5° | 6813.6 | 3111.0 | 646.1 | 272.8 | 211.9 | 200.0 | 222.3 | 178.5 | 168.1 | 165.0 | 162.9 |
| 65° | 6065.0 | 2683.5 | 608.8 | 272.8 | 205.9 | 189.5 | 194.0 | 172.5 | 162.9 | 159.8 | 158.3 |
| 67.5° | 5115.8 | 2156.6 | 573.8 | 278.7 | 197.7 | 182.1 | 176.2 | 166.5 | 157.7 | 154.6 | 153.2 |
| 70° | 4100.5 | 1697.1 | 549.4 | 275.8 | 190.4 | 173.9 | 166.5 | 158.3 | 149.4 | 148.7 | 147.2 |
| 72.5° | 3216.6 | 1363.4 | 538.3 | 275.8 | 179.1 | 164.3 | 156.8 | 150.9 | 142.0 | 141.3 | 139.0 |
| 75° | 2577.2 | 1023.6 | 492.1 | 270.6 | 168.1 | 151.6 | 144.9 | 139.7 | 130.9 | 131.6 | 130.1 |
| 77.5° | 1995.9 | 724.0 | 411.1 | 243.8 | 153.9 | 137.5 | 132.3 | 128.5 | 118.1 | 118.9 | 118.9 |
| 80° | 1561.1 | 471.3 | 318.9 | 202.2 | 137.5 | 121.2 | 117.5 | 114.4 | 103.3 | 104.8 | 104.8 |
| 82.5° | 1069.7 | 280.2 | 231.1 | 162.9 | 118.1 | 103.3 | 102.5 | 98.2 | 86.2 | 87.0 | 88.5 |
| 85° | 584.3 | 184.3 | 153.9 | 120.5 | 93.0 | 84.0 | 82.6 | 80.3 | 69.1 | 69.1 | 69.9 |
| 87.5° | 107.7 | 98.9 | 90.6 | 79.5 | 62.4 | 60.1 | 58.0 | 60.1 | 52.0 | 50.6 | 50.6 |
| 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: P270372

CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 |
| 2.5° | 3045.6 | 2994.3 | 2958.6 | 2927.3 | 2852.3 | 2857.5 | 2867.8 | 2882.8 | 2835.9 | 2860.5 | 2890.9 |
| 5° | 2453.1 | 2410.7 | 2378.7 | 2328.9 | 2224.2 | 2187.0 | 2163.2 | 2152.8 | 2082.9 | 2097.8 | 2130.5 |
| 7.5° | 1808.6 | 1807.8 | 1796.7 | 1740.9 | 1614.7 | 1538.0 | 1487.5 | 1471.9 | 1428.8 | 1445.2 | 1494.9 |
| 10° | 1273.3 | 1286.7 | 1281.5 | 1231.8 | 1118.7 | 1063.8 | 1052.6 | 1083.8 | 1084.6 | 1116.6 | 1202.0 |
| 12.5° | 920.3 | 912.9 | 906.2 | 865.2 | 780.5 | 771.6 | 796.8 | 840.0 | 850.4 | 884.7 | 973.9 |
| 15° | 686.8 | 669.1 | 665.4 | 633.3 | 577.6 | 585.8 | 604.4 | 626.7 | 627.3 | 651.2 | 724.8 |
| 17.5° | 515.2 | 515.2 | 521.0 | 500.3 | 460.1 | 456.3 | 446.7 | 440.8 | 431.8 | 441.5 | 481.8 |
| 20° | 399.9 | 418.5 | 433.4 | 421.5 | 385.1 | 367.2 | 348.6 | 336.8 | 330.0 | 330.8 | 342.8 |
| 22.5° | 342.8 | 357.5 | 376.8 | 370.9 | 340.5 | 317.5 | 305.6 | 297.3 | 292.2 | 292.2 | 298.9 |
| 25° | 313.7 | 323.4 | 341.1 | 338.2 | 312.3 | 293.7 | 284.0 | 275.8 | 269.9 | 269.1 | 275.8 |
| 27.5° | 290.6 | 296.6 | 308.5 | 307.0 | 280.2 | 268.4 | 262.5 | 257.3 | 253.5 | 252.8 | 259.4 |
| 30° | 269.9 | 272.8 | 278.7 | 276.5 | 256.5 | 244.6 | 242.4 | 240.0 | 238.0 | 238.6 | 248.3 |
| 32.5° | 251.3 | 253.5 | 257.3 | 254.2 | 234.8 | 224.4 | 220.8 | 217.7 | 215.6 | 217.7 | 229.0 |
| 35° | 230.4 | 237.2 | 241.6 | 240.0 | 219.2 | 206.7 | 198.4 | 191.0 | 188.0 | 190.4 | 202.9 |
| 37.5° | 212.5 | 223.8 | 229.6 | 228.2 | 206.7 | 191.8 | 181.4 | 179.9 | 179.9 | 182.8 | 195.6 |
| 40° | 205.9 | 214.1 | 219.2 | 217.1 | 195.6 | 180.6 | 174.7 | 172.5 | 173.3 | 176.2 | 189.5 |
| 42.5° | 200.0 | 207.4 | 208.9 | 204.5 | 182.8 | 173.3 | 169.5 | 166.5 | 168.1 | 171.8 | 185.1 |
| 45° | 194.8 | 200.7 | 200.0 | 193.2 | 172.5 | 165.7 | 165.7 | 163.5 | 164.3 | 167.3 | 181.4 |
| 47.5° | 191.0 | 194.0 | 192.5 | 185.8 | 165.0 | 159.8 | 162.1 | 162.1 | 163.5 | 165.7 | 179.9 |
| 50° | 185.1 | 187.3 | 185.8 | 179.9 | 159.1 | 154.6 | 156.8 | 159.8 | 161.3 | 163.5 | 176.2 |
| 52.5° | 179.1 | 180.6 | 179.9 | 173.9 | 153.2 | 150.1 | 150.1 | 153.2 | 156.1 | 159.1 | 170.1 |
| 55° | 173.3 | 174.7 | 175.3 | 170.9 | 148.7 | 145.6 | 144.9 | 144.9 | 148.0 | 152.4 | 164.3 |
| 57.5° | 168.7 | 168.7 | 170.1 | 167.3 | 144.2 | 140.4 | 136.8 | 137.5 | 141.3 | 144.9 | 156.8 |
| 60° | 163.5 | 164.3 | 166.5 | 163.5 | 138.2 | 132.3 | 129.4 | 133.0 | 134.6 | 138.2 | 150.9 |
| 62.5° | 159.1 | 159.1 | 160.5 | 158.3 | 133.0 | 127.1 | 124.9 | 128.5 | 128.5 | 132.3 | 144.9 |
| 65° | 155.3 | 154.6 | 154.6 | 153.9 | 127.9 | 121.9 | 120.5 | 121.9 | 122.7 | 126.4 | 139.0 |
| 67.5° | 152.4 | 148.7 | 148.7 | 150.1 | 122.7 | 116.7 | 116.1 | 116.1 | 116.7 | 121.2 | 132.3 |
| 70° | 145.6 | 142.7 | 142.0 | 147.2 | 117.5 | 110.0 | 110.0 | 108.5 | 110.0 | 112.3 | 124.1 |
| 72.5° | 138.2 | 136.1 | 135.3 | 142.7 | 112.3 | 102.5 | 101.1 | 100.3 | 101.1 | 103.3 | 114.4 |
| 75° | 128.5 | 127.1 | 128.5 | 139.7 | 107.1 | 94.4 | 92.2 | 91.4 | 91.4 | 92.2 | 104.1 |
| 77.5° | 117.5 | 116.1 | 127.1 | 130.1 | 104.1 | 84.7 | 82.6 | 81.0 | 79.5 | 79.5 | 93.0 |
| 80° | 104.1 | 103.3 | 122.7 | 110.0 | 99.6 | 74.3 | 70.6 | 68.5 | 67.0 | 66.1 | 79.5 |
| 82.5° | 90.6 | 89.2 | 104.8 | 86.2 | 82.6 | 60.9 | 55.8 | 51.4 | 49.0 | 49.0 | 60.9 |
| 85° | 74.3 | 73.7 | 82.6 | 63.2 | 57.2 | 44.6 | 37.2 | 33.4 | 30.5 | 30.5 | 39.3 |
| 87.5° | 54.3 | 52.8 | 51.4 | 37.9 | 28.9 | 20.0 | 14.2 | 13.4 | 11.9 | 11.1 | 16.3 |
| 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: P270372

CATALOG NUMBER: NAV-AF-02-D-UNV-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 | 3495.2 |
| 2.5° | 2936.3 | 2998.1 | 3114.8 | 3210.6 | 3338.5 | 3441.0 | 3557.7 | 3608.3 |
| 5° | 2190.6 | 2288.1 | 2466.4 | 2618.9 | 2830.0 | 3025.5 | 3248.5 | 3370.4 |
| 7.5° | 1571.5 | 1715.8 | 1851.0 | 2041.3 | 2305.2 | 2567.5 | 2856.0 | 3017.2 |
| 10° | 1300.1 | 1432.4 | 1548.4 | 1683.8 | 1887.3 | 2182.5 | 2526.8 | 2708.7 |
| 12.5° | 1077.2 | 1219.9 | 1342.4 | 1487.5 | 1658.5 | 1925.2 | 2317.7 | 2529.6 |
| 15° | 825.9 | 981.3 | 1128.5 | 1303.1 | 1512.7 | 1817.5 | 2255.4 | 2491.8 |
| 17.5° | 565.8 | 732.2 | 913.5 | 1127.0 | 1379.6 | 1772.1 | 2314.8 | 2606.3 |
| 20° | 384.4 | 506.3 | 703.3 | 955.9 | 1260.1 | 1750.6 | 2445.6 | 2841.9 |
| 22.5° | 315.9 | 370.9 | 519.0 | 795.4 | 1161.9 | 1774.4 | 2658.3 | 3151.9 |
| 25° | 290.0 | 319.6 | 403.7 | 654.1 | 1086.8 | 1837.7 | 2945.9 | 3502.0 |
| 27.5° | 273.5 | 298.9 | 353.8 | 553.0 | 1017.7 | 1923.8 | 3296.2 | 3930.2 |
| 30° | 263.9 | 287.6 | 333.8 | 501.1 | 954.4 | 1998.2 | 3597.2 | 4252.8 |
| 32.5° | 242.4 | 260.1 | 298.1 | 471.3 | 909.2 | 2058.3 | 3862.5 | 4554.5 |
| 35° | 216.3 | 238.0 | 269.1 | 451.9 | 907.6 | 2086.7 | 4112.4 | 4888.3 |
| 37.5° | 206.7 | 227.5 | 250.4 | 441.5 | 916.6 | 2110.4 | 4417.9 | 5266.8 |
| 40° | 200.7 | 219.2 | 238.0 | 440.1 | 923.9 | 2129.1 | 4716.6 | 5660.7 |
| 42.5° | 195.6 | 214.1 | 235.6 | 429.7 | 921.0 | 2154.2 | 4981.3 | 5998.9 |
| 45° | 194.0 | 212.5 | 240.8 | 414.1 | 920.3 | 2193.8 | 5191.7 | 6269.5 |
| 47.5° | 192.5 | 220.8 | 239.4 | 397.0 | 917.3 | 2276.9 | 5428.7 | 6521.5 |
| 50° | 191.0 | 235.6 | 229.0 | 373.2 | 895.0 | 2418.9 | 5747.6 | 6810.1 |
| 52.5° | 190.4 | 238.0 | 217.7 | 340.5 | 854.8 | 2629.2 | 6214.6 | 7211.4 |
| 55° | 187.3 | 226.0 | 198.4 | 297.3 | 796.8 | 2856.0 | 6714.8 | 7683.5 |
| 57.5° | 180.6 | 201.5 | 187.3 | 254.9 | 713.7 | 3014.4 | 7084.3 | 8048.5 |
| 60° | 197.0 | 173.3 | 179.9 | 233.4 | 614.0 | 3042.6 | 7100.7 | 8151.0 |
| 62.5° | 188.0 | 157.7 | 172.5 | 226.0 | 544.2 | 2858.2 | 6775.7 | 8028.3 |
| 65° | 150.1 | 149.4 | 165.7 | 233.4 | 533.8 | 2445.6 | 6227.2 | 7664.9 |
| 67.5° | 136.8 | 143.5 | 159.1 | 242.4 | 540.4 | 1926.9 | 5419.8 | 6815.9 |
| 70° | 127.9 | 136.1 | 150.1 | 250.4 | 552.3 | 1518.0 | 4363.5 | 5543.4 |
| 72.5° | 118.9 | 125.7 | 141.3 | 258.7 | 544.2 | 1197.6 | 3492.3 | 4270.0 |
| 75° | 107.7 | 113.7 | 128.5 | 237.2 | 466.8 | 880.2 | 2775.0 | 3032.1 |
| 77.5° | 95.1 | 100.3 | 112.9 | 187.3 | 350.9 | 612.6 | 2078.5 | 2185.4 |
| 80° | 81.7 | 84.0 | 93.7 | 136.8 | 229.0 | 366.5 | 1581.8 | 1743.3 |
| 82.5° | 64.7 | 65.4 | 71.3 | 100.3 | 142.7 | 234.2 | 1097.2 | 1252.5 |
| 85° | 41.6 | 43.1 | 46.2 | 70.6 | 95.8 | 150.1 | 560.5 | 642.3 |
| 87.5° | 14.2 | 16.3 | 16.3 | 34.1 | 46.8 | 83.3 | 171.8 | 124.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)