

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: P850313

Luminaire Tested: **GLAN-SB7D-735-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 70395 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

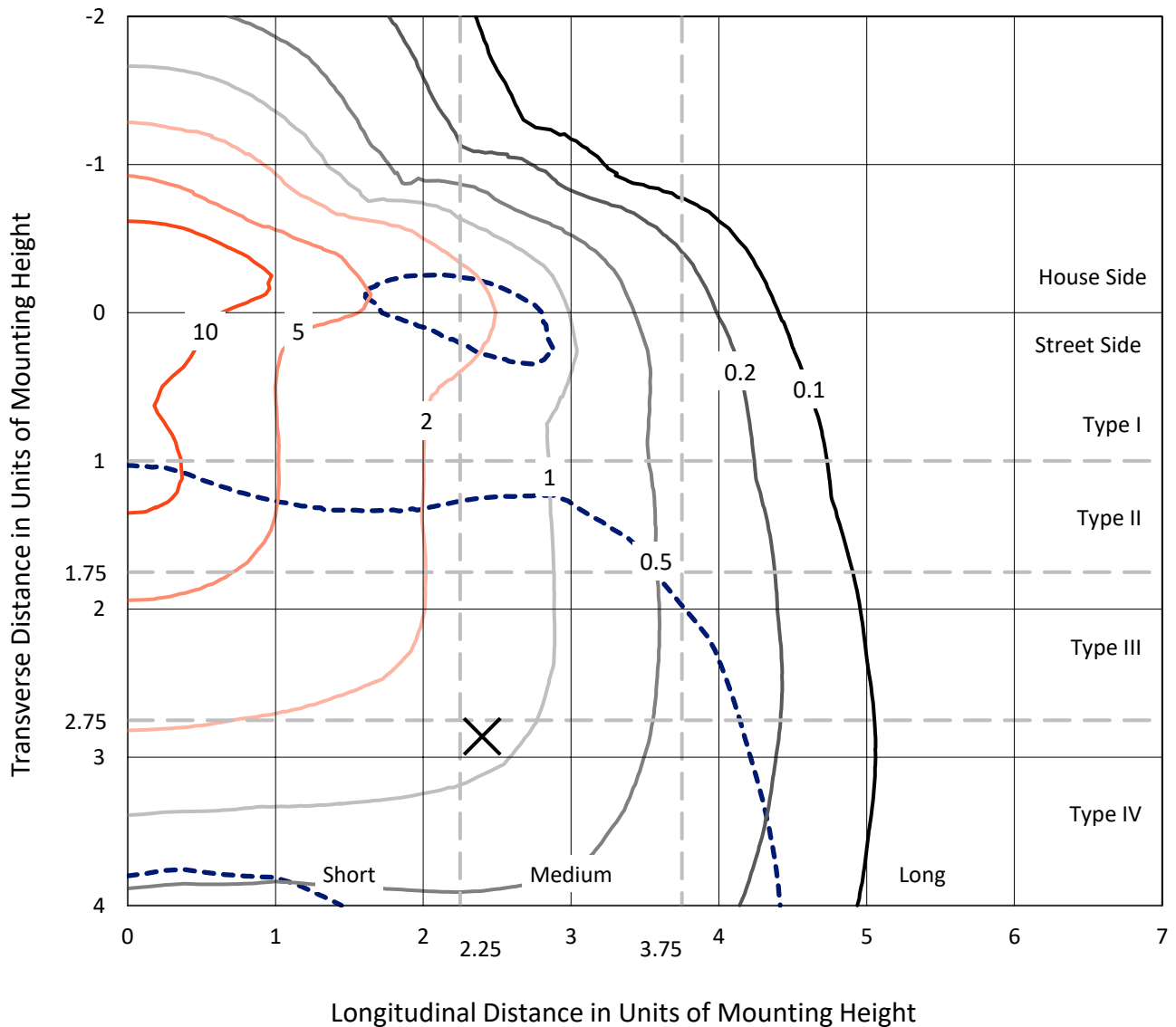
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P850313
 CATALOG NUMBER: GLAN-SB7D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

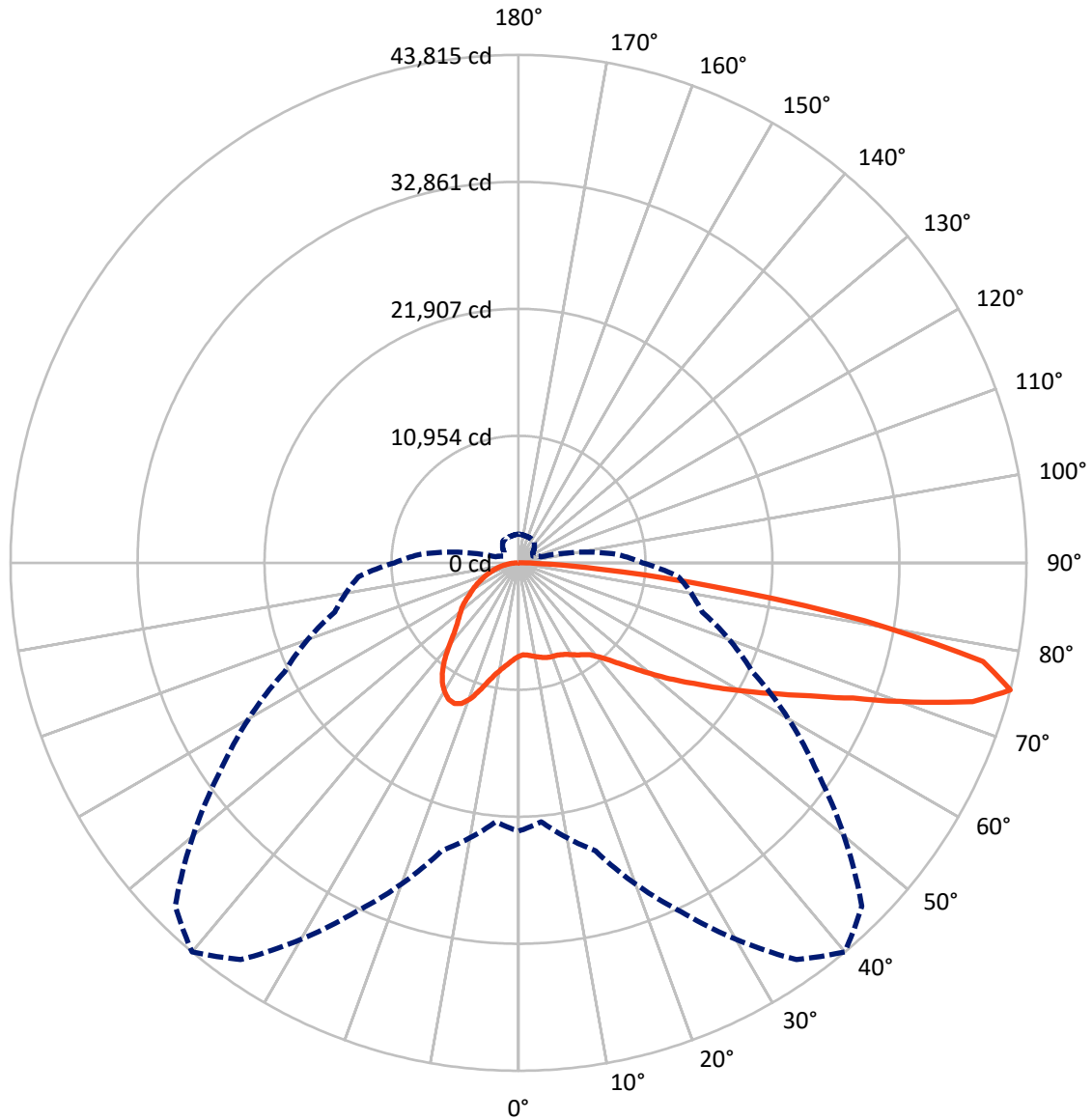
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P850313
CATALOG NUMBER: GLAN-SB7D-735-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P850313
 CATALOG NUMBER: GLAN-SB7D-735-U-SL4

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21810.7 | 0.0 | 21810.7 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 48584.3 | 0.0 | 48584.3 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 70395.0 | 0.0 | 70395.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 803.5 | 1.1 |
| 10°-20° | 2697.8 | 3.8 |
| 20°-30° | 4925.9 | 7.0 |
| 30°-40° | 6986.3 | 9.9 |
| 40°-50° | 9433.6 | 13.4 |
| 50°-60° | 12690.8 | 18.0 |
| 60°-70° | 16107.5 | 22.9 |
| 70°-80° | 14618.6 | 20.8 |
| 80°-90° | 2130.9 | 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° | 70395.0 | 100.0 |
| 0°-180° | 70395.0 | 100.0 |

Coefficient of Utilization

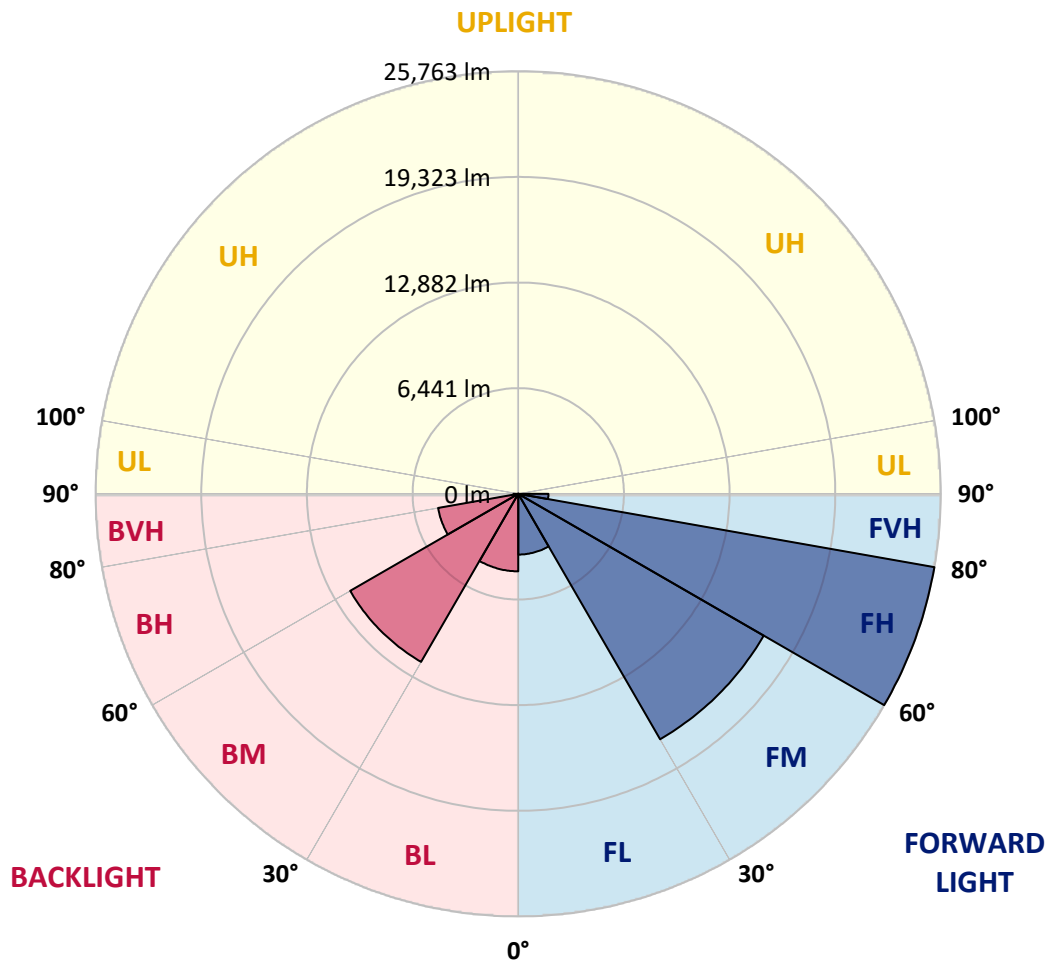


REPORT NUMBER: P850313
 CATALOG NUMBER: GLAN-SB7D-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3702.8 | 5.3 | | | |
| FM (30°-60°) | 17280.4 | 24.5 | | | |
| FH (60°-80°) | 25763.5 | 36.6 | | | G5 |
| FVH (80°-90°) | 1837.5 | 2.6 | | | G5 |
| BL (0°-30°) | 4724.4 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 11830.4 | 16.8 | B5 | | |
| BH (60°-80°) | 4962.6 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 293.4 | 0.4 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type IV Medium



REPORT NUMBER: P850313
 CATALOG NUMBER: GLAN-SB7D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 |
| 2.5° | 7926.6 | 7971.4 | 7960.2 | 7945.2 | 7945.2 | 7949.0 | 7945.2 | 7971.4 | 7997.5 | 8023.6 |
| 5° | 8008.7 | 8053.5 | 8031.1 | 8012.4 | 7997.5 | 7993.8 | 7982.6 | 7978.8 | 7993.8 | 8027.4 |
| 7.5° | 8169.2 | 8214.0 | 8180.4 | 8146.8 | 8117.0 | 8102.0 | 8087.1 | 8064.7 | 8053.5 | 8072.2 |
| 10° | 8348.5 | 8393.3 | 8352.2 | 8292.4 | 8243.9 | 8225.2 | 8210.3 | 8187.9 | 8173.0 | 8184.2 |
| 12.5° | 8527.7 | 8572.5 | 8516.5 | 8434.3 | 8370.9 | 8359.7 | 8341.0 | 8333.5 | 8329.8 | 8326.1 |
| 15° | 8695.7 | 8733.0 | 8662.1 | 8565.0 | 8497.8 | 8479.1 | 8460.5 | 8471.7 | 8490.3 | 8512.7 |
| 17.5° | 8826.4 | 8863.7 | 8759.2 | 8632.2 | 8568.7 | 8561.3 | 8550.1 | 8587.4 | 8639.7 | 8695.7 |
| 20° | 8945.8 | 8983.2 | 8848.8 | 8677.0 | 8602.3 | 8602.3 | 8606.1 | 8684.5 | 8759.2 | 8841.3 |
| 22.5° | 9113.9 | 9143.7 | 8979.4 | 8744.2 | 8635.9 | 8643.4 | 8673.3 | 8751.7 | 8845.0 | 8957.0 |
| 25° | 9364.0 | 9386.4 | 9184.8 | 8871.2 | 8748.0 | 8770.4 | 8796.5 | 8833.8 | 8923.4 | 9054.1 |
| 27.5° | 9767.2 | 9785.9 | 9520.8 | 9095.2 | 8908.5 | 8945.8 | 8983.2 | 8957.0 | 8998.1 | 9110.1 |
| 30° | 10334.8 | 10346.0 | 10009.9 | 9446.1 | 9181.1 | 9199.7 | 9207.2 | 9098.9 | 9020.5 | 9110.1 |
| 32.5° | 11006.8 | 11003.1 | 10603.6 | 9871.8 | 9491.0 | 9472.3 | 9408.8 | 9196.0 | 9013.0 | 9091.5 |
| 35° | 12048.5 | 12007.4 | 11492.2 | 10469.2 | 9841.9 | 9726.2 | 9576.8 | 9304.3 | 9050.4 | 9072.8 |
| 37.5° | 13773.5 | 13646.5 | 12933.4 | 11447.4 | 10364.6 | 10069.7 | 9849.4 | 9479.8 | 9132.5 | 9065.3 |
| 40° | 15718.7 | 15558.1 | 14774.1 | 12787.8 | 11148.7 | 10674.5 | 10319.8 | 9729.9 | 9266.9 | 9098.9 |
| 42.5° | 18026.1 | 17798.3 | 16954.5 | 14367.1 | 12141.8 | 11454.9 | 10920.9 | 10047.3 | 9464.8 | 9207.2 |
| 45° | 20859.9 | 20557.5 | 19362.7 | 16148.1 | 13392.6 | 12477.9 | 11764.7 | 10528.9 | 9767.2 | 9416.3 |
| 47.5° | 23723.6 | 23798.3 | 22099.5 | 18186.6 | 14893.6 | 13739.9 | 12821.4 | 11253.2 | 10207.8 | 9752.3 |
| 50° | 26766.6 | 26818.9 | 24821.3 | 20445.5 | 16596.1 | 15166.1 | 14008.7 | 12063.4 | 10820.1 | 10230.2 |
| 52.5° | 29141.2 | 29148.7 | 27293.0 | 22808.9 | 18369.6 | 16734.2 | 15289.3 | 12989.4 | 11529.5 | 10864.9 |
| 55° | 30627.2 | 30608.5 | 29025.4 | 25045.4 | 20408.2 | 18380.8 | 16708.1 | 14042.3 | 12395.7 | 11611.7 |
| 57.5° | 31706.2 | 31650.2 | 30220.2 | 26968.2 | 22581.2 | 20326.0 | 18313.6 | 15237.0 | 13418.8 | 12500.3 |
| 60° | 32116.9 | 32083.3 | 31030.4 | 28629.7 | 24866.1 | 22476.6 | 20165.5 | 16573.7 | 14579.9 | 13549.4 |
| 62.5° | 32273.7 | 32337.2 | 31825.7 | 30238.9 | 27311.7 | 24858.7 | 22200.3 | 18171.7 | 15886.7 | 14736.7 |
| 65° | 32826.3 | 32942.0 | 32837.5 | 32344.7 | 30074.6 | 27647.7 | 24899.8 | 20072.1 | 17313.0 | 16009.9 |
| 67.5° | 33920.3 | 34036.0 | 34080.8 | 34864.9 | 33449.8 | 31123.8 | 28267.5 | 22439.3 | 18981.9 | 17331.6 |
| 70° | 33894.1 | 33860.5 | 34652.1 | 36869.9 | 37676.3 | 35936.4 | 32807.6 | 25351.5 | 20971.9 | 18429.3 |
| 72.5° | 30851.2 | 30582.4 | 32452.9 | 36847.4 | 41193.4 | 40961.9 | 38352.1 | 29107.6 | 22689.4 | 18563.7 |
| 75° | 23144.9 | 22428.1 | 25732.4 | 33207.1 | 41779.6 | 43814.5 | 41876.7 | 31437.4 | 22282.5 | 16402.0 |
| 77.5° | 9897.9 | 9177.3 | 13071.5 | 24582.4 | 37392.6 | 40958.2 | 38643.3 | 27427.4 | 17787.1 | 10846.3 |
| 80° | 2591.2 | 2587.4 | 3950.2 | 11145.0 | 25429.9 | 30246.3 | 26535.1 | 17712.5 | 10163.0 | 3875.5 |
| 82.5° | 1071.6 | 1045.4 | 1452.4 | 4334.8 | 12425.6 | 16973.2 | 13851.9 | 7900.4 | 3670.2 | 1049.2 |
| 85° | 399.5 | 395.8 | 705.7 | 1497.2 | 4383.3 | 7000.6 | 5066.6 | 2019.9 | 914.7 | 511.5 |
| 87.5° | 112.0 | 108.3 | 153.1 | 519.0 | 1067.8 | 1620.4 | 866.2 | 332.3 | 257.6 | 201.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P850313
 CATALOG NUMBER: GLAN-SB7D-735-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 8049.8 | 0° | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 | 8049.8 |
| 8064.7 | 2.5° | 8075.9 | 8094.6 | 8128.2 | 8154.3 | 8187.9 | 8225.2 | 8277.5 | 8311.1 | 8344.7 | 8367.1 |
| 8083.4 | 5° | 8109.5 | 8150.6 | 8236.4 | 8322.3 | 8423.1 | 8516.5 | 8624.7 | 8703.2 | 8766.6 | 8785.3 |
| 8150.6 | 7.5° | 8184.2 | 8251.4 | 8397.0 | 8542.6 | 8703.2 | 8856.2 | 9013.0 | 9147.5 | 9255.7 | 9296.8 |
| 8270.0 | 10° | 8314.9 | 8404.5 | 8609.8 | 8815.2 | 9028.0 | 9263.2 | 9464.8 | 9659.0 | 9812.0 | 9875.5 |
| 8411.9 | 12.5° | 8479.1 | 8591.1 | 8860.0 | 9143.7 | 9438.7 | 9763.5 | 10024.9 | 10263.8 | 10454.2 | 10540.1 |
| 8609.8 | 15° | 8692.0 | 8837.6 | 9181.1 | 9561.9 | 9995.0 | 10446.8 | 10779.1 | 11044.2 | 11257.0 | 11361.5 |
| 8815.2 | 17.5° | 8923.4 | 9117.6 | 9550.7 | 10125.7 | 10745.5 | 11339.1 | 11727.4 | 11921.6 | 12141.8 | 12242.7 |
| 9005.6 | 20° | 9147.5 | 9386.4 | 10006.2 | 10842.5 | 11667.7 | 12298.7 | 12612.3 | 12664.6 | 12679.5 | 12690.7 |
| 9184.8 | 22.5° | 9378.9 | 9700.0 | 10577.4 | 11746.1 | 12631.0 | 13067.8 | 13112.6 | 12888.6 | 12575.0 | 12429.3 |
| 9360.3 | 25° | 9632.8 | 10058.5 | 11324.2 | 12743.0 | 13459.8 | 13512.1 | 13168.6 | 12623.5 | 12029.8 | 11757.3 |
| 9502.2 | 27.5° | 9879.3 | 10472.9 | 12220.3 | 13695.0 | 14057.2 | 13598.0 | 12858.7 | 12085.8 | 11369.0 | 11081.5 |
| 9603.0 | 30° | 10125.7 | 10947.1 | 13209.7 | 14527.7 | 14329.8 | 13385.2 | 12369.6 | 11507.1 | 10786.5 | 10484.1 |
| 9692.6 | 32.5° | 10375.8 | 11499.7 | 14348.4 | 15128.8 | 14281.2 | 12933.4 | 11761.0 | 10857.5 | 10222.7 | 9905.4 |
| 9771.0 | 35° | 10659.6 | 12179.2 | 15427.5 | 15457.3 | 13956.4 | 12268.8 | 10958.3 | 10080.9 | 9528.3 | 9274.4 |
| 9864.3 | 37.5° | 11029.2 | 13041.7 | 16379.5 | 15539.5 | 13388.9 | 11294.3 | 9961.4 | 9162.4 | 8706.9 | 8591.1 |
| 10002.5 | 40° | 11488.5 | 14079.6 | 17107.6 | 15408.8 | 12548.8 | 10110.7 | 8871.2 | 8232.7 | 7975.1 | 8001.2 |
| 10189.1 | 42.5° | 12085.8 | 15240.8 | 17619.1 | 15072.8 | 11380.2 | 8889.8 | 7915.4 | 7631.6 | 7754.8 | 7859.3 |
| 10469.2 | 45° | 12862.4 | 16446.8 | 17936.5 | 14501.5 | 10058.5 | 7855.6 | 7351.6 | 7418.8 | 7512.1 | 7523.3 |
| 10920.9 | 47.5° | 13855.6 | 17667.7 | 18145.6 | 13639.0 | 8710.6 | 7127.5 | 6993.1 | 7008.1 | 6989.4 | 6911.0 |
| 11596.7 | 50° | 15095.2 | 18855.0 | 18332.3 | 12496.5 | 7564.4 | 6672.0 | 6492.8 | 6440.6 | 6182.9 | 5929.0 |
| 12496.5 | 52.5° | 16506.5 | 19945.2 | 18410.7 | 11077.8 | 6672.0 | 6291.2 | 6000.0 | 5671.4 | 5189.8 | 5111.4 |
| 13627.8 | 55° | 18074.6 | 20953.3 | 18209.0 | 9334.1 | 5921.6 | 5802.1 | 5361.5 | 4965.8 | 4913.5 | 4846.3 |
| 15117.6 | 57.5° | 19948.9 | 22039.8 | 17798.3 | 7388.9 | 5152.4 | 5230.9 | 4801.5 | 4846.3 | 4752.9 | 4648.4 |
| 17032.9 | 60° | 21998.7 | 23163.6 | 17077.7 | 5615.4 | 4357.2 | 4517.7 | 4655.9 | 4652.1 | 4626.0 | 4540.1 |
| 19052.8 | 62.5° | 23843.1 | 23902.9 | 15659.0 | 4301.2 | 3659.0 | 3965.1 | 4342.2 | 4338.5 | 4316.1 | 4267.6 |
| 21162.4 | 65° | 24940.8 | 23790.9 | 13291.8 | 3386.4 | 3084.0 | 3509.6 | 3916.6 | 3946.5 | 3950.2 | 3946.5 |
| 22749.2 | 67.5° | 24746.7 | 22480.3 | 10043.5 | 2695.7 | 2609.8 | 3046.7 | 3494.7 | 3535.8 | 3565.6 | 3573.1 |
| 22950.8 | 70° | 22551.3 | 19601.7 | 6548.8 | 2150.6 | 2187.9 | 2639.7 | 3095.2 | 3136.3 | 3162.4 | 3192.3 |
| 19915.3 | 72.5° | 17578.1 | 14411.9 | 3748.6 | 1739.9 | 1818.3 | 2288.7 | 2699.4 | 2748.0 | 2762.9 | 2818.9 |
| 13859.3 | 75° | 10711.9 | 8475.4 | 2023.6 | 1370.3 | 1493.5 | 1956.4 | 2307.4 | 2363.4 | 2389.5 | 2456.7 |
| 6806.5 | 77.5° | 5092.7 | 3670.2 | 1153.7 | 1067.8 | 1202.2 | 1598.0 | 1949.0 | 2012.4 | 1941.5 | 1978.8 |
| 1878.0 | 80° | 1721.2 | 1362.8 | 728.1 | 813.9 | 918.5 | 1247.0 | 1560.7 | 1624.1 | 1474.8 | 1467.3 |
| 623.5 | 82.5° | 601.1 | 552.6 | 463.0 | 541.4 | 593.7 | 892.3 | 1179.8 | 1262.0 | 1097.7 | 1094.0 |
| 280.0 | 85° | 235.2 | 224.0 | 257.6 | 295.0 | 354.7 | 548.8 | 776.6 | 817.7 | 675.8 | 545.1 |
| 82.1 | 87.5° | 48.5 | 52.3 | 63.5 | 67.2 | 108.3 | 190.4 | 280.0 | 343.5 | 272.6 | 231.5 |
| 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> |
|-------------|
| 8049.8 |
| 8352.2 |
| 8792.8 |
| 9300.5 |
| 9879.3 |
| 10540.1 |
| 11354.0 |
| 12238.9 |
| 12720.6 |
| 12470.4 |
| 11798.4 |
| 11115.1 |
| 10517.7 |
| 9946.5 |
| 9330.4 |
| 8673.3 |
| 8090.8 |
| 7956.4 |
| 7598.0 |
| 6970.7 |
| 5962.6 |
| 5137.5 |
| 4857.5 |
| 4629.7 |
| 4510.3 |
| 4248.9 |
| 3946.5 |
| 3580.6 |
| 3207.2 |
| 2841.3 |
| 2464.2 |
| 1949.0 |
| 1452.4 |
| 1041.7 |
| 537.6 |
| 212.8 |
| 0.0 |

F REPORT)