

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: P848178

Luminaire Tested: **GLAN-SB4C-840-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4C-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26710 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

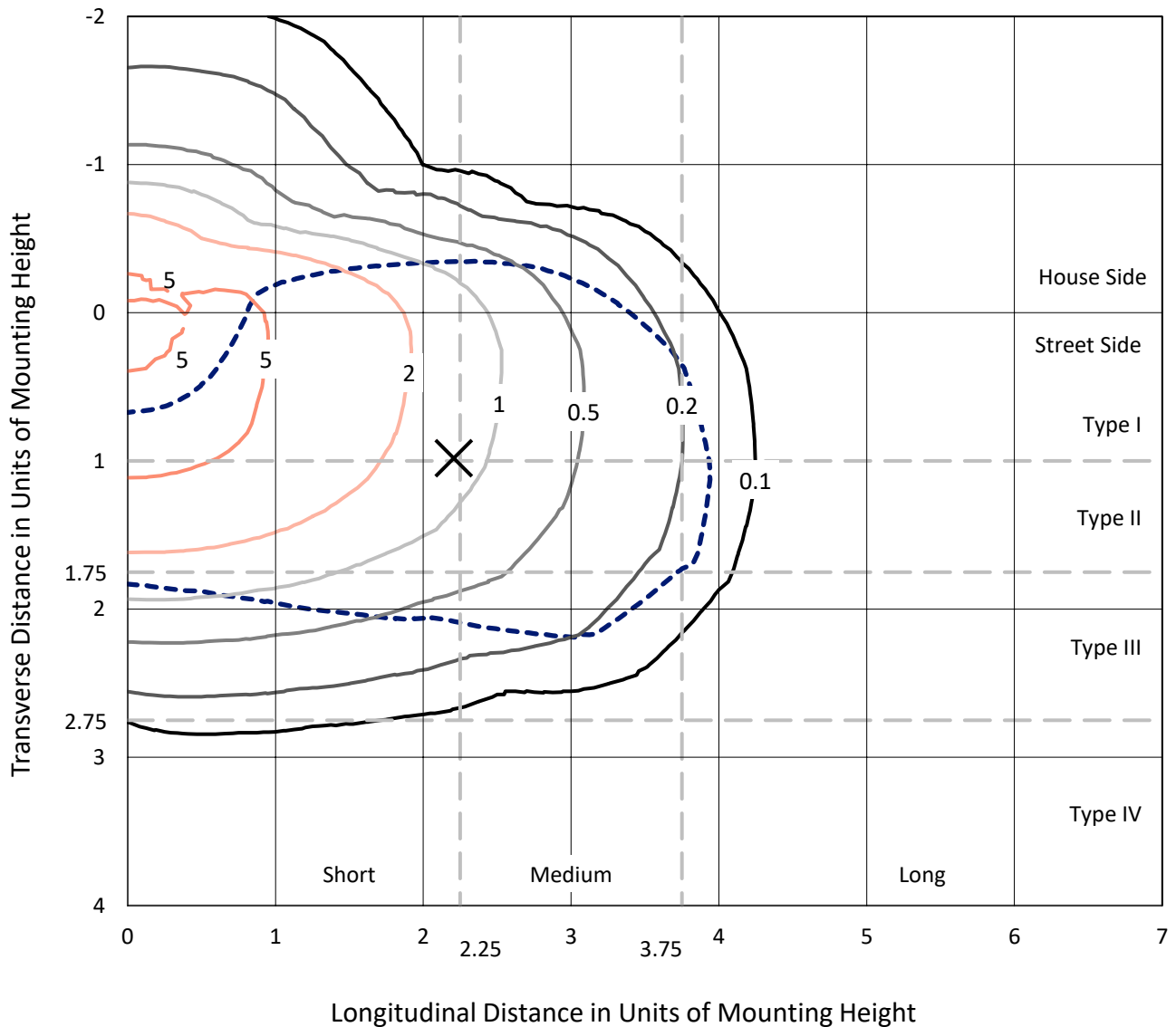
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P848178
 CATALOG NUMBER: GLAN-SB4C-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

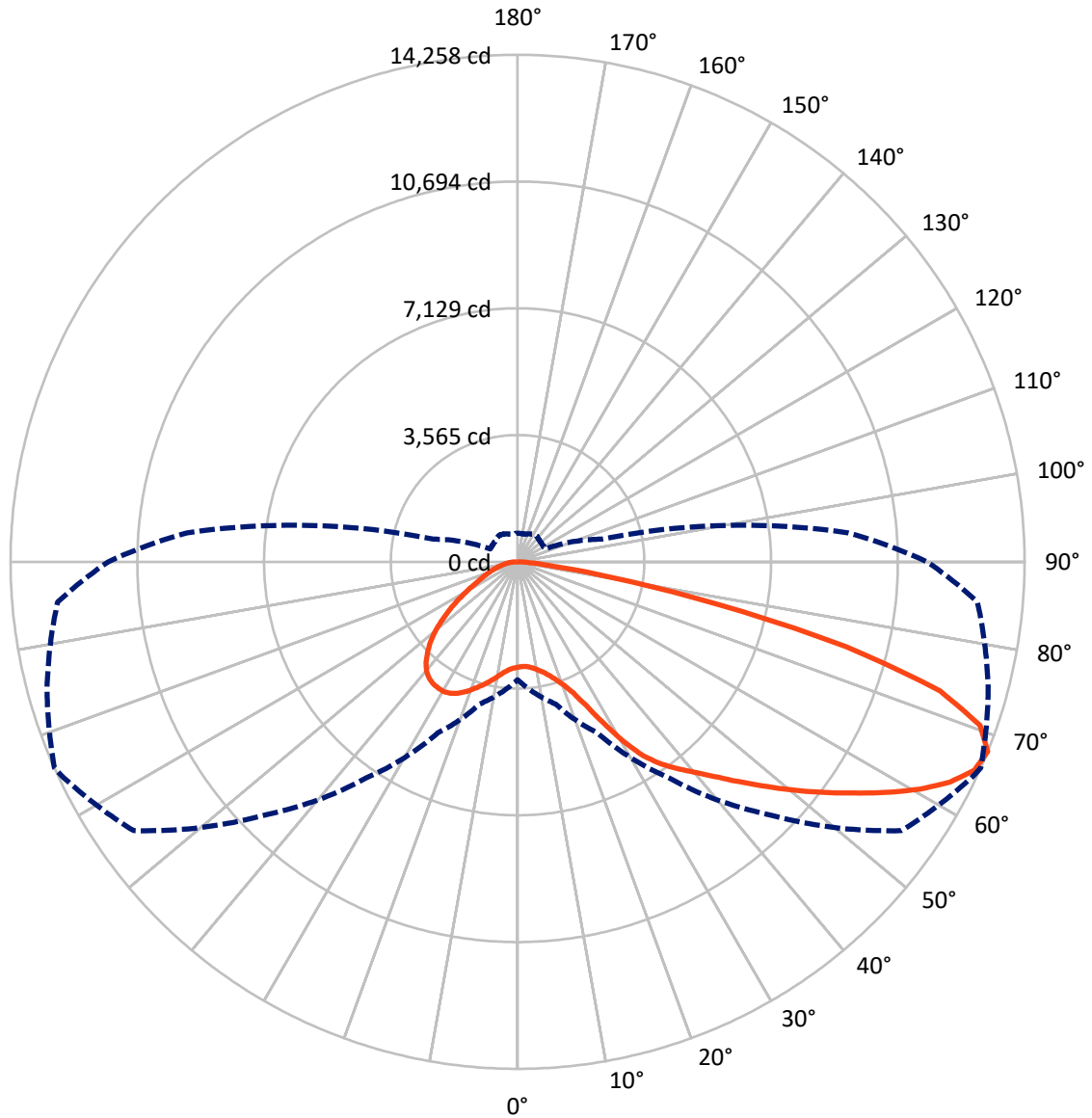
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

REPORT NUMBER: P848178
CATALOG NUMBER: GLAN-SB4C-840-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P848178
 CATALOG NUMBER: GLAN-SB4C-840-U-T3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6641.4 | 0.0 | 6641.4 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 20068.6 | 0.0 | 20068.6 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 26710.0 | 0.0 | 26710.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 293.7 | 1.1 |
| 10°-20° | 970.4 | 3.6 |
| 20°-30° | 1870.4 | 7.0 |
| 30°-40° | 3279.5 | 12.3 |
| 40°-50° | 4875.6 | 18.3 |
| 50°-60° | 6180.3 | 23.1 |
| 60°-70° | 6047.2 | 22.6 |
| 70°-80° | 2884.6 | 10.8 |
| 80°-90° | 308.3 | 1.2 |
| 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° | 26710.0 | 100.0 |
| 0°-180° | 26710.0 | 100.0 |

Coefficient of Utilization



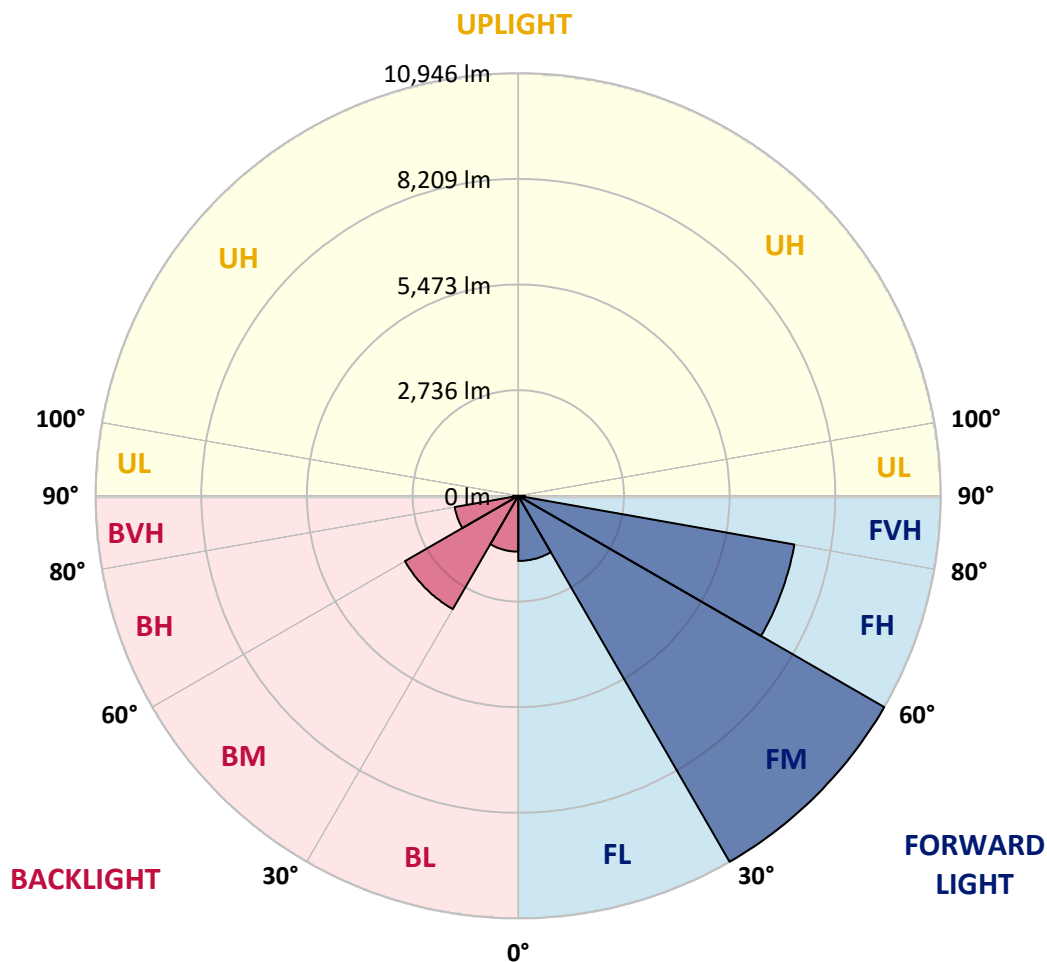
REPORT NUMBER: P848178
 CATALOG NUMBER: GLAN-SB4C-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1687.8 | 6.3 | | | |
| FM (30°-60°) | 10945.5 | 41.0 | | | |
| FH (60°-80°) | 7260.5 | 27.2 | | | G3/7500 |
| FVH (80°-90°) | 174.8 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1446.7 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3389.8 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 1671.3 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 133.5 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P848178
 CATALOG NUMBER: GLAN-SB4C-840-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 |
| 2.5° | 2931.6 | 2948.5 | 2944.2 | 2937.2 | 2935.8 | 2938.6 | 2942.8 | 2947.1 | 2945.7 | 2952.7 |
| 5° | 2923.2 | 2940.0 | 2938.6 | 2938.6 | 2944.2 | 2955.5 | 2962.5 | 2969.5 | 2962.5 | 2970.9 |
| 7.5° | 2928.8 | 2941.4 | 2947.1 | 2952.7 | 2966.7 | 2987.8 | 3004.6 | 3020.0 | 3011.6 | 3021.4 |
| 10° | 3000.4 | 3010.2 | 3015.8 | 3015.8 | 3025.6 | 3049.5 | 3066.3 | 3094.4 | 3087.4 | 3102.8 |
| 12.5° | 3130.9 | 3140.7 | 3140.7 | 3135.1 | 3142.1 | 3157.6 | 3163.2 | 3194.0 | 3181.4 | 3206.7 |
| 15° | 3290.9 | 3310.5 | 3295.1 | 3285.3 | 3288.1 | 3303.5 | 3302.1 | 3326.0 | 3313.3 | 3334.4 |
| 17.5° | 3467.7 | 3493.0 | 3467.7 | 3466.3 | 3460.7 | 3477.5 | 3478.9 | 3500.0 | 3477.5 | 3493.0 |
| 20° | 3676.8 | 3711.9 | 3690.8 | 3697.9 | 3685.2 | 3692.2 | 3699.3 | 3730.1 | 3695.0 | 3706.3 |
| 22.5° | 3971.5 | 4013.6 | 3991.2 | 4017.8 | 4009.4 | 4003.8 | 4002.4 | 4057.1 | 4002.4 | 4006.6 |
| 25° | 4400.9 | 4451.5 | 4412.2 | 4448.6 | 4448.6 | 4466.9 | 4487.9 | 4558.1 | 4466.9 | 4440.2 |
| 27.5° | 5035.3 | 5085.8 | 5008.6 | 5031.0 | 5024.0 | 5068.9 | 5046.5 | 5220.5 | 5122.3 | 5078.8 |
| 30° | 5798.7 | 5888.5 | 5742.5 | 5736.9 | 5729.9 | 5801.5 | 5833.8 | 5948.8 | 5849.2 | 5805.7 |
| 32.5° | 6623.9 | 6717.9 | 6543.9 | 6493.3 | 6466.7 | 6510.2 | 6483.5 | 6576.1 | 6507.4 | 6440.0 |
| 35° | 7496.7 | 7589.4 | 7423.8 | 7325.5 | 7218.9 | 7127.7 | 7032.2 | 7056.1 | 6991.5 | 6889.1 |
| 37.5° | 8321.9 | 8491.7 | 8316.3 | 8211.1 | 8014.6 | 7836.4 | 7569.7 | 7458.9 | 7398.5 | 7304.5 |
| 40° | 9162.5 | 9259.4 | 9126.0 | 9036.2 | 8822.9 | 8543.7 | 8117.0 | 7882.7 | 7801.3 | 7710.1 |
| 42.5° | 9781.4 | 9874.0 | 9802.5 | 9740.7 | 9573.7 | 9249.5 | 8698.0 | 8404.7 | 8286.8 | 8184.4 |
| 45° | 10272.6 | 10341.4 | 10296.4 | 10318.9 | 10247.3 | 9933.0 | 9300.1 | 8964.7 | 8842.6 | 8717.7 |
| 47.5° | 10470.5 | 10543.4 | 10615.0 | 10748.3 | 10870.4 | 10638.9 | 9947.0 | 9570.9 | 9441.8 | 9314.1 |
| 50° | 10448.0 | 10522.4 | 10730.1 | 11013.6 | 11392.5 | 11315.3 | 10629.0 | 10216.5 | 10097.2 | 9951.2 |
| 52.5° | 10268.4 | 10352.6 | 10619.2 | 11090.8 | 11694.2 | 11821.9 | 11323.7 | 10883.1 | 10770.8 | 10596.8 |
| 55° | 9796.9 | 9847.4 | 10247.3 | 10915.3 | 11765.8 | 12175.5 | 12004.3 | 11593.2 | 11480.9 | 11238.1 |
| 57.5° | 8922.6 | 8995.5 | 9577.9 | 10442.4 | 11586.1 | 12415.5 | 12602.2 | 12339.7 | 12231.7 | 11882.2 |
| 60° | 7781.6 | 7898.1 | 8564.7 | 9648.1 | 11128.6 | 12414.1 | 13145.3 | 13073.7 | 12983.9 | 12516.6 |
| 62.5° | 6490.5 | 6625.3 | 7266.6 | 8525.4 | 10328.7 | 12061.9 | 13484.9 | 13688.4 | 13642.1 | 13101.8 |
| 65° | 4984.7 | 5077.4 | 5715.9 | 7072.9 | 9083.9 | 11305.5 | 13524.2 | 14108.0 | 14116.4 | 13546.6 |
| 67.5° | 3318.9 | 3585.6 | 4139.9 | 5307.5 | 7416.8 | 10069.1 | 13178.9 | 14176.7 | 14258.1 | 13699.6 |
| 70° | 1619.5 | 1970.3 | 2513.4 | 3449.5 | 5307.5 | 8173.2 | 12276.6 | 13612.6 | 13793.6 | 13253.3 |
| 72.5° | 672.2 | 785.9 | 1082.0 | 1702.3 | 3046.7 | 5515.2 | 10463.4 | 12082.9 | 12418.3 | 11743.3 |
| 75° | 453.3 | 491.2 | 618.9 | 872.9 | 1387.9 | 2719.7 | 7545.9 | 9009.6 | 9549.9 | 8869.2 |
| 77.5° | 349.4 | 373.3 | 450.5 | 610.5 | 825.2 | 1028.7 | 4038.9 | 5429.6 | 5708.9 | 5285.1 |
| 80° | 275.1 | 293.3 | 336.8 | 444.9 | 585.2 | 550.1 | 1376.7 | 2460.1 | 2621.5 | 2199.1 |
| 82.5° | 238.6 | 245.6 | 241.4 | 301.7 | 388.7 | 321.4 | 451.9 | 908.0 | 1002.0 | 726.9 |
| 85° | 172.6 | 192.3 | 200.7 | 186.6 | 206.3 | 162.8 | 185.2 | 321.4 | 353.6 | 315.8 |
| 87.5° | 70.2 | 103.8 | 127.7 | 120.7 | 75.8 | 46.3 | 57.5 | 94.0 | 108.1 | 117.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P848178
 CATALOG NUMBER: GLAN-SB4C-840-U-T3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2962.5 | 0° | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 | 2962.5 |
| 2963.9 | 2.5° | 2965.3 | 2975.1 | 2982.1 | 2990.6 | 2996.2 | 3004.6 | 3021.4 | 3031.3 | 3032.7 | 3039.7 |
| 2986.3 | 5° | 2992.0 | 3006.0 | 3021.4 | 3043.9 | 3069.1 | 3090.2 | 3122.5 | 3144.9 | 3153.3 | 3160.4 |
| 3041.1 | 7.5° | 3049.5 | 3069.1 | 3097.2 | 3136.5 | 3173.0 | 3201.1 | 3240.4 | 3267.0 | 3293.7 | 3303.5 |
| 3128.1 | 10° | 3135.1 | 3163.2 | 3203.9 | 3257.2 | 3296.5 | 3333.0 | 3373.7 | 3396.1 | 3422.8 | 3434.0 |
| 3231.9 | 12.5° | 3241.8 | 3271.2 | 3324.6 | 3398.9 | 3435.4 | 3460.7 | 3474.7 | 3469.1 | 3474.7 | 3484.5 |
| 3356.8 | 15° | 3363.9 | 3396.1 | 3456.5 | 3536.5 | 3561.7 | 3539.3 | 3508.4 | 3480.3 | 3476.1 | 3478.9 |
| 3508.4 | 17.5° | 3508.4 | 3532.3 | 3602.4 | 3669.8 | 3651.5 | 3558.9 | 3491.6 | 3446.7 | 3424.2 | 3417.2 |
| 3702.1 | 20° | 3710.5 | 3710.5 | 3768.0 | 3810.1 | 3688.0 | 3530.9 | 3425.6 | 3352.6 | 3306.3 | 3286.7 |
| 3965.9 | 22.5° | 3956.1 | 3933.6 | 3970.1 | 3940.6 | 3681.0 | 3452.3 | 3306.3 | 3180.0 | 3109.8 | 3081.8 |
| 4335.0 | 25° | 4267.6 | 4241.0 | 4231.1 | 4048.7 | 3630.5 | 3327.4 | 3090.2 | 2937.2 | 2875.5 | 2860.0 |
| 4866.9 | 27.5° | 4737.7 | 4670.4 | 4542.7 | 4107.6 | 3537.9 | 3130.9 | 2837.6 | 2695.9 | 2660.8 | 2662.2 |
| 5550.3 | 30° | 5363.6 | 5228.9 | 4916.0 | 4117.5 | 3386.3 | 2853.0 | 2579.4 | 2478.3 | 2461.5 | 2468.5 |
| 6124.3 | 32.5° | 5943.2 | 5815.5 | 5297.7 | 4072.5 | 3153.3 | 2580.8 | 2347.8 | 2280.5 | 2255.2 | 2263.6 |
| 6562.1 | 35° | 6397.9 | 6362.8 | 5651.3 | 4009.4 | 2867.1 | 2325.4 | 2140.1 | 2082.6 | 2033.5 | 2022.2 |
| 6974.7 | 37.5° | 6827.3 | 6813.3 | 5916.6 | 3921.0 | 2583.6 | 2144.3 | 1973.1 | 1897.3 | 1825.8 | 1786.5 |
| 7430.8 | 40° | 7298.9 | 7284.8 | 6090.6 | 3784.9 | 2332.4 | 1987.2 | 1823.0 | 1723.3 | 1634.9 | 1563.3 |
| 7947.2 | 42.5° | 7829.3 | 7746.5 | 6173.4 | 3589.8 | 2119.1 | 1853.8 | 1700.9 | 1566.1 | 1449.7 | 1383.7 |
| 8531.0 | 45° | 8408.9 | 8222.3 | 6172.0 | 3341.4 | 1939.4 | 1731.7 | 1570.4 | 1379.5 | 1271.4 | 1209.7 |
| 9130.3 | 47.5° | 9023.6 | 8677.0 | 6096.2 | 3066.3 | 1765.4 | 1597.0 | 1368.3 | 1222.3 | 1150.8 | 1112.9 |
| 9781.4 | 50° | 9657.9 | 9102.2 | 5967.1 | 2750.6 | 1587.2 | 1444.1 | 1242.0 | 1142.3 | 1087.6 | 1052.5 |
| 10427.0 | 52.5° | 10254.3 | 9488.1 | 5811.3 | 2392.7 | 1406.2 | 1295.3 | 1185.8 | 1108.7 | 1051.1 | 1011.8 |
| 11052.9 | 55° | 10808.7 | 9820.7 | 5591.0 | 2026.5 | 1258.8 | 1195.7 | 1159.2 | 1094.6 | 1028.7 | 982.4 |
| 11688.6 | 57.5° | 11301.3 | 10036.8 | 5210.7 | 1682.6 | 1153.6 | 1126.9 | 1131.1 | 1070.8 | 995.0 | 955.7 |
| 12314.5 | 60° | 11711.0 | 10195.4 | 4647.9 | 1364.1 | 1068.0 | 1059.5 | 1087.6 | 1025.9 | 937.4 | 892.5 |
| 12843.5 | 62.5° | 11956.6 | 10192.6 | 3957.5 | 1117.1 | 995.0 | 997.8 | 1030.1 | 969.7 | 879.9 | 837.8 |
| 13120.0 | 65° | 11935.6 | 9942.8 | 3199.7 | 955.7 | 924.8 | 927.6 | 969.7 | 908.0 | 832.2 | 806.9 |
| 12981.1 | 67.5° | 11513.2 | 9333.7 | 2454.5 | 850.4 | 847.6 | 860.3 | 909.4 | 865.9 | 802.7 | 799.9 |
| 12153.1 | 70° | 10369.4 | 8069.3 | 1768.2 | 766.2 | 767.6 | 785.9 | 850.4 | 839.2 | 787.3 | 792.9 |
| 10217.9 | 72.5° | 8314.9 | 6152.3 | 1187.2 | 677.8 | 679.2 | 708.7 | 794.3 | 818.2 | 771.8 | 846.2 |
| 7249.8 | 75° | 5537.7 | 3836.8 | 763.4 | 583.8 | 585.2 | 623.1 | 745.2 | 777.5 | 729.7 | 843.4 |
| 3772.2 | 77.5° | 2660.8 | 1724.7 | 552.9 | 491.2 | 491.2 | 526.3 | 644.1 | 696.1 | 621.7 | 655.4 |
| 1212.5 | 80° | 919.2 | 648.4 | 435.0 | 395.7 | 387.3 | 411.2 | 543.1 | 603.4 | 536.1 | 494.0 |
| 395.7 | 82.5° | 362.1 | 336.8 | 349.4 | 307.3 | 279.3 | 294.7 | 422.4 | 498.2 | 394.3 | 356.5 |
| 223.1 | 85° | 207.7 | 218.9 | 247.0 | 203.5 | 161.4 | 181.0 | 310.1 | 357.9 | 297.5 | 262.4 |
| 73.0 | 87.5° | 56.1 | 77.2 | 113.7 | 105.3 | 73.0 | 77.2 | 147.4 | 197.9 | 171.2 | 131.9 |
| 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

| 180° |
|--------------|
| 2962.5 |
| 3038.3 |
| 3159.0 |
| 3304.9 |
| 3439.6 |
| 3487.3 |
| 3488.8 |
| 3427.0 |
| 3282.5 |
| 3077.6 |
| 2862.9 |
| 2666.4 |
| 2492.4 |
| 2274.8 |
| 2030.7 |
| 1787.9 |
| 1570.4 |
| 1387.9 |
| 1206.9 |
| 1104.4 |
| 1039.9 |
| 995.0 |
| 964.1 |
| 930.4 |
| 872.9 |
| 825.2 |
| 805.5 |
| <i>804.1</i> |
| 791.5 |
| 857.5 |
| 850.4 |
| 600.6 |
| 463.1 |
| 355.0 |
| 268.0 |
| 136.1 |
| 0.0 |

F REPORT)