

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: P643235

Luminaire Tested: GWS-SA6E-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43238.6 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

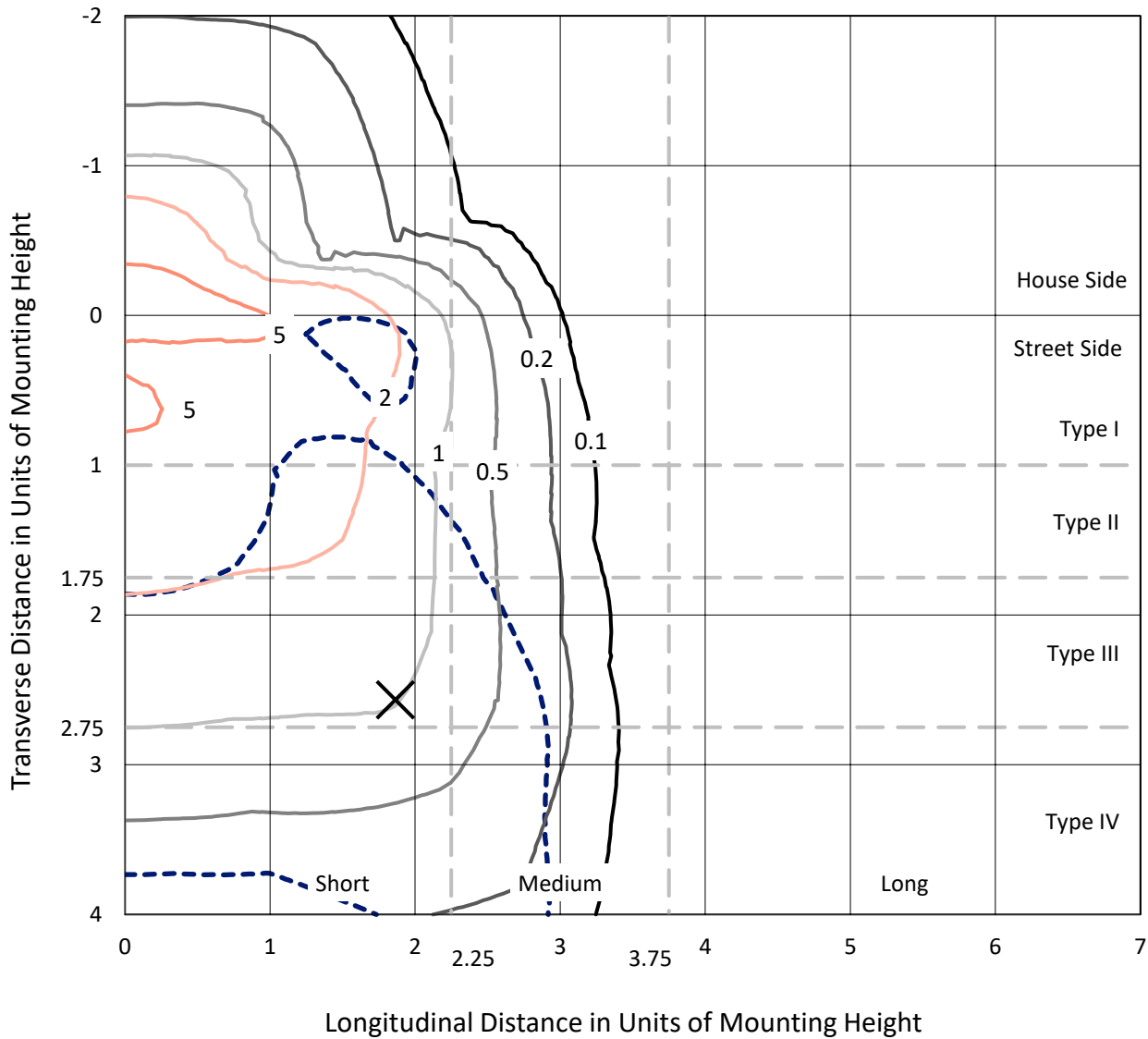
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

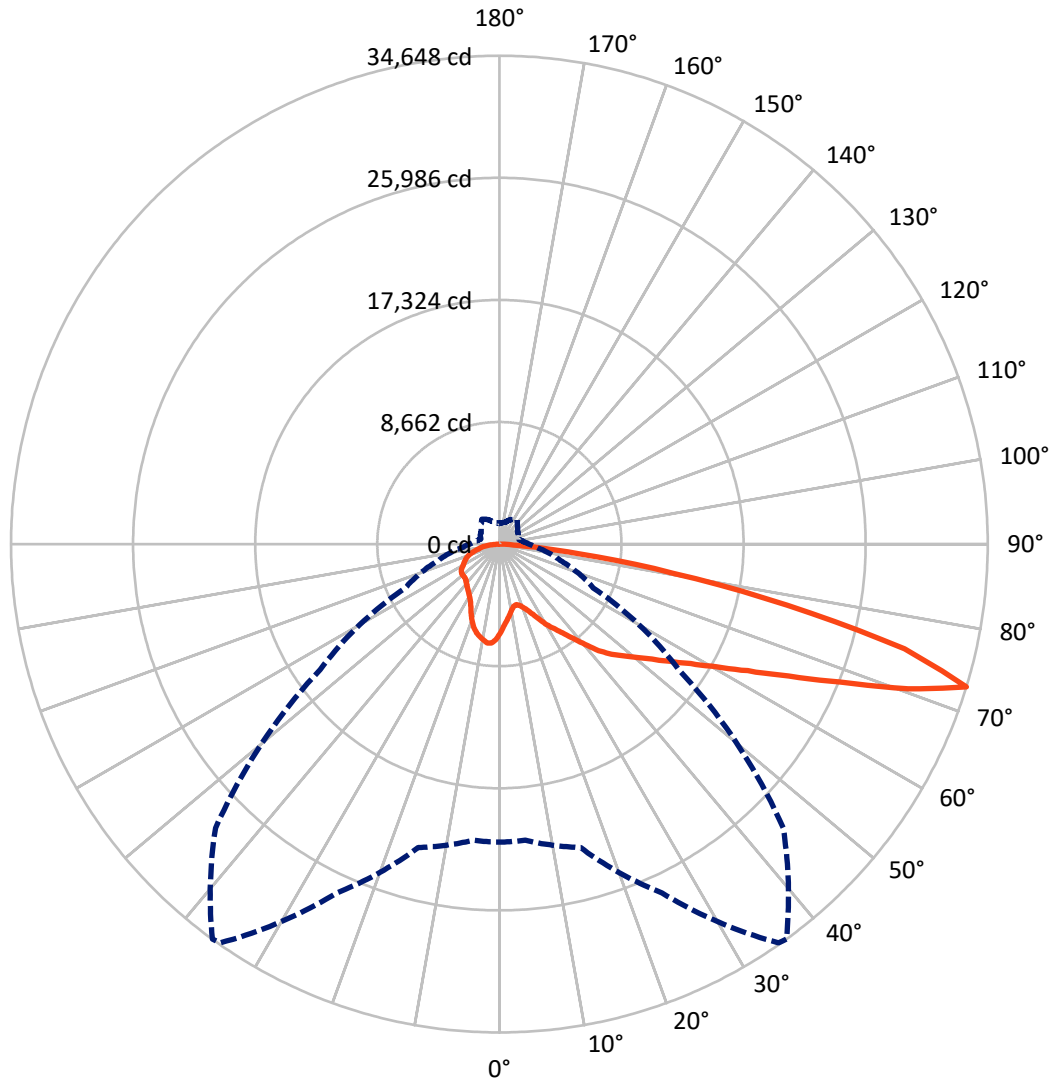
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9968.4	0.0	9968.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	33270.2	0.0	33270.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	43238.6	0.0	43238.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.5	1.4
10°-20°	1668.9	3.9
20°-30°	2763.9	6.4
30°-40°	4139.2	9.6
40°-50°	6038.7	14.0
50°-60°	8594.9	19.9
60°-70°	10859.0	25.1
70°-80°	7737.9	17.9
80°-90°	844.7	2.0
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°	43238.6	100.0
0°-180°	43238.6	100.0

Coefficient of Utilization



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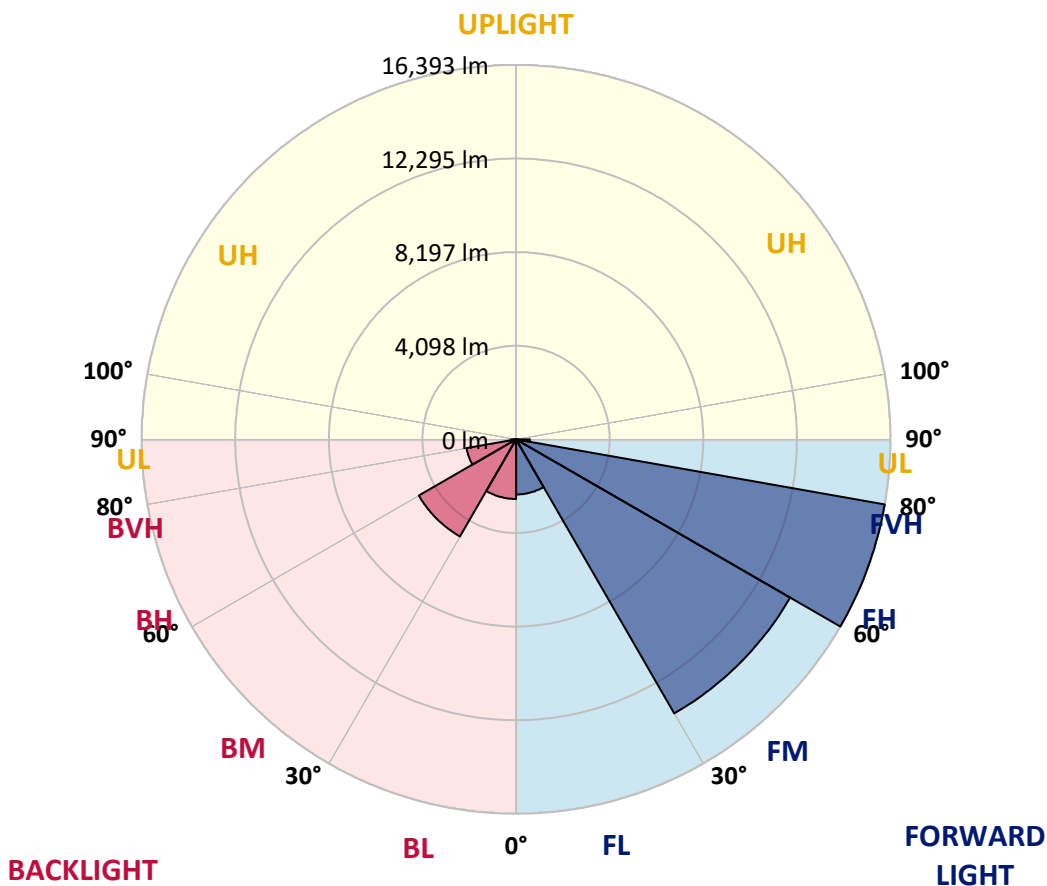
CATALOG NUMBER: GWS-SA6E-740-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.9	5.6			
FM (30°-60°)	13856.9	32.0			
FH (60°-80°)	16393.2	37.9			G5
FVH (80°-90°)	606.3	1.4			G4/750
BL (0°-30°)	2610.4	6.0	B4/5000		
BM (30°-60°)	4915.8	11.4	B3/5000		
BH (60°-80°)	2203.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	238.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2
2.5°	5773.0	5763.4	5744.1	5801.9	5859.6	5853.2	5933.5	6010.5	6093.9	6180.5	6296.1
5°	5310.9	5304.5	5288.4	5375.1	5461.7	5458.5	5590.1	5715.2	5885.3	6071.4	6302.5
7.5°	4848.8	4832.8	4855.2	4964.3	5086.3	5099.1	5278.8	5484.2	5731.3	6010.5	6337.8
10°	4441.3	4438.1	4447.7	4569.6	4752.5	4765.4	4996.4	5282.0	5609.3	5981.6	6418.0
12.5°	4335.4	4329.0	4303.3	4364.3	4502.2	4521.5	4775.0	5124.8	5525.9	5997.6	6527.1
15°	4508.7	4492.6	4402.8	4373.9	4441.3	4457.3	4672.3	5031.7	5477.8	6026.5	6665.1
17.5°	4807.1	4797.5	4627.4	4508.7	4553.6	4566.4	4726.9	5015.7	5464.9	6084.3	6835.2
20°	5243.5	5201.8	4935.5	4755.7	4755.7	4775.0	4871.3	5086.3	5481.0	6154.9	7027.7
22.5°	5821.1	5737.7	5362.3	5118.4	5054.2	5079.9	5121.6	5262.8	5548.4	6273.6	7268.4
25°	6469.4	6392.3	5946.3	5602.9	5513.1	5522.7	5487.4	5513.1	5696.0	6437.3	7566.8
27.5°	7159.3	7108.0	6633.0	6196.6	6055.4	6055.4	5930.2	5869.3	5901.4	6623.4	7900.6
30°	7775.4	7704.8	7303.7	6825.6	6639.4	6639.4	6402.0	6270.4	6193.4	6851.2	8346.6
32.5°	8099.5	8057.8	7791.5	7425.6	7197.8	7162.5	6957.1	6803.1	6623.4	7188.2	8949.9
35°	8523.1	8513.5	8353.0	8067.4	7778.6	7727.3	7586.1	7464.2	7152.9	7608.6	9752.2
37.5°	9055.8	9039.8	9014.1	8844.0	8497.5	8487.8	8362.7	8215.1	7810.7	8215.1	10724.5
40°	9652.7	9623.8	9591.7	9588.5	9379.9	9344.6	9335.0	9168.1	8603.3	8946.7	11738.5
42.5°	10474.2	10374.7	10073.1	10207.9	10361.9	10329.8	10451.7	10201.4	9591.7	9816.4	12698.0
45°	11485.0	11241.2	10644.3	10682.8	11071.1	11135.3	11558.8	11497.9	10679.6	10820.8	13708.9
47.5°	12091.5	11879.7	11324.6	11292.5	11777.1	11857.3	12778.3	12893.8	11850.9	12030.6	14957.2
50°	12588.9	12441.3	11985.6	12030.6	12544.0	12624.2	13988.1	14235.2	12954.8	13269.2	16407.7
52.5°	13189.0	12977.2	12624.2	12836.0	13465.0	13561.3	15332.6	15599.0	13949.6	14629.9	17909.5
55°	13526.0	13439.3	13445.7	13769.9	14559.3	14690.8	16741.4	16696.5	14860.9	15794.7	19039.0
57.5°	14302.5	14270.5	14565.7	14687.6	15836.5	16006.5	18150.1	17765.1	15688.8	16696.5	19581.4
60°	15672.8	15592.6	15849.3	16035.4	17415.3	17656.0	19722.6	18811.2	16250.4	17367.1	19398.5
62.5°	17598.2	17498.7	17508.3	17803.6	19530.0	19783.5	21471.5	19684.1	16423.7	17469.8	18240.0
65°	19992.1	19847.7	19684.1	20085.2	22337.9	22549.7	23374.4	20319.4	16009.7	16481.5	15820.4
67.5°	22517.6	22398.9	22206.3	23047.1	25973.7	26102.1	25508.4	20264.9	14697.3	13837.2	11096.7
70°	22665.2	22694.1	23605.5	26647.6	30719.8	30751.9	27526.9	19167.4	11902.2	8969.2	5529.1
72.5°	21144.2	21096.0	22283.3	27305.4	34538.5	34647.7	28479.9	15528.4	7355.0	4473.4	2592.9
75°	17174.6	17258.0	18506.3	23891.1	29603.1	29699.4	23217.2	9155.3	3494.6	2188.5	1659.1
77.5°	7393.6	7858.9	10320.2	16831.2	21201.9	20903.5	11966.4	3709.6	1864.4	1559.6	1270.8
80°	2134.0	2316.9	3677.5	8003.3	12704.5	12479.8	4736.5	1389.5	1299.6	1171.3	911.4
82.5°	689.9	763.7	1347.8	3186.5	5692.8	5686.4	1797.0	821.5	850.4	795.8	587.2
85°	192.5	221.4	414.0	965.9	1761.7	1726.4	519.9	388.3	452.5	458.9	292.0
87.5°	0.0	0.0	3.2	6.4	6.4	6.4	12.8	57.8	131.6	166.9	118.7
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°	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2	6328.2
2.5°	6366.7	6357.0	6488.6	6591.3	6687.6	6751.8	6771.0	6783.8	6809.5	6822.3	6809.5
5°	6411.6	6459.7	6677.9	6838.4	6966.8	7043.8	7047.0	7040.6	7059.8	7043.8	7034.1
7.5°	6507.9	6600.9	6876.9	7047.0	7130.4	7133.6	7056.6	6966.8	6921.8	6883.3	6870.5
10°	6636.2	6774.2	7075.9	7188.2	7162.5	7043.8	6873.7	6732.5	6652.3	6594.5	6581.7
12.5°	6812.7	6966.8	7252.4	7249.1	7088.7	6876.9	6677.9	6507.9	6392.3	6325.0	6302.5
15°	6979.6	7175.3	7380.7	7229.9	6976.4	6719.7	6462.9	6235.1	6081.1	5975.2	5955.9
17.5°	7185.0	7393.6	7473.8	7168.9	6835.2	6504.7	6161.3	5862.9	5654.3	5529.1	5519.5
20°	7422.4	7608.6	7518.7	7063.0	6652.3	6219.1	5753.8	5420.0	5195.4	5073.4	5083.1
22.5°	7698.4	7833.2	7531.5	6918.6	6398.8	5814.7	5294.9	4974.0	4823.1	4759.0	4762.2
25°	7993.6	8080.3	7509.1	6722.9	6010.5	5320.5	4823.1	4675.5	4662.7	4646.6	4653.1
27.5°	8343.4	8324.2	7441.7	6446.9	5487.4	4746.1	4492.6	4531.1	4582.5	4576.0	4582.5
30°	8811.9	8629.0	7355.0	6065.0	4864.9	4264.8	4296.9	4406.0	4473.4	4479.8	4499.0
32.5°	9347.8	8966.0	7217.1	5545.2	4271.2	3995.2	4113.9	4245.5	4325.7	4341.8	4367.5
35°	9986.4	9351.0	6973.2	4896.9	3844.4	3834.8	3943.9	4033.7	4120.4	4126.8	4126.8
37.5°	10721.3	9736.1	6584.9	4181.3	3581.3	3696.8	3799.5	3818.7	3841.2	3821.9	3831.6
40°	11395.2	10108.4	6032.9	3529.9	3366.2	3574.8	3661.5	3597.3	3526.7	3478.6	3488.2
42.5°	11960.0	10361.9	5301.3	3074.2	3148.0	3465.7	3533.1	3401.5	3263.6	3173.7	3186.5
45°	12595.4	10596.1	4441.3	2766.2	2961.9	3388.7	3433.6	3263.6	3087.1	2952.3	2933.0
47.5°	13471.4	11074.3	3677.5	2551.2	2830.3	3347.0	3420.8	3189.8	2958.7	2756.5	2734.1
50°	14552.8	11751.4	3038.9	2410.0	2769.4	3324.5	3417.6	3109.5	2833.6	2596.1	2580.0
52.5°	15733.8	12412.4	2567.2	2300.9	2708.4	3257.1	3401.5	3019.7	2702.0	2445.3	2426.0
55°	16520.0	12672.4	2249.5	2198.2	2608.9	3151.2	3337.4	2933.0	2503.0	2268.8	2239.9
57.5°	16751.0	12338.6	2028.1	2105.1	2480.6	3003.6	3215.4	2750.1	2381.1	2195.0	2172.5
60°	16353.1	11497.9	1890.1	2028.1	2339.4	2814.3	3003.6	2644.2	2284.8	2117.9	2101.9
62.5°	15229.9	10201.4	1784.2	1947.9	2195.0	2615.3	2868.9	2515.9	2178.9	2047.3	2024.9
65°	12970.8	8365.9	1697.6	1864.4	2057.0	2426.0	2721.2	2387.5	2063.4	1963.9	1938.2
67.5°	9071.9	5875.7	1604.5	1765.0	1919.0	2243.1	2567.2	2268.8	1944.7	1870.9	1845.2
70°	4434.8	3115.9	1492.2	1649.4	1771.4	2057.0	2413.2	2124.4	1787.4	1745.7	1710.4
72.5°	2111.5	1742.5	1360.6	1492.2	1569.2	1809.9	2156.5	1915.8	1601.3	1511.4	1450.5
75°	1415.2	1238.7	1187.3	1306.1	1325.3	1517.9	1848.4	1652.6	1412.0	1309.3	1257.9
77.5°	1071.8	946.7	998.0	1103.9	1065.4	1248.3	1521.1	1472.9	1274.0	1180.9	1155.2
80°	754.1	689.9	792.6	856.8	827.9	1062.2	1370.2	1261.1	1049.3	946.7	927.4
82.5°	474.9	462.1	584.0	593.7	603.3	840.8	1126.4	991.6	815.1	670.7	622.5
85°	237.5	263.1	349.8	349.8	346.6	433.2	641.8	558.4	439.6	349.8	340.2
87.5°	80.2	112.3	150.8	121.9	93.1	73.8	83.4	102.7	109.1	105.9	105.9
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)