

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: McGRAW-EDISON

Report Number: P943552

Luminaire Tested: **GALN-SB8A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943552
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: McGRAW-EDISON
Catalog Number: GALN-SB8A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32308 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

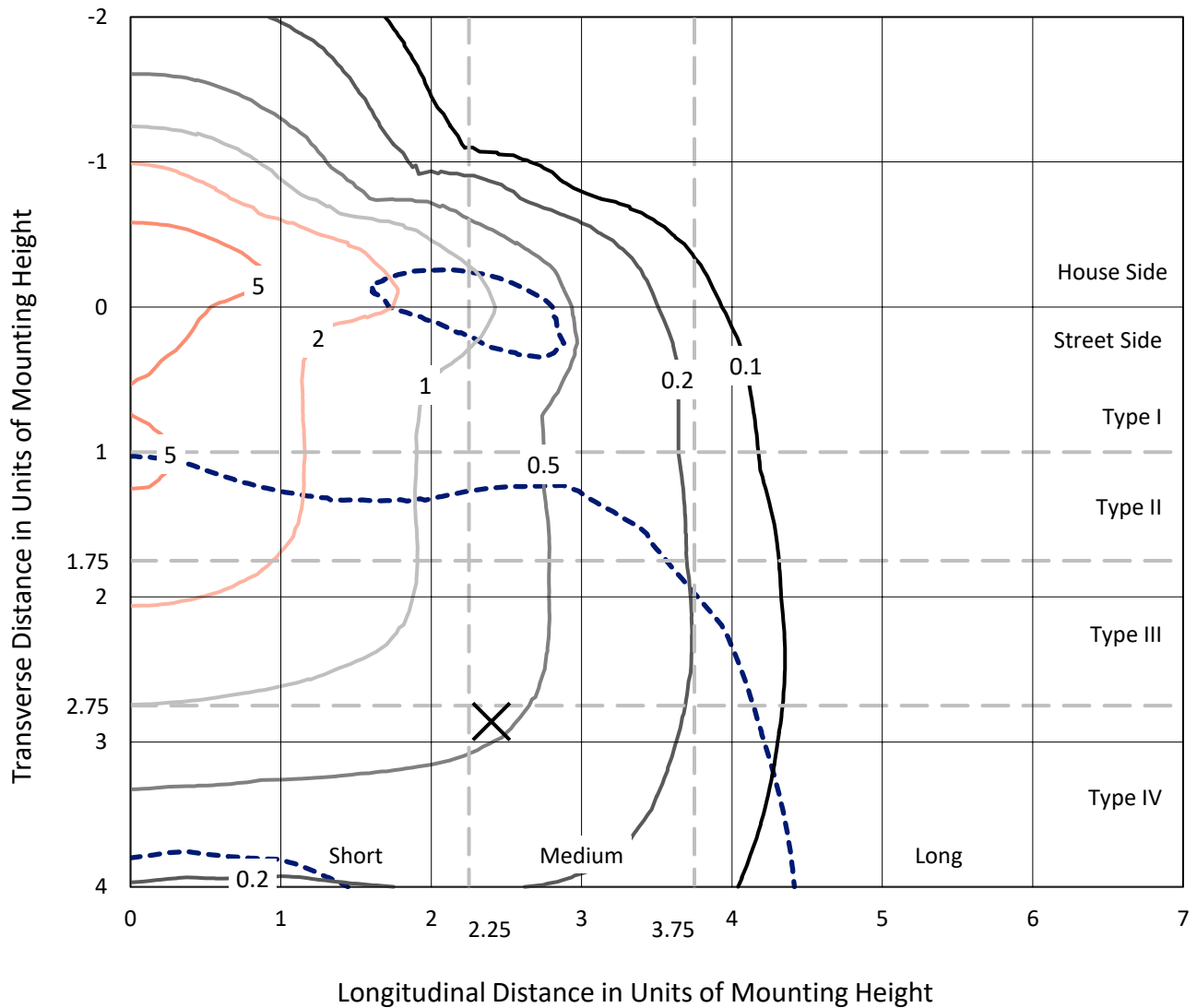
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943552
 CATALOG NUMBER: GALN-SB8A-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

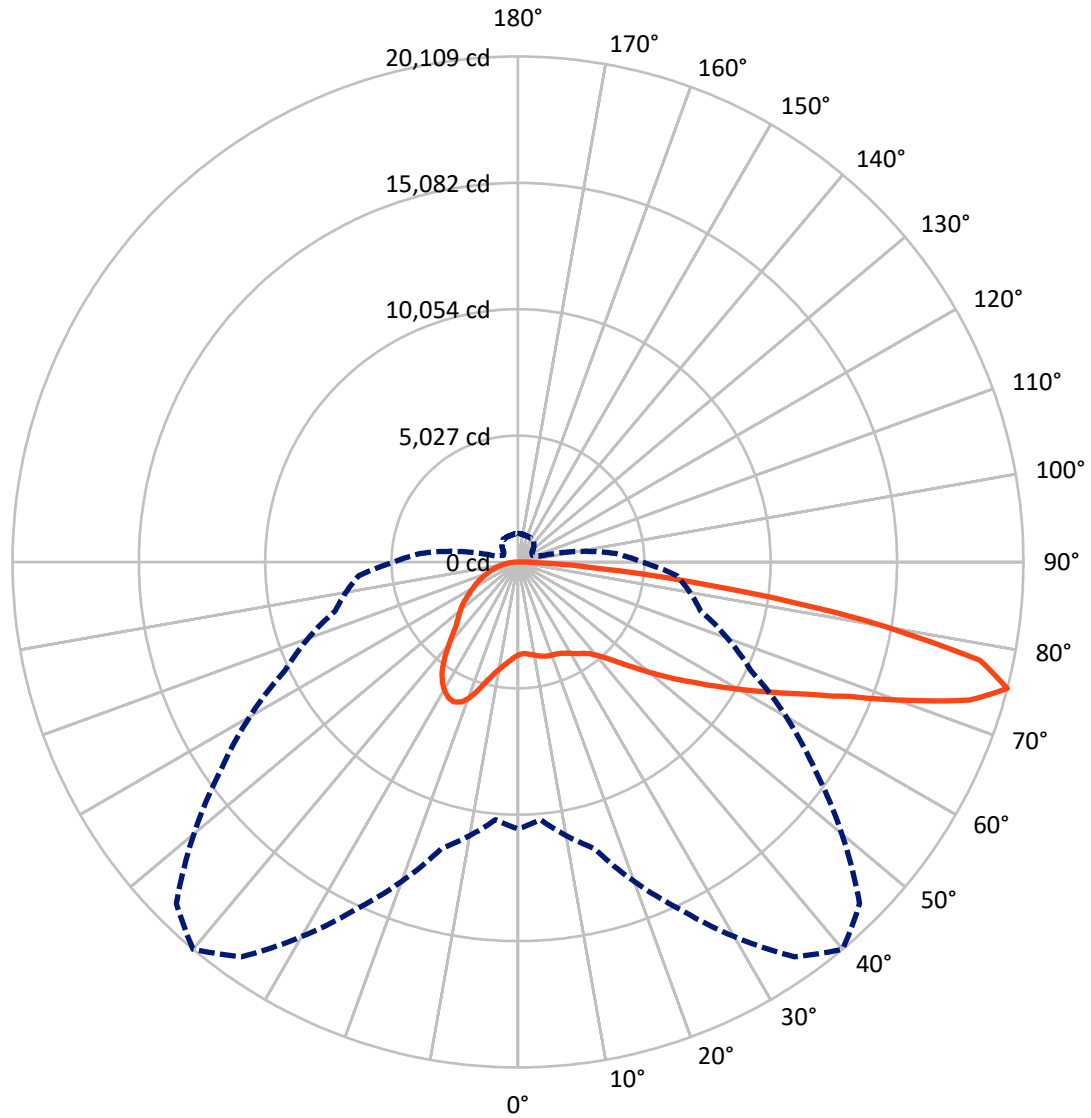
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P943552
CATALOG NUMBER: GALN-SB8A-830-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P943552

CATALOG NUMBER: GALN-SB8A-830-U-SL4

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10010.1 | 0.0 | 10010.1 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 22297.9 | 0.0 | 22297.9 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 32308.0 | 0.0 | 32308.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 368.8 | 1.1 |
| 10°-20° | 1238.2 | 3.8 |
| 20°-30° | 2260.8 | 7.0 |
| 30°-40° | 3206.4 | 9.9 |
| 40°-50° | 4329.6 | 13.4 |
| 50°-60° | 5824.5 | 18.0 |
| 60°-70° | 7392.6 | 22.9 |
| 70°-80° | 6709.2 | 20.8 |
| 80°-90° | 978.0 | 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° | 32308.0 | 100.0 |
| 0°-180° | 32308.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P943552

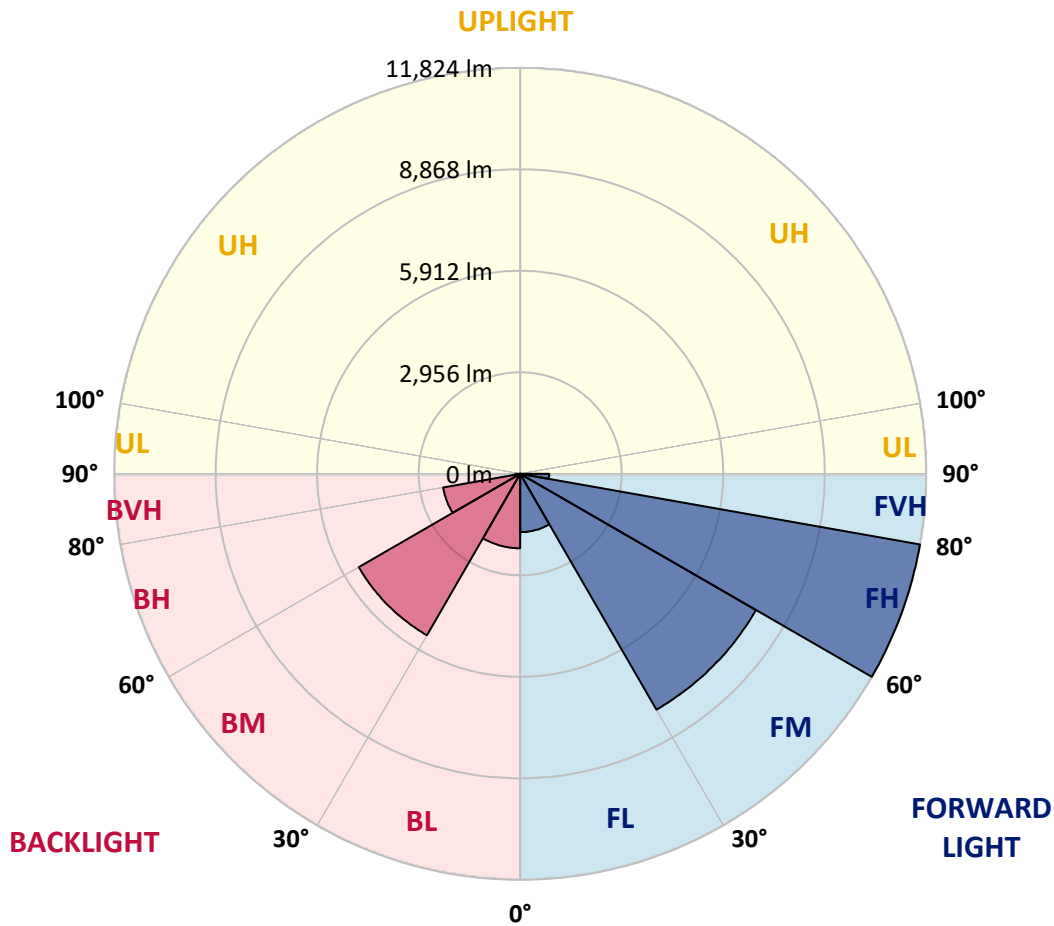
CATALOG NUMBER: GALN-SB8A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1699.4 | 5.3 | | | |
| FM (30°-60°) | 7930.9 | 24.5 | | | |
| FH (60°-80°) | 11824.2 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 843.3 | 2.6 | | | G5 |
| BL (0°-30°) | 2168.3 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5429.6 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2277.6 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 134.6 | 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: P943552

CATALOG NUMBER: GALN-SB8A-830-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 |
| 2.5° | 3637.9 | 3658.5 | 3653.3 | 3646.5 | 3646.5 | 3648.2 | 3646.5 | 3658.5 | 3670.5 | 3682.5 |
| 5° | 3675.6 | 3696.2 | 3685.9 | 3677.3 | 3670.5 | 3668.8 | 3663.6 | 3661.9 | 3668.8 | 3684.2 |
| 7.5° | 3749.3 | 3769.9 | 3754.4 | 3739.0 | 3725.3 | 3718.5 | 3711.6 | 3701.3 | 3696.2 | 3704.7 |
| 10° | 3831.5 | 3852.1 | 3833.3 | 3805.8 | 3783.6 | 3775.0 | 3768.1 | 3757.9 | 3751.0 | 3756.2 |
| 12.5° | 3913.8 | 3934.4 | 3908.7 | 3871.0 | 3841.8 | 3836.7 | 3828.1 | 3824.7 | 3823.0 | 3821.3 |
| 15° | 3990.9 | 4008.0 | 3975.5 | 3930.9 | 3900.1 | 3891.5 | 3883.0 | 3888.1 | 3896.7 | 3906.9 |
| 17.5° | 4050.9 | 4068.0 | 4020.0 | 3961.8 | 3932.6 | 3929.2 | 3924.1 | 3941.2 | 3965.2 | 3990.9 |
| 20° | 4105.7 | 4122.9 | 4061.2 | 3982.3 | 3948.1 | 3948.1 | 3949.8 | 3985.8 | 4020.0 | 4057.7 |
| 22.5° | 4182.8 | 4196.5 | 4121.1 | 4013.2 | 3963.5 | 3966.9 | 3980.6 | 4016.6 | 4059.5 | 4110.9 |
| 25° | 4297.6 | 4307.9 | 4215.4 | 4071.4 | 4014.9 | 4025.2 | 4037.2 | 4054.3 | 4095.4 | 4155.4 |
| 27.5° | 4482.7 | 4491.3 | 4369.6 | 4174.3 | 4088.6 | 4105.7 | 4122.9 | 4110.9 | 4129.7 | 4181.1 |
| 30° | 4743.2 | 4748.3 | 4594.1 | 4335.3 | 4213.7 | 4222.2 | 4225.7 | 4176.0 | 4140.0 | 4181.1 |
| 32.5° | 5051.6 | 5049.9 | 4866.5 | 4530.7 | 4355.9 | 4347.3 | 4318.2 | 4220.5 | 4136.6 | 4172.5 |
| 35° | 5529.7 | 5510.8 | 5274.4 | 4804.9 | 4517.0 | 4463.9 | 4395.3 | 4270.2 | 4153.7 | 4164.0 |
| 37.5° | 6321.4 | 6263.1 | 5935.8 | 5253.8 | 4756.9 | 4621.5 | 4520.4 | 4350.8 | 4191.4 | 4160.6 |
| 40° | 7214.1 | 7140.5 | 6780.6 | 5869.0 | 5116.7 | 4899.1 | 4736.3 | 4465.6 | 4253.1 | 4176.0 |
| 42.5° | 8273.1 | 8168.6 | 7781.3 | 6593.8 | 5572.5 | 5257.2 | 5012.2 | 4611.2 | 4343.9 | 4225.7 |
| 45° | 9573.7 | 9434.9 | 8886.6 | 7411.2 | 6146.6 | 5726.8 | 5399.5 | 4832.3 | 4482.7 | 4321.6 |
| 47.5° | 10888.0 | 10922.3 | 10142.6 | 8346.8 | 6835.4 | 6305.9 | 5884.4 | 5164.7 | 4684.9 | 4475.9 |
| 50° | 12284.6 | 12308.6 | 11391.8 | 9383.5 | 7616.8 | 6960.5 | 6429.3 | 5536.6 | 4965.9 | 4695.2 |
| 52.5° | 13374.4 | 13377.9 | 12526.2 | 10468.2 | 8430.8 | 7680.2 | 7017.1 | 5961.5 | 5291.5 | 4986.5 |
| 55° | 14056.4 | 14047.9 | 13321.3 | 11494.6 | 9366.4 | 8435.9 | 7668.2 | 6444.7 | 5689.1 | 5329.2 |
| 57.5° | 14551.7 | 14526.0 | 13869.7 | 12377.1 | 10363.7 | 9328.7 | 8405.1 | 6993.1 | 6158.6 | 5737.0 |
| 60° | 14740.2 | 14724.7 | 14241.5 | 13139.7 | 11412.4 | 10315.7 | 9255.0 | 7606.5 | 6691.5 | 6218.6 |
| 62.5° | 14812.1 | 14841.3 | 14606.5 | 13878.2 | 12534.8 | 11409.0 | 10188.9 | 8340.0 | 7291.3 | 6763.5 |
| 65° | 15065.7 | 15118.9 | 15070.9 | 14844.7 | 13802.8 | 12689.0 | 11427.8 | 9212.2 | 7945.8 | 7347.8 |
| 67.5° | 15567.8 | 15620.9 | 15641.5 | 16001.3 | 15351.9 | 14284.3 | 12973.5 | 10298.6 | 8711.8 | 7954.4 |
| 70° | 15555.8 | 15540.4 | 15903.7 | 16921.5 | 17291.7 | 16493.1 | 15057.2 | 11635.2 | 9625.1 | 8458.2 |
| 72.5° | 14159.3 | 14035.9 | 14894.4 | 16911.2 | 18905.8 | 18799.6 | 17601.8 | 13359.0 | 10413.4 | 8519.9 |
| 75° | 10622.4 | 10293.4 | 11809.9 | 15240.5 | 19174.9 | 20108.8 | 19219.4 | 14428.3 | 10226.6 | 7527.7 |
| 77.5° | 4542.7 | 4212.0 | 5999.2 | 11282.2 | 17161.4 | 18797.9 | 17735.5 | 12587.9 | 8163.5 | 4977.9 |
| 80° | 1189.2 | 1187.5 | 1813.0 | 5115.0 | 11671.1 | 13881.7 | 12178.4 | 8129.2 | 4664.3 | 1778.7 |
| 82.5° | 491.8 | 479.8 | 666.6 | 1989.5 | 5702.8 | 7789.9 | 6357.4 | 3625.9 | 1684.4 | 481.5 |
| 85° | 183.4 | 181.6 | 323.9 | 687.1 | 2011.7 | 3212.9 | 2325.3 | 927.0 | 419.8 | 234.8 |
| 87.5° | 51.4 | 49.7 | 70.3 | 238.2 | 490.1 | 743.7 | 397.5 | 152.5 | 118.2 | 92.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P943552
 CATALOG NUMBER: GALN-SB8A-830-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3694.5 | 0° | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 | 3694.5 |
| 3701.3 | 2.5° | 3706.5 | 3715.0 | 3730.4 | 3742.4 | 3757.9 | 3775.0 | 3799.0 | 3814.4 | 3829.8 | 3840.1 |
| 3709.9 | 5° | 3721.9 | 3740.7 | 3780.1 | 3819.6 | 3865.8 | 3908.7 | 3958.4 | 3994.3 | 4023.5 | 4032.0 |
| 3740.7 | 7.5° | 3756.2 | 3787.0 | 3853.8 | 3920.7 | 3994.3 | 4064.6 | 4136.6 | 4198.3 | 4247.9 | 4266.8 |
| 3795.6 | 10° | 3816.1 | 3857.3 | 3951.5 | 4045.7 | 4143.4 | 4251.4 | 4343.9 | 4433.0 | 4503.3 | 4532.4 |
| 3860.7 | 12.5° | 3891.5 | 3942.9 | 4066.3 | 4196.5 | 4331.9 | 4481.0 | 4600.9 | 4710.6 | 4798.0 | 4837.4 |
| 3951.5 | 15° | 3989.2 | 4056.0 | 4213.7 | 4388.5 | 4587.2 | 4794.6 | 4947.1 | 5068.7 | 5166.4 | 5214.4 |
| 4045.7 | 17.5° | 4095.4 | 4184.5 | 4383.3 | 4647.2 | 4931.7 | 5204.1 | 5382.3 | 5471.4 | 5572.5 | 5618.8 |
| 4133.1 | 20° | 4198.3 | 4307.9 | 4592.4 | 4976.2 | 5354.9 | 5644.5 | 5788.4 | 5812.4 | 5819.3 | 5824.4 |
| 4215.4 | 22.5° | 4304.5 | 4451.9 | 4854.6 | 5390.9 | 5797.0 | 5997.5 | 6018.1 | 5915.3 | 5771.3 | 5704.5 |
| 4295.9 | 25° | 4421.0 | 4616.4 | 5197.3 | 5848.4 | 6177.4 | 6201.4 | 6043.8 | 5793.6 | 5521.1 | 5396.0 |
| 4361.0 | 27.5° | 4534.1 | 4806.6 | 5608.5 | 6285.4 | 6451.6 | 6240.8 | 5901.5 | 5546.8 | 5217.8 | 5085.9 |
| 4407.3 | 30° | 4647.2 | 5024.2 | 6062.6 | 6667.5 | 6576.7 | 6143.2 | 5677.1 | 5281.2 | 4950.5 | 4811.7 |
| 4448.4 | 32.5° | 4762.0 | 5277.8 | 6585.3 | 6943.4 | 6554.4 | 5935.8 | 5397.8 | 4983.1 | 4691.8 | 4546.1 |
| 4484.4 | 35° | 4892.3 | 5589.7 | 7080.5 | 7094.2 | 6405.3 | 5630.8 | 5029.3 | 4626.6 | 4373.0 | 4256.5 |
| 4527.3 | 37.5° | 5061.9 | 5985.5 | 7517.4 | 7131.9 | 6144.9 | 5183.6 | 4571.8 | 4205.1 | 3996.1 | 3942.9 |
| 4590.7 | 40° | 5272.7 | 6461.9 | 7851.6 | 7071.9 | 5759.3 | 4640.4 | 4071.4 | 3778.4 | 3660.2 | 3672.2 |
| 4676.3 | 42.5° | 5546.8 | 6994.8 | 8086.3 | 6917.7 | 5223.0 | 4080.0 | 3632.8 | 3502.5 | 3559.1 | 3607.1 |
| 4804.9 | 45° | 5903.3 | 7548.3 | 8232.0 | 6655.5 | 4616.4 | 3605.4 | 3374.0 | 3404.9 | 3447.7 | 3452.8 |
| 5012.2 | 47.5° | 6359.1 | 8108.6 | 8328.0 | 6259.7 | 3997.8 | 3271.2 | 3209.5 | 3216.4 | 3207.8 | 3171.8 |
| 5322.4 | 50° | 6928.0 | 8653.5 | 8413.6 | 5735.3 | 3471.7 | 3062.2 | 2979.9 | 2955.9 | 2837.7 | 2721.2 |
| 5735.3 | 52.5° | 7575.7 | 9153.9 | 8449.6 | 5084.2 | 3062.2 | 2887.4 | 2753.7 | 2602.9 | 2381.9 | 2345.9 |
| 6254.5 | 55° | 8295.4 | 9616.6 | 8357.1 | 4283.9 | 2717.7 | 2662.9 | 2460.7 | 2279.1 | 2255.1 | 2224.2 |
| 6938.3 | 57.5° | 9155.6 | 10115.2 | 8168.6 | 3391.2 | 2364.7 | 2400.7 | 2203.7 | 2224.2 | 2181.4 | 2133.4 |
| 7817.3 | 60° | 10096.4 | 10631.0 | 7837.9 | 2577.2 | 1999.7 | 2073.4 | 2136.8 | 2135.1 | 2123.1 | 2083.7 |
| 8744.4 | 62.5° | 10942.9 | 10970.3 | 7186.7 | 1974.0 | 1679.3 | 1819.8 | 1992.9 | 1991.2 | 1980.9 | 1958.6 |
| 9712.5 | 65° | 11446.7 | 10918.9 | 6100.3 | 1554.2 | 1415.4 | 1610.8 | 1797.5 | 1811.2 | 1813.0 | 1811.2 |
| 10440.8 | 67.5° | 11357.6 | 10317.4 | 4609.5 | 1237.2 | 1197.8 | 1398.3 | 1603.9 | 1622.8 | 1636.5 | 1639.9 |
| 10533.3 | 70° | 10350.0 | 8996.3 | 3005.6 | 987.0 | 1004.2 | 1211.5 | 1420.6 | 1439.4 | 1451.4 | 1465.1 |
| 9140.2 | 72.5° | 8067.5 | 6614.4 | 1720.4 | 798.5 | 834.5 | 1050.4 | 1238.9 | 1261.2 | 1268.0 | 1293.7 |
| 6360.8 | 75° | 4916.2 | 3889.8 | 928.8 | 628.9 | 685.4 | 897.9 | 1059.0 | 1084.7 | 1096.7 | 1127.5 |
| 3123.8 | 77.5° | 2337.3 | 1684.4 | 529.5 | 490.1 | 551.8 | 733.4 | 894.5 | 923.6 | 891.1 | 908.2 |
| 861.9 | 80° | 790.0 | 625.5 | 334.1 | 373.6 | 421.5 | 572.3 | 716.3 | 745.4 | 676.9 | 673.4 |
| 286.2 | 82.5° | 275.9 | 253.6 | 212.5 | 248.5 | 272.5 | 409.5 | 541.5 | 579.2 | 503.8 | 502.1 |
| 128.5 | 85° | 108.0 | 102.8 | 118.2 | 135.4 | 162.8 | 251.9 | 356.4 | 375.3 | 310.2 | 250.2 |
| 37.7 | 87.5° | 22.3 | 24.0 | 29.1 | 30.8 | 49.7 | 87.4 | 128.5 | 157.6 | 125.1 | 106.2 |
| 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> |
|---------------|
| 3694.5 |
| 3833.3 |
| 4035.5 |
| 4268.5 |
| 4534.1 |
| 4837.4 |
| 5211.0 |
| 5617.1 |
| 5838.1 |
| 5723.3 |
| 5414.9 |
| 5101.3 |
| 4827.1 |
| 4565.0 |
| 4282.2 |
| 3980.6 |
| 3713.3 |
| 3651.6 |
| 3487.1 |
| 3199.2 |
| 2736.6 |
| 2357.9 |
| 2229.4 |
| 2124.8 |
| 2070.0 |
| 1950.0 |
| 1811.2 |
| 1643.3 |
| 1472.0 |
| 1304.0 |
| <i>1131.0</i> |
| 894.5 |
| 666.6 |
| 478.1 |
| 246.8 |
| 97.7 |
| 0.0 |

F REPORT)