

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: P643237

Luminaire Tested: GWS-SA6E-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44381 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

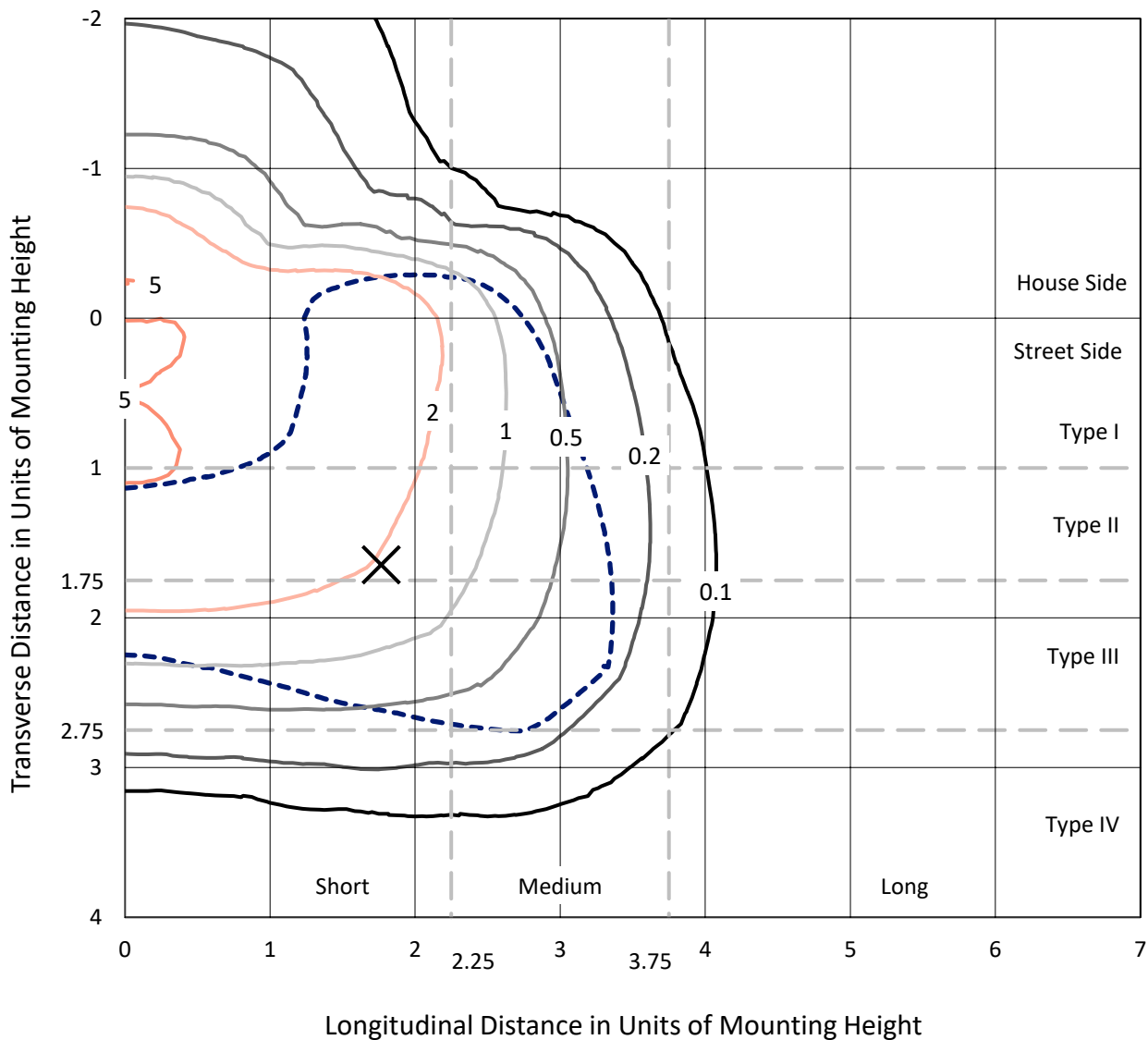
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

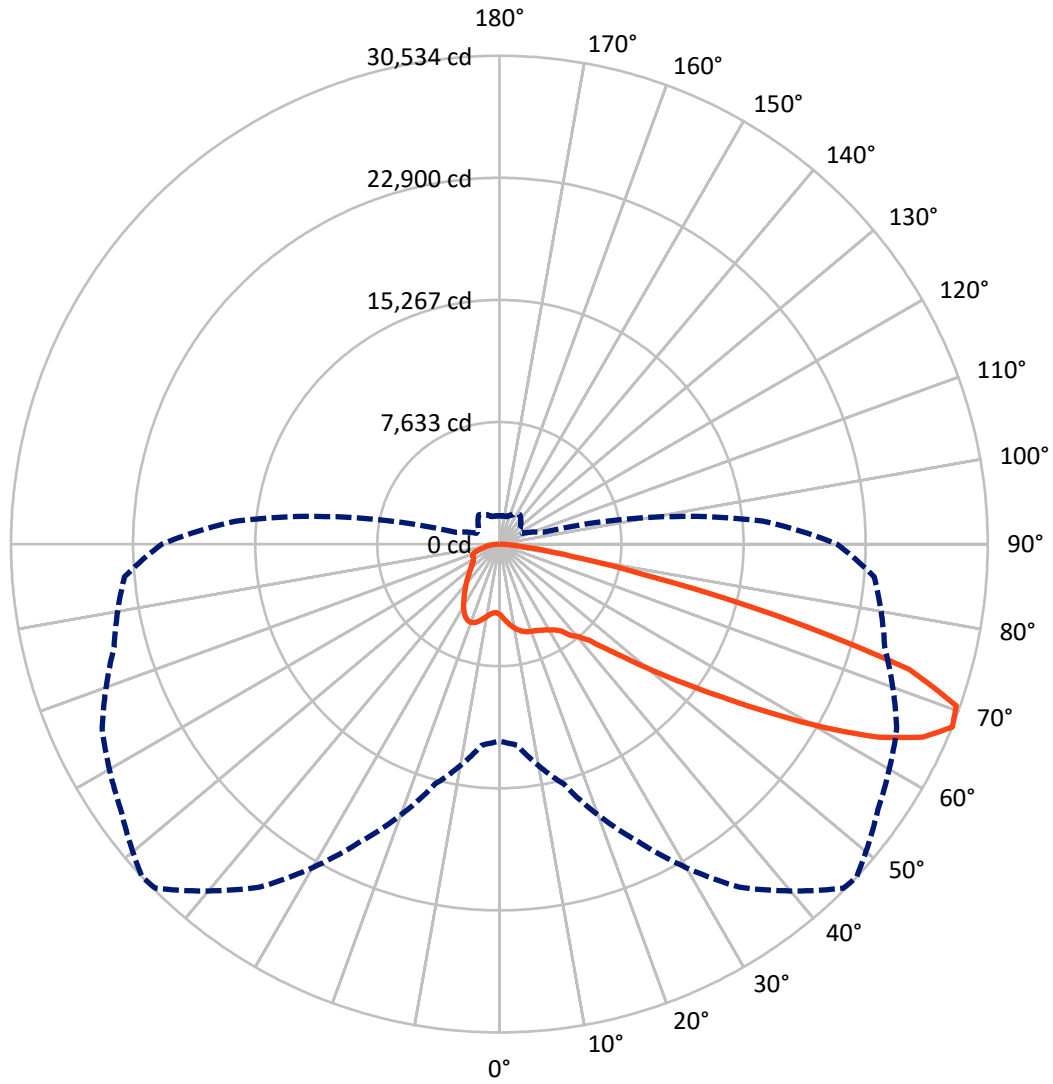
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10114.8	0.0	10114.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	34266.2	0.0	34266.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	44381.0	0.0	44381.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.0
10°-20°	1498.0	3.4
20°-30°	2546.3	5.7
30°-40°	3730.0	8.4
40°-50°	5683.1	12.8
50°-60°	10168.3	22.9
60°-70°	13568.5	30.6
70°-80°	6136.0	13.8
80°-90°	601.2	1.4
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°	44381.0	100.0
0°-180°	44381.0	100.0

Coefficient of Utilization



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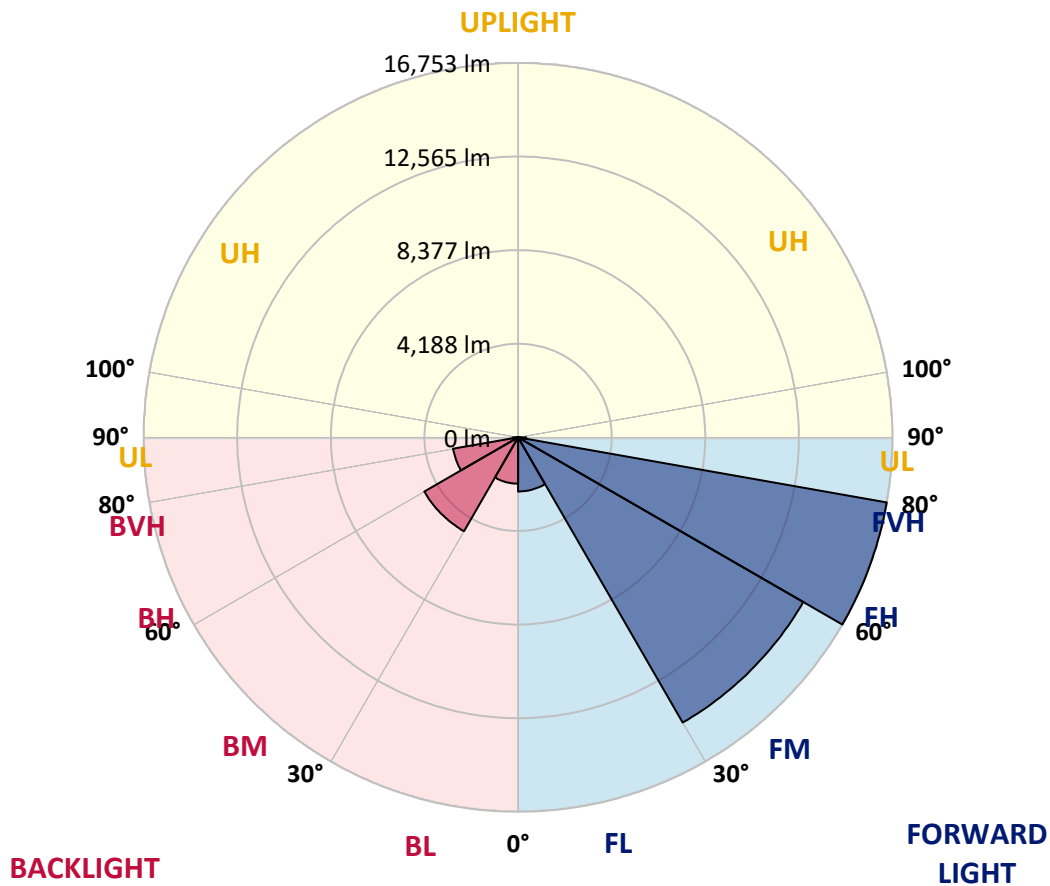
CATALOG NUMBER: GWS-SA6E-740-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2420.4	5.5			
FM (30°-60°)	14734.9	33.2			
FH (60°-80°)	16753.3	37.7			G5
FVH (80°-90°)	357.6	0.8			G3/500
BL (0°-30°)	2073.6	4.7	B3/2500		
BM (30°-60°)	4846.5	10.9	B3/5000		
BH (60°-80°)	2951.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	243.6	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6
2.5°	4691.6	4707.6	4704.4	4678.7	4662.7	4633.8	4637.0	4592.1	4524.7	4479.8	4428.4
5°	5105.5	5131.2	5099.1	5057.4	4993.2	4900.2	4890.5	4787.9	4659.5	4569.6	4476.6
7.5°	5465.0	5481.0	5442.5	5371.9	5278.8	5153.7	5131.2	5009.3	4848.8	4707.6	4572.8
10°	5744.1	5763.4	5712.0	5619.0	5497.0	5371.9	5355.8	5230.7	5060.6	4893.8	4723.7
12.5°	5981.6	5988.0	5933.5	5808.3	5676.8	5548.4	5532.3	5416.8	5259.6	5089.5	4903.4
15°	6119.6	6122.8	6055.4	5917.4	5792.3	5680.0	5670.3	5570.9	5426.4	5266.0	5067.0
17.5°	6110.0	6116.4	6068.3	5946.3	5837.2	5769.8	5760.2	5696.0	5583.7	5439.3	5240.3
20°	5991.2	5997.7	5965.6	5885.3	5827.6	5808.3	5811.5	5792.3	5724.9	5606.2	5404.0
22.5°	5898.2	5907.8	5878.9	5821.2	5814.7	5859.7	5869.3	5878.9	5846.8	5740.9	5545.2
25°	5943.1	5959.1	5914.2	5834.0	5846.8	5946.3	5965.6	5997.7	5972.0	5882.1	5712.0
27.5°	6254.4	6264.0	6148.5	5984.8	5946.3	6052.2	6081.1	6132.4	6113.2	6029.7	5898.2
30°	6976.4	6970.0	6722.9	6321.8	6161.3	6203.0	6225.5	6299.3	6305.7	6251.2	6126.0
32.5°	7993.7	7961.6	7579.7	6941.1	6475.8	6373.1	6398.8	6498.3	6572.1	6514.3	6344.2
35°	9068.7	9039.8	8619.4	7871.7	7056.6	6700.4	6671.5	6748.6	6860.9	6700.4	6456.5
37.5°	10092.4	10047.4	9617.4	8693.2	7772.2	7274.8	7233.1	7156.1	7088.7	6780.7	6594.5
40°	11228.3	11177.0	10801.5	9755.4	8561.7	7714.5	7608.6	7303.7	7242.8	7047.0	6953.9
42.5°	12441.4	12441.4	12130.1	11100.0	9514.7	8343.4	8205.5	7746.6	7810.7	7682.4	7573.3
45°	13654.4	13689.7	13442.6	12454.2	10788.7	9530.8	9309.4	8657.9	8812.0	8754.2	8699.6
47.5°	14687.7	14755.1	14706.9	13837.3	12348.3	10974.8	10637.9	9960.8	10291.3	10429.3	10583.3
50°	15801.2	15875.0	15826.9	15483.5	14174.2	12723.8	12422.1	11722.5	12290.5	12704.5	13208.3
52.5°	17453.8	17559.7	17158.6	17027.0	16391.7	14710.1	14440.6	13644.7	14674.8	15361.6	16484.7
55°	18849.8	18846.6	18705.4	19007.0	18772.7	17139.4	16840.9	16118.9	17434.6	18163.0	19806.0
57.5°	19498.0	19575.0	20059.6	20913.2	21381.7	20107.7	19822.1	19084.0	20396.5	20775.2	22549.8
60°	19831.7	19928.0	20865.0	22553.0	23814.1	23348.8	23236.5	22296.2	23034.3	22989.4	24863.5
62.5°	19363.2	19555.7	21060.8	23303.9	25550.2	26606.0	26570.7	25149.1	25277.4	24837.8	26297.9
65°	17213.2	17421.8	19783.6	22928.4	26541.8	29083.3	29092.9	27732.3	27000.7	25736.3	26057.2
67.5°	12309.8	12608.2	15528.4	20515.2	26192.0	30421.5	30533.8	28903.6	27405.0	24940.5	23528.5
70°	6710.1	6928.3	9216.3	14912.3	23040.7	30100.6	30309.2	28338.8	25620.8	21574.2	18111.7
72.5°	3048.6	3119.2	4287.2	8183.0	15740.2	25909.6	26782.5	25290.3	21041.5	15936.0	11517.2
75°	1395.9	1428.0	1867.6	3915.0	8224.7	17338.3	17951.2	18836.9	14642.7	10063.5	6004.1
77.5°	876.1	885.7	1062.2	1790.6	4101.1	8654.7	9299.7	11215.5	8574.5	4980.4	2509.5
80°	516.7	526.3	661.1	969.1	1925.4	3959.9	4572.8	4434.9	4030.5	2150.0	1142.4
82.5°	259.9	269.6	381.9	552.0	1049.3	1575.6	1854.8	1864.4	1501.8	1164.9	645.0
85°	93.1	96.3	125.2	218.2	446.1	519.9	580.8	709.2	734.9	677.1	311.3
87.5°	0.0	0.0	3.2	6.4	12.8	51.3	54.6	102.7	215.0	240.7	125.2
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°	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6	4399.6
2.5°	4412.4	4364.3	4348.2	4332.2	4306.5	4296.9	4277.6	4258.4	4258.4	4239.1	4229.5
5°	4434.9	4370.7	4329.0	4309.7	4293.7	4303.3	4303.3	4309.7	4332.2	4319.3	4325.8
7.5°	4515.1	4441.3	4383.5	4367.5	4367.5	4406.0	4431.7	4463.7	4505.5	4511.9	4511.9
10°	4656.3	4569.6	4508.7	4499.0	4515.1	4569.6	4608.1	4646.7	4698.0	4701.2	4707.6
12.5°	4810.3	4723.7	4662.7	4675.5	4691.6	4762.2	4803.9	4836.0	4887.3	4887.3	4884.1
15°	4970.8	4874.5	4823.2	4848.8	4897.0	4977.2	4983.6	4986.8	5012.5	5006.1	5002.9
17.5°	5137.6	5034.9	4996.4	5034.9	5086.3	5124.8	5092.7	5047.8	5038.2	5025.3	5018.9
20°	5301.3	5195.4	5179.4	5208.2	5224.3	5192.2	5092.7	5009.3	4970.8	4951.5	4945.1
22.5°	5442.5	5352.6	5343.0	5343.0	5262.8	5150.5	5002.9	4890.5	4839.2	4813.5	4807.1
25°	5609.4	5525.9	5509.9	5423.2	5217.9	5012.5	4813.5	4710.8	4669.1	4656.3	4659.5
27.5°	5805.1	5747.3	5696.0	5448.9	5089.5	4768.6	4544.0	4499.0	4483.0	4499.0	4508.7
30°	6045.8	5988.0	5872.5	5416.8	4884.1	4450.9	4235.9	4232.7	4280.8	4322.5	4329.0
32.5°	6241.5	6215.9	6026.5	5314.1	4595.3	4101.1	3918.2	3931.0	4017.7	4075.5	4085.1
35°	6395.6	6437.3	6154.9	5144.1	4251.9	3770.6	3626.2	3632.6	3680.7	3761.0	3764.2
37.5°	6613.8	6755.0	6270.4	4884.1	3857.2	3485.0	3353.4	3305.3	3298.9	3321.3	3327.8
40°	7053.4	7265.2	6353.9	4505.5	3475.4	3228.3	3080.7	2987.6	2907.4	2846.4	2827.1
42.5°	7717.7	7961.6	6402.0	4046.6	3135.2	2974.8	2807.9	2689.2	2548.0	2419.6	2374.7
45°	8937.1	9017.3	6402.0	3558.8	2833.6	2737.3	2570.4	2429.2	2249.5	2098.7	2066.6
47.5°	10888.2	10631.5	6408.4	3087.1	2567.2	2528.7	2384.3	2223.8	2024.9	1899.7	1880.5
50°	13827.7	12925.9	6540.0	2695.6	2345.8	2352.2	2246.3	2069.8	1890.1	1797.0	1781.0
52.5°	17158.6	15753.1	6893.0	2406.8	2159.7	2207.8	2150.0	1980.0	1819.5	1739.3	1723.2
55°	20290.6	18352.4	7194.6	2201.4	2002.4	2085.9	2082.7	1925.4	1781.0	1700.8	1691.2
57.5°	22954.1	20133.4	7149.7	2034.5	1867.6	1973.5	2021.7	1890.1	1755.3	1687.9	1678.3
60°	24609.9	21076.8	6511.1	1880.5	1765.0	1893.3	1986.4	1880.5	1768.2	1752.1	1755.3
62.5°	25328.8	20903.5	5285.3	1765.0	1697.6	1854.8	2024.9	1947.9	1886.9	1925.4	1947.9
65°	24212.0	19414.5	3889.3	1678.3	1633.4	1864.4	2114.7	2053.8	1886.9	1912.6	1922.2
67.5°	21112.1	16526.4	2811.1	1591.7	1553.2	1893.3	2243.1	2037.7	1777.8	1777.8	1758.5
70°	15213.9	11886.2	2040.9	1505.0	1472.9	1851.6	2249.5	1928.6	1652.6	1643.0	1594.9
72.5°	9155.3	7011.7	1591.7	1408.8	1351.0	1643.0	2108.3	1800.3	1530.7	1450.5	1392.7
75°	4755.8	3513.9	1335.0	1302.9	1158.5	1392.7	1928.6	1601.3	1309.3	1238.7	1206.6
77.5°	2037.7	1643.0	1145.6	1161.7	962.7	1171.3	1556.4	1386.3	1161.7	1071.8	1042.9
80°	1004.4	933.8	904.9	930.6	770.2	904.9	1341.4	1213.0	985.2	882.5	840.8
82.5°	574.4	545.5	651.4	661.1	548.7	757.3	1132.8	1026.9	815.1	702.8	635.4
85°	266.3	285.6	394.7	397.9	340.2	519.9	741.3	577.6	433.2	359.4	343.4
87.5°	105.9	125.2	173.3	170.1	99.5	96.3	64.2	35.3	28.9	25.7	22.5
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)