

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: P885338

Luminaire Tested: **NVN-SB6C-827-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28966 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

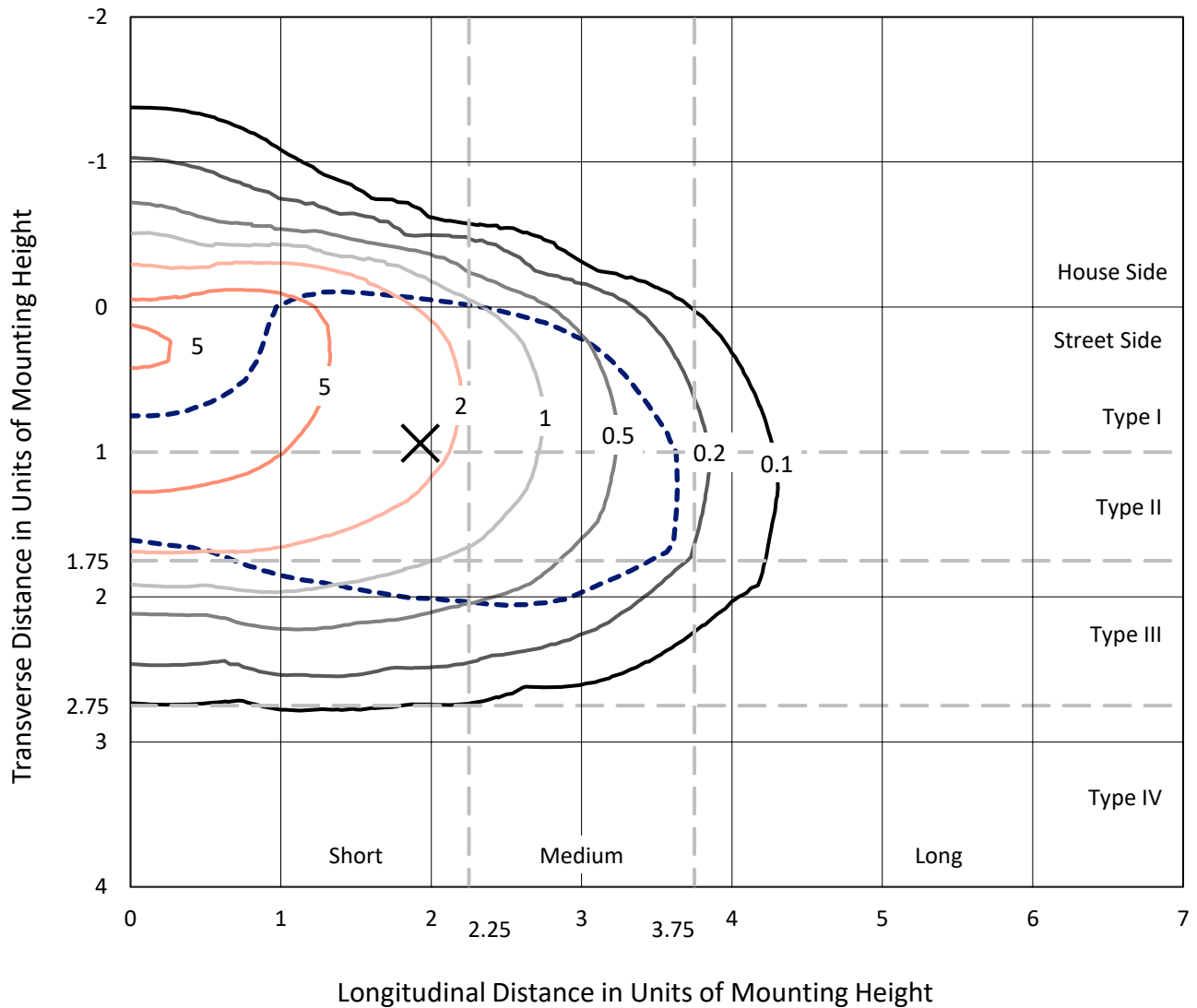


REPORT NUMBER: P885338

CATALOG NUMBER: NVN-SB6C-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

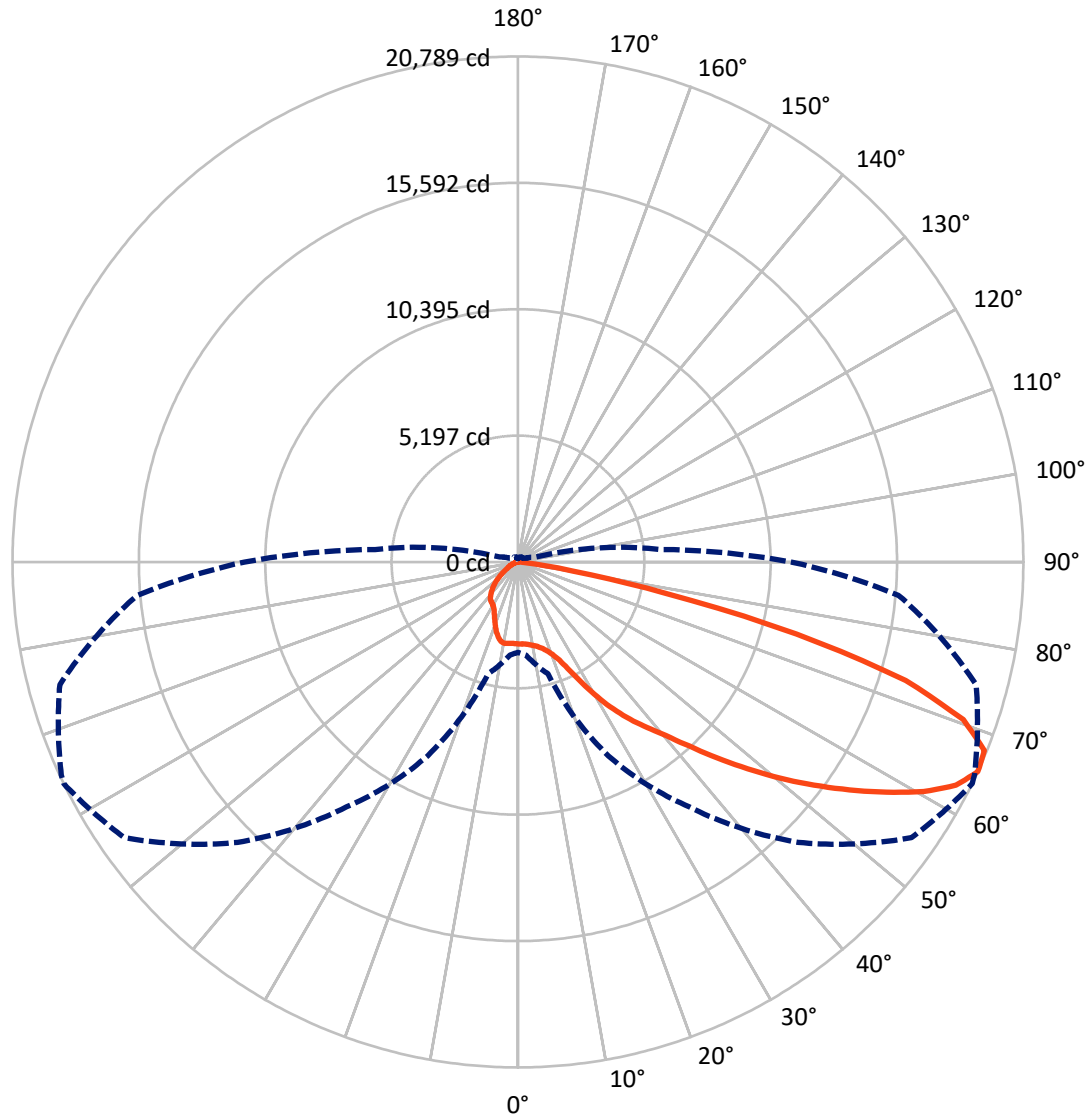
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

REPORT NUMBER: P885338
CATALOG NUMBER: NVN-SB6C-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P885338

CATALOG NUMBER: NVN-SB6C-827-U-T3-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3873.6 | 0.0 | 3873.6 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 25092.4 | 0.0 | 25092.4 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 28966.0 | 0.0 | 28966.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.8 | 1.1 |
| 10°-20° | 843.1 | 2.9 |
| 20°-30° | 1597.5 | 5.5 |
| 30°-40° | 3232.6 | 11.2 |
| 40°-50° | 5506.8 | 19.0 |
| 50°-60° | 7488.8 | 25.9 |
| 60°-70° | 7032.4 | 24.3 |
| 70°-80° | 2817.5 | 9.7 |
| 80°-90° | 136.5 | 0.5 |
| 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° | 28966.0 | 100.0 |
| 0°-180° | 28966.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P885338

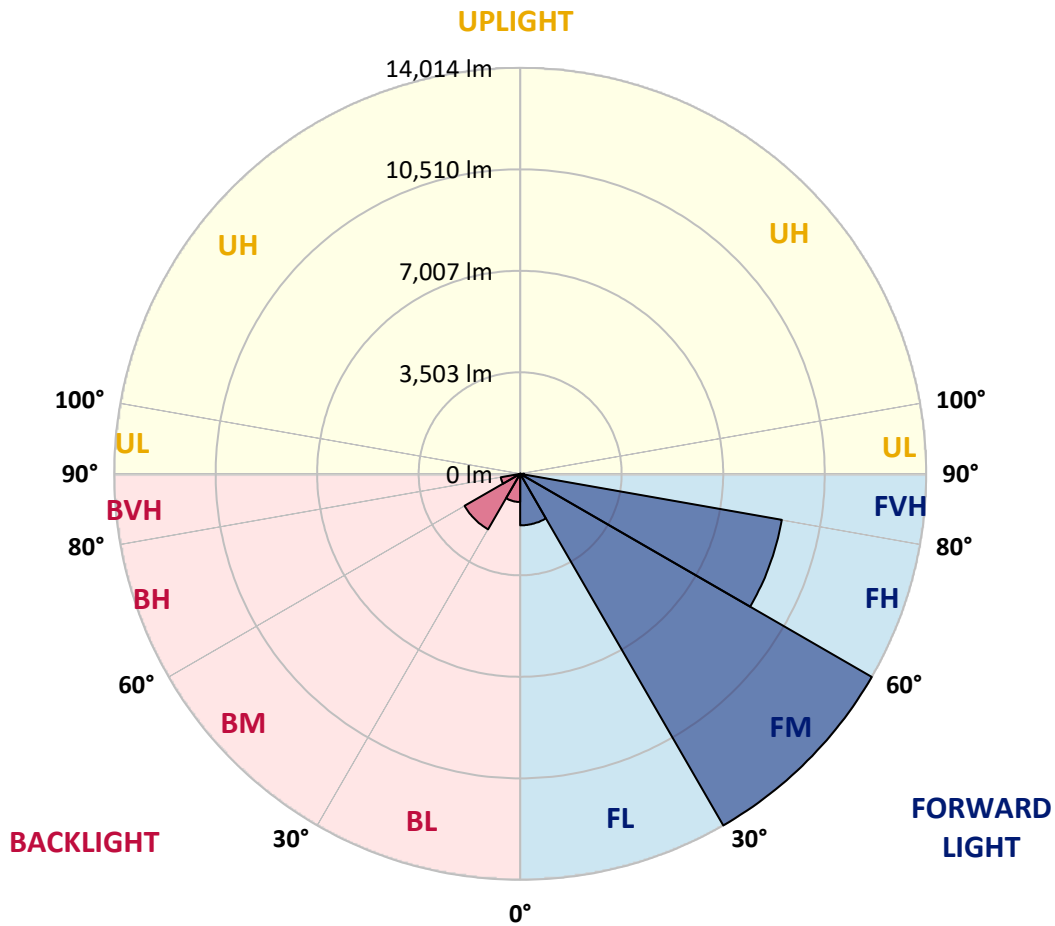
CATALOG NUMBER: NVN-SB6C-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1778.8 | 6.1 | | | |
| FM (30°-60°) | 14013.7 | 48.4 | | | |
| FH (60°-80°) | 9170.0 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 129.8 | 0.4 | | | G2/225 |
| BL (0°-30°) | 972.6 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 2214.5 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 679.9 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short



REPORT NUMBER: P885338

CATALOG NUMBER: NVN-SB6C-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 |
| 2.5° | 3357.4 | 3380.7 | 3374.9 | 3369.0 | 3367.1 | 3371.0 | 3372.9 | 3371.0 | 3371.0 | 3371.0 | 3372.9 |
| 5° | 3293.3 | 3312.7 | 3312.7 | 3326.3 | 3345.7 | 3369.0 | 3386.5 | 3390.4 | 3394.3 | 3400.1 | 3398.2 |
| 7.5° | 3171.0 | 3186.5 | 3198.2 | 3242.8 | 3291.4 | 3353.5 | 3405.9 | 3433.1 | 3437.0 | 3458.4 | 3466.1 |
| 10° | 3087.5 | 3106.9 | 3126.3 | 3172.9 | 3242.8 | 3336.0 | 3425.4 | 3491.4 | 3501.1 | 3551.6 | 3574.9 |
| 12.5° | 3083.6 | 3103.0 | 3128.3 | 3178.7 | 3260.3 | 3359.3 | 3468.1 | 3563.2 | 3580.7 | 3654.5 | 3703.0 |
| 15° | 3124.4 | 3147.7 | 3171.0 | 3233.1 | 3320.5 | 3440.9 | 3557.4 | 3675.9 | 3693.3 | 3798.2 | 3850.6 |
| 17.5° | 3207.9 | 3238.9 | 3256.4 | 3318.6 | 3411.8 | 3545.8 | 3699.2 | 3835.1 | 3850.6 | 3973.0 | 4039.0 |
| 20° | 3372.9 | 3409.8 | 3415.7 | 3466.1 | 3557.4 | 3701.1 | 3883.6 | 4052.6 | 4072.0 | 4211.8 | 4285.6 |
| 22.5° | 3714.7 | 3767.1 | 3720.5 | 3745.8 | 3827.3 | 3971.0 | 4169.1 | 4382.7 | 4409.9 | 4569.1 | 4635.1 |
| 25° | 4316.7 | 4390.4 | 4270.0 | 4227.3 | 4262.3 | 4411.8 | 4660.4 | 4930.3 | 4961.3 | 5089.5 | 5122.5 |
| 27.5° | 5499.2 | 5404.1 | 5221.5 | 5042.9 | 4938.0 | 5023.5 | 5303.1 | 5637.1 | 5675.9 | 5800.2 | 5761.4 |
| 30° | 6798.3 | 6714.8 | 6468.2 | 6072.1 | 5823.5 | 5809.9 | 6068.2 | 6441.0 | 6485.7 | 6604.1 | 6485.7 |
| 32.5° | 8099.3 | 8019.7 | 7751.7 | 7264.3 | 6833.2 | 6619.6 | 6798.3 | 7211.9 | 7235.2 | 7310.9 | 7136.2 |
| 35° | 9379.0 | 9297.4 | 9029.4 | 8530.4 | 8000.3 | 7514.8 | 7479.9 | 7945.9 | 7953.7 | 8033.3 | 7773.1 |
| 37.5° | 10666.4 | 10598.4 | 10313.0 | 9823.6 | 9301.3 | 8631.4 | 8307.1 | 8641.1 | 8650.8 | 8728.5 | 8458.5 |
| 40° | 11584.9 | 11614.0 | 11417.9 | 11039.2 | 10590.7 | 9858.6 | 9235.3 | 9380.9 | 9322.6 | 9452.7 | 9291.6 |
| 42.5° | 12373.2 | 12431.5 | 12260.6 | 12070.3 | 11810.1 | 11165.4 | 10384.8 | 10359.6 | 10266.4 | 10336.3 | 10169.3 |
| 45° | 13054.8 | 13103.4 | 12950.0 | 12905.3 | 12899.5 | 12447.0 | 11641.2 | 11489.7 | 11359.6 | 11346.0 | 11146.0 |
| 47.5° | 13305.3 | 13398.5 | 13464.5 | 13614.1 | 13905.3 | 13715.0 | 12940.2 | 12705.3 | 12559.7 | 12452.9 | 12136.3 |
| 50° | 13400.5 | 13499.5 | 13724.7 | 14159.7 | 14849.0 | 14930.6 | 14233.5 | 13969.4 | 13790.8 | 13596.6 | 13130.5 |
| 52.5° | 13272.3 | 13449.0 | 13751.9 | 14484.0 | 15484.0 | 15905.4 | 15474.3 | 15243.2 | 15039.3 | 14722.8 | 14031.5 |
| 55° | 12516.9 | 12693.6 | 13313.1 | 14480.1 | 15800.5 | 16588.9 | 16647.2 | 16544.3 | 16315.1 | 15816.1 | 14759.7 |
| 57.5° | 10924.6 | 11186.8 | 12167.4 | 13986.9 | 15794.7 | 17177.3 | 17796.7 | 17870.5 | 17614.2 | 16899.6 | 15332.6 |
| 60° | 8718.7 | 9074.1 | 10270.3 | 12893.6 | 15307.3 | 17495.7 | 18804.5 | 19173.5 | 18901.6 | 17967.6 | 15796.7 |
| 62.5° | 6083.7 | 6495.4 | 7627.4 | 11181.0 | 14192.7 | 17266.6 | 19540.5 | 20222.0 | 20016.2 | 18923.0 | 15975.3 |
| 65° | 3710.8 | 3842.8 | 4755.5 | 8798.4 | 12297.5 | 16307.4 | 19767.7 | 20789.1 | 20721.1 | 19507.5 | 15711.2 |
| 67.5° | 2471.9 | 2582.6 | 2844.8 | 6033.2 | 9546.0 | 14390.8 | 19224.0 | 20690.0 | 20709.4 | 19412.3 | 14744.2 |
| 70° | 1489.4 | 1584.5 | 1755.4 | 3508.9 | 6186.6 | 11390.7 | 17540.4 | 19427.8 | 19540.5 | 18140.4 | 12911.1 |
| 72.5° | 613.6 | 677.7 | 833.0 | 1590.3 | 3204.0 | 7229.4 | 13967.5 | 16680.2 | 16942.3 | 15252.9 | 9909.1 |
| 75° | 347.6 | 380.6 | 489.3 | 798.1 | 1390.3 | 3369.0 | 8460.5 | 11841.2 | 12227.6 | 10513.0 | 5961.4 |
| 77.5° | 231.1 | 246.6 | 316.5 | 516.5 | 782.6 | 1149.6 | 3615.7 | 6169.1 | 6907.0 | 5741.9 | 2580.7 |
| 80° | 155.3 | 168.9 | 217.5 | 345.6 | 508.8 | 493.2 | 1151.5 | 2285.5 | 2811.7 | 1972.9 | 629.1 |
| 82.5° | 104.9 | 106.8 | 155.3 | 227.2 | 322.3 | 238.8 | 339.8 | 710.7 | 893.2 | 570.9 | 238.8 |
| 85° | 60.2 | 58.3 | 114.6 | 132.0 | 143.7 | 99.0 | 102.9 | 213.6 | 279.6 | 240.8 | 135.9 |
| 87.5° | 7.8 | 11.7 | 44.7 | 35.0 | 19.4 | 21.4 | 21.4 | 36.9 | 54.4 | 58.3 | 29.1 |
| 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: P885338

CATALOG NUMBER: NVN-SB6C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 | 3369.0 |
| 2.5° | 3372.9 | 3371.0 | 3365.2 | 3359.3 | 3345.7 | 3338.0 | 3341.9 | 3338.0 | 3336.0 | 3338.0 | 3345.7 |
| 5° | 3398.2 | 3392.3 | 3376.8 | 3357.4 | 3330.2 | 3297.2 | 3275.8 | 3244.8 | 3215.6 | 3198.2 | 3202.1 |
| 7.5° | 3466.1 | 3460.3 | 3439.0 | 3384.6 | 3297.2 | 3159.3 | 3033.1 | 2922.4 | 2838.9 | 2790.4 | 2792.3 |
| 10° | 3574.9 | 3565.2 | 3532.2 | 3411.8 | 3182.6 | 2881.7 | 2631.2 | 2423.4 | 2287.5 | 2223.4 | 2217.6 |
| 12.5° | 3703.0 | 3691.4 | 3633.1 | 3386.5 | 2965.1 | 2495.2 | 2149.6 | 1918.5 | 1792.3 | 1736.0 | 1730.2 |
| 15° | 3854.5 | 3839.0 | 3724.4 | 3266.1 | 2648.6 | 2068.0 | 1751.5 | 1578.7 | 1497.1 | 1446.7 | 1448.6 |
| 17.5° | 4042.9 | 4015.7 | 3792.4 | 3085.5 | 2304.9 | 1741.8 | 1506.8 | 1376.7 | 1304.9 | 1256.4 | 1252.5 |
| 20° | 4287.5 | 4242.9 | 3846.7 | 2870.0 | 1988.4 | 1536.0 | 1341.8 | 1233.1 | 1178.7 | 1136.0 | 1128.2 |
| 22.5° | 4629.3 | 4565.2 | 3912.8 | 2637.0 | 1765.1 | 1394.2 | 1219.5 | 1139.8 | 1095.2 | 1046.6 | 1038.9 |
| 25° | 5052.6 | 4976.9 | 3994.3 | 2421.4 | 1611.7 | 1271.9 | 1130.1 | 1064.1 | 1011.7 | 955.4 | 949.5 |
| 27.5° | 5644.9 | 5508.9 | 4091.4 | 2244.7 | 1479.7 | 1167.0 | 1048.6 | 974.8 | 914.6 | 868.0 | 858.3 |
| 30° | 6305.1 | 6081.8 | 4176.8 | 2137.9 | 1359.3 | 1069.9 | 941.8 | 868.0 | 811.7 | 778.7 | 772.8 |
| 32.5° | 6930.3 | 6627.4 | 4233.2 | 2091.3 | 1250.5 | 959.3 | 825.3 | 745.7 | 702.9 | 693.2 | 699.1 |
| 35° | 7520.6 | 7120.6 | 4227.3 | 2046.7 | 1153.4 | 848.6 | 710.7 | 629.1 | 596.1 | 602.0 | 602.0 |
| 37.5° | 8200.3 | 7646.9 | 4186.6 | 1976.8 | 1073.8 | 747.6 | 611.7 | 539.8 | 510.7 | 512.6 | 520.4 |
| 40° | 8990.6 | 8254.6 | 4161.3 | 1844.7 | 986.4 | 654.4 | 530.1 | 471.9 | 450.5 | 442.7 | 440.8 |
| 42.5° | 9833.3 | 8843.0 | 4165.2 | 1695.2 | 877.7 | 570.9 | 473.8 | 425.3 | 405.8 | 400.0 | 398.1 |
| 45° | 10680.0 | 9404.2 | 4171.0 | 1539.9 | 763.1 | 506.8 | 433.0 | 392.2 | 380.6 | 372.8 | 372.8 |
| 47.5° | 11476.1 | 9881.9 | 4062.3 | 1372.9 | 650.5 | 458.3 | 400.0 | 372.8 | 363.1 | 353.4 | 353.4 |
| 50° | 12217.9 | 10200.3 | 3800.1 | 1178.7 | 561.2 | 419.4 | 374.8 | 355.4 | 345.6 | 335.9 | 335.9 |
| 52.5° | 12794.6 | 10250.8 | 3367.1 | 978.7 | 499.0 | 390.3 | 359.2 | 341.8 | 330.1 | 320.4 | 318.5 |
| 55° | 13050.9 | 9934.3 | 2751.5 | 792.3 | 450.5 | 365.1 | 343.7 | 326.2 | 312.6 | 302.9 | 301.0 |
| 57.5° | 12984.9 | 9268.3 | 2145.7 | 636.9 | 403.9 | 339.8 | 324.3 | 312.6 | 297.1 | 281.6 | 279.6 |
| 60° | 12660.6 | 8377.0 | 1617.5 | 530.1 | 361.2 | 312.6 | 302.9 | 293.2 | 271.9 | 248.6 | 244.7 |
| 62.5° | 12099.4 | 7256.6 | 1153.4 | 438.8 | 314.6 | 281.6 | 277.7 | 269.9 | 238.8 | 196.1 | 192.2 |
| 65° | 11241.2 | 5895.3 | 776.7 | 365.1 | 269.9 | 246.6 | 248.6 | 235.0 | 194.2 | 145.6 | 141.8 |
| 67.5° | 9986.7 | 4310.8 | 497.1 | 299.0 | 225.3 | 205.8 | 207.8 | 200.0 | 165.1 | 124.3 | 118.5 |
| 70° | 8388.6 | 2854.5 | 324.3 | 227.2 | 180.6 | 159.2 | 170.9 | 172.8 | 139.8 | 101.0 | 97.1 |
| 72.5° | 6149.7 | 1685.5 | 227.2 | 168.9 | 132.0 | 110.7 | 139.8 | 143.7 | 112.6 | 75.7 | 71.8 |
| 75° | 3505.0 | 800.0 | 170.9 | 122.3 | 81.6 | 77.7 | 108.7 | 108.7 | 77.7 | 50.5 | 46.6 |
| 77.5° | 1471.9 | 334.0 | 120.4 | 79.6 | 46.6 | 44.7 | 73.8 | 68.0 | 38.8 | 23.3 | 23.3 |
| 80° | 425.3 | 149.5 | 64.1 | 38.8 | 19.4 | 17.5 | 29.1 | 21.4 | 9.7 | 3.9 | 3.9 |
| 82.5° | 167.0 | 66.0 | 25.2 | 15.5 | 7.8 | 7.8 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 99.0 | 27.2 | 11.7 | 5.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.2 | 5.8 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)