

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: P965119

Luminaire Tested: **NVN-SB3D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965119
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-SB3D-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 32820.5 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

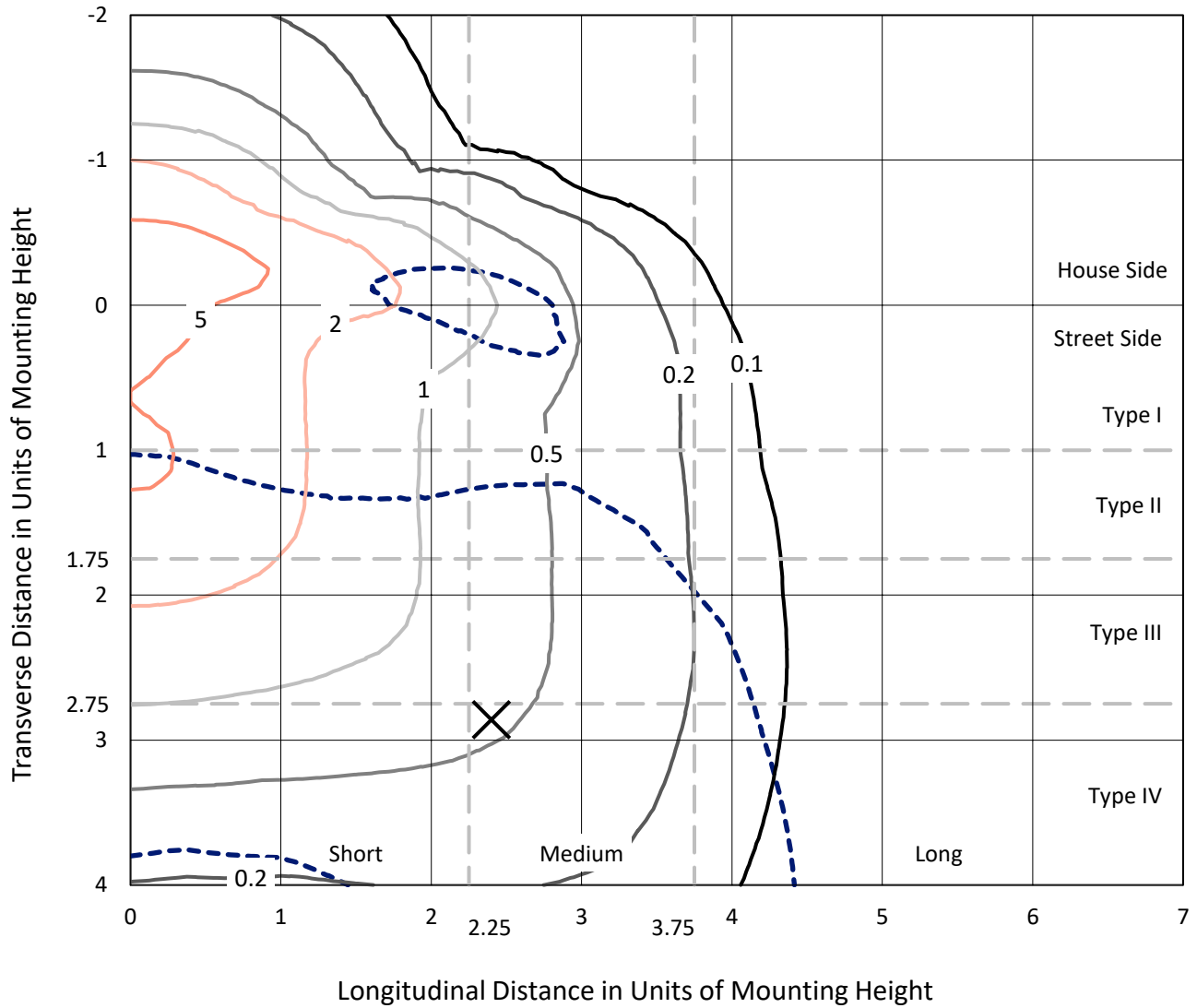
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P965119
 CATALOG NUMBER: NVN-SB3D-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

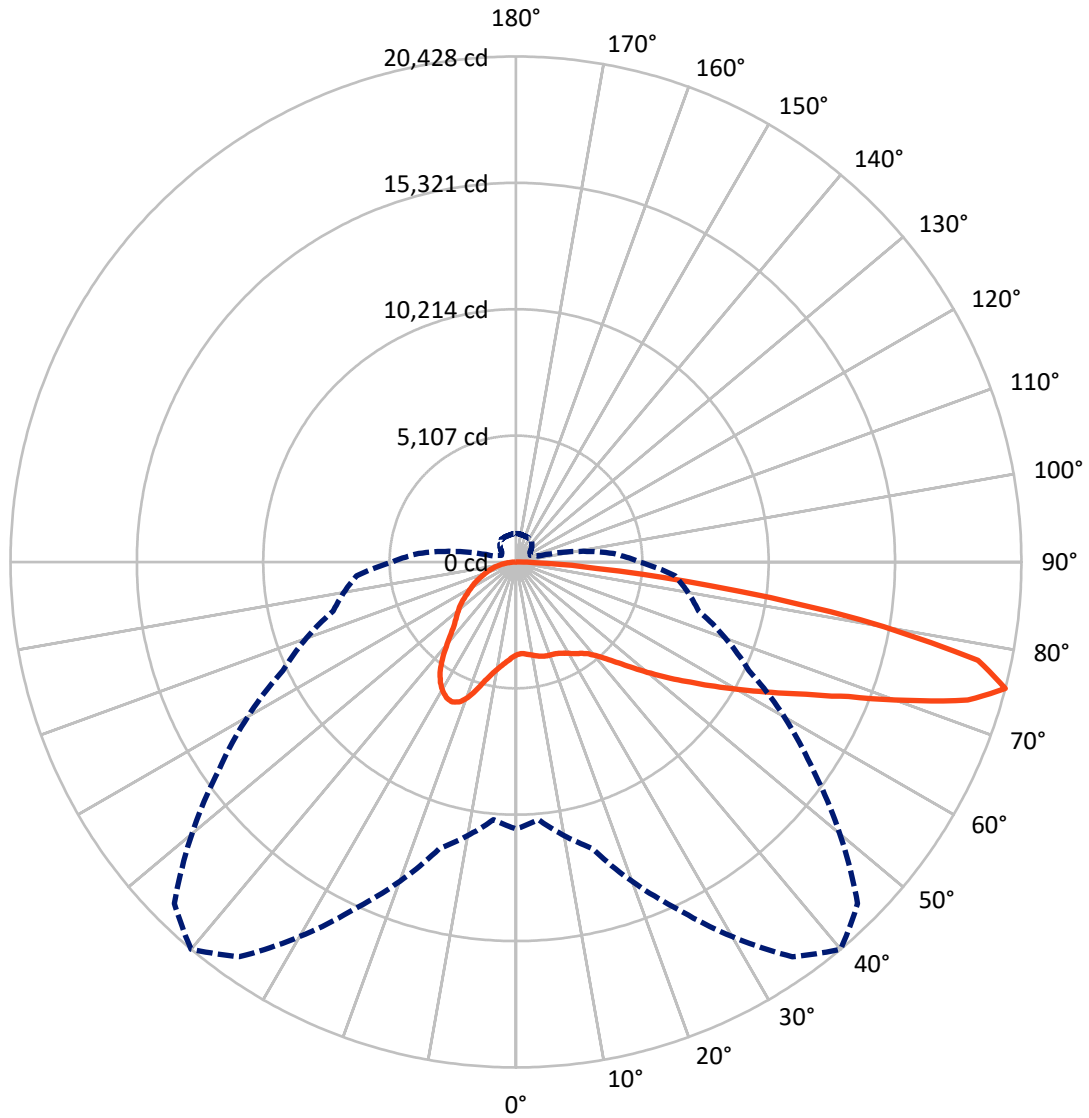
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P965119
CATALOG NUMBER: NVN-SB3D-740-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P965119
 CATALOG NUMBER: NVN-SB3D-740-U-SL4

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10168.9 | 0.0 | 10168.9 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 22651.6 | 0.0 | 22651.6 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 32820.5 | 0.0 | 32820.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 374.6 | 1.1 |
| 10°-20° | 1257.8 | 3.8 |
| 20°-30° | 2296.6 | 7.0 |
| 30°-40° | 3257.3 | 9.9 |
| 40°-50° | 4398.3 | 13.4 |
| 50°-60° | 5916.9 | 18.0 |
| 60°-70° | 7509.9 | 22.9 |
| 70°-80° | 6815.7 | 20.8 |
| 80°-90° | 993.5 | 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° | 32820.5 | 100.0 |
| 0°-180° | 32820.5 | 100.0 |

Coefficient of Utilization



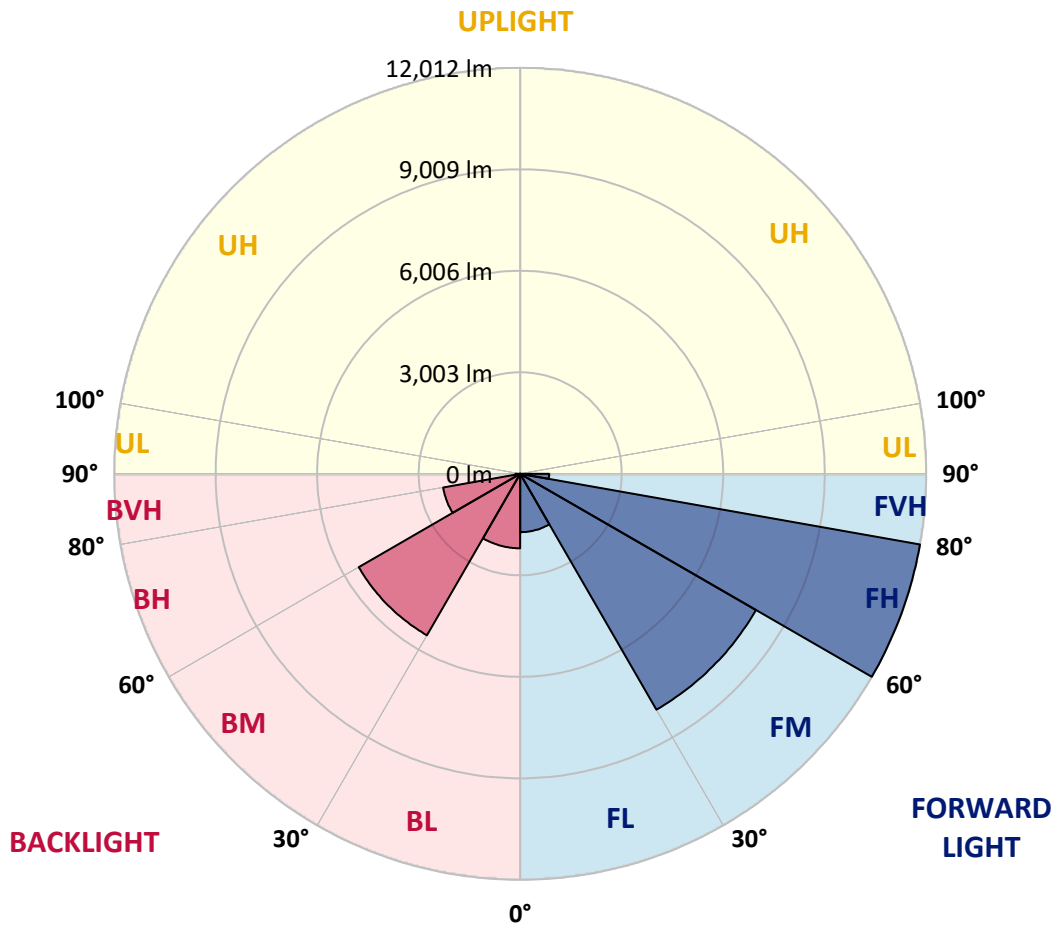
REPORT NUMBER: P965119
 CATALOG NUMBER: NVN-SB3D-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1726.4 | 5.3 | | | |
| FM (30°-60°) | 8056.7 | 24.5 | | | |
| FH (60°-80°) | 12011.8 | 36.6 | | | G5 |
| FVH (80°-90°) | 856.7 | 2.6 | | | G5 |
| BL (0°-30°) | 2202.7 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5515.7 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2313.7 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 136.8 | 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



REPORT NUMBER: P965119
 CATALOG NUMBER: NVN-SB3D-740-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 0° | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 |
| 2.5° | 3695.6 | 3716.5 | 3711.3 | 3704.3 | 3704.3 | 3706.1 | 3704.3 | 3716.5 | 3728.7 | 3740.8 | 3760.0 |
| 5° | 3733.9 | 3754.8 | 3744.3 | 3735.6 | 3728.7 | 3727.0 | 3721.8 | 3720.0 | 3727.0 | 3742.6 | 3768.7 |
| 7.5° | 3808.8 | 3829.7 | 3814.0 | 3798.3 | 3784.4 | 3777.4 | 3770.5 | 3760.0 | 3754.8 | 3763.5 | 3800.1 |
| 10° | 3892.3 | 3913.2 | 3894.1 | 3866.2 | 3843.5 | 3834.8 | 3828.0 | 3817.5 | 3810.5 | 3815.8 | 3855.7 |
| 12.5° | 3975.9 | 3996.8 | 3970.6 | 3932.4 | 3902.8 | 3897.6 | 3888.8 | 3885.4 | 3883.6 | 3881.9 | 3922.0 |
| 15° | 4054.2 | 4071.6 | 4038.6 | 3993.3 | 3961.9 | 3953.2 | 3944.5 | 3949.7 | 3958.4 | 3968.9 | 4014.2 |
| 17.5° | 4115.2 | 4132.6 | 4083.8 | 4024.7 | 3995.0 | 3991.6 | 3986.3 | 4003.8 | 4028.1 | 4054.2 | 4109.9 |
| 20° | 4170.8 | 4188.3 | 4125.6 | 4045.5 | 4010.7 | 4010.7 | 4012.5 | 4049.0 | 4083.8 | 4122.1 | 4198.7 |
| 22.5° | 4249.1 | 4263.1 | 4186.5 | 4076.8 | 4026.4 | 4029.9 | 4043.7 | 4080.3 | 4123.9 | 4176.1 | 4282.2 |
| 25° | 4365.8 | 4376.2 | 4282.2 | 4136.1 | 4078.6 | 4089.0 | 4101.2 | 4118.7 | 4160.4 | 4221.4 | 4364.0 |
| 27.5° | 4553.8 | 4562.5 | 4439.0 | 4240.5 | 4153.4 | 4170.8 | 4188.3 | 4176.1 | 4195.2 | 4247.4 | 4430.3 |
| 30° | 4818.4 | 4823.6 | 4666.9 | 4404.1 | 4280.5 | 4289.2 | 4292.7 | 4242.3 | 4205.7 | 4247.4 | 4477.2 |
| 32.5° | 5131.8 | 5130.0 | 4943.8 | 4602.6 | 4425.0 | 4416.3 | 4386.7 | 4287.5 | 4202.2 | 4238.8 | 4519.0 |
| 35° | 5617.4 | 5598.2 | 5358.1 | 4881.0 | 4588.6 | 4534.7 | 4465.0 | 4338.0 | 4219.6 | 4230.1 | 4555.5 |
| 37.5° | 6421.6 | 6362.5 | 6030.0 | 5337.2 | 4832.4 | 4694.8 | 4592.1 | 4419.8 | 4257.8 | 4226.6 | 4599.1 |
| 40° | 7328.5 | 7253.7 | 6888.2 | 5962.1 | 5197.9 | 4976.8 | 4811.5 | 4536.4 | 4320.6 | 4242.3 | 4663.4 |
| 42.5° | 8404.4 | 8298.2 | 7904.8 | 6698.4 | 5661.0 | 5340.7 | 5091.7 | 4684.4 | 4412.8 | 4292.7 | 4750.6 |
| 45° | 9725.6 | 9584.6 | 9027.6 | 7528.7 | 6244.1 | 5817.6 | 5485.1 | 4908.9 | 4553.8 | 4390.2 | 4881.0 |
| 47.5° | 11060.8 | 11095.5 | 10303.5 | 8479.2 | 6943.9 | 6405.9 | 5977.8 | 5246.7 | 4759.2 | 4546.9 | 5091.7 |
| 50° | 12479.5 | 12503.9 | 11572.6 | 9532.4 | 7737.6 | 7071.0 | 6531.3 | 5624.4 | 5044.7 | 4769.6 | 5406.8 |
| 52.5° | 13586.6 | 13590.1 | 12725.0 | 10634.3 | 8564.5 | 7802.1 | 7128.4 | 6056.1 | 5375.4 | 5065.5 | 5826.3 |
| 55° | 14279.4 | 14270.7 | 13532.7 | 11677.0 | 9515.0 | 8569.7 | 7789.9 | 6547.0 | 5779.3 | 5413.7 | 6353.8 |
| 57.5° | 14782.4 | 14756.4 | 14089.6 | 12573.5 | 10528.1 | 9476.6 | 8538.4 | 7104.1 | 6256.3 | 5828.0 | 7048.3 |
| 60° | 14974.0 | 14958.3 | 14467.5 | 13348.1 | 11593.5 | 10479.4 | 9401.8 | 7727.2 | 6797.7 | 6317.2 | 7941.3 |
| 62.5° | 15047.1 | 15076.7 | 14838.2 | 14098.4 | 12733.6 | 11590.0 | 10350.6 | 8472.2 | 7407.0 | 6870.8 | 8883.1 |
| 65° | 15304.7 | 15358.7 | 15309.9 | 15080.2 | 14021.8 | 12890.3 | 11609.0 | 9358.2 | 8071.9 | 7464.4 | 9866.6 |
| 67.5° | 15814.7 | 15868.7 | 15889.7 | 16255.2 | 15595.4 | 14510.9 | 13179.2 | 10462.0 | 8850.0 | 8080.6 | 10606.4 |
| 70° | 15802.5 | 15786.9 | 16155.9 | 17190.0 | 17565.9 | 16754.8 | 15296.0 | 11819.7 | 9777.8 | 8592.4 | 10700.4 |
| 72.5° | 14383.8 | 14258.6 | 15130.6 | 17179.5 | 19205.7 | 19097.8 | 17881.0 | 13570.9 | 10578.6 | 8655.0 | 9285.2 |
| 75° | 10790.9 | 10456.7 | 11997.3 | 15482.3 | 19479.1 | 20427.7 | 19524.3 | 14657.2 | 10388.8 | 7647.1 | 6461.7 |
| 77.5° | 4614.8 | 4278.8 | 6094.3 | 11461.1 | 17433.7 | 19096.1 | 18016.8 | 12787.6 | 8293.0 | 5056.9 | 3173.4 |
| 80° | 1208.1 | 1206.3 | 1841.7 | 5196.1 | 11856.3 | 14101.8 | 12371.5 | 8258.1 | 4738.4 | 1806.9 | 875.6 |
| 82.5° | 499.6 | 487.4 | 677.1 | 2021.0 | 5793.2 | 7913.5 | 6458.2 | 3683.4 | 1711.1 | 489.1 | 290.7 |
| 85° | 186.2 | 184.5 | 329.0 | 698.0 | 2043.6 | 3263.9 | 2362.2 | 941.8 | 426.5 | 238.5 | 130.6 |
| 87.5° | 52.2 | 50.5 | 71.3 | 242.0 | 497.8 | 755.5 | 403.8 | 154.9 | 120.1 | 94.0 | 38.3 |
| 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: P965119
 CATALOG NUMBER: NVN-SB3D-740-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 | 3753.0 |
| 2.5° | 3765.2 | 3773.9 | 3789.6 | 3801.8 | 3817.5 | 3834.8 | 3859.2 | 3874.9 | 3890.6 | 3901.0 | 3894.1 |
| 5° | 3780.9 | 3800.1 | 3840.1 | 3880.1 | 3927.2 | 3970.6 | 4021.2 | 4057.7 | 4087.3 | 4096.0 | 4099.5 |
| 7.5° | 3815.8 | 3847.0 | 3915.0 | 3982.8 | 4057.7 | 4129.1 | 4202.2 | 4264.8 | 4315.4 | 4334.5 | 4336.3 |
| 10° | 3876.7 | 3918.5 | 4014.2 | 4109.9 | 4209.2 | 4318.8 | 4412.8 | 4503.3 | 4574.7 | 4604.3 | 4606.0 |
| 12.5° | 3953.2 | 4005.5 | 4130.9 | 4263.1 | 4400.6 | 4552.0 | 4673.9 | 4785.3 | 4874.1 | 4914.2 | 4914.2 |
| 15° | 4052.4 | 4120.4 | 4280.5 | 4458.0 | 4660.0 | 4870.6 | 5025.6 | 5149.2 | 5248.4 | 5297.1 | 5293.6 |
| 17.5° | 4160.4 | 4250.9 | 4452.8 | 4720.9 | 5009.9 | 5286.6 | 5467.8 | 5558.3 | 5661.0 | 5707.9 | 5706.2 |
| 20° | 4264.8 | 4376.2 | 4665.2 | 5055.2 | 5439.9 | 5734.1 | 5880.2 | 5904.6 | 5911.6 | 5916.8 | 5930.8 |
| 22.5° | 4372.8 | 4522.5 | 4931.6 | 5476.4 | 5888.9 | 6092.6 | 6113.5 | 6009.1 | 5862.9 | 5794.9 | 5814.1 |
| 25° | 4491.1 | 4689.6 | 5279.7 | 5941.2 | 6275.5 | 6299.8 | 6139.6 | 5885.4 | 5608.7 | 5481.6 | 5500.8 |
| 27.5° | 4606.0 | 4882.8 | 5697.5 | 6385.1 | 6554.0 | 6339.8 | 5995.1 | 5634.8 | 5300.6 | 5166.5 | 5182.2 |
| 30° | 4720.9 | 5103.9 | 6158.8 | 6773.3 | 6681.1 | 6240.6 | 5767.2 | 5365.1 | 5029.1 | 4888.0 | 4903.7 |
| 32.5° | 4837.6 | 5361.6 | 6689.8 | 7053.5 | 6658.4 | 6030.0 | 5483.3 | 5062.1 | 4766.1 | 4618.2 | 4637.4 |
| 35° | 4969.8 | 5678.3 | 7192.8 | 7206.8 | 6506.9 | 5720.1 | 5109.1 | 4700.0 | 4442.5 | 4324.1 | 4350.1 |
| 37.5° | 5142.2 | 6080.5 | 7636.7 | 7245.0 | 6242.4 | 5265.8 | 4644.4 | 4271.8 | 4059.4 | 4005.5 | 4043.7 |
| 40° | 5356.3 | 6564.4 | 7976.1 | 7184.1 | 5850.7 | 4714.0 | 4136.1 | 3838.3 | 3718.3 | 3730.5 | 3772.2 |
| 42.5° | 5634.8 | 7105.8 | 8214.7 | 7027.4 | 5305.8 | 4144.7 | 3690.4 | 3558.1 | 3615.6 | 3664.3 | 3709.6 |
| 45° | 5996.9 | 7668.0 | 8362.6 | 6761.1 | 4689.6 | 3662.5 | 3427.5 | 3458.9 | 3502.4 | 3507.7 | 3542.4 |
| 47.5° | 6460.0 | 8237.2 | 8460.0 | 6359.0 | 4061.2 | 3323.2 | 3260.4 | 3267.4 | 3258.7 | 3222.1 | 3250.0 |
| 50° | 7037.9 | 8790.8 | 8547.1 | 5826.3 | 3526.8 | 3110.8 | 3027.1 | 3002.8 | 2882.7 | 2764.3 | 2780.0 |
| 52.5° | 7695.9 | 9299.1 | 8583.7 | 5164.8 | 3110.8 | 2933.1 | 2797.4 | 2644.2 | 2419.6 | 2383.1 | 2395.3 |
| 55° | 8427.0 | 9769.1 | 8489.7 | 4351.8 | 2760.8 | 2705.2 | 2499.8 | 2315.2 | 2290.9 | 2259.5 | 2264.7 |
| 57.5° | 9300.8 | 10275.7 | 8298.2 | 3444.9 | 2402.3 | 2438.8 | 2238.6 | 2259.5 | 2215.9 | 2167.3 | 2158.5 |
| 60° | 10256.6 | 10799.6 | 7962.2 | 2618.1 | 2031.4 | 2106.3 | 2170.7 | 2169.0 | 2156.8 | 2116.7 | 2102.8 |
| 62.5° | 11116.4 | 11144.3 | 7300.8 | 2005.3 | 1705.9 | 1848.7 | 2024.5 | 2022.7 | 2012.3 | 1989.7 | 1981.0 |
| 65° | 11628.2 | 11092.1 | 6197.0 | 1578.9 | 1437.9 | 1636.3 | 1826.0 | 1840.0 | 1841.7 | 1840.0 | 1840.0 |
| 67.5° | 11537.7 | 10481.0 | 4682.6 | 1256.9 | 1216.8 | 1420.4 | 1629.3 | 1648.5 | 1662.4 | 1665.9 | 1669.4 |
| 70° | 10514.1 | 9139.0 | 3053.3 | 1002.7 | 1020.1 | 1230.7 | 1443.1 | 1462.3 | 1474.5 | 1488.3 | 1495.3 |
| 72.5° | 8195.5 | 6719.3 | 1747.7 | 811.2 | 847.8 | 1067.1 | 1258.6 | 1281.1 | 1288.1 | 1314.3 | 1324.7 |
| 75° | 4994.2 | 3951.5 | 943.5 | 638.9 | 696.3 | 912.1 | 1075.7 | 1101.9 | 1114.1 | 1145.4 | 1148.9 |
| 77.5° | 2374.4 | 1711.1 | 537.9 | 497.8 | 560.6 | 745.1 | 908.7 | 938.3 | 905.2 | 922.6 | 908.7 |
| 80° | 802.5 | 635.4 | 339.5 | 379.5 | 428.2 | 581.4 | 727.6 | 757.3 | 687.6 | 684.1 | 677.1 |
| 82.5° | 280.2 | 257.6 | 215.9 | 252.5 | 276.8 | 416.0 | 550.1 | 588.3 | 511.8 | 510.0 | 485.6 |
| 85° | 109.7 | 104.4 | 120.1 | 137.6 | 165.3 | 255.8 | 362.0 | 381.2 | 315.1 | 254.2 | 250.7 |
| 87.5° | 22.7 | 24.4 | 29.6 | 31.4 | 50.5 | 88.8 | 130.6 | 160.1 | 127.1 | 107.9 | 99.2 |
| 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)