

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: P850697

Luminaire Tested: **GLAN-SB8B-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28473 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

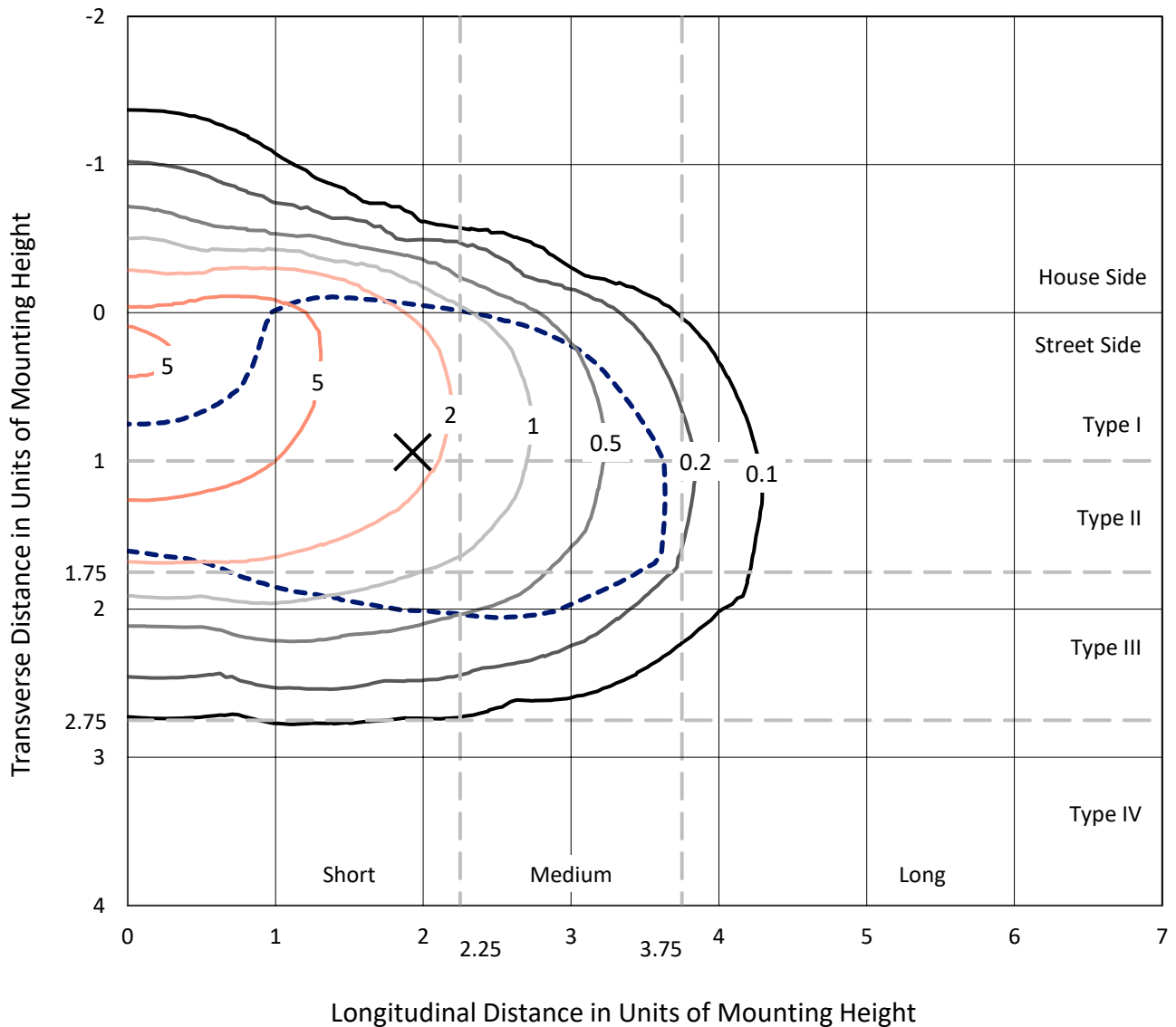
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P850697
 CATALOG NUMBER: GLAN-SB8B-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

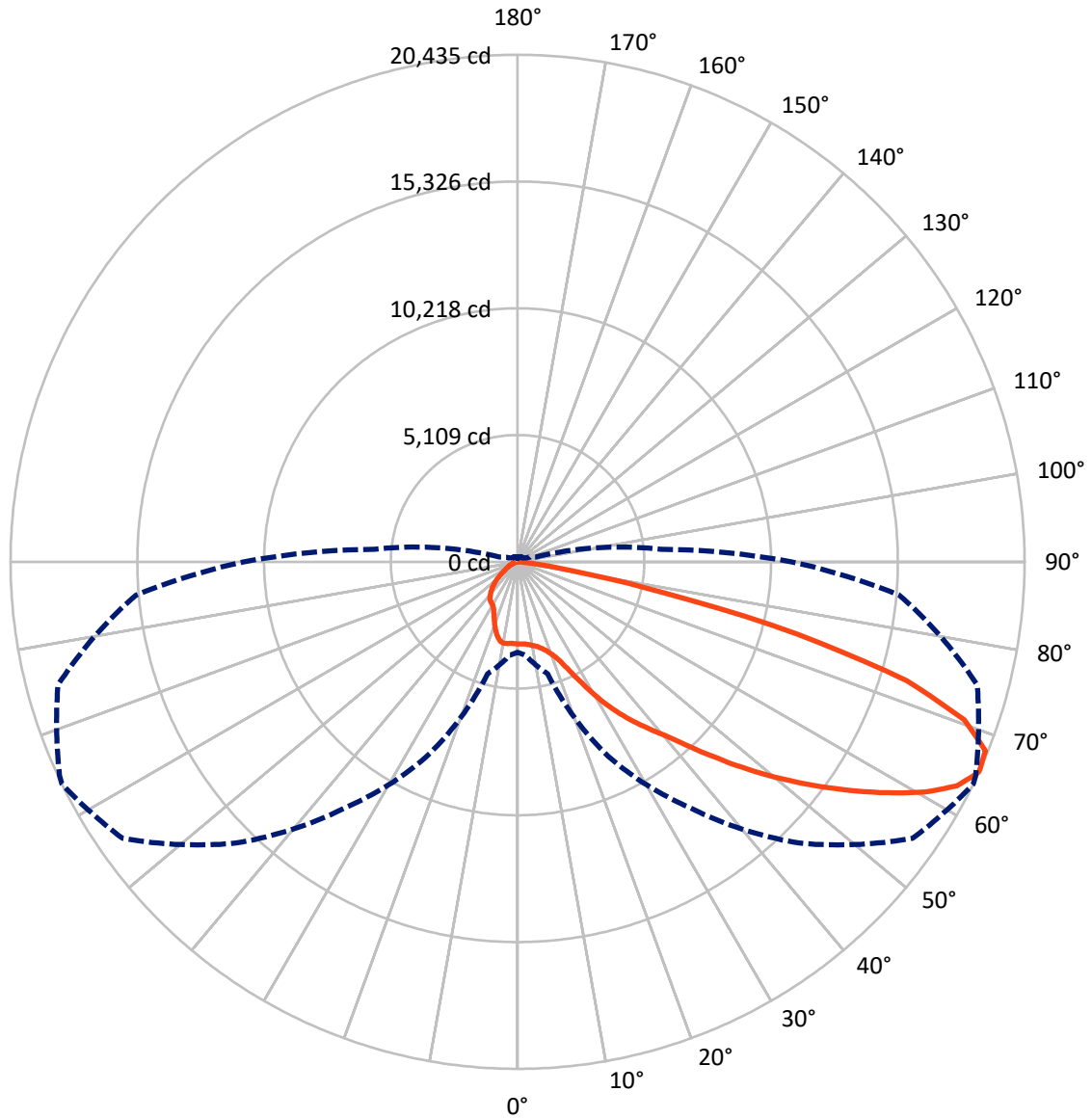
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

REPORT NUMBER: P850697
CATALOG NUMBER: GLAN-SB8B-827-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P850697
 CATALOG NUMBER: GLAN-SB8B-827-U-T3-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3807.7 | 0.0 | 3807.7 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 24665.3 | 0.0 | 24665.3 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 28473.0 | 0.0 | 28473.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 305.5 | 1.1 |
| 10°-20° | 828.7 | 2.9 |
| 20°-30° | 1570.3 | 5.5 |
| 30°-40° | 3177.6 | 11.2 |
| 40°-50° | 5413.1 | 19.0 |
| 50°-60° | 7361.4 | 25.9 |
| 60°-70° | 6912.7 | 24.3 |
| 70°-80° | 2769.5 | 9.7 |
| 80°-90° | 134.2 | 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° | 28473.0 | 100.0 |
| 0°-180° | 28473.0 | 100.0 |

Coefficient of Utilization



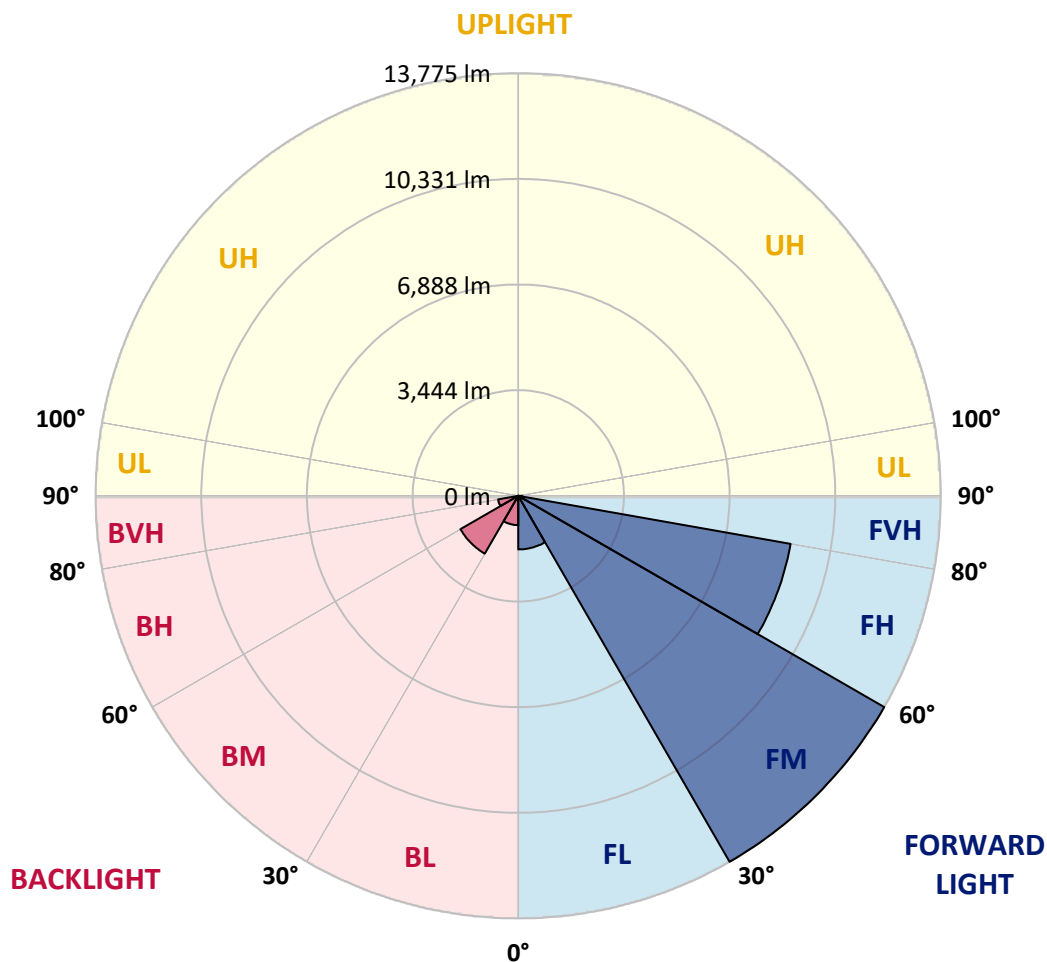
REPORT NUMBER: P850697
 CATALOG NUMBER: GLAN-SB8B-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1748.6 | 6.1 | | | |
| FM (30°-60°) | 13775.2 | 48.4 | | | |
| FH (60°-80°) | 9013.9 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 127.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 956.0 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 2176.8 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 668.3 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.6 | 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: P850697
 CATALOG NUMBER: GLAN-SB8B-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 |
| 2.5° | 3300.3 | 3323.2 | 3317.4 | 3311.7 | 3309.8 | 3313.6 | 3315.5 | 3313.6 | 3313.6 | 3313.6 |
| 5° | 3237.3 | 3256.4 | 3256.4 | 3269.7 | 3288.8 | 3311.7 | 3328.9 | 3332.7 | 3336.5 | 3342.2 |
| 7.5° | 3117.0 | 3132.3 | 3143.7 | 3187.6 | 3235.4 | 3296.4 | 3348.0 | 3374.7 | 3378.5 | 3399.5 |
| 10° | 3034.9 | 3054.0 | 3073.1 | 3118.9 | 3187.6 | 3279.3 | 3367.1 | 3432.0 | 3441.5 | 3491.1 |
| 12.5° | 3031.1 | 3050.2 | 3075.0 | 3124.6 | 3204.8 | 3302.2 | 3409.1 | 3502.6 | 3519.8 | 3592.3 |
| 15° | 3071.2 | 3094.1 | 3117.0 | 3178.1 | 3264.0 | 3382.3 | 3496.9 | 3613.3 | 3630.5 | 3733.5 |
| 17.5° | 3153.3 | 3183.8 | 3201.0 | 3262.1 | 3353.7 | 3485.4 | 3636.2 | 3769.8 | 3785.1 | 3905.3 |
| 20° | 3315.5 | 3351.8 | 3357.5 | 3407.1 | 3496.9 | 3638.1 | 3817.5 | 3983.6 | 4002.7 | 4140.1 |
| 22.5° | 3651.5 | 3703.0 | 3657.2 | 3682.0 | 3762.2 | 3903.4 | 4098.1 | 4308.1 | 4334.8 | 4491.3 |
| 25° | 4243.2 | 4315.7 | 4197.4 | 4155.4 | 4189.7 | 4336.7 | 4581.0 | 4846.4 | 4876.9 | 5002.9 |
| 27.5° | 5405.6 | 5312.1 | 5132.7 | 4957.1 | 4854.0 | 4938.0 | 5212.8 | 5541.1 | 5579.3 | 5701.5 |
| 30° | 6682.6 | 6600.5 | 6358.1 | 5968.7 | 5724.4 | 5711.0 | 5964.9 | 6331.4 | 6375.3 | 6491.7 |
| 32.5° | 7961.5 | 7883.2 | 7619.8 | 7140.7 | 6716.9 | 6507.0 | 6682.6 | 7089.1 | 7112.1 | 7186.5 |
| 35° | 9219.3 | 9139.2 | 8875.8 | 8385.2 | 7864.1 | 7386.9 | 7352.6 | 7810.7 | 7818.3 | 7896.6 |
| 37.5° | 10484.8 | 10418.0 | 10137.4 | 9656.4 | 9143.0 | 8484.5 | 8165.7 | 8494.0 | 8503.5 | 8579.9 |
| 40° | 11387.7 | 11416.3 | 11223.5 | 10851.3 | 10410.4 | 9690.8 | 9078.1 | 9221.2 | 9164.0 | 9291.9 |
| 42.5° | 12162.6 | 12219.9 | 12051.9 | 11864.9 | 11609.1 | 10975.4 | 10208.1 | 10183.3 | 10091.6 | 10160.4 |
| 45° | 12832.6 | 12880.3 | 12729.5 | 12685.6 | 12679.9 | 12235.2 | 11443.0 | 11294.2 | 11166.3 | 11152.9 |
| 47.5° | 13078.9 | 13170.5 | 13235.4 | 13382.3 | 13668.7 | 13481.6 | 12720.0 | 12489.0 | 12345.9 | 12240.9 |
| 50° | 13172.4 | 13269.7 | 13491.1 | 13918.7 | 14596.3 | 14676.5 | 13991.2 | 13731.6 | 13556.0 | 13365.2 |
| 52.5° | 13046.4 | 13220.1 | 13517.9 | 14237.5 | 15220.5 | 15634.7 | 15210.9 | 14983.8 | 14783.4 | 14472.2 |
| 55° | 12303.9 | 12477.6 | 13086.5 | 14233.7 | 15531.6 | 16306.6 | 16363.8 | 16262.7 | 16037.4 | 15546.9 |
| 57.5° | 10738.7 | 10996.4 | 11960.3 | 13748.8 | 15525.9 | 16884.9 | 17493.8 | 17566.4 | 17314.4 | 16612.0 |
| 60° | 8570.4 | 8919.7 | 10095.5 | 12674.2 | 15046.8 | 17198.0 | 18484.5 | 18847.1 | 18579.9 | 17661.8 |
| 62.5° | 5980.2 | 6384.8 | 7497.6 | 10990.7 | 13951.2 | 16972.7 | 19207.9 | 19877.9 | 19675.5 | 18600.9 |
| 65° | 3647.6 | 3777.4 | 4674.6 | 8648.6 | 12088.2 | 16029.8 | 19431.2 | 20435.2 | 20368.4 | 19175.4 |
| 67.5° | 2429.9 | 2538.7 | 2796.3 | 5930.5 | 9383.5 | 14145.9 | 18896.8 | 20337.9 | 20357.0 | 19081.9 |
| 70° | 1464.0 | 1557.6 | 1725.5 | 3449.1 | 6081.3 | 11196.8 | 17241.9 | 19097.2 | 19207.9 | 17831.7 |
| 72.5° | 603.2 | 666.2 | 818.9 | 1563.3 | 3149.5 | 7106.3 | 13729.7 | 16396.3 | 16654.0 | 14993.3 |
| 75° | 341.7 | 374.1 | 481.0 | 784.5 | 1366.7 | 3311.7 | 8316.5 | 11639.6 | 12019.5 | 10334.0 |
| 77.5° | 227.1 | 242.4 | 311.1 | 507.7 | 769.2 | 1130.0 | 3554.1 | 6064.1 | 6789.5 | 5644.2 |
| 80° | 152.7 | 166.1 | 213.8 | 339.8 | 500.1 | 484.8 | 1131.9 | 2246.6 | 2763.9 | 1939.3 |
| 82.5° | 103.1 | 105.0 | 152.7 | 223.3 | 316.9 | 234.8 | 334.0 | 698.6 | 878.0 | 561.2 |
| 85° | 59.2 | 57.3 | 112.6 | 129.8 | 141.2 | 97.3 | 101.2 | 210.0 | 274.9 | 236.7 |
| 87.5° | 7.6 | 11.5 | 43.9 | 34.4 | 19.1 | 21.0 | 21.0 | 36.3 | 53.4 | 57.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P850697
 CATALOG NUMBER: GLAN-SB8B-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3311.7 | 0° | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 | 3311.7 |
| 3315.5 | 2.5° | 3315.5 | 3313.6 | 3307.9 | 3302.2 | 3288.8 | 3281.2 | 3285.0 | 3281.2 | 3279.3 | 3281.2 |
| 3340.3 | 5° | 3340.3 | 3334.6 | 3319.3 | 3300.3 | 3273.5 | 3241.1 | 3220.1 | 3189.5 | 3160.9 | 3143.7 |
| 3407.1 | 7.5° | 3407.1 | 3401.4 | 3380.4 | 3327.0 | 3241.1 | 3105.6 | 2981.5 | 2872.7 | 2790.6 | 2742.9 |
| 3514.0 | 10° | 3514.0 | 3504.5 | 3472.0 | 3353.7 | 3128.5 | 2832.6 | 2586.4 | 2382.1 | 2248.5 | 2185.5 |
| 3640.0 | 12.5° | 3640.0 | 3628.6 | 3571.3 | 3328.9 | 2914.7 | 2452.8 | 2113.0 | 1885.9 | 1761.8 | 1706.4 |
| 3785.1 | 15° | 3788.9 | 3773.6 | 3661.0 | 3210.5 | 2603.6 | 2032.8 | 1721.7 | 1551.8 | 1471.7 | 1422.0 |
| 3970.2 | 17.5° | 3974.0 | 3947.3 | 3727.8 | 3033.0 | 2265.7 | 1712.2 | 1481.2 | 1353.3 | 1282.7 | 1235.0 |
| 4212.6 | 20° | 4214.6 | 4170.6 | 3781.3 | 2821.2 | 1954.6 | 1509.8 | 1319.0 | 1212.1 | 1158.6 | 1116.6 |
| 4556.2 | 22.5° | 4550.5 | 4487.5 | 3846.2 | 2592.1 | 1735.1 | 1370.5 | 1198.7 | 1120.4 | 1076.5 | 1028.8 |
| 5035.3 | 25° | 4966.6 | 4892.2 | 3926.3 | 2380.2 | 1584.3 | 1250.2 | 1110.9 | 1046.0 | 994.5 | 939.1 |
| 5663.3 | 27.5° | 5548.8 | 5415.2 | 4021.8 | 2206.5 | 1454.5 | 1147.2 | 1030.7 | 958.2 | 899.0 | 853.2 |
| 6375.3 | 30° | 6197.8 | 5978.2 | 4105.8 | 2101.5 | 1336.1 | 1051.7 | 925.8 | 853.2 | 797.9 | 765.4 |
| 7014.7 | 32.5° | 6812.4 | 6514.6 | 4161.1 | 2055.7 | 1229.2 | 942.9 | 811.2 | 733.0 | 691.0 | 681.4 |
| 7640.8 | 35° | 7392.6 | 6999.4 | 4155.4 | 2011.8 | 1133.8 | 834.1 | 698.6 | 618.4 | 586.0 | 591.7 |
| 8314.6 | 37.5° | 8060.7 | 7516.7 | 4115.3 | 1943.1 | 1055.5 | 734.9 | 601.3 | 530.6 | 502.0 | 503.9 |
| 9133.4 | 40° | 8837.6 | 8114.2 | 4090.5 | 1813.3 | 969.7 | 643.3 | 521.1 | 463.8 | 442.8 | 435.2 |
| 9996.2 | 42.5° | 9666.0 | 8692.5 | 4094.3 | 1666.4 | 862.8 | 561.2 | 465.7 | 418.0 | 398.9 | 393.2 |
| 10956.3 | 45° | 10498.2 | 9244.1 | 4100.0 | 1513.6 | 750.1 | 498.2 | 425.7 | 385.6 | 374.1 | 366.5 |
| 11929.8 | 47.5° | 11280.8 | 9713.7 | 3993.1 | 1349.5 | 639.4 | 450.5 | 393.2 | 366.5 | 356.9 | 347.4 |
| 12907.1 | 50° | 12009.9 | 10026.7 | 3735.5 | 1158.6 | 551.6 | 412.3 | 368.4 | 349.3 | 339.8 | 330.2 |
| 13792.7 | 52.5° | 12576.8 | 10076.4 | 3309.8 | 962.0 | 490.6 | 383.7 | 353.1 | 335.9 | 324.5 | 314.9 |
| 14508.5 | 55° | 12828.8 | 9765.2 | 2704.7 | 778.8 | 442.8 | 358.8 | 337.9 | 320.7 | 307.3 | 297.8 |
| 15071.6 | 57.5° | 12763.9 | 9110.5 | 2109.2 | 626.1 | 397.0 | 334.0 | 318.8 | 307.3 | 292.0 | 276.8 |
| 15527.8 | 60° | 12445.1 | 8234.4 | 1590.0 | 521.1 | 355.0 | 307.3 | 297.8 | 288.2 | 267.2 | 244.3 |
| 15703.4 | 62.5° | 11893.5 | 7133.1 | 1133.8 | 431.4 | 309.2 | 276.8 | 273.0 | 265.3 | 234.8 | 192.8 |
| 15443.8 | 65° | 11049.8 | 5795.0 | 763.5 | 358.8 | 265.3 | 242.4 | 244.3 | 231.0 | 190.9 | 143.2 |
| 14493.2 | 67.5° | 9816.8 | 4237.5 | 488.6 | 293.9 | 221.4 | 202.3 | 204.2 | 196.6 | 162.2 | 122.2 |
| 12691.4 | 70° | 8245.9 | 2805.9 | 318.8 | 223.3 | 177.5 | 156.5 | 168.0 | 169.9 | 137.4 | 99.3 |
| 9740.4 | 72.5° | 6045.1 | 1656.8 | 223.3 | 166.1 | 129.8 | 108.8 | 137.4 | 141.2 | 110.7 | 74.4 |
| 5859.9 | 75° | 3445.3 | 786.4 | 168.0 | 120.3 | 80.2 | 76.4 | 106.9 | 106.9 | 76.4 | 49.6 |
| 2536.7 | 77.5° | 1446.8 | 328.3 | 118.3 | 78.3 | 45.8 | 43.9 | 72.5 | 66.8 | 38.2 | 22.9 |
| 618.4 | 80° | 418.0 | 147.0 | 63.0 | 38.2 | 19.1 | 17.2 | 28.6 | 21.0 | 9.5 | 3.8 |
| 234.8 | 82.5° | 164.2 | 64.9 | 24.8 | 15.3 | 7.6 | 7.6 | 3.8 | 0.0 | 0.0 | 0.0 |
| 133.6 | 85° | 97.3 | 26.7 | 11.5 | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28.6 | 87.5° | 24.8 | 5.7 | 3.8 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 3311.7 |
| 3288.8 |
| 3147.6 |
| 2744.8 |
| 2179.8 |
| 1700.7 |
| 1423.9 |
| 1231.2 |
| 1109.0 |
| 1021.2 |
| 933.4 |
| 843.7 |
| 759.7 |
| 687.2 |
| 591.7 |
| 511.5 |
| 433.3 |
| 391.3 |
| 366.5 |
| 347.4 |
| 330.2 |
| 313.0 |
| 295.9 |
| 274.9 |
| 240.5 |
| 189.0 |
| 139.3 |
| 116.4 |
| 95.4 |
| 70.6 |
| 45.8 |
| 22.9 |
| 3.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)