

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643233

Luminaire Tested: GWS-SA6E-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45507.4 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

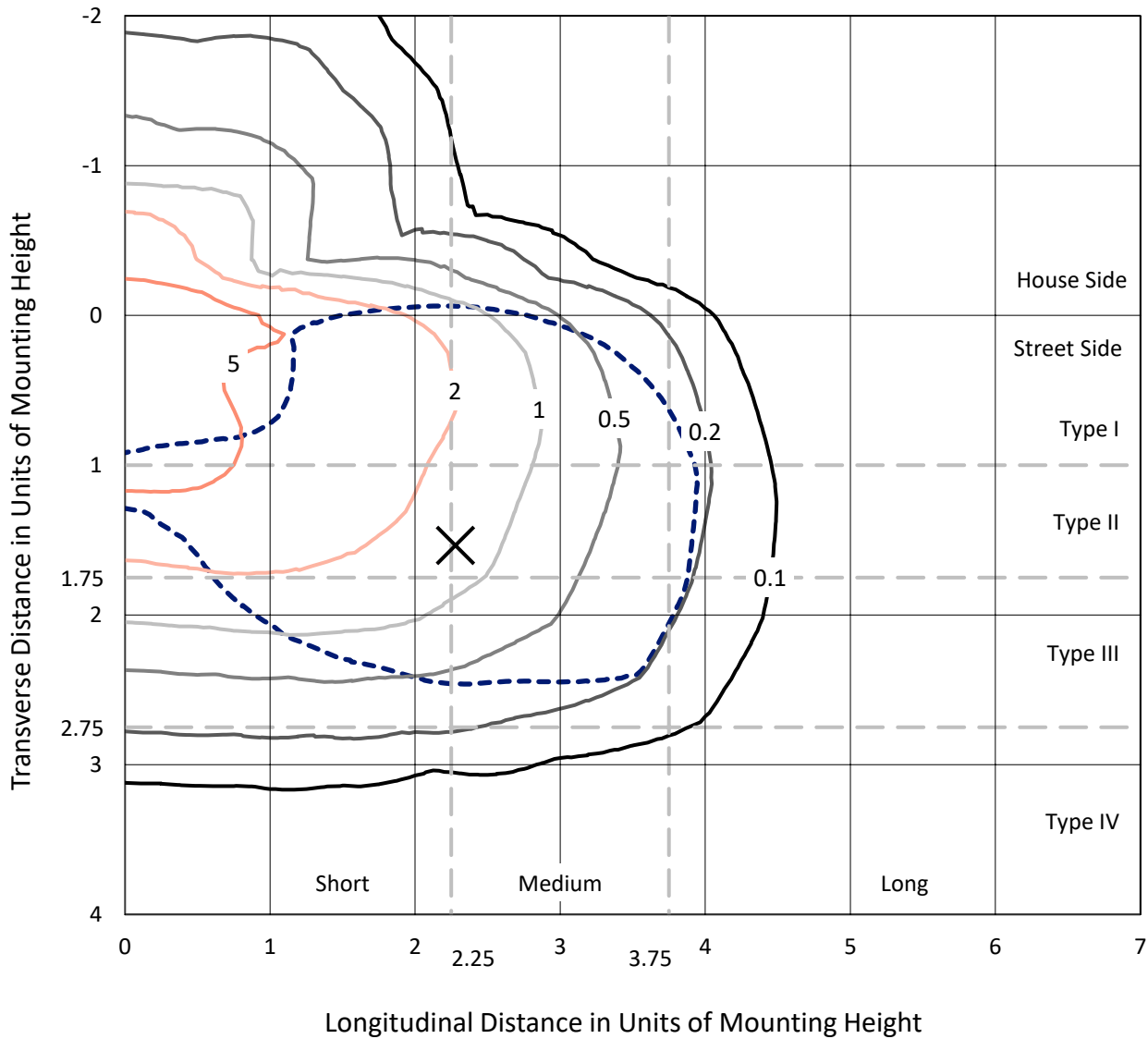
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

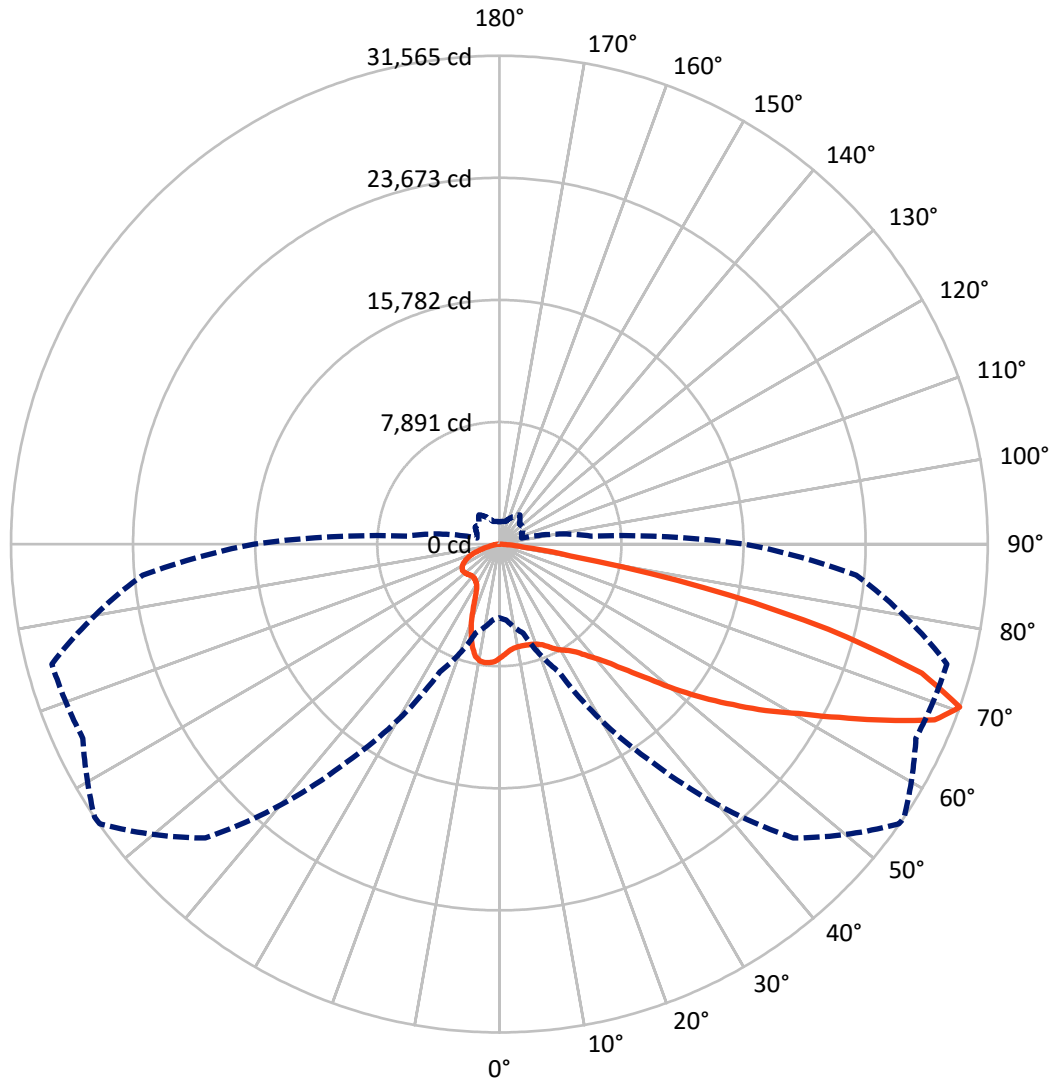
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8748.9	0.0	8748.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	36758.5	0.0	36758.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	45507.4	0.0	45507.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.7	1.5
10°-20°	1841.8	4.0
20°-30°	3045.0	6.7
30°-40°	4552.7	10.0
40°-50°	6775.0	14.9
50°-60°	9632.1	21.2
60°-70°	11929.7	26.2
70°-80°	6587.2	14.5
80°-90°	463.9	1.0
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°	45507.4	100.0
0°-180°	45507.4	100.0

Coefficient of Utilization



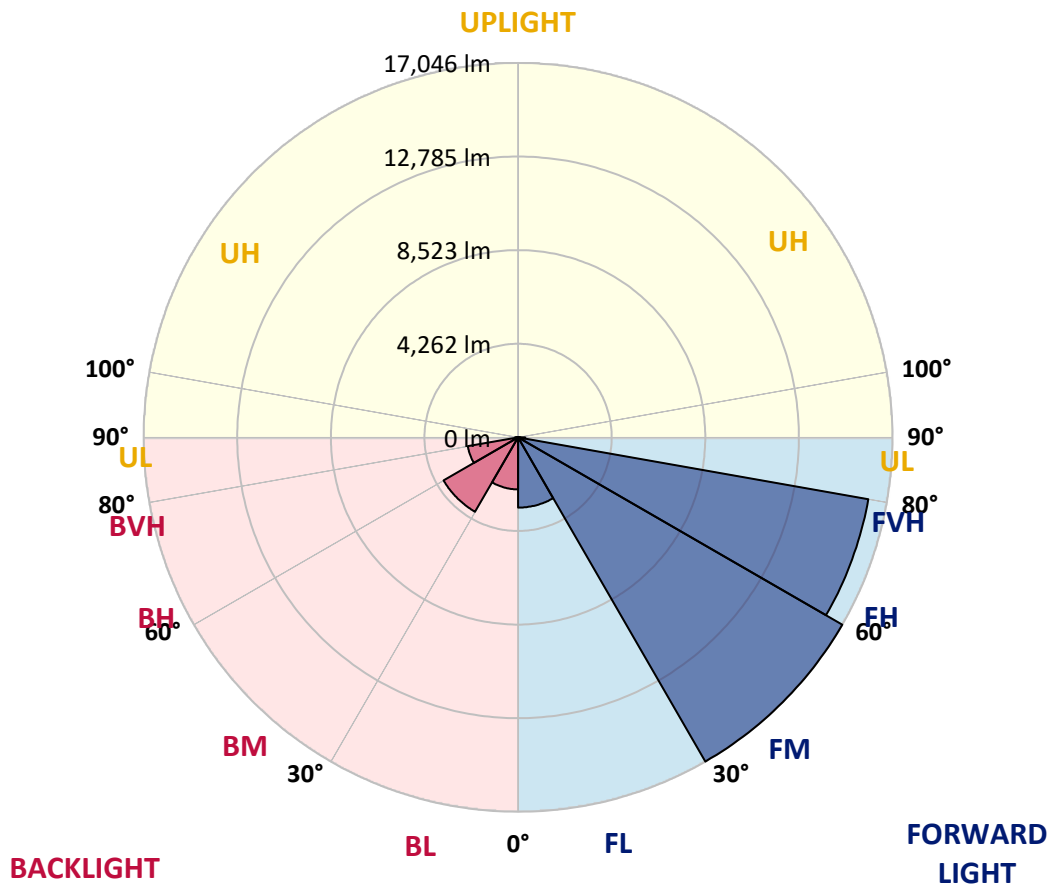
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3198.2	7.0			
FM (30°-60°)	17046.4	37.5			
FH (60°-80°)	16191.6	35.6			G5
FVH (80°-90°)	322.4	0.7			G3/500
BL (0°-30°)	2368.4	5.2	B3/2500		
BM (30°-60°)	3913.5	8.6	B3/5000		
BH (60°-80°)	2325.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	141.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6
2.5°	6873.9	6835.3	6880.3	6902.7	6960.5	7043.9	7117.7	7121.0	7159.5	7252.5	7342.4
5°	6562.6	6543.3	6556.2	6623.6	6684.5	6790.4	6902.7	6912.4	7021.5	7204.4	7384.1
7.5°	6321.9	6296.2	6344.4	6431.0	6508.0	6626.8	6774.4	6787.2	6941.2	7217.2	7493.2
10°	5975.3	5956.1	6045.9	6161.4	6328.3	6524.1	6719.8	6735.9	6938.0	7300.7	7685.8
12.5°	5824.5	5824.5	5863.0	5972.1	6155.0	6415.0	6710.2	6735.9	6989.4	7429.0	7932.9
15°	6058.8	6074.8	6042.7	6036.3	6110.1	6357.2	6723.0	6761.5	7085.7	7560.6	8176.7
17.5°	6530.5	6546.5	6463.1	6331.5	6257.7	6411.8	6771.2	6812.9	7188.3	7705.0	8439.9
20°	7191.6	7210.8	7027.9	6825.7	6572.2	6569.0	6864.2	6902.7	7319.9	7862.3	8719.1
22.5°	7964.9	7977.8	7746.7	7425.8	7037.5	6861.0	7024.7	7063.2	7490.0	8080.5	9020.7
25°	8860.3	8898.8	8619.6	8154.3	7628.0	7262.2	7291.0	7336.0	7794.9	8372.5	9376.9
27.5°	9816.6	9864.7	9543.8	9030.4	8305.1	7705.0	7634.4	7672.9	8119.0	8552.2	9566.3
30°	10795.4	10830.7	10509.8	9922.5	9033.6	8205.6	7923.2	7945.7	8260.2	8638.9	9758.8
32.5°	11883.2	11854.4	11546.3	10869.2	9874.4	8805.7	8192.8	8186.4	8417.4	8812.1	10034.8
35°	12903.7	12945.4	12618.1	11870.4	10798.6	9547.0	8597.1	8571.5	8751.2	9094.5	10423.1
37.5°	14139.2	14126.4	13734.9	12926.2	11726.0	10256.2	9165.1	9120.2	9184.4	9534.2	10965.4
40°	15021.7	15111.6	14858.1	14103.9	12810.7	11129.1	9829.4	9729.9	9746.0	10076.5	11690.7
42.5°	15743.8	15827.2	15852.9	15371.5	14052.6	12207.4	10657.4	10557.9	10567.5	11036.0	12582.8
45°	16298.9	16411.3	16773.9	16632.7	15451.7	13452.5	11777.3	11674.6	11681.1	12200.9	13661.1
47.5°	16526.8	16648.7	17383.6	17720.6	16937.5	14941.5	13170.1	13019.3	13041.7	13616.1	14893.4
50°	16453.0	16616.6	17611.5	18558.1	18182.7	16456.2	14835.6	14729.7	14643.1	15477.4	16231.5
52.5°	15817.6	15997.3	17589.0	19090.8	19200.0	17887.4	16555.7	16494.7	16475.4	17454.2	17727.0
55°	13946.7	14248.3	16815.6	19232.0	19995.8	19235.3	18420.1	18317.5	18416.9	19572.2	19238.5
57.5°	12910.1	13134.8	15300.9	19074.8	20647.2	20518.9	20281.4	20291.0	20403.4	21873.1	21070.8
60°	12319.7	12582.8	14460.1	18644.8	21273.0	22078.5	22229.3	22229.3	22431.5	24353.7	22932.1
62.5°	11536.7	11803.0	13673.9	17816.8	21850.7	23914.1	24677.9	24668.2	24748.5	27014.1	24751.7
65°	9948.2	10195.3	12095.0	16510.7	22133.1	25935.8	27460.1	27431.3	27270.8	29382.4	25955.1
67.5°	7223.6	7457.9	9264.6	14026.9	21115.8	27566.0	30325.8	30338.7	29379.2	30874.6	26019.3
70°	4762.3	4922.7	5956.1	9110.6	17171.8	26863.2	31526.0	31564.6	29703.3	29944.0	23156.8
72.5°	2971.6	3083.9	3719.3	5433.0	10147.1	21263.4	28445.3	28551.2	26722.0	26314.5	19026.7
75°	1973.6	2050.6	2474.2	3167.4	4694.9	11507.8	21622.8	21963.0	21417.4	20628.0	13256.7
77.5°	1187.4	1251.5	1575.7	2012.1	2079.5	4495.9	12621.3	13500.6	13577.6	10769.7	5551.7
80°	542.3	616.1	869.7	1148.9	1107.1	1566.0	4451.0	4656.4	5494.0	3420.9	1752.2
82.5°	320.9	353.0	577.6	571.2	471.7	760.6	1601.3	1643.1	1396.0	1251.5	747.7
85°	128.4	150.8	243.9	215.0	173.3	247.1	603.3	632.2	606.5	545.5	276.0
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	54.6	57.8	83.4	150.8	83.4
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°	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6	7345.6
2.5°	7400.1	7380.9	7477.2	7551.0	7583.1	7615.2	7586.3	7576.6	7576.6	7512.5	7480.4
5°	7480.4	7490.0	7621.6	7682.5	7682.5	7656.9	7579.9	7525.3	7506.0	7422.6	7400.1
7.5°	7631.2	7672.9	7794.9	7791.7	7701.8	7560.6	7368.1	7220.4	7085.7	7027.9	6992.6
10°	7878.3	7932.9	8016.3	7881.5	7631.2	7258.9	6851.4	6530.5	6337.9	6183.9	6183.9
12.5°	8160.7	8212.0	8196.0	7884.7	7368.1	6671.7	6084.4	5715.4	5445.8	5304.6	5304.6
15°	8443.1	8484.8	8311.5	7737.1	6819.3	5891.9	5250.1	4807.2	4572.9	4441.4	4441.4
17.5°	8728.7	8725.5	8359.7	7396.9	6103.7	5028.6	4399.7	4056.3	3976.1	3953.6	3950.4
20°	9004.7	8930.9	8298.7	6828.9	5272.5	4159.0	3761.0	3783.5	3902.2	3953.6	3960.0
22.5°	9316.0	9133.1	8119.0	6103.7	4329.1	3555.7	3581.3	3767.5	3940.8	4017.8	4027.4
25°	9633.7	9306.3	7817.3	5253.3	3539.6	3334.2	3533.2	3741.8	3937.5	4037.0	4046.7
27.5°	9762.0	9306.3	7303.9	4268.1	3119.2	3241.2	3459.4	3661.6	3866.9	3982.5	4004.9
30°	9867.9	9226.1	6585.0	3379.2	2945.9	3151.3	3340.7	3526.8	3729.0	3870.2	3895.8
32.5°	10015.6	9155.5	5715.4	2840.0	2865.7	3064.7	3196.2	3353.5	3536.4	3629.5	3619.8
35°	10188.8	9046.4	4666.0	2583.3	2798.3	2990.9	3083.9	3177.0	3093.6	3090.3	3100.0
37.5°	10435.9	8950.1	3751.4	2467.8	2753.4	2939.5	3016.5	2817.6	2702.0	2653.9	2634.7
40°	10792.2	8911.6	2958.8	2400.4	2747.0	2936.3	2881.8	2573.7	2416.4	2249.6	2246.4
42.5°	11241.4	8882.7	2445.3	2368.3	2769.4	3010.1	2695.6	2413.2	2089.1	2015.3	2008.9
45°	11819.1	8837.8	2188.6	2361.9	2824.0	3067.9	2676.4	2191.8	1970.4	1938.3	1938.3
47.5°	12515.4	8767.2	2073.1	2361.9	2885.0	3042.2	2618.6	2143.7	1915.8	1951.1	1973.6
50°	13314.5	8677.4	2012.1	2355.5	2945.9	3042.2	2496.7	2134.0	1903.0	2085.9	2159.7
52.5°	14168.1	8574.7	1970.4	2329.8	2987.7	3045.4	2503.1	2166.1	1915.8	2118.0	2179.0
55°	15111.6	8558.6	1912.6	2275.2	3000.5	2962.0	2519.1	2236.7	1935.1	1919.0	1922.2
57.5°	16302.1	8751.2	1870.9	2195.0	2949.1	2791.9	2551.2	2288.1	1912.6	1915.8	1938.3
60°	17547.3	9113.8	1906.2	2118.0	2843.2	2631.4	2573.7	2262.4	1803.5	1752.2	1758.6
62.5°	18606.3	9389.8	1935.1	2082.7	2689.2	2490.2	2551.2	2204.6	1742.5	1729.7	1758.6
65°	19049.1	9161.9	1864.5	2008.9	2464.6	2317.0	2503.1	2130.8	1691.2	1643.1	1646.3
67.5°	18558.1	8093.3	1726.5	1845.2	2211.1	2095.5	2426.1	2034.6	1620.6	1562.8	1550.0
70°	15852.9	5946.4	1489.0	1585.3	1903.0	1835.6	2307.3	1909.4	1508.3	1466.6	1437.7
72.5°	12775.4	4210.3	1235.5	1261.2	1492.2	1546.8	2102.0	1752.2	1379.9	1261.2	1219.5
75°	8892.4	2644.3	1030.1	1004.4	1078.3	1180.9	1639.8	1453.7	1190.6	1065.4	1026.9
77.5°	3825.2	1357.4	805.5	792.6	718.8	818.3	1258.0	1213.0	998.0	853.6	831.2
80°	1280.4	786.2	580.8	558.4	478.2	574.4	885.7	969.1	783.0	632.2	593.7
82.5°	641.8	455.7	369.0	333.7	320.9	362.6	523.1	603.3	542.3	436.4	369.0
85°	314.5	259.9	202.2	199.0	166.9	157.2	218.2	256.7	243.9	179.7	170.1
87.5°	115.5	102.7	64.2	51.3	32.1	22.5	12.8	12.8	9.6	9.6	9.6
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)