

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: P850981

Luminaire Tested: **GLAN-SB8D-730-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850981
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-SB8D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80400 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

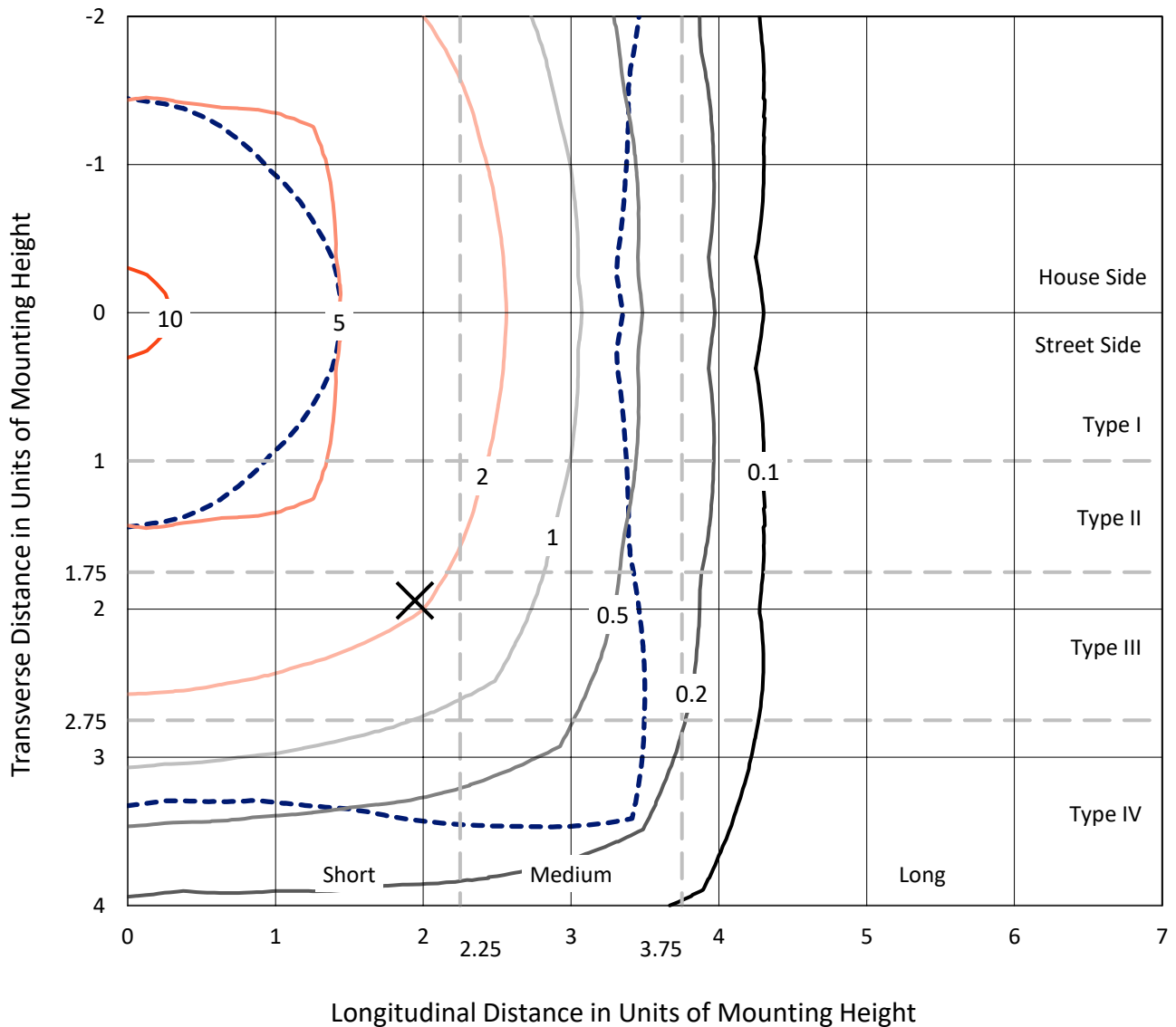
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

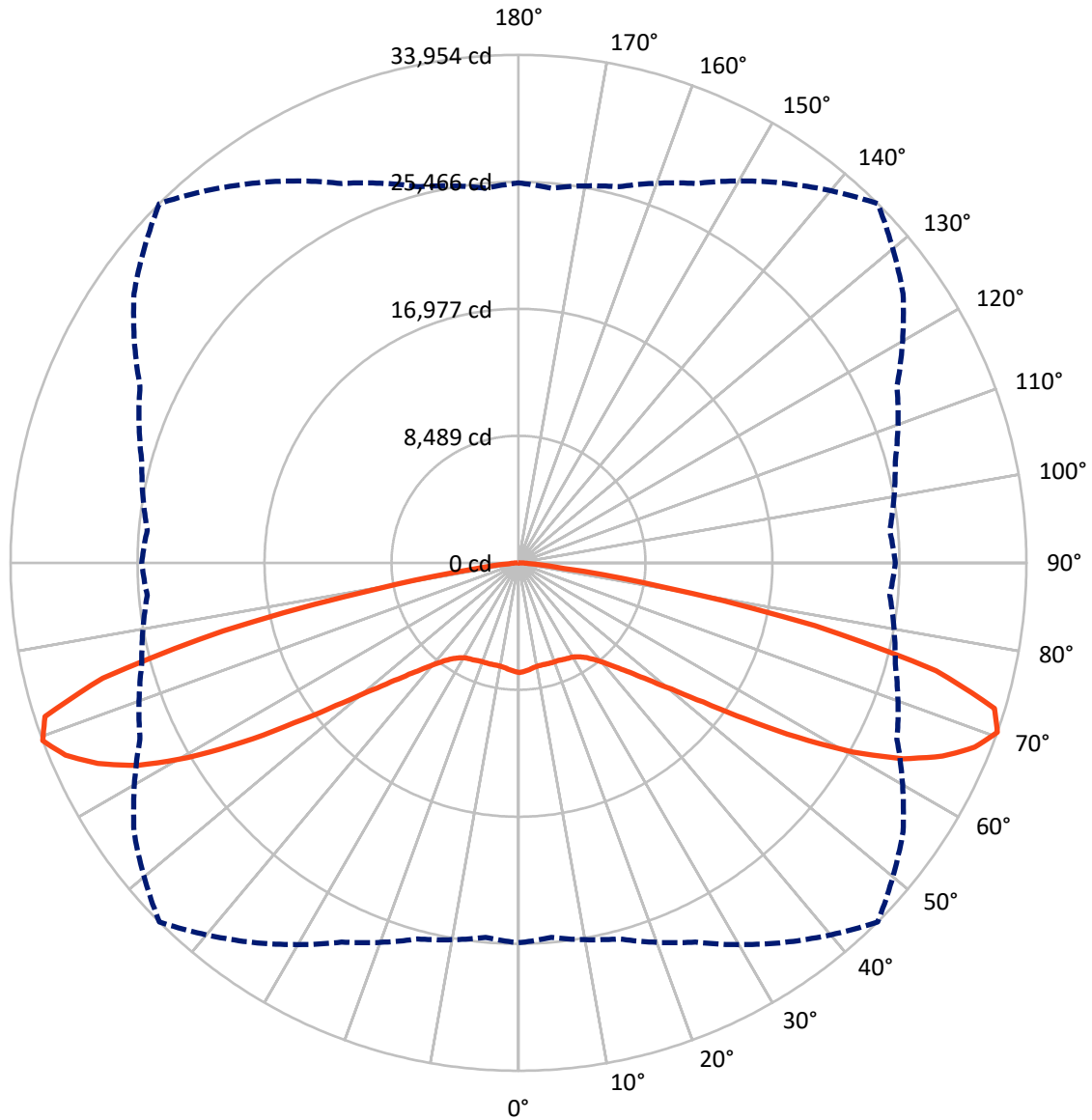
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 40200.0 | 0.0 | 40200.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 40200.0 | 0.0 | 40200.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 80400.0 | 0.0 | 80400.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 682.2 | 0.8 |
| 10°-20° | 2003.2 | 2.5 |
| 20°-30° | 3333.7 | 4.1 |
| 30°-40° | 5041.5 | 6.3 |
| 40°-50° | 8377.8 | 10.4 |
| 50°-60° | 15808.6 | 19.7 |
| 60°-70° | 26693.5 | 33.2 |
| 70°-80° | 17540.4 | 21.8 |
| 80°-90° | 918.9 | 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° | 80400.0 | 100.0 |
| 0°-180° | 80400.0 | 100.0 |

Coefficient of Utilization



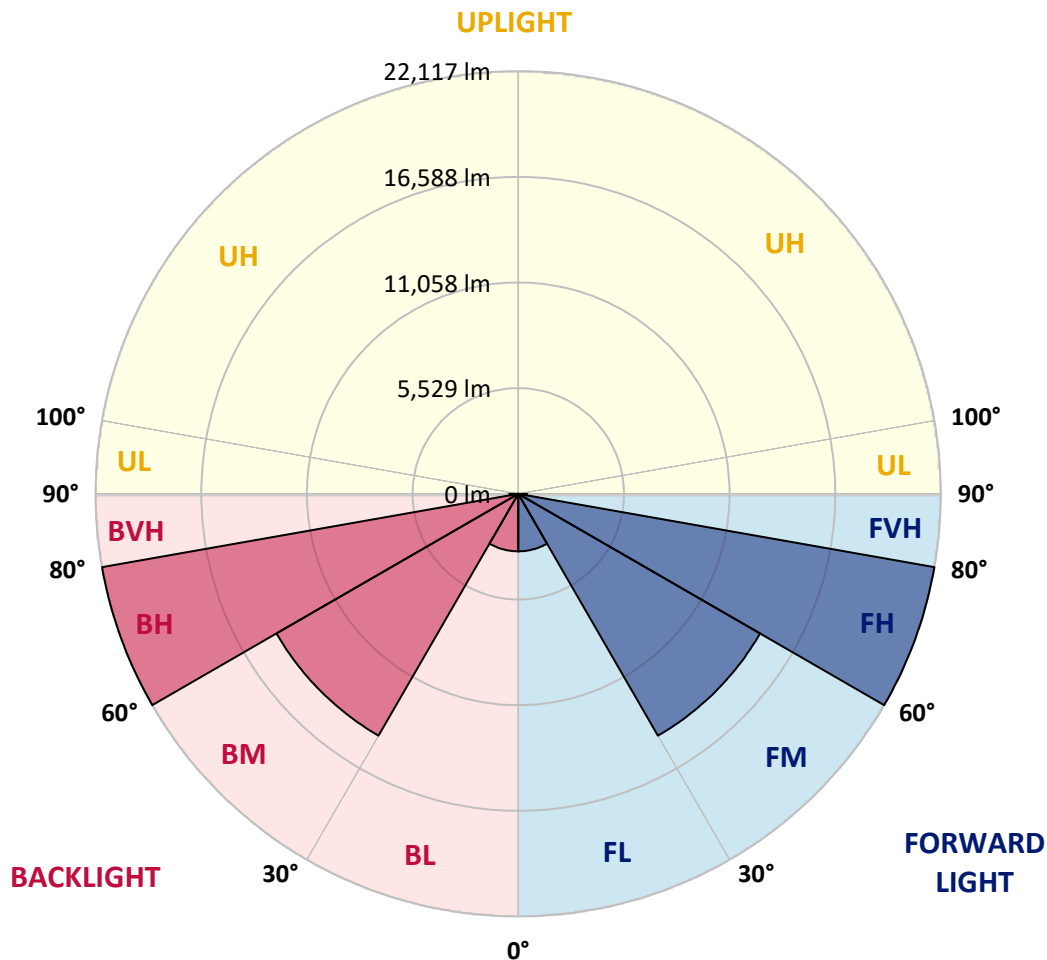
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3009.6 | 3.7 | | | |
| FM (30°-60°) | 14614.0 | 18.2 | | | |
| FH (60°-80°) | 22117.0 | 27.5 | | | G5 |
| FVH (80°-90°) | 459.5 | 0.6 | | | G3/500 |
| BL (0°-30°) | 3009.6 | 3.7 | B4/5000 | | |
| BM (30°-60°) | 14614.0 | 18.2 | B5 | | |
| BH (60°-80°) | 22117.0 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 459.5 | 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7334.1 | 7334.1 | 7334.1 | 7334.1 | 7334.1 | 7334.1 | 7334.1 | 7334.1 | 7334.1 | 7334.1 |
| 2.5° | 7288.1 | 7309.0 | 7300.7 | 7284.0 | 7284.0 | 7271.4 | 7284.0 | 7292.3 | 7304.8 | 7313.2 |
| 5° | 7192.0 | 7208.7 | 7204.6 | 7192.0 | 7196.2 | 7183.7 | 7192.0 | 7204.6 | 7212.9 | 7217.1 |
| 7.5° | 7108.4 | 7125.2 | 7116.8 | 7095.9 | 7095.9 | 7083.4 | 7087.5 | 7100.1 | 7112.6 | 7116.8 |
| 10° | 7087.5 | 7104.3 | 7079.2 | 7045.7 | 7033.2 | 7016.5 | 7020.7 | 7033.2 | 7058.3 | 7070.8 |
| 12.5° | 7095.9 | 7108.4 | 7083.4 | 7033.2 | 7020.7 | 7004.0 | 7004.0 | 7016.5 | 7049.9 | 7066.6 |
| 15° | 7121.0 | 7133.5 | 7095.9 | 7041.6 | 7029.0 | 7016.5 | 7012.3 | 7029.0 | 7066.6 | 7095.9 |
| 17.5° | 7166.9 | 7179.5 | 7121.0 | 7045.7 | 7029.0 | 7033.2 | 7029.0 | 7041.6 | 7100.1 | 7154.4 |
| 20° | 7208.7 | 7217.1 | 7137.7 | 7045.7 | 7029.0 | 7033.2 | 7029.0 | 7054.1 | 7129.3 | 7204.6 |
| 22.5° | 7221.3 | 7229.6 | 7154.4 | 7075.0 | 7062.5 | 7066.6 | 7062.5 | 7087.5 | 7158.6 | 7233.8 |
| 25° | 7225.4 | 7238.0 | 7179.5 | 7116.8 | 7137.7 | 7146.0 | 7137.7 | 7141.9 | 7196.2 | 7263.1 |
| 27.5° | 7288.1 | 7304.8 | 7250.5 | 7196.2 | 7208.7 | 7204.6 | 7217.1 | 7229.6 | 7271.4 | 7338.3 |
| 30° | 7417.7 | 7430.2 | 7384.2 | 7329.9 | 7321.6 | 7292.3 | 7329.9 | 7371.7 | 7417.7 | 7476.2 |
| 32.5° | 7630.8 | 7655.9 | 7597.4 | 7538.9 | 7501.3 | 7484.5 | 7513.8 | 7584.8 | 7647.5 | 7710.2 |
| 35° | 7986.0 | 8002.7 | 7948.4 | 7839.8 | 7772.9 | 7772.9 | 7798.0 | 7889.9 | 7990.2 | 8069.6 |
| 37.5° | 8487.5 | 8508.4 | 8412.3 | 8282.7 | 8182.4 | 8182.4 | 8215.9 | 8312.0 | 8462.4 | 8575.3 |
| 40° | 9097.6 | 9126.9 | 9005.7 | 8872.0 | 8775.8 | 8759.1 | 8800.9 | 8909.6 | 9051.7 | 9193.7 |
| 42.5° | 9833.1 | 9866.6 | 9707.8 | 9590.7 | 9515.5 | 9515.5 | 9536.4 | 9636.7 | 9766.3 | 9941.8 |
| 45° | 10773.4 | 10831.9 | 10614.6 | 10497.6 | 10426.5 | 10443.3 | 10455.8 | 10543.6 | 10660.6 | 10861.2 |
| 47.5° | 11893.4 | 11951.9 | 11722.0 | 11600.8 | 11588.3 | 11667.7 | 11617.5 | 11680.2 | 11742.9 | 11972.8 |
| 50° | 13163.8 | 13264.1 | 13105.3 | 13096.9 | 13122.0 | 13268.2 | 13151.2 | 13184.7 | 13113.6 | 13259.9 |
| 52.5° | 14718.3 | 14864.6 | 14835.4 | 14885.5 | 15165.5 | 15466.4 | 15198.9 | 15081.9 | 14814.5 | 14860.4 |
| 55° | 16603.1 | 16824.5 | 16866.3 | 17167.2 | 17802.4 | 18416.7 | 17848.4 | 17376.2 | 16807.8 | 16703.4 |
| 57.5° | 18746.9 | 18922.4 | 19123.0 | 19737.3 | 20924.1 | 22014.8 | 20924.1 | 19879.4 | 18985.1 | 18771.9 |
| 60° | 21053.7 | 21271.0 | 21463.2 | 22370.0 | 24133.6 | 25667.3 | 24100.1 | 22441.1 | 21258.4 | 20970.1 |
| 62.5° | 23531.8 | 23811.8 | 23945.5 | 24952.7 | 27008.7 | 28839.1 | 27038.0 | 25027.9 | 23715.7 | 23406.4 |
| 65° | 25909.6 | 26139.5 | 26289.9 | 27363.9 | 29328.0 | 31162.6 | 29461.8 | 27480.9 | 26131.1 | 25725.8 |
| 67.5° | 27017.1 | 27142.4 | 27510.2 | 28726.3 | 30799.0 | 32892.7 | 31150.1 | 28855.8 | 27347.2 | 26636.8 |
| 70° | 25395.6 | 25140.7 | 26026.6 | 27974.0 | 30974.6 | 33954.2 | 31375.7 | 27915.5 | 26068.4 | 24915.0 |
| 72.5° | 19624.5 | 19185.7 | 20723.5 | 24054.2 | 28968.6 | 33277.2 | 29169.2 | 24242.2 | 21680.5 | 19340.3 |
| 75° | 10677.3 | 10180.0 | 12302.9 | 16515.3 | 23101.4 | 28843.3 | 23632.1 | 16987.5 | 13698.7 | 10597.9 |
| 77.5° | 3013.0 | 2825.0 | 4538.4 | 7990.2 | 13895.1 | 20251.3 | 14430.0 | 8165.7 | 5382.5 | 3192.7 |
| 80° | 923.6 | 894.3 | 1211.9 | 2407.1 | 5900.7 | 9699.4 | 5670.9 | 2436.3 | 1542.0 | 973.7 |
| 82.5° | 547.4 | 501.5 | 601.8 | 877.6 | 1504.4 | 3046.5 | 1462.6 | 915.2 | 735.5 | 493.1 |
| 85° | 313.4 | 292.5 | 355.2 | 426.3 | 505.7 | 647.7 | 422.1 | 434.6 | 392.8 | 263.3 |
| 87.5° | 129.5 | 117.0 | 137.9 | 133.7 | 117.0 | 150.4 | 112.8 | 133.7 | 158.8 | 104.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°
7334.1
7309.0
7217.1
7116.8
7070.8
7070.8
7100.1
7154.4
7208.7
7233.8
7258.9
7321.6
7463.6
7685.1
8040.3
8533.5
9147.8
9929.2
10852.8
11905.9
13172.1
14705.8
16540.4
18621.5
20719.4
23155.7
25525.2
26645.1
25190.9
19921.2
11287.4
3547.9
1028.0
534.9
275.8
96.1
0.0

OF REPORT)