

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: P943819

Luminaire Tested: **GALN-SB8C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49445 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

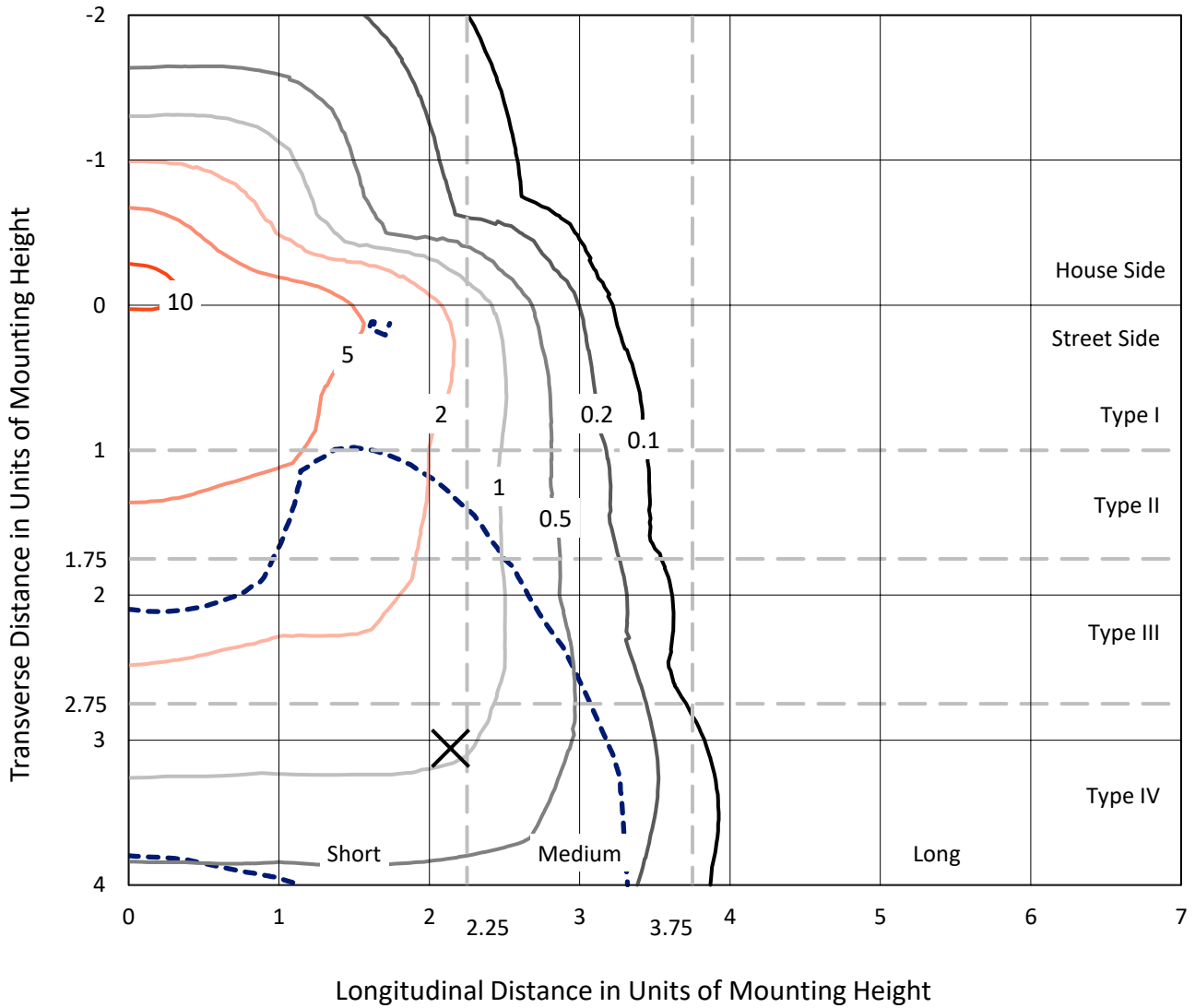
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

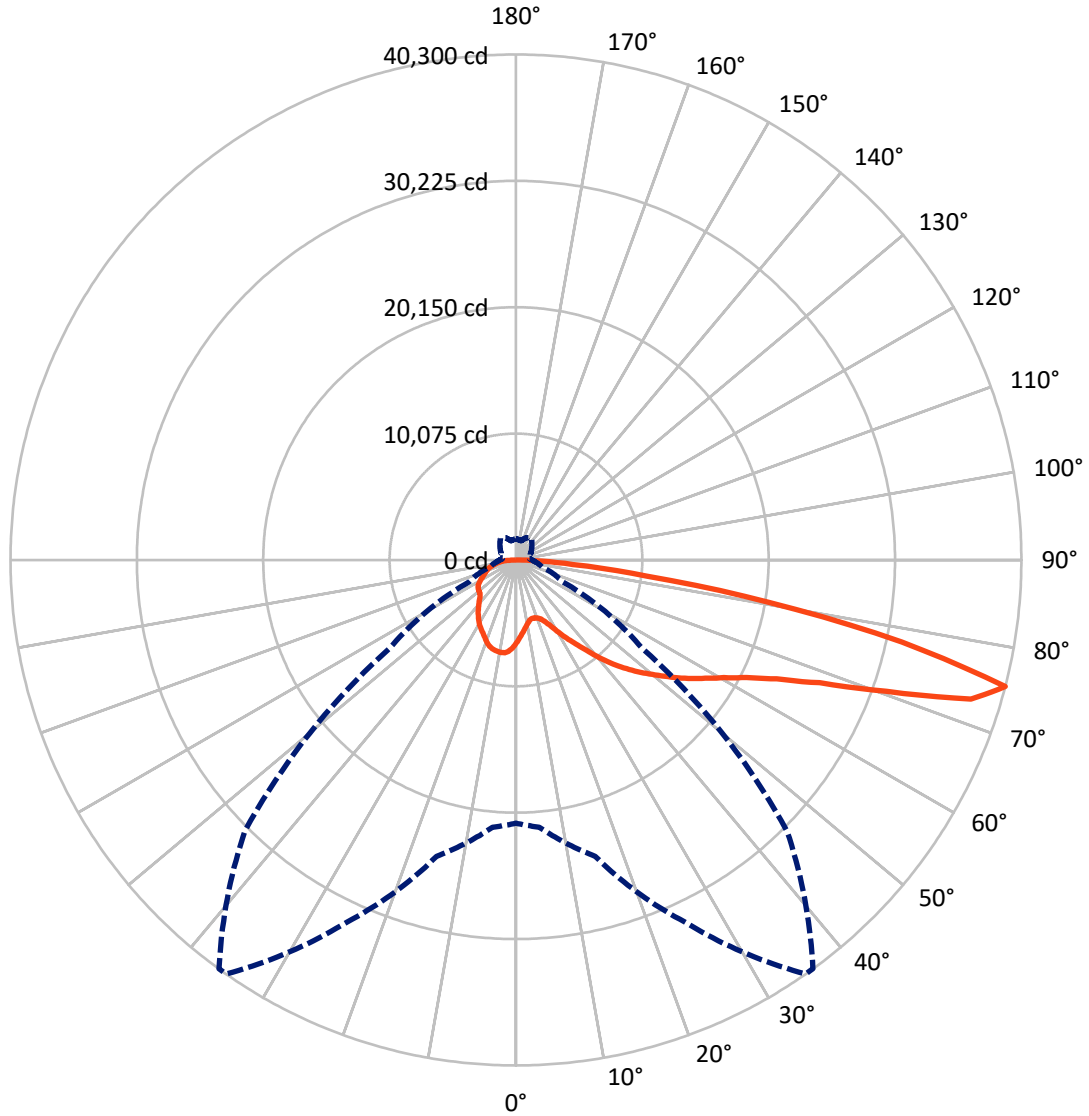
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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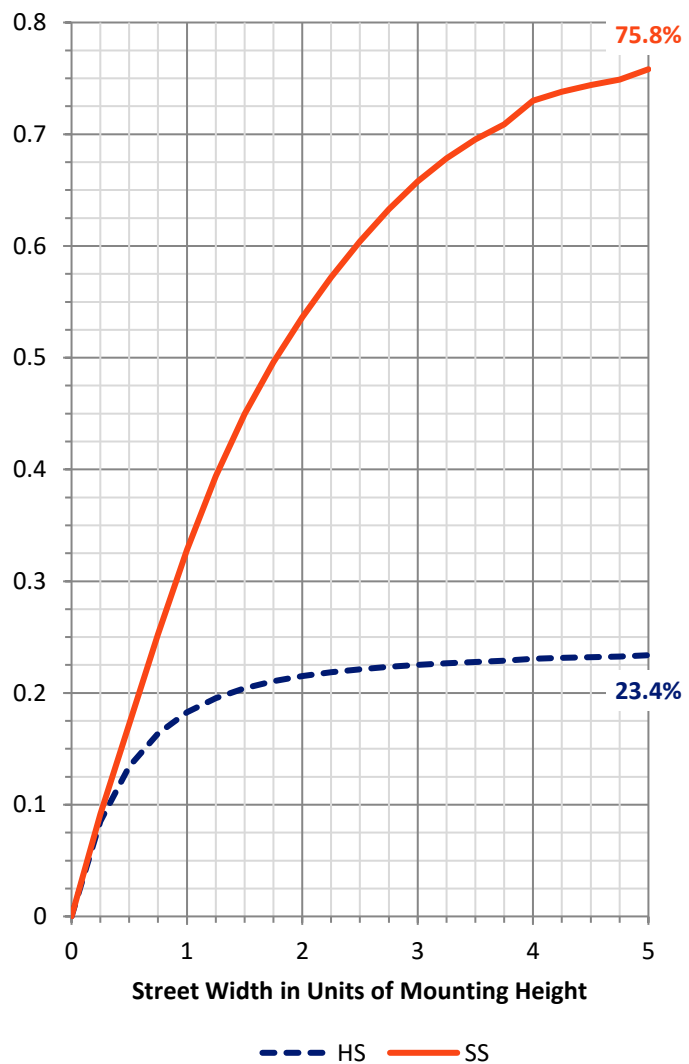
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11766.7	0.0	11766.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	37678.3	0.0	37678.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	49445.0	0.0	49445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.8	1.3
10°-20°	1799.4	3.6
20°-30°	3021.7	6.1
30°-40°	4696.1	9.5
40°-50°	6970.3	14.1
50°-60°	9622.9	19.5
60°-70°	11674.8	23.6
70°-80°	9648.3	19.5
80°-90°	1387.7	2.8
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°	49445.0	100.0
0°-180°	49445.0	100.0

Coefficient of Utilization



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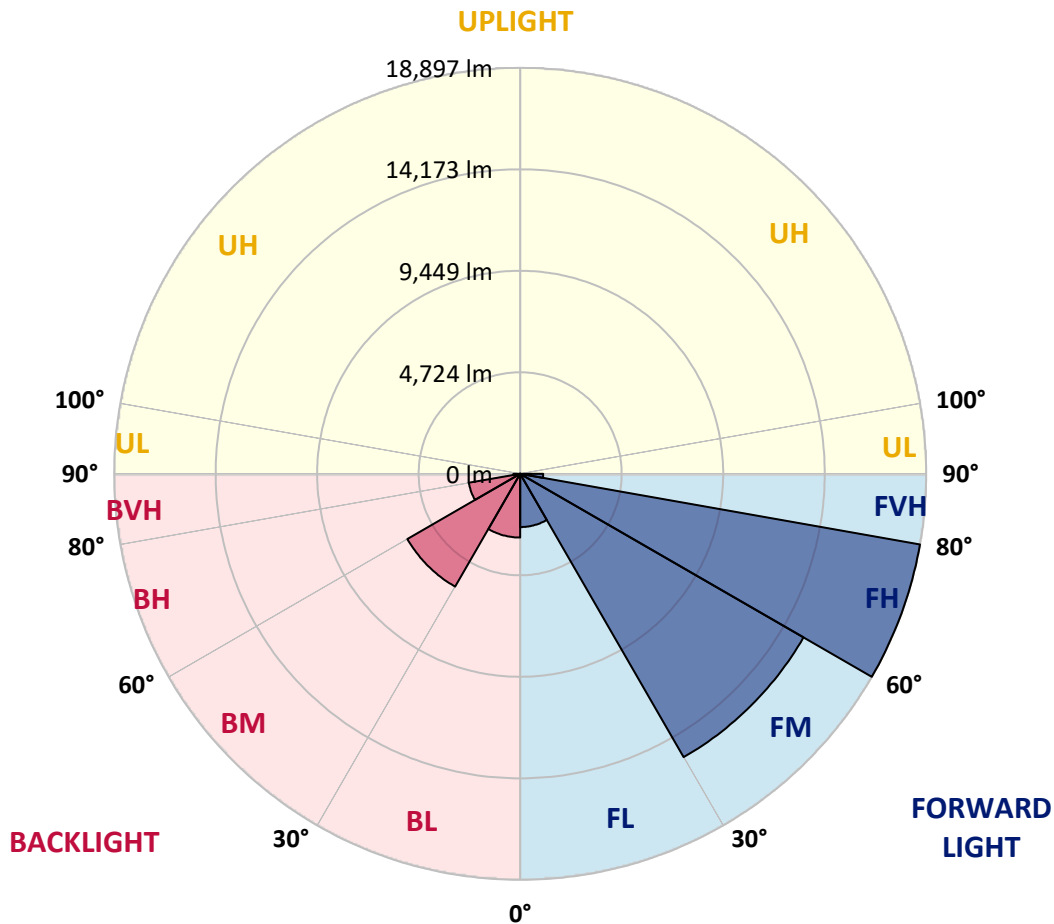
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2479.6	5.0			
FM (30°-60°)	15226.4	30.8			
FH (60°-80°)	18897.1	38.2			G5
FVH (80°-90°)	1075.2	2.2			G5
BL (0°-30°)	2965.4	6.0	B4/5000		
BM (30°-60°)	6062.9	12.3	B4/8500		
BH (60°-80°)	2425.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	312.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9
2.5°	6075.7	6113.1	6129.1	6121.1	6161.2	6155.9	6212.0	6281.5	6377.7	6471.3	6607.6
5°	5607.9	5648.0	5682.7	5714.8	5792.3	5816.4	5904.6	6038.2	6214.7	6393.8	6618.3
7.5°	5172.2	5207.0	5260.4	5319.2	5450.2	5474.3	5621.3	5829.8	6075.7	6337.6	6647.7
10°	4816.7	4851.4	4907.6	4974.4	5137.5	5166.9	5354.0	5632.0	5952.7	6284.2	6679.8
12.5°	4664.3	4675.0	4707.1	4773.9	4915.6	4934.3	5140.1	5458.2	5832.4	6244.1	6727.9
15°	4656.3	4677.7	4680.4	4715.1	4832.7	4840.8	5030.5	5345.9	5757.6	6236.0	6800.0
17.5°	4736.5	4752.5	4728.5	4749.9	4848.8	4862.1	5011.8	5292.5	5733.5	6270.8	6923.0
20°	4950.3	4963.7	4891.5	4862.1	4934.3	4945.0	5092.0	5327.2	5757.6	6343.0	7091.4
22.5°	5404.8	5412.8	5236.4	5116.1	5121.4	5126.8	5255.1	5468.9	5851.1	6473.9	7305.2
25°	6113.1	6107.7	5827.1	5594.5	5460.9	5431.5	5517.0	5698.8	6008.8	6647.7	7580.6
27.5°	6941.7	6901.6	6621.0	6273.5	5982.1	5939.3	5920.6	5998.2	6233.4	6877.6	7917.3
30°	7877.3	7839.8	7537.8	7083.4	6679.8	6610.3	6433.8	6393.8	6567.5	7190.3	8385.1
32.5°	8903.7	8879.6	8518.8	7968.1	7428.2	7348.0	7051.3	6944.4	7080.7	7663.4	9037.3
35°	9764.4	9743.0	9443.6	8876.9	8216.7	8117.8	7815.8	7695.5	7765.0	8270.2	9890.0
37.5°	10542.2	10531.5	10274.9	9828.5	9146.9	9026.6	8687.2	8647.1	8633.7	9069.4	10924.4
40°	11263.9	11237.2	10969.9	10734.7	10229.5	10119.9	9820.5	9785.8	9684.2	10053.1	12095.2
42.5°	12063.1	11993.6	11606.1	11496.5	11360.1	11269.3	11090.2	11095.5	10871.0	11162.3	13335.5
45°	12715.3	12675.2	12277.0	12212.8	12359.8	12322.4	12477.4	12517.5	12081.8	12325.1	14623.8
47.5°	13415.7	13378.2	13041.4	12996.0	13394.3	13405.0	13952.9	13966.3	13263.3	13533.3	15914.9
50°	14279.0	14225.6	13891.4	13947.6	14394.0	14434.1	15436.4	15345.5	14351.2	14760.2	17195.2
52.5°	14848.4	14880.4	14808.3	14899.2	15508.6	15546.0	16895.9	16663.3	15428.4	15971.0	18451.5
55°	15268.0	15332.2	15556.7	15765.2	16684.7	16722.1	18272.4	17916.9	16321.2	17093.7	19633.0
57.5°	15808.0	15717.1	16136.7	16543.0	17802.0	17900.9	19611.6	19125.1	17112.4	18061.3	20442.9
60°	16583.1	16519.0	16845.1	17446.5	19053.0	19210.7	21028.3	20213.0	17692.4	18828.4	20600.6
62.5°	18154.8	17994.5	18045.2	18577.2	20630.0	20838.5	22626.7	21161.9	17981.1	19127.8	19756.0
65°	20504.4	20229.1	19972.5	20341.3	22851.3	23057.1	24431.0	21907.7	17874.2	18547.8	17513.3
67.5°	23463.4	23190.7	22875.3	23222.8	26123.0	26286.0	26657.6	22327.4	17032.2	16313.2	13549.3
70°	25903.8	25802.2	26179.1	27609.1	31348.6	31354.0	29512.3	21979.9	14725.4	11566.0	7839.8
72.5°	25580.4	25518.9	27504.9	31926.0	37934.8	37793.2	32214.7	19349.7	9919.4	5217.6	2937.6
75°	20985.5	21383.8	24460.4	31848.5	40300.4	40281.7	30560.1	12301.0	4103.0	2162.4	1518.2
77.5°	11253.2	11884.0	15880.1	23514.2	31460.9	31934.0	21485.4	4303.5	1761.5	1384.6	1050.5
80°	3670.0	4220.6	6329.6	11972.3	20442.9	20354.7	9208.4	1689.3	1205.5	981.0	727.0
82.5°	1558.3	1622.5	2828.0	5653.3	10491.4	10328.4	2932.3	970.3	847.3	670.9	449.1
85°	609.4	681.6	1248.3	2614.2	4544.1	4445.2	1058.5	481.1	542.6	438.4	267.3
87.5°	200.5	243.2	446.4	895.4	1414.0	1363.2	259.3	165.7	235.2	200.5	96.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9	6588.9
2.5°	6645.0	6687.8	6738.6	6813.4	6877.6	6931.0	6987.2	7021.9	7035.3	7075.4	7072.7
5°	6693.1	6786.7	6912.3	7035.3	7155.6	7227.7	7291.9	7323.9	7353.4	7374.7	7380.1
7.5°	6773.3	6893.6	7091.4	7251.8	7353.4	7412.2	7454.9	7444.2	7454.9	7460.3	7468.3
10°	6842.8	7011.2	7246.4	7398.8	7476.3	7479.0	7468.3	7430.9	7412.2	7414.8	7420.2
12.5°	6925.7	7112.8	7366.7	7495.0	7516.4	7457.6	7412.2	7348.0	7323.9	7313.3	7307.9
15°	7037.9	7251.8	7497.7	7545.8	7492.3	7417.5	7340.0	7235.7	7182.3	7139.5	7152.9
17.5°	7174.3	7409.5	7599.3	7564.5	7449.6	7326.6	7201.0	7043.3	6933.7	6888.3	6890.9
20°	7364.0	7575.2	7676.8	7524.4	7350.7	7163.6	6949.7	6757.3	6655.7	6610.3	6604.9
22.5°	7593.9	7797.1	7751.6	7454.9	7209.0	6909.6	6642.3	6500.7	6449.9	6417.8	6423.2
25°	7869.2	8043.0	7805.1	7353.4	6976.5	6572.8	6367.0	6321.6	6297.5	6273.5	6273.5
27.5°	8227.4	8321.0	7845.2	7203.7	6612.9	6214.7	6139.8	6147.8	6139.8	6099.7	6107.7
30°	8700.5	8681.8	7882.6	6960.4	6196.0	5891.2	5896.6	5931.3	5936.7	5909.9	5923.3
32.5°	9323.3	9133.6	7901.3	6645.0	5797.7	5607.9	5613.2	5650.7	5677.4	5632.0	5653.3
35°	10077.1	9660.1	7871.9	6249.4	5490.3	5337.9	5297.8	5308.5	5316.5	5273.8	5303.2
37.5°	10956.5	10250.9	7740.9	5811.0	5236.4	5073.3	4987.8	4915.6	4872.8	4832.7	4859.5
40°	11921.5	10895.0	7500.4	5383.4	4953.0	4792.6	4664.3	4528.0	4383.7	4330.2	4354.3
42.5°	12931.8	11557.9	7209.0	4974.4	4626.9	4495.9	4359.6	4161.8	3945.3	3835.7	3849.1
45°	13979.7	12236.9	6923.0	4570.8	4292.8	4236.7	4079.0	3841.1	3605.8	3466.8	3456.2
47.5°	15006.1	12878.4	6503.3	4164.5	3980.1	4041.5	3918.6	3699.4	3437.4	3218.3	3194.2
50°	15987.1	13479.8	5816.4	3752.9	3726.1	3982.7	3865.1	3549.7	3250.3	2969.7	2945.6
52.5°	16960.0	13966.3	4937.0	3378.6	3589.8	3966.7	3795.6	3448.1	3081.9	2787.9	2755.8
55°	17786.0	14217.5	4089.7	3057.9	3392.0	3830.4	3712.8	3327.9	2844.0	2531.3	2504.6
57.5°	18256.4	14014.4	3384.0	2742.5	3119.4	3605.8	3571.1	3071.2	2560.7	2320.1	2288.1
60°	18053.3	13191.1	2806.6	2467.2	2860.1	3362.6	3325.2	2817.3	2344.2	2117.0	2084.9
62.5°	16933.3	11622.1	2349.5	2226.6	2624.9	3114.0	3079.3	2622.2	2178.5	1959.3	1924.5
65°	14677.3	9454.3	1994.0	2026.1	2387.0	2814.6	2865.4	2459.1	2047.5	1833.7	1798.9
67.5°	11194.4	6848.2	1716.0	1852.4	2154.4	2520.6	2667.6	2341.5	1937.9	1734.8	1702.7
70°	6380.4	3889.2	1480.8	1684.0	1948.6	2248.0	2515.3	2248.0	1820.3	1651.9	1630.5
72.5°	2419.0	1785.5	1280.4	1515.6	1750.8	2018.1	2346.9	2101.0	1684.0	1558.3	1537.0
75°	1291.0	1087.9	1077.2	1317.8	1523.6	1793.6	2135.7	1956.6	1582.4	1646.6	1700.0
77.5°	879.4	769.8	900.8	1128.0	1275.0	1545.0	1911.2	1737.4	1371.2	1365.9	1259.0
80°	609.4	545.3	732.4	908.8	986.3	1299.1	1667.9	1491.5	1117.3	1042.5	997.0
82.5°	366.2	355.5	548.0	678.9	697.6	1002.4	1381.9	1251.0	914.2	796.5	801.9
85°	200.5	211.2	350.2	398.3	406.3	700.3	1082.6	967.6	703.0	590.7	596.1
87.5°	56.1	72.2	128.3	157.7	195.1	363.5	644.2	574.7	352.8	245.9	245.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)