

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: P848961

Luminaire Tested: **GLAN-SB5D-740-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB5D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55009 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

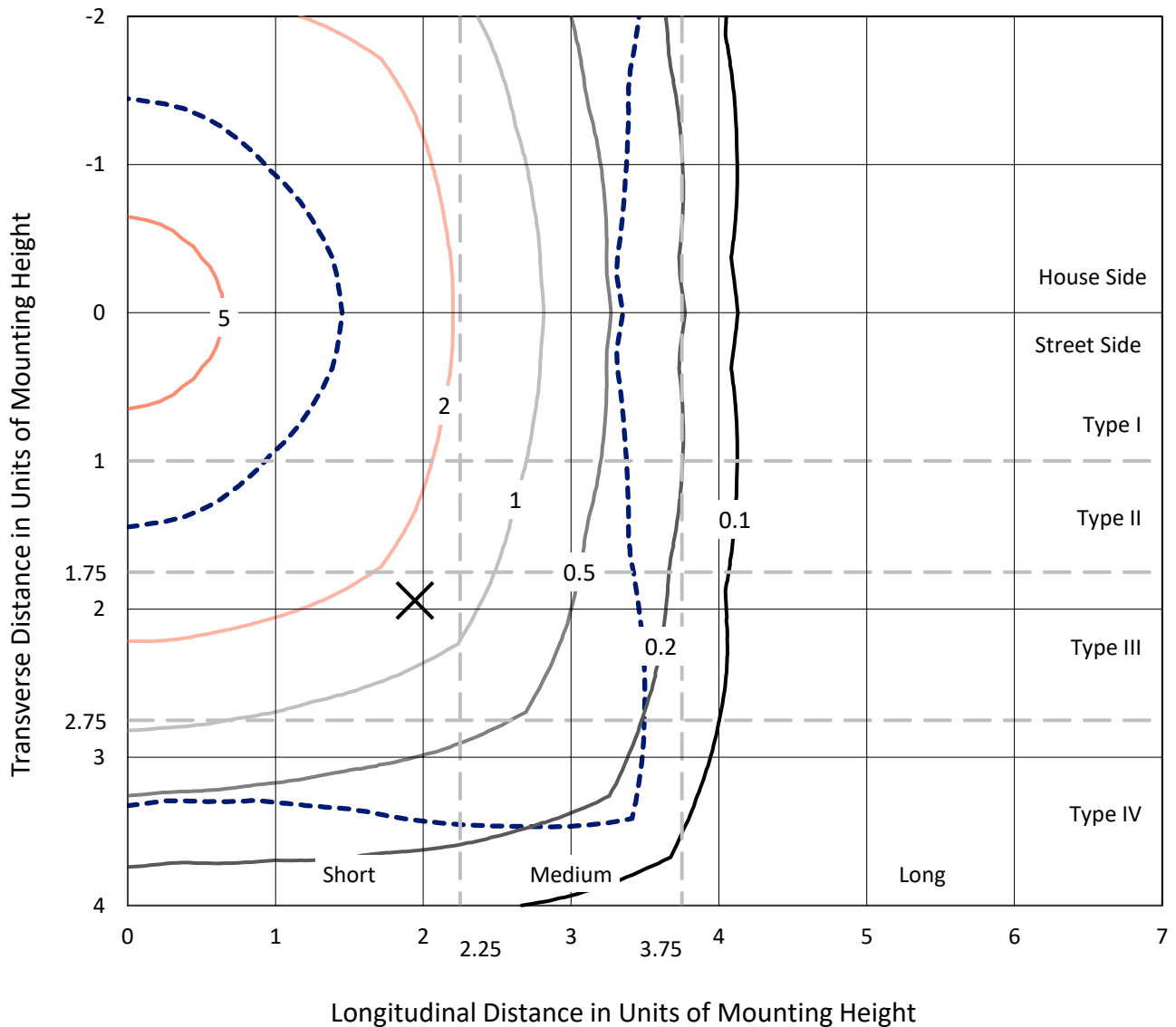
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P848961
 CATALOG NUMBER: GLAN-SB5D-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

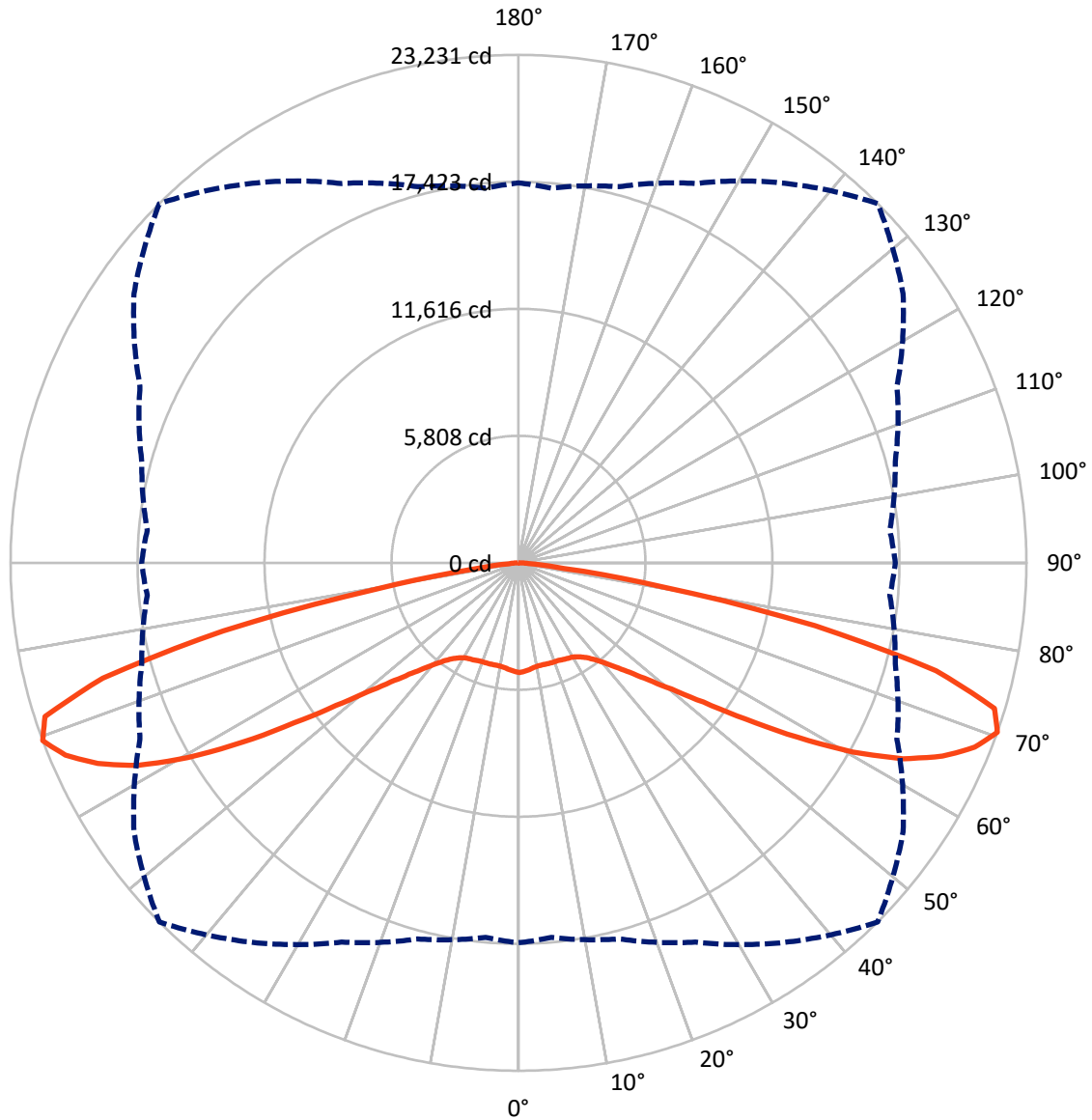
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

REPORT NUMBER: P848961
CATALOG NUMBER: GLAN-SB5D-740-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P848961
 CATALOG NUMBER: GLAN-SB5D-740-U-5WQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27504.5 | 0.0 | 27504.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27504.5 | 0.0 | 27504.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 55009.0 | 0.0 | 55009.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 466.8 | 0.8 |
| 10°-20° | 1370.6 | 2.5 |
| 20°-30° | 2280.9 | 4.1 |
| 30°-40° | 3449.4 | 6.3 |
| 40°-50° | 5732.0 | 10.4 |
| 50°-60° | 10816.1 | 19.7 |
| 60°-70° | 18263.5 | 33.2 |
| 70°-80° | 12001.0 | 21.8 |
| 80°-90° | 628.7 | 1.1 |
| 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° | 55009.0 | 100.0 |
| 0°-180° | 55009.0 | 100.0 |

Coefficient of Utilization

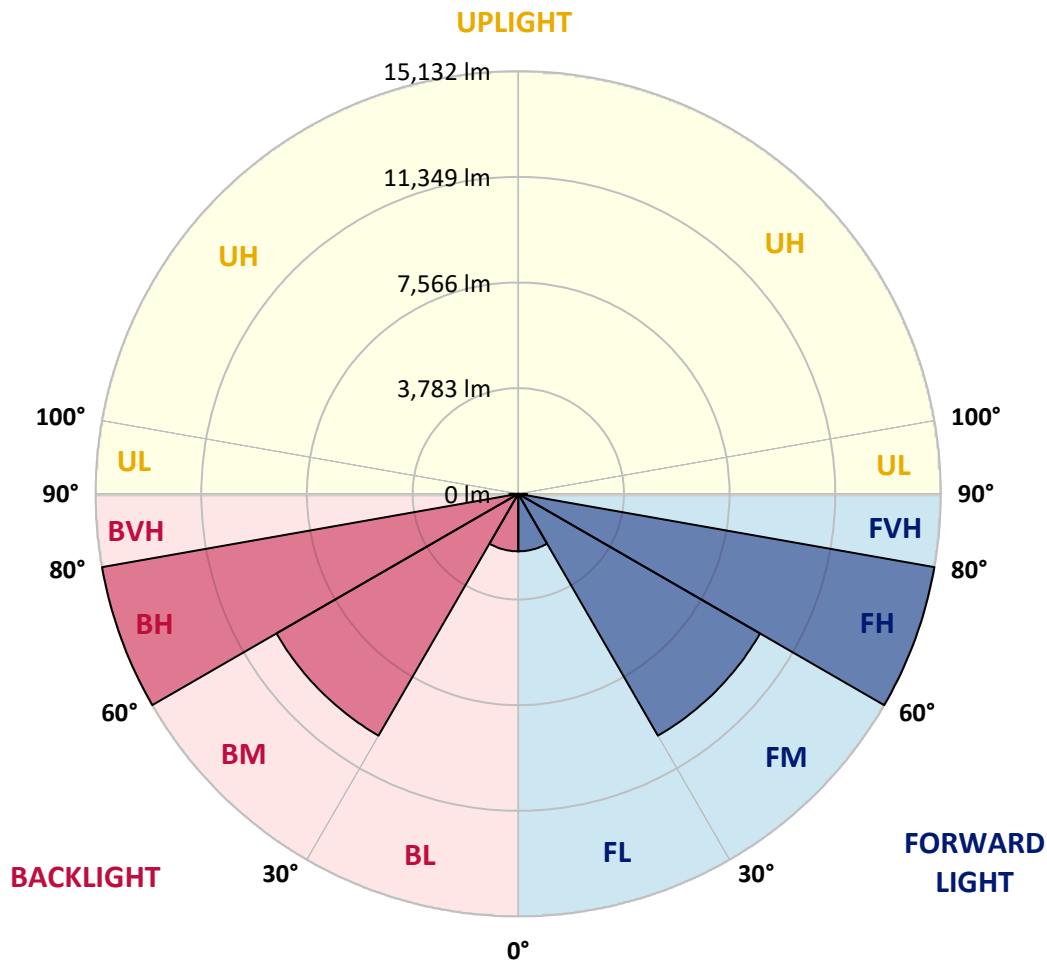


REPORT NUMBER: P848961
 CATALOG NUMBER: GLAN-SB5D-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2059.1 | 3.7 | | | |
| FM (30°-60°) | 9998.8 | 18.2 | | | |
| FH (60°-80°) | 15132.2 | 27.5 | | | G5 |
| FVH (80°-90°) | 314.4 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2059.1 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 9998.8 | 18.2 | B5 | | |
| BH (60°-80°) | 15132.2 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 314.4 | 0.6 | | | 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 V Short



REPORT NUMBER: P848961
 CATALOG NUMBER: GLAN-SB5D-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5017.9 | 5017.9 | 5017.9 | 5017.9 | 5017.9 | 5017.9 | 5017.9 | 5017.9 | 5017.9 | 5017.9 |
| 2.5° | 4986.5 | 5000.8 | 4995.1 | 4983.6 | 4983.6 | 4975.0 | 4983.6 | 4989.3 | 4997.9 | 5003.6 |
| 5° | 4920.7 | 4932.2 | 4929.3 | 4920.7 | 4923.6 | 4915.0 | 4920.7 | 4929.3 | 4935.0 | 4937.9 |
| 7.5° | 4863.5 | 4875.0 | 4869.2 | 4855.0 | 4855.0 | 4846.4 | 4849.2 | 4857.8 | 4866.4 | 4869.2 |
| 10° | 4849.2 | 4860.7 | 4843.5 | 4820.6 | 4812.1 | 4800.6 | 4803.5 | 4812.1 | 4829.2 | 4837.8 |
| 12.5° | 4855.0 | 4863.5 | 4846.4 | 4812.1 | 4803.5 | 4792.1 | 4792.1 | 4800.6 | 4823.5 | 4834.9 |
| 15° | 4872.1 | 4880.7 | 4855.0 | 4817.8 | 4809.2 | 4800.6 | 4797.8 | 4809.2 | 4834.9 | 4855.0 |
| 17.5° | 4903.6 | 4912.1 | 4872.1 | 4820.6 | 4809.2 | 4812.1 | 4809.2 | 4817.8 | 4857.8 | 4895.0 |
| 20° | 4932.2 | 4937.9 | 4883.5 | 4820.6 | 4809.2 | 4812.1 | 4809.2 | 4826.4 | 4877.8 | 4929.3 |
| 22.5° | 4940.7 | 4946.4 | 4895.0 | 4840.7 | 4832.1 | 4834.9 | 4832.1 | 4849.2 | 4897.8 | 4949.3 |
| 25° | 4943.6 | 4952.2 | 4912.1 | 4869.2 | 4883.5 | 4889.3 | 4883.5 | 4886.4 | 4923.6 | 4969.3 |
| 27.5° | 4986.5 | 4997.9 | 4960.7 | 4923.6 | 4932.2 | 4929.3 | 4937.9 | 4946.4 | 4975.0 | 5020.8 |
| 30° | 5075.1 | 5083.7 | 5052.2 | 5015.1 | 5009.4 | 4989.3 | 5015.1 | 5043.7 | 5075.1 | 5115.1 |
| 32.5° | 5220.9 | 5238.1 | 5198.1 | 5158.0 | 5132.3 | 5120.9 | 5140.9 | 5189.5 | 5232.4 | 5275.3 |
| 35° | 5464.0 | 5475.4 | 5438.2 | 5363.9 | 5318.1 | 5318.1 | 5335.3 | 5398.2 | 5466.8 | 5521.2 |
| 37.5° | 5807.1 | 5821.4 | 5755.6 | 5667.0 | 5598.3 | 5598.3 | 5621.2 | 5687.0 | 5789.9 | 5867.1 |
| 40° | 6224.5 | 6244.5 | 6161.6 | 6070.1 | 6004.4 | 5992.9 | 6021.5 | 6095.9 | 6193.1 | 6290.3 |
| 42.5° | 6727.7 | 6750.6 | 6642.0 | 6561.9 | 6510.4 | 6510.4 | 6524.7 | 6593.4 | 6682.0 | 6802.1 |
| 45° | 7371.1 | 7411.1 | 7262.4 | 7182.4 | 7133.7 | 7145.2 | 7153.8 | 7213.8 | 7293.9 | 7431.1 |
| 47.5° | 8137.3 | 8177.4 | 8020.1 | 7937.2 | 7928.6 | 7982.9 | 7948.6 | 7991.5 | 8034.4 | 8191.7 |
| 50° | 9006.5 | 9075.2 | 8966.5 | 8960.8 | 8977.9 | 9078.0 | 8998.0 | 9020.8 | 8972.2 | 9072.3 |
| 52.5° | 10070.2 | 10170.2 | 10150.2 | 10184.5 | 10376.1 | 10582.0 | 10399.0 | 10318.9 | 10135.9 | 10167.4 |
| 55° | 11359.7 | 11511.2 | 11539.8 | 11745.7 | 12180.3 | 12600.6 | 12211.7 | 11888.6 | 11499.8 | 11428.3 |
| 57.5° | 12826.5 | 12946.5 | 13083.8 | 13504.1 | 14316.1 | 15062.4 | 14316.1 | 13601.3 | 12989.4 | 12843.6 |
| 60° | 14404.7 | 14553.4 | 14684.9 | 15305.4 | 16512.0 | 17561.3 | 16489.1 | 15354.0 | 14544.8 | 14347.6 |
| 62.5° | 16100.3 | 16291.8 | 16383.3 | 17072.4 | 18479.1 | 19731.5 | 18499.1 | 17123.9 | 16226.1 | 16014.5 |
| 65° | 17727.2 | 17884.4 | 17987.3 | 18722.2 | 20066.0 | 21321.2 | 20157.5 | 18802.2 | 17878.7 | 17601.3 |
| 67.5° | 18484.8 | 18570.6 | 18822.2 | 19654.3 | 21072.4 | 22504.9 | 21312.6 | 19742.9 | 18710.7 | 18224.7 |
| 70° | 17375.5 | 17201.1 | 17807.2 | 19139.6 | 21192.5 | 23231.1 | 21467.0 | 19099.6 | 17835.8 | 17046.7 |
| 72.5° | 13426.9 | 13126.7 | 14178.9 | 16457.7 | 19820.1 | 22768.0 | 19957.3 | 16586.3 | 14833.6 | 13232.5 |
| 75° | 7305.3 | 6965.1 | 8417.5 | 11299.6 | 15805.8 | 19734.3 | 16168.9 | 11622.7 | 9372.5 | 7251.0 |
| 77.5° | 2061.5 | 1932.8 | 3105.1 | 5466.8 | 9506.9 | 13855.8 | 9872.9 | 5586.9 | 3682.7 | 2184.4 |
| 80° | 631.9 | 611.9 | 829.2 | 1646.9 | 4037.2 | 6636.2 | 3880.0 | 1666.9 | 1055.1 | 666.2 |
| 82.5° | 374.6 | 343.1 | 411.7 | 600.4 | 1029.3 | 2084.4 | 1000.7 | 626.2 | 503.2 | 337.4 |
| 85° | 214.4 | 200.1 | 243.0 | 291.6 | 346.0 | 443.2 | 288.8 | 297.4 | 268.8 | 180.1 |
| 87.5° | 88.6 | 80.1 | 94.4 | 91.5 | 80.1 | 102.9 | 77.2 | 91.5 | 108.7 | 71.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 5017.9 |
| 5000.8 |
| 4937.9 |
| 4869.2 |
| 4837.8 |
| 4837.8 |
| 4857.8 |
| 4895.0 |
| 4932.2 |
| 4949.3 |
| 4966.5 |
| 5009.4 |
| 5106.6 |
| 5258.1 |
| 5501.1 |
| 5838.5 |
| 6258.8 |
| 6793.5 |
| 7425.4 |
| 8145.9 |
| 9012.3 |
| 10061.6 |
| 11316.8 |
| 12740.7 |
| 14176.0 |
| 15842.9 |
| 17464.1 |
| 18230.4 |
| 17235.4 |
| 13629.9 |
| 7722.7 |
| 2427.5 |
| 703.4 |
| 366.0 |
| 188.7 |
| 65.8 |
| 0.0 |

OF REPORT)