

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: STREETWORKS

Report Number: P966700

Luminaire Tested: **NVN-SB4C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32263.9 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

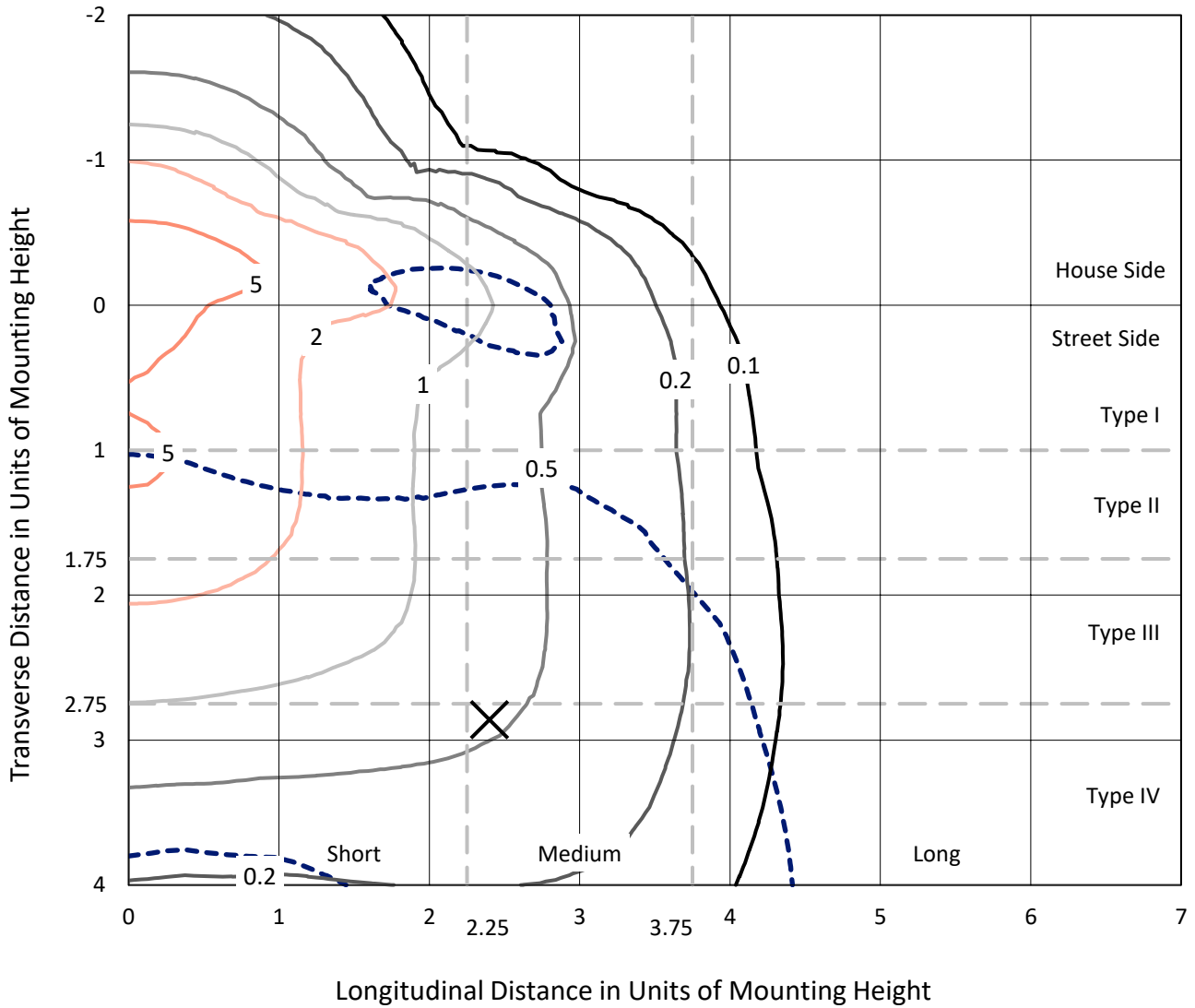
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

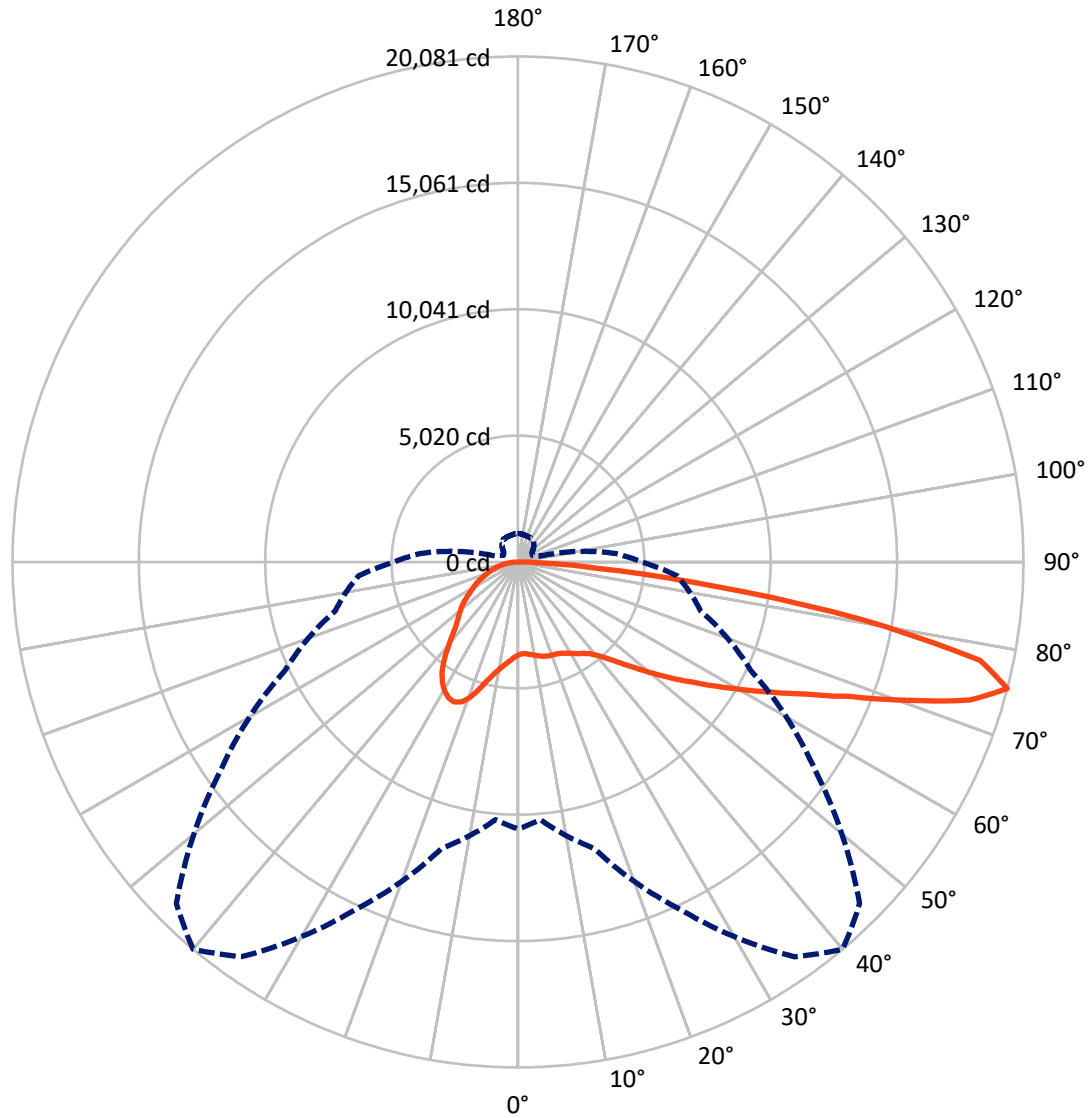
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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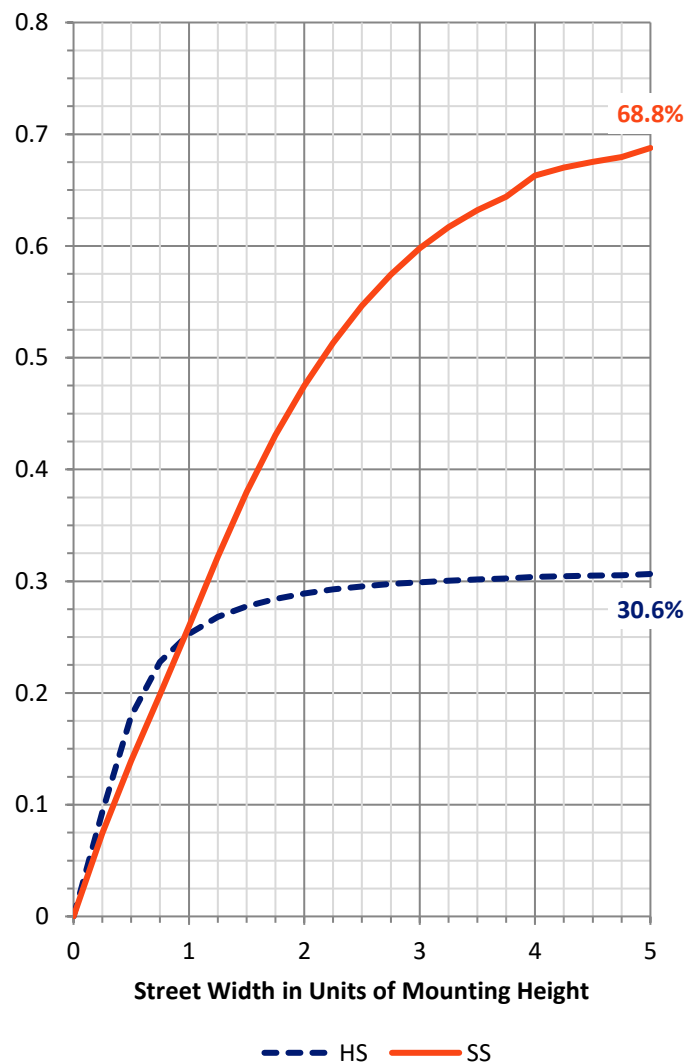
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9996.4 | 0.0 | 9996.4 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 22267.5 | 0.0 | 22267.5 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 32263.9 | 0.0 | 32263.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 368.3 | 1.1 |
| 10°-20° | 1236.5 | 3.8 |
| 20°-30° | 2257.7 | 7.0 |
| 30°-40° | 3202.0 | 9.9 |
| 40°-50° | 4323.7 | 13.4 |
| 50°-60° | 5816.5 | 18.0 |
| 60°-70° | 7382.5 | 22.9 |
| 70°-80° | 6700.1 | 20.8 |
| 80°-90° | 976.7 | 3.0 |
| 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° | 32263.9 | 100.0 |
| 0°-180° | 32263.9 | 100.0 |

Coefficient of Utilization



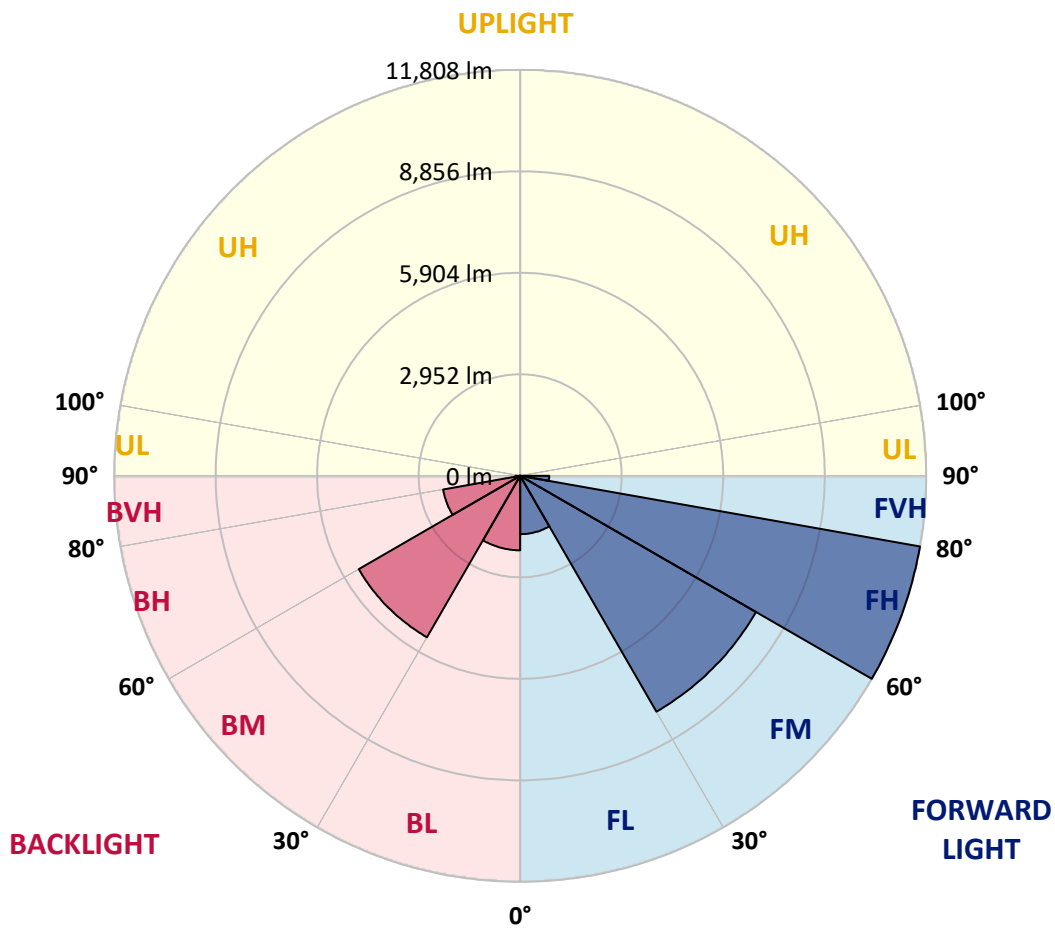
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1697.1 | 5.3 | | | |
| FM (30°-60°) | 7920.1 | 24.5 | | | |
| FH (60°-80°) | 11808.1 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 842.2 | 2.6 | | | G5 |
| BL (0°-30°) | 2165.3 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5422.2 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2274.5 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 134.5 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 0° | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 |
| 2.5° | 3632.9 | 3653.5 | 3648.4 | 3641.5 | 3641.5 | 3643.3 | 3641.5 | 3653.5 | 3665.5 | 3677.5 | 3696.3 |
| 5° | 3670.6 | 3691.1 | 3680.9 | 3672.3 | 3665.5 | 3663.8 | 3658.6 | 3656.9 | 3663.8 | 3679.1 | 3704.9 |
| 7.5° | 3744.2 | 3764.7 | 3749.3 | 3733.9 | 3720.2 | 3713.4 | 3706.5 | 3696.3 | 3691.1 | 3699.7 | 3735.6 |
| 10° | 3826.3 | 3846.8 | 3828.1 | 3800.7 | 3778.5 | 3769.8 | 3763.0 | 3752.7 | 3745.9 | 3751.0 | 3790.3 |
| 12.5° | 3908.4 | 3929.0 | 3903.3 | 3865.7 | 3836.6 | 3831.4 | 3822.9 | 3819.5 | 3817.7 | 3816.1 | 3855.4 |
| 15° | 3985.5 | 4002.6 | 3970.0 | 3925.5 | 3894.8 | 3886.2 | 3877.7 | 3882.8 | 3891.3 | 3901.7 | 3946.1 |
| 17.5° | 4045.4 | 4062.5 | 4014.5 | 3956.4 | 3927.3 | 3923.9 | 3918.7 | 3935.8 | 3959.8 | 3985.5 | 4040.2 |
| 20° | 4100.1 | 4117.2 | 4055.6 | 3976.9 | 3942.7 | 3942.7 | 3944.4 | 3980.4 | 4014.5 | 4052.2 | 4127.5 |
| 22.5° | 4177.1 | 4190.8 | 4115.5 | 4007.7 | 3958.0 | 3961.5 | 3975.2 | 4011.1 | 4053.9 | 4105.2 | 4209.7 |
| 25° | 4291.8 | 4302.0 | 4209.7 | 4065.9 | 4009.4 | 4019.6 | 4031.6 | 4048.7 | 4089.9 | 4149.7 | 4290.0 |
| 27.5° | 4476.6 | 4485.2 | 4363.6 | 4168.6 | 4083.0 | 4100.1 | 4117.2 | 4105.2 | 4124.1 | 4175.4 | 4355.1 |
| 30° | 4736.7 | 4741.9 | 4587.8 | 4329.4 | 4207.9 | 4216.4 | 4219.9 | 4170.3 | 4134.3 | 4175.4 | 4401.2 |
| 32.5° | 5044.7 | 5043.0 | 4859.9 | 4524.6 | 4350.0 | 4341.4 | 4312.3 | 4214.8 | 4131.0 | 4166.8 | 4442.3 |
| 35° | 5522.2 | 5503.3 | 5267.2 | 4798.3 | 4510.8 | 4457.7 | 4389.4 | 4264.4 | 4148.1 | 4158.3 | 4478.3 |
| 37.5° | 6312.8 | 6254.5 | 5927.7 | 5246.7 | 4750.4 | 4615.2 | 4514.2 | 4344.9 | 4185.7 | 4154.8 | 4521.1 |
| 40° | 7204.3 | 7130.7 | 6771.4 | 5861.0 | 5109.7 | 4892.4 | 4729.9 | 4459.5 | 4247.3 | 4170.3 | 4584.4 |
| 42.5° | 8261.8 | 8157.5 | 7770.7 | 6584.8 | 5564.9 | 5250.0 | 5005.4 | 4604.9 | 4338.0 | 4219.9 | 4670.0 |
| 45° | 9560.7 | 9422.1 | 8874.4 | 7401.1 | 6138.2 | 5719.0 | 5392.1 | 4825.7 | 4476.6 | 4315.8 | 4798.3 |
| 47.5° | 10873.2 | 10907.4 | 10128.8 | 8335.4 | 6826.1 | 6297.4 | 5876.4 | 5157.7 | 4678.5 | 4469.7 | 5005.4 |
| 50° | 12267.8 | 12291.8 | 11376.3 | 9370.8 | 7606.4 | 6951.0 | 6420.6 | 5529.0 | 4959.2 | 4688.8 | 5315.1 |
| 52.5° | 13356.2 | 13359.6 | 12509.1 | 10454.0 | 8419.2 | 7669.8 | 7007.5 | 5953.4 | 5284.3 | 4979.7 | 5727.5 |
| 55° | 14037.3 | 14028.7 | 13303.2 | 11479.0 | 9353.6 | 8424.4 | 7657.8 | 6436.0 | 5681.3 | 5321.9 | 6246.0 |
| 57.5° | 14531.8 | 14506.1 | 13850.7 | 12360.3 | 10349.5 | 9315.9 | 8393.6 | 6983.5 | 6150.2 | 5729.2 | 6928.8 |
| 60° | 14720.0 | 14704.6 | 14222.1 | 13121.7 | 11396.9 | 10301.7 | 9242.4 | 7596.2 | 6682.4 | 6210.1 | 7806.6 |
| 62.5° | 14791.9 | 14821.0 | 14586.6 | 13859.3 | 12517.7 | 11393.4 | 10175.0 | 8328.5 | 7281.3 | 6754.2 | 8732.4 |
| 65° | 15045.2 | 15098.2 | 15050.3 | 14824.5 | 13784.0 | 12671.7 | 11412.2 | 9199.6 | 7935.0 | 7337.8 | 9699.3 |
| 67.5° | 15546.6 | 15599.6 | 15620.2 | 15979.5 | 15330.9 | 14264.8 | 12955.8 | 10284.5 | 8699.9 | 7943.5 | 10426.5 |
| 70° | 15534.6 | 15519.2 | 15882.0 | 16898.5 | 17268.1 | 16470.6 | 15036.6 | 11619.3 | 9612.0 | 8446.6 | 10519.0 |
| 72.5° | 14140.0 | 14016.8 | 14874.1 | 16888.2 | 18880.1 | 18774.0 | 17577.8 | 13340.8 | 10399.1 | 8508.2 | 9127.7 |
| 75° | 10607.9 | 10279.4 | 11793.9 | 15219.7 | 19148.7 | 20081.4 | 19193.2 | 14408.6 | 10212.7 | 7517.5 | 6352.1 |
| 77.5° | 4536.4 | 4206.2 | 5991.0 | 11266.8 | 17138.0 | 18772.3 | 17711.3 | 12570.7 | 8152.3 | 4971.1 | 3119.6 |
| 80° | 1187.6 | 1185.9 | 1810.5 | 5108.1 | 11655.2 | 13862.7 | 12161.7 | 8118.1 | 4658.0 | 1776.2 | 860.8 |
| 82.5° | 491.1 | 479.2 | 665.6 | 1986.8 | 5695.0 | 7779.2 | 6348.6 | 3621.0 | 1682.1 | 480.8 | 285.8 |
| 85° | 183.1 | 181.4 | 323.4 | 686.2 | 2009.0 | 3208.6 | 2322.1 | 925.8 | 419.2 | 234.4 | 128.3 |
| 87.5° | 51.4 | 49.6 | 70.1 | 237.9 | 489.4 | 742.7 | 397.0 | 152.3 | 118.1 | 92.5 | 37.6 |
| 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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 CATALOG NUMBER: NVN-SB4C-740-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 | 3689.4 |
| 2.5° | 3701.4 | 3710.0 | 3725.4 | 3737.4 | 3752.7 | 3769.8 | 3793.8 | 3809.2 | 3824.6 | 3834.8 | 3828.1 |
| 5° | 3716.8 | 3735.6 | 3775.0 | 3814.3 | 3860.6 | 3903.3 | 3952.9 | 3988.9 | 4018.0 | 4026.5 | 4030.0 |
| 7.5° | 3751.0 | 3781.8 | 3848.6 | 3915.3 | 3988.9 | 4059.0 | 4131.0 | 4192.6 | 4242.2 | 4260.9 | 4262.7 |
| 10° | 3811.0 | 3852.0 | 3946.1 | 4040.2 | 4137.7 | 4245.5 | 4338.0 | 4427.0 | 4497.1 | 4526.2 | 4527.9 |
| 12.5° | 3886.2 | 3937.5 | 4060.7 | 4190.8 | 4326.0 | 4474.8 | 4594.7 | 4704.1 | 4791.5 | 4830.8 | 4830.8 |
| 15° | 3983.8 | 4050.5 | 4207.9 | 4382.5 | 4580.9 | 4788.1 | 4940.3 | 5061.9 | 5159.3 | 5207.3 | 5203.8 |
| 17.5° | 4089.9 | 4178.8 | 4377.4 | 4640.9 | 4924.9 | 5197.1 | 5375.0 | 5464.0 | 5564.9 | 5611.2 | 5609.4 |
| 20° | 4192.6 | 4302.0 | 4586.2 | 4969.4 | 5347.6 | 5636.8 | 5780.6 | 5804.5 | 5811.3 | 5816.5 | 5830.2 |
| 22.5° | 4298.6 | 4445.8 | 4847.9 | 5383.5 | 5789.1 | 5989.3 | 6009.9 | 5907.2 | 5763.5 | 5696.7 | 5715.5 |
| 25° | 4415.0 | 4610.0 | 5190.2 | 5840.4 | 6169.0 | 6192.9 | 6035.5 | 5785.7 | 5513.6 | 5388.6 | 5407.5 |
| 27.5° | 4527.9 | 4800.0 | 5600.9 | 6276.8 | 6442.8 | 6232.3 | 5893.4 | 5539.3 | 5210.7 | 5079.0 | 5094.4 |
| 30° | 4640.9 | 5017.4 | 6054.4 | 6658.4 | 6567.7 | 6134.7 | 5669.3 | 5274.0 | 4943.8 | 4805.1 | 4820.6 |
| 32.5° | 4755.5 | 5270.7 | 6576.3 | 6933.9 | 6545.4 | 5927.7 | 5390.4 | 4976.3 | 4685.4 | 4539.9 | 4558.7 |
| 35° | 4885.6 | 5582.0 | 7070.9 | 7084.5 | 6396.6 | 5623.2 | 5022.5 | 4620.3 | 4367.1 | 4250.7 | 4276.4 |
| 37.5° | 5055.0 | 5977.4 | 7507.2 | 7122.1 | 6136.5 | 5176.5 | 4565.6 | 4199.3 | 3990.6 | 3937.5 | 3975.2 |
| 40° | 5265.4 | 6453.1 | 7840.8 | 7062.2 | 5751.5 | 4634.0 | 4065.9 | 3773.2 | 3655.2 | 3667.1 | 3708.2 |
| 42.5° | 5539.3 | 6985.3 | 8075.4 | 6908.3 | 5215.8 | 4074.5 | 3627.8 | 3497.8 | 3554.2 | 3602.2 | 3646.6 |
| 45° | 5895.2 | 7538.0 | 8220.8 | 6646.4 | 4610.0 | 3600.4 | 3369.4 | 3400.2 | 3443.0 | 3448.1 | 3482.3 |
| 47.5° | 6350.4 | 8097.6 | 8316.6 | 6251.2 | 3992.3 | 3266.8 | 3205.2 | 3211.9 | 3203.4 | 3167.5 | 3194.9 |
| 50° | 6918.5 | 8641.8 | 8402.1 | 5727.5 | 3467.0 | 3058.0 | 2975.9 | 2951.9 | 2833.8 | 2717.5 | 2732.9 |
| 52.5° | 7565.3 | 9141.5 | 8438.1 | 5077.2 | 3058.0 | 2883.4 | 2750.0 | 2599.4 | 2378.6 | 2342.6 | 2354.6 |
| 55° | 8284.0 | 9603.4 | 8345.7 | 4278.0 | 2714.0 | 2659.3 | 2457.3 | 2275.9 | 2252.0 | 2221.2 | 2226.3 |
| 57.5° | 9143.1 | 10101.4 | 8157.5 | 3386.5 | 2361.5 | 2397.5 | 2200.7 | 2221.2 | 2178.4 | 2130.5 | 2122.0 |
| 60° | 10082.6 | 10616.5 | 7827.2 | 2573.7 | 1997.0 | 2070.6 | 2133.9 | 2132.2 | 2120.2 | 2080.9 | 2067.2 |
| 62.5° | 10927.9 | 10955.3 | 7176.9 | 1971.4 | 1677.0 | 1817.3 | 1990.1 | 1988.5 | 1978.1 | 1955.9 | 1947.4 |
| 65° | 11431.0 | 10903.9 | 6092.0 | 1552.1 | 1413.5 | 1608.5 | 1795.1 | 1808.8 | 1810.5 | 1808.8 | 1808.8 |
| 67.5° | 11342.0 | 10303.3 | 4603.2 | 1235.5 | 1196.2 | 1396.4 | 1601.7 | 1620.5 | 1634.3 | 1637.6 | 1641.0 |
| 70° | 10335.9 | 8984.0 | 3001.5 | 985.6 | 1002.8 | 1209.8 | 1418.6 | 1437.5 | 1449.5 | 1463.1 | 1470.0 |
| 72.5° | 8056.5 | 6605.4 | 1718.1 | 797.4 | 833.3 | 1049.0 | 1237.2 | 1259.5 | 1266.3 | 1292.0 | 1302.3 |
| 75° | 4909.5 | 3884.5 | 927.5 | 628.0 | 684.5 | 896.7 | 1057.5 | 1083.2 | 1095.2 | 1126.0 | 1129.4 |
| 77.5° | 2334.1 | 1682.1 | 528.8 | 489.4 | 551.0 | 732.4 | 893.3 | 922.4 | 889.8 | 906.9 | 893.3 |
| 80° | 788.8 | 624.6 | 333.7 | 373.1 | 421.0 | 571.5 | 715.3 | 744.4 | 676.0 | 672.5 | 665.6 |
| 82.5° | 275.5 | 253.3 | 212.2 | 248.2 | 272.1 | 409.0 | 540.8 | 578.4 | 503.1 | 501.4 | 477.4 |
| 85° | 107.8 | 102.7 | 118.1 | 135.2 | 162.6 | 251.5 | 356.0 | 374.7 | 309.8 | 249.8 | 246.4 |
| 87.5° | 22.2 | 24.0 | 29.1 | 30.9 | 49.6 | 87.2 | 128.3 | 157.4 | 124.9 | 106.1 | 97.6 |
| 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)