

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: P967227

Luminaire Tested: **NVN-SB4D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967227
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-SB4D-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43840.3 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

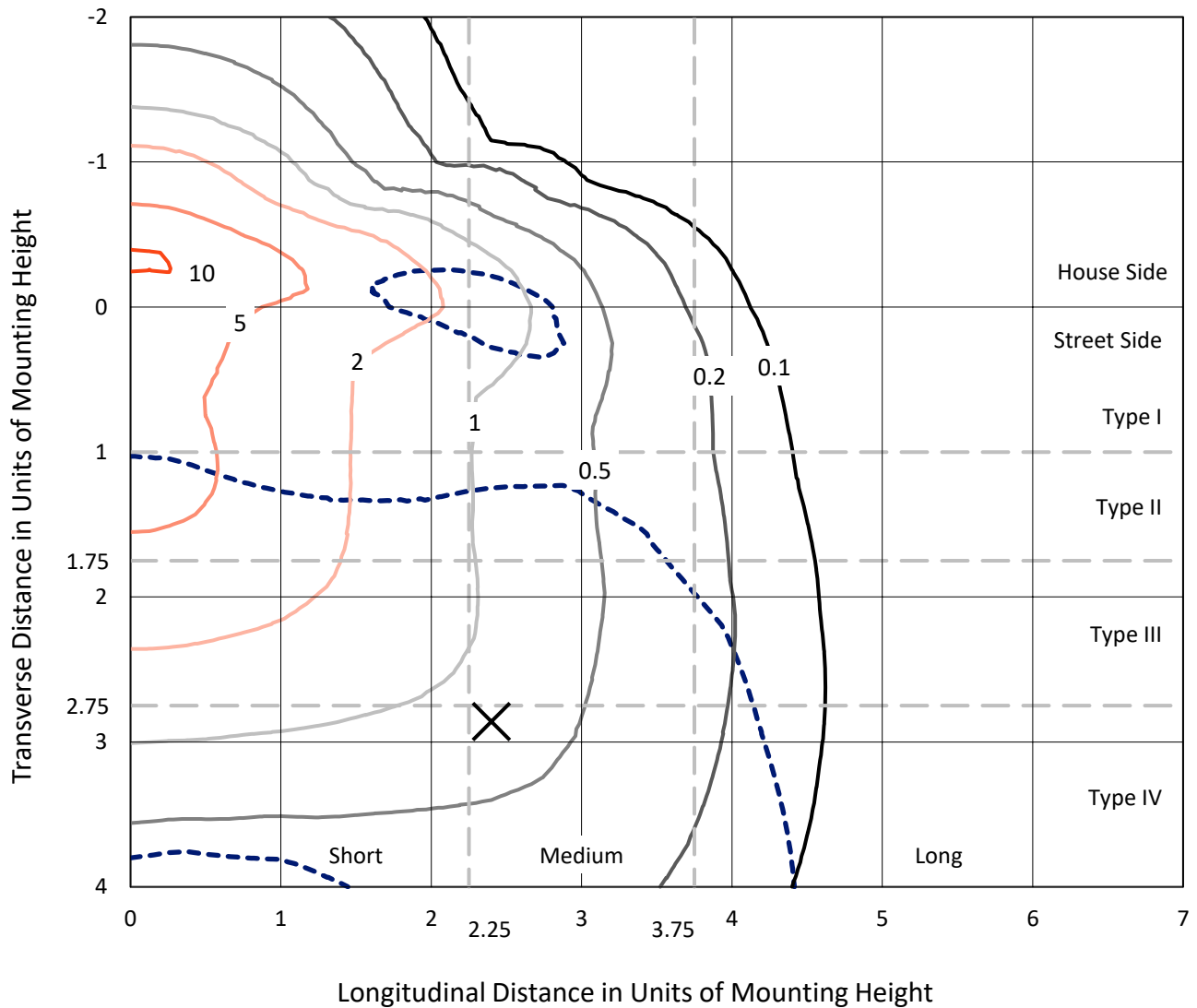
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

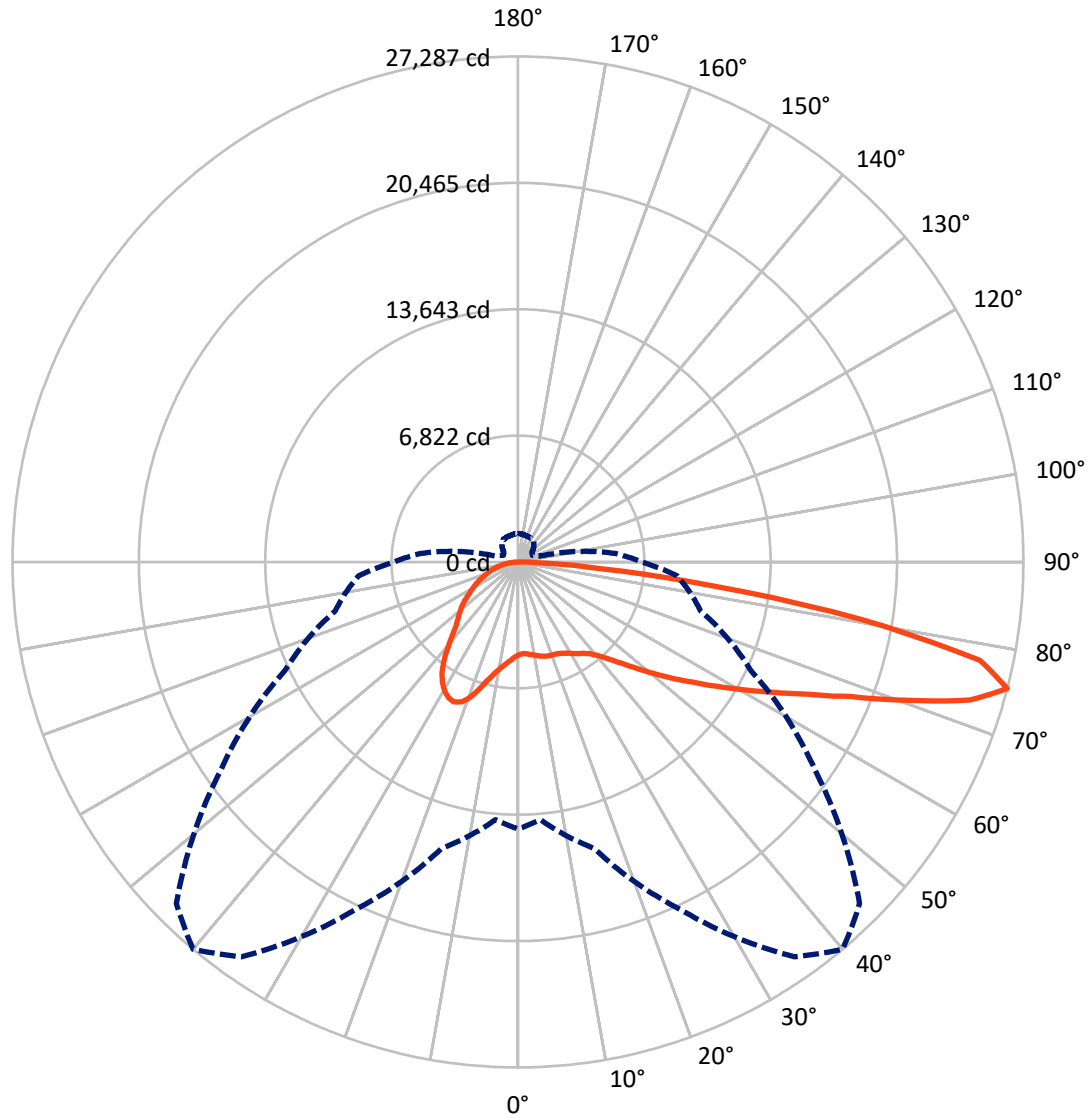
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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 | 13583.2 | 0.0 | 13583.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 30257.1 | 0.0 | 30257.1 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 43840.3 | 0.0 | 43840.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 500.4 | 1.1 |
| 10°-20° | 1680.1 | 3.8 |
| 20°-30° | 3067.8 | 7.0 |
| 30°-40° | 4350.9 | 9.9 |
| 40°-50° | 5875.0 | 13.4 |
| 50°-60° | 7903.5 | 18.0 |
| 60°-70° | 10031.4 | 22.9 |
| 70°-80° | 9104.1 | 20.8 |
| 80°-90° | 1327.1 | 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° | 43840.3 | 100.0 |
| 0°-180° | 43840.3 | 100.0 |

Coefficient of Utilization



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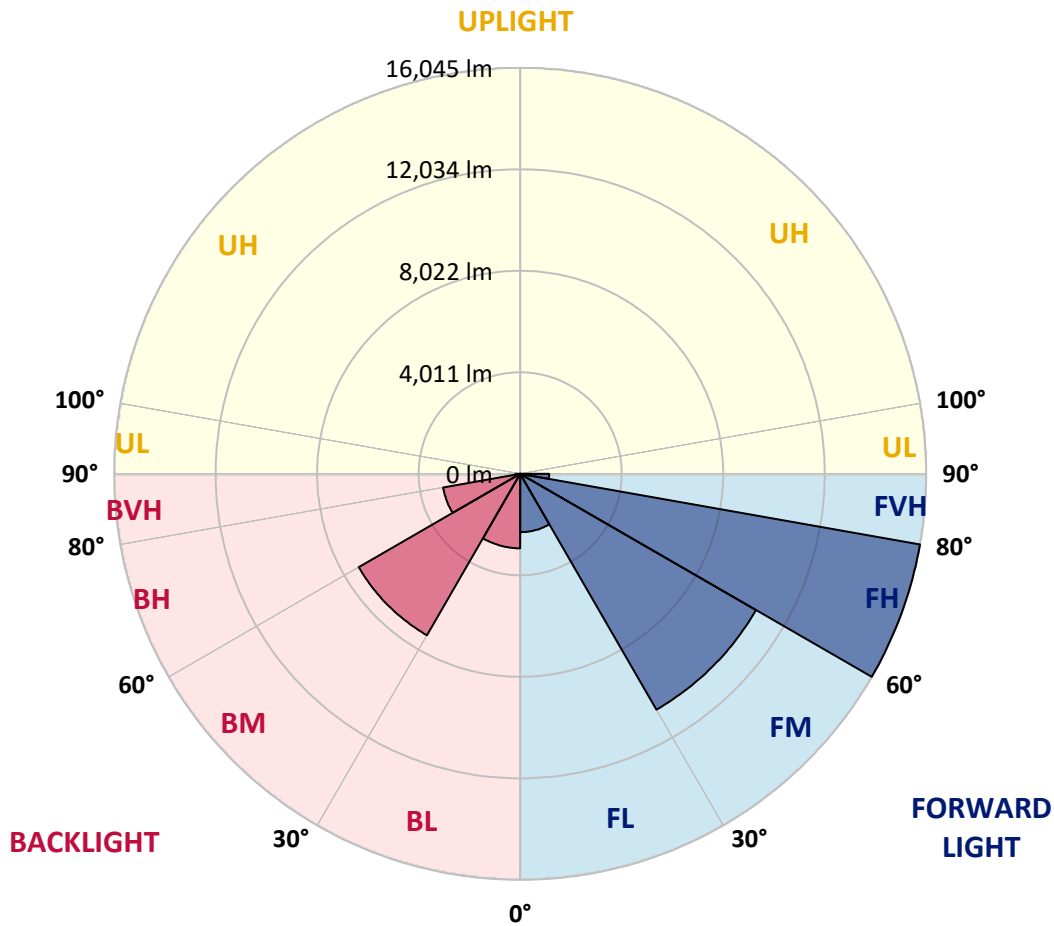
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2306.0 | 5.3 | | | |
| FM (30°-60°) | 10761.8 | 24.5 | | | |
| FH (60°-80°) | 16044.9 | 36.6 | | | G5 |
| FVH (80°-90°) | 1144.4 | 2.6 | | | G5 |
| BL (0°-30°) | 2942.2 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 7367.7 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 3090.6 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 182.7 | 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° | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 |
| 2.5° | 4936.5 | 4964.4 | 4957.4 | 4948.1 | 4948.1 | 4950.4 | 4948.1 | 4964.4 | 4980.7 | 4996.9 | 5022.5 |
| 5° | 4987.6 | 5015.5 | 5001.6 | 4989.9 | 4980.7 | 4978.3 | 4971.4 | 4969.0 | 4978.3 | 4999.2 | 5034.1 |
| 7.5° | 5087.6 | 5115.5 | 5094.6 | 5073.6 | 5055.1 | 5045.8 | 5036.4 | 5022.5 | 5015.5 | 5027.1 | 5076.0 |
| 10° | 5199.2 | 5227.1 | 5201.6 | 5164.4 | 5134.1 | 5122.4 | 5113.2 | 5099.3 | 5089.9 | 5096.9 | 5150.4 |
| 12.5° | 5310.8 | 5338.7 | 5303.9 | 5252.7 | 5213.2 | 5206.2 | 5194.6 | 5189.9 | 5187.6 | 5185.3 | 5238.8 |
| 15° | 5415.5 | 5438.8 | 5394.6 | 5334.1 | 5292.2 | 5280.6 | 5269.0 | 5276.0 | 5287.6 | 5301.5 | 5362.0 |
| 17.5° | 5496.9 | 5520.1 | 5454.9 | 5375.9 | 5336.4 | 5331.7 | 5324.8 | 5348.0 | 5380.5 | 5415.5 | 5489.9 |
| 20° | 5571.3 | 5594.4 | 5510.8 | 5403.8 | 5357.4 | 5357.4 | 5359.6 | 5408.5 | 5454.9 | 5506.1 | 5608.5 |
| 22.5° | 5675.8 | 5694.5 | 5592.2 | 5445.7 | 5378.3 | 5382.9 | 5401.5 | 5450.3 | 5508.5 | 5578.3 | 5720.0 |
| 25° | 5831.6 | 5845.6 | 5720.0 | 5524.7 | 5448.0 | 5461.9 | 5478.2 | 5501.5 | 5557.3 | 5638.7 | 5829.4 |
| 27.5° | 6082.8 | 6094.4 | 5929.3 | 5664.3 | 5548.0 | 5571.3 | 5594.4 | 5578.3 | 5603.8 | 5673.6 | 5917.7 |
| 30° | 6436.3 | 6443.3 | 6233.9 | 5882.8 | 5717.8 | 5729.3 | 5734.1 | 5666.6 | 5617.7 | 5673.6 | 5980.5 |
| 32.5° | 6854.8 | 6852.4 | 6603.7 | 6148.0 | 5910.8 | 5899.1 | 5859.6 | 5727.1 | 5613.1 | 5661.9 | 6036.3 |
| 35° | 7503.5 | 7477.9 | 7157.1 | 6519.9 | 6129.3 | 6057.2 | 5964.2 | 5794.4 | 5636.4 | 5650.3 | 6085.1 |
| 37.5° | 8577.8 | 8498.7 | 8054.6 | 7129.2 | 6454.8 | 6271.2 | 6133.9 | 5903.8 | 5687.5 | 5645.7 | 6143.2 |
| 40° | 9789.3 | 9689.2 | 9200.9 | 7963.9 | 6943.1 | 6647.8 | 6427.0 | 6059.6 | 5771.3 | 5666.6 | 6229.3 |
| 42.5° | 11226.2 | 11084.3 | 10558.8 | 8947.5 | 7561.6 | 7133.8 | 6801.3 | 6257.2 | 5894.5 | 5734.1 | 6345.6 |
| 45° | 12991.1 | 12802.7 | 12058.6 | 10056.6 | 8340.6 | 7770.9 | 7326.8 | 6557.1 | 6082.8 | 5864.2 | 6519.9 |
| 47.5° | 14774.6 | 14821.0 | 13763.0 | 11326.1 | 9275.3 | 8556.8 | 7984.9 | 7008.2 | 6357.2 | 6073.5 | 6801.3 |
| 50° | 16669.6 | 16702.2 | 15458.1 | 12733.0 | 10335.7 | 9445.1 | 8724.3 | 7512.8 | 6738.6 | 6371.1 | 7222.2 |
| 52.5° | 18148.4 | 18153.1 | 16997.5 | 14204.9 | 11440.1 | 10421.7 | 9521.8 | 8089.5 | 7180.3 | 6766.4 | 7782.5 |
| 55° | 19073.8 | 19062.2 | 18076.3 | 15597.6 | 12709.7 | 11447.1 | 10405.4 | 8745.2 | 7719.8 | 7231.5 | 8487.1 |
| 57.5° | 19745.8 | 19711.0 | 18820.4 | 16795.1 | 14063.0 | 12658.5 | 11405.3 | 9489.2 | 8356.8 | 7784.9 | 9414.8 |
| 60° | 20001.6 | 19980.7 | 19324.9 | 17829.9 | 15486.0 | 13997.9 | 12558.6 | 10321.6 | 9080.1 | 8438.2 | 10607.7 |
| 62.5° | 20099.3 | 20138.8 | 19820.2 | 18832.0 | 17009.1 | 15481.4 | 13825.8 | 11316.9 | 9893.8 | 9177.6 | 11865.6 |
| 65° | 20443.4 | 20515.5 | 20450.4 | 20143.5 | 18729.7 | 17218.4 | 15506.9 | 12500.4 | 10782.1 | 9970.6 | 13179.3 |
| 67.5° | 21124.7 | 21196.8 | 21224.7 | 21713.0 | 20831.7 | 19383.2 | 17604.3 | 13974.6 | 11821.4 | 10793.8 | 14167.7 |
| 70° | 21108.4 | 21087.5 | 21580.5 | 22961.6 | 23463.9 | 22380.4 | 20431.8 | 15788.3 | 13060.9 | 11477.3 | 14293.2 |
| 72.5° | 19213.3 | 19045.9 | 20210.8 | 22947.7 | 25654.2 | 25510.1 | 23884.8 | 18127.5 | 14130.4 | 11561.1 | 12402.8 |
| 75° | 14414.1 | 13967.7 | 16025.5 | 20680.6 | 26019.3 | 27286.5 | 26079.8 | 19578.4 | 13877.0 | 10214.7 | 8631.2 |
| 77.5° | 6164.1 | 5715.4 | 8140.7 | 15309.3 | 23287.2 | 25507.7 | 24066.1 | 17081.1 | 11077.4 | 6754.7 | 4238.9 |
| 80° | 1613.8 | 1611.4 | 2460.1 | 6940.8 | 15837.2 | 18836.6 | 16525.4 | 11030.8 | 6329.3 | 2413.6 | 1169.6 |
| 82.5° | 667.4 | 651.1 | 904.6 | 2699.5 | 7738.3 | 10570.5 | 8626.6 | 4920.2 | 2285.8 | 653.4 | 388.3 |
| 85° | 248.8 | 246.5 | 439.4 | 932.4 | 2729.8 | 4359.8 | 3155.4 | 1258.0 | 569.7 | 318.6 | 174.4 |
| 87.5° | 69.8 | 67.4 | 95.3 | 323.2 | 665.0 | 1009.1 | 539.5 | 206.9 | 160.4 | 125.6 | 51.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 | 5013.2 |
| 2.5° | 5029.5 | 5041.1 | 5062.1 | 5078.3 | 5099.3 | 5122.4 | 5155.0 | 5175.9 | 5196.9 | 5210.8 | 5201.6 |
| 5° | 5050.4 | 5076.0 | 5129.4 | 5182.9 | 5245.7 | 5303.9 | 5371.3 | 5420.1 | 5459.7 | 5471.2 | 5476.0 |
| 7.5° | 5096.9 | 5138.7 | 5229.4 | 5320.2 | 5420.1 | 5515.4 | 5613.1 | 5696.8 | 5764.3 | 5789.8 | 5792.2 |
| 10° | 5178.3 | 5234.1 | 5362.0 | 5489.9 | 5622.4 | 5768.9 | 5894.5 | 6015.4 | 6110.7 | 6150.2 | 6152.6 |
| 12.5° | 5280.6 | 5350.4 | 5517.8 | 5694.5 | 5878.2 | 6080.5 | 6243.3 | 6392.1 | 6510.6 | 6564.1 | 6564.1 |
| 15° | 5413.1 | 5503.8 | 5717.8 | 5954.9 | 6224.6 | 6506.0 | 6712.9 | 6878.1 | 7010.6 | 7075.7 | 7071.1 |
| 17.5° | 5557.3 | 5678.2 | 5948.0 | 6306.0 | 6692.0 | 7061.7 | 7303.5 | 7424.5 | 7561.6 | 7624.5 | 7622.1 |
| 20° | 5696.8 | 5845.6 | 6231.6 | 6752.5 | 7266.3 | 7659.3 | 7854.6 | 7887.2 | 7896.5 | 7903.5 | 7922.0 |
| 22.5° | 5841.0 | 6040.9 | 6587.4 | 7315.2 | 7866.3 | 8138.3 | 8166.2 | 8026.7 | 7831.4 | 7740.7 | 7766.2 |
| 25° | 5999.1 | 6264.2 | 7052.4 | 7936.0 | 8382.4 | 8415.0 | 8201.1 | 7861.6 | 7491.9 | 7322.2 | 7347.7 |
| 27.5° | 6152.6 | 6522.3 | 7610.5 | 8528.9 | 8754.5 | 8468.4 | 8008.1 | 7526.8 | 7080.3 | 6901.3 | 6922.2 |
| 30° | 6306.0 | 6817.6 | 8226.6 | 9047.5 | 8924.3 | 8335.9 | 7703.5 | 7166.4 | 6717.5 | 6529.2 | 6550.2 |
| 32.5° | 6461.8 | 7161.7 | 8935.8 | 9421.8 | 8894.0 | 8054.6 | 7324.4 | 6761.7 | 6366.5 | 6168.9 | 6194.4 |
| 35° | 6638.5 | 7584.9 | 9607.8 | 9626.5 | 8691.7 | 7640.7 | 6824.6 | 6278.1 | 5934.0 | 5775.9 | 5810.7 |
| 37.5° | 6868.7 | 8122.0 | 10200.8 | 9677.6 | 8338.3 | 7033.9 | 6203.7 | 5706.1 | 5422.5 | 5350.4 | 5401.5 |
| 40° | 7154.7 | 8768.5 | 10654.2 | 9596.3 | 7815.1 | 6296.7 | 5524.7 | 5127.2 | 4966.7 | 4982.9 | 5038.8 |
| 42.5° | 7526.8 | 9491.6 | 10972.7 | 9386.9 | 7087.3 | 5536.3 | 4929.5 | 4752.7 | 4829.5 | 4894.6 | 4955.1 |
| 45° | 8010.4 | 10242.6 | 11170.4 | 9031.2 | 6264.2 | 4892.3 | 4578.4 | 4620.2 | 4678.4 | 4685.4 | 4731.8 |
| 47.5° | 8629.0 | 11003.0 | 11300.6 | 8494.1 | 5424.7 | 4438.9 | 4355.1 | 4364.4 | 4352.9 | 4304.0 | 4341.2 |
| 50° | 9400.9 | 11742.4 | 11416.9 | 7782.5 | 4710.9 | 4155.1 | 4043.5 | 4011.0 | 3850.6 | 3692.5 | 3713.4 |
| 52.5° | 10279.8 | 12421.4 | 11465.8 | 6899.0 | 4155.1 | 3918.0 | 3736.6 | 3532.0 | 3232.0 | 3183.2 | 3199.5 |
| 55° | 11256.4 | 13049.2 | 11340.2 | 5813.1 | 3687.8 | 3613.4 | 3339.0 | 3092.5 | 3060.0 | 3018.1 | 3025.1 |
| 57.5° | 12423.7 | 13725.9 | 11084.3 | 4601.6 | 3208.9 | 3257.7 | 2990.2 | 3018.1 | 2960.0 | 2894.9 | 2883.3 |
| 60° | 13700.3 | 14425.7 | 10635.6 | 3497.1 | 2713.6 | 2813.5 | 2899.5 | 2897.3 | 2881.0 | 2827.5 | 2808.9 |
| 62.5° | 14848.9 | 14886.1 | 9752.1 | 2678.6 | 2278.7 | 2469.4 | 2704.3 | 2701.9 | 2688.0 | 2657.7 | 2646.1 |
| 65° | 15532.5 | 14816.4 | 8277.8 | 2108.9 | 1920.6 | 2185.7 | 2439.2 | 2457.7 | 2460.1 | 2457.7 | 2457.7 |
| 67.5° | 15411.6 | 14000.2 | 6254.9 | 1678.8 | 1625.3 | 1897.4 | 2176.4 | 2202.0 | 2220.6 | 2225.3 | 2229.9 |
| 70° | 14044.3 | 12207.4 | 4078.5 | 1339.4 | 1362.6 | 1643.9 | 1927.6 | 1953.2 | 1969.4 | 1988.1 | 1997.4 |
| 72.5° | 10947.2 | 8975.4 | 2334.5 | 1083.5 | 1132.4 | 1425.4 | 1681.1 | 1711.3 | 1720.7 | 1755.5 | 1769.5 |
| 75° | 6671.1 | 5278.2 | 1260.2 | 853.3 | 930.1 | 1218.4 | 1436.9 | 1471.9 | 1488.2 | 1530.0 | 1534.6 |
| 77.5° | 3171.7 | 2285.8 | 718.5 | 665.0 | 748.8 | 995.2 | 1213.8 | 1253.3 | 1209.1 | 1232.4 | 1213.8 |
| 80° | 1071.9 | 848.7 | 453.5 | 506.9 | 572.1 | 776.6 | 971.9 | 1011.5 | 918.5 | 913.8 | 904.6 |
| 82.5° | 374.3 | 344.1 | 288.3 | 337.1 | 369.7 | 555.8 | 734.8 | 786.0 | 683.6 | 681.3 | 648.7 |
| 85° | 146.5 | 139.5 | 160.4 | 183.7 | 220.9 | 341.8 | 483.7 | 509.2 | 420.9 | 339.5 | 334.9 |
| 87.5° | 30.2 | 32.6 | 39.6 | 41.8 | 67.4 | 118.6 | 174.4 | 213.9 | 169.7 | 144.1 | 132.5 |
| 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)