

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: P643225

Luminaire Tested: GWS-SA6E-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45645.4 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

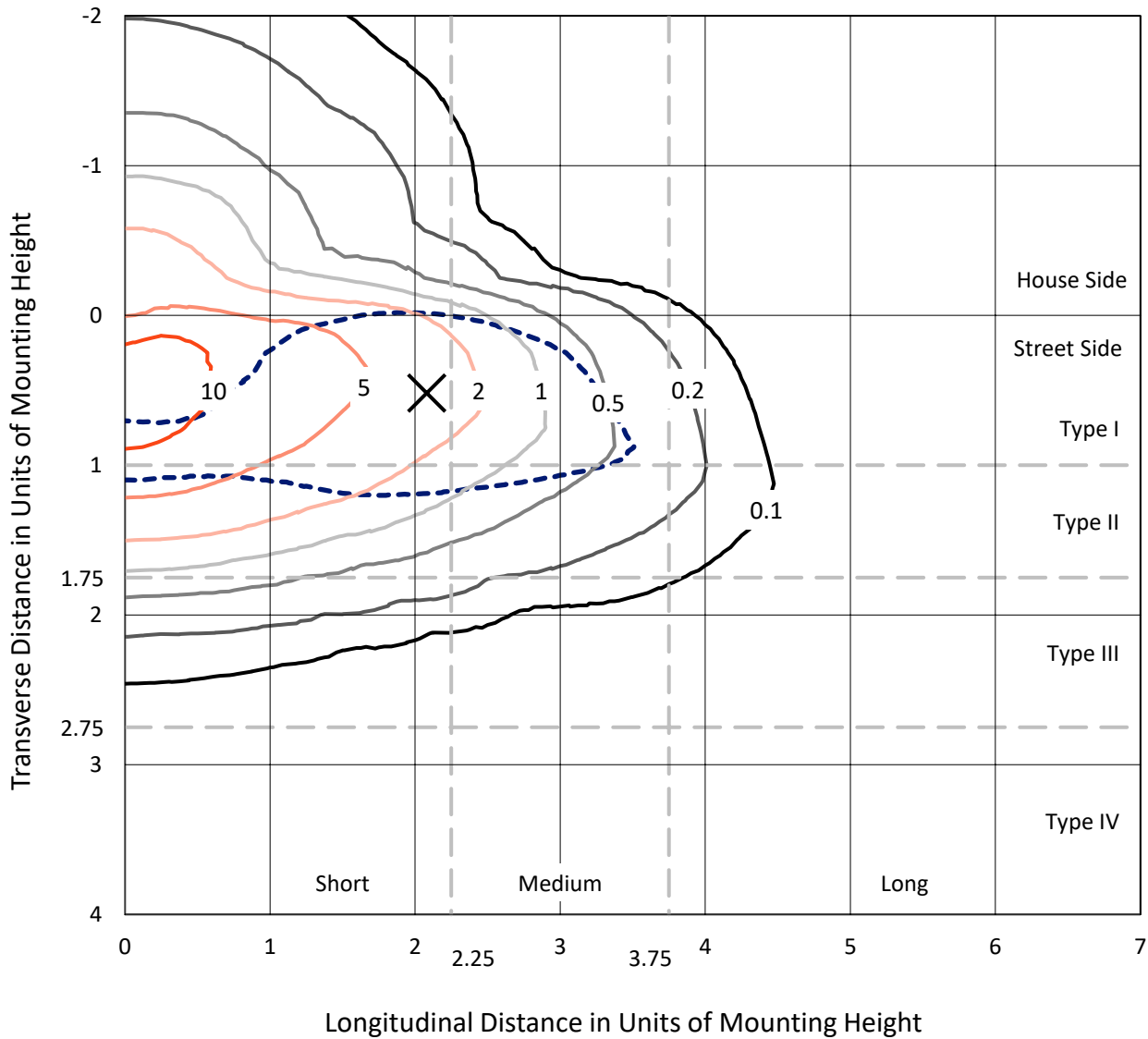
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

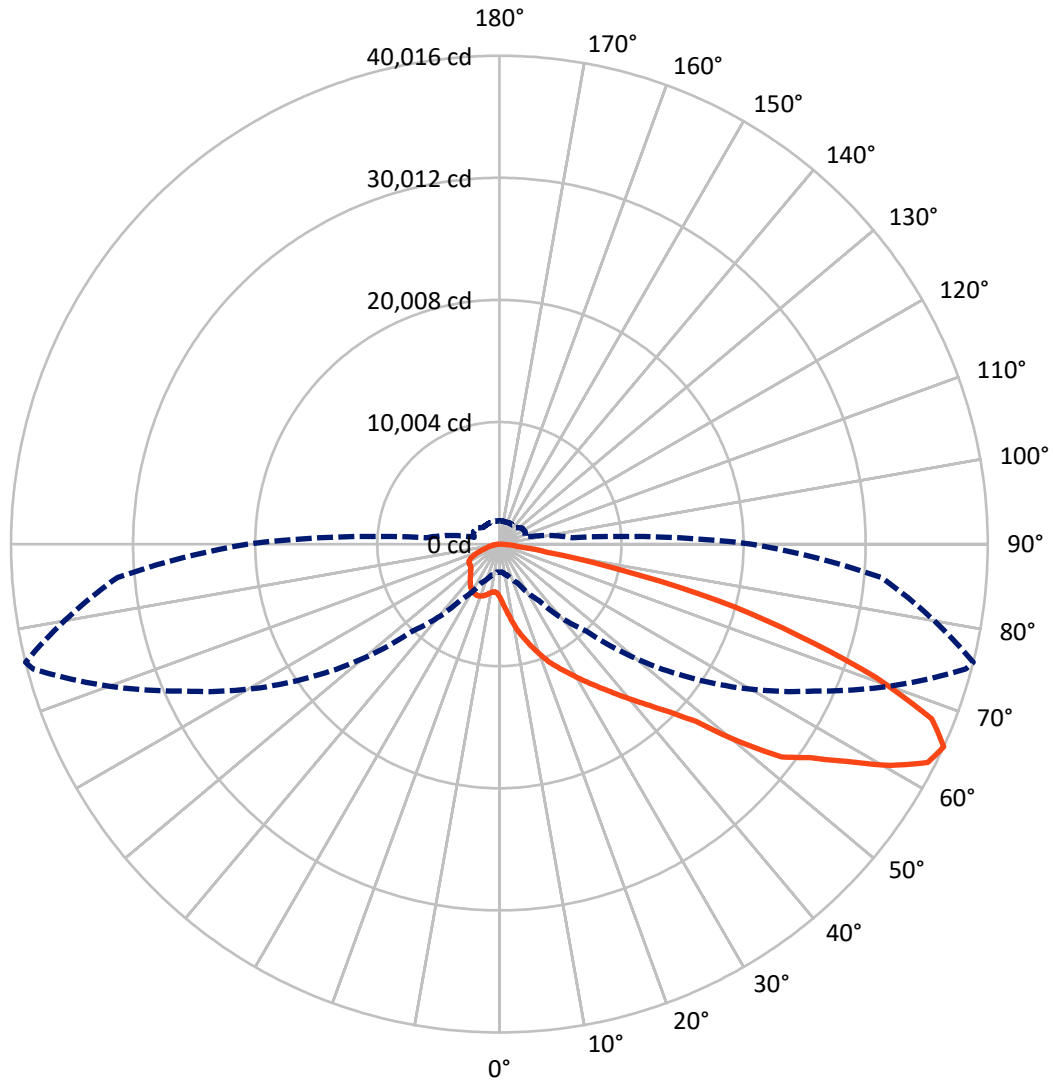
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA6E-740-U-T2R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7629.7	0.0	7629.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	38015.7	0.0	38015.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	45645.4	0.0	45645.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.5	1.1
10°-20°	1956.0	4.3
20°-30°	3811.9	8.4
30°-40°	6375.2	14.0
40°-50°	9128.1	20.0
50°-60°	10806.4	23.7
60°-70°	8985.6	19.7
70°-80°	3677.1	8.1
80°-90°	391.5	0.9
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°	45645.4	100.0
0°-180°	45645.4	100.0

Coefficient of Utilization



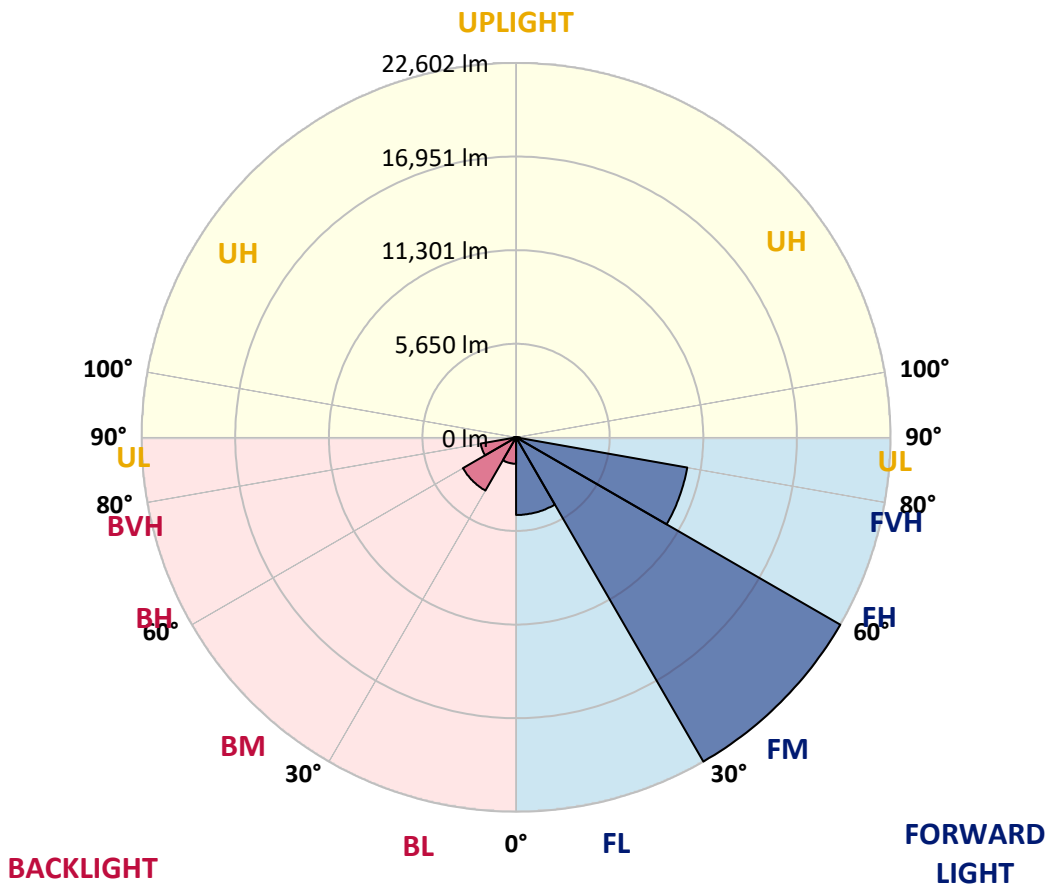
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4685.3	10.3			
FM (30°-60°)	22601.9	49.5			
FH (60°-80°)	10495.0	23.0			G4/12000
FVH (80°-90°)	233.5	0.5			G3/500
BL (0°-30°)	1596.1	3.5	B3/2500		
BM (30°-60°)	3707.9	8.1	B3/5000		
BH (60°-80°)	2167.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	158.0	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5
2.5°	6058.5	6081.0	6007.1	5981.5	5808.2	5573.9	5378.2	5083.0	4810.2	4768.5	4524.6
5°	7695.1	7598.8	7515.4	7460.8	7220.1	6953.8	6539.8	5984.7	5403.9	5333.3	4807.0
7.5°	8667.4	8651.3	8548.6	8516.5	8330.4	8064.1	7637.3	6947.4	6103.4	5987.9	5188.9
10°	9447.1	9437.5	9386.2	9415.0	9245.0	8985.0	8571.1	7858.7	6870.4	6754.8	5615.7
12.5°	10127.4	10143.5	10133.9	10239.7	10153.1	9950.9	9520.9	8738.0	7637.3	7512.1	6135.5
15°	10624.8	10637.7	10685.8	10916.8	10965.0	10923.3	10486.8	9601.2	8394.6	8214.9	6671.4
17.5°	10766.0	10791.7	10907.2	11279.4	11539.4	11712.7	11388.6	10480.4	9139.1	8943.3	7216.9
20°	10955.3	10984.2	11099.7	11488.0	11869.9	12264.6	12206.8	11372.5	9890.0	9729.5	7768.9
22.5°	11831.4	11808.9	11757.6	11943.7	12216.5	12707.4	12851.8	12229.3	10666.5	10512.5	8378.6
25°	13519.3	13477.6	13150.3	12980.2	12890.3	13188.8	13445.5	13009.1	11423.8	11192.8	8946.5
27.5°	15380.5	15358.0	14940.9	14536.5	13984.6	13856.2	14007.1	13689.4	12158.7	11924.4	9440.7
30°	17142.2	17074.8	16638.4	16131.4	15393.3	14841.4	14620.0	14356.8	12964.1	12720.3	10018.3
32.5°	18717.8	18631.1	18117.7	17556.1	16782.8	16131.4	15470.3	15066.0	13875.5	13593.1	10608.8
35°	20011.0	19924.3	19398.1	18801.2	17950.8	17469.5	16564.6	15836.1	14802.9	14517.3	11305.1
37.5°	21012.2	20932.0	20383.2	19796.0	19054.7	18672.9	17886.7	16702.6	15871.4	15573.0	12043.2
40°	21573.7	21516.0	21076.4	20611.1	19988.5	19658.0	19305.0	17796.8	17068.4	16770.0	12912.8
42.5°	21743.8	21705.3	21397.3	21156.6	20736.2	20485.9	20688.1	19083.6	18345.5	18085.6	13891.5
45°	21317.0	21317.0	21227.2	21349.1	21368.4	21365.2	22074.3	20537.3	19914.7	19629.1	15271.4
47.5°	20226.0	20296.6	20428.2	21028.2	21660.4	22189.9	23694.9	22475.5	21933.1	21698.9	17225.6
50°	18230.0	18422.6	18871.8	20043.1	21387.6	22735.4	25228.7	25341.0	25857.7	25443.7	20100.8
52.5°	15306.7	15277.8	16423.4	18092.0	20142.6	22757.8	26072.7	27869.7	29259.2	28973.6	22238.0
55°	12165.1	12117.0	13185.6	15486.4	18233.2	21897.8	26579.7	29028.1	31146.0	30889.3	24160.2
57.5°	9315.6	9254.6	10204.4	12280.6	15537.7	20072.0	26483.4	30408.0	33742.1	33610.5	26772.2
60°	6411.5	6337.7	7226.5	9042.8	12348.0	17280.2	25418.1	31117.2	36780.9	36825.9	29567.2
62.5°	3850.7	3809.0	4454.0	5862.7	8882.4	13820.9	22924.7	30687.2	39200.5	39402.7	31364.2
65°	2323.3	2294.4	2673.1	3497.8	5634.9	10085.7	19080.4	28489.0	39550.3	40015.6	31406.0
67.5°	1691.1	1694.3	1803.4	2130.7	3286.0	6514.2	14318.3	24548.4	37727.6	38208.9	29426.0
70°	1469.7	1476.1	1533.9	1607.7	1986.3	3728.8	9309.2	19378.8	32339.8	32712.0	24680.0
72.5°	1306.0	1306.0	1344.5	1383.1	1553.1	2271.9	4986.7	13545.0	25524.0	25623.4	18836.5
75°	1148.8	1139.2	1158.4	1177.7	1347.8	1588.4	2426.0	9437.5	18852.6	18621.5	12174.7
77.5°	914.5	904.9	908.1	927.4	1081.4	1136.0	1229.0	5894.8	10624.8	10028.0	5378.2
80°	651.4	645.0	680.3	728.4	799.0	696.3	770.1	2852.8	4213.3	3921.3	2085.8
82.5°	388.3	401.1	455.7	494.2	551.9	436.4	497.4	953.1	1492.2	1453.7	847.2
85°	54.6	57.8	163.7	189.3	237.5	170.1	263.1	430.0	596.9	638.6	298.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	22.5	77.0	170.1	173.3	73.8
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°	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5	4322.5
2.5°	4399.5	4248.6	4033.6	3853.9	3703.1	3581.2	3478.5	3401.5	3379.0	3346.9	3346.9
5°	4559.9	4287.2	3902.1	3629.3	3472.1	3379.0	3314.8	3282.8	3266.7	3247.5	3237.8
7.5°	4781.3	4399.5	3879.6	3603.6	3481.7	3423.9	3382.2	3363.0	3350.1	3330.9	3330.9
10°	5086.2	4566.3	3950.2	3693.5	3597.2	3539.5	3491.3	3459.2	3430.4	3401.5	3395.1
12.5°	5416.7	4784.5	4078.6	3815.4	3712.8	3642.2	3574.8	3526.6	3491.3	3456.0	3446.4
15°	5782.5	5009.2	4216.6	3934.2	3805.8	3709.5	3629.3	3555.5	3507.4	3456.0	3449.6
17.5°	6141.9	5237.0	4332.1	4014.4	3850.7	3732.0	3616.5	3520.2	3459.2	3401.5	3385.4
20°	6571.9	5464.8	4412.3	4036.9	3841.1	3683.9	3545.9	3423.9	3356.6	3289.2	3279.5
22.5°	6966.6	5676.6	4450.8	4004.8	3767.3	3581.2	3420.7	3289.2	3215.4	3148.0	3135.1
25°	7348.5	5862.7	4434.8	3927.8	3655.0	3440.0	3273.1	3141.6	3071.0	3000.4	2981.1
27.5°	7717.5	5987.9	4370.6	3809.0	3513.8	3282.8	3122.3	3003.6	2942.6	2881.6	2856.0
30°	8080.1	6103.4	4271.1	3655.0	3334.1	3119.1	2987.5	2904.1	2843.1	2778.9	2759.7
32.5°	8445.9	6186.8	4120.3	3475.3	3151.2	2974.7	2894.5	2833.5	2769.3	2705.1	2685.9
35°	8815.0	6222.1	3937.4	3269.9	2997.2	2881.6	2852.8	2782.2	2695.5	2618.5	2592.8
37.5°	9254.6	6254.2	3709.5	3067.8	2862.4	2836.7	2830.3	2724.4	2621.7	2515.8	2486.9
40°	9784.1	6296.0	3475.3	2884.8	2753.3	2820.7	2795.0	2650.6	2445.2	2342.5	2310.4
42.5°	10432.3	6373.0	3231.4	2718.0	2673.1	2759.7	2730.8	2470.9	2332.9	2275.1	2259.1
45°	11385.3	6655.4	2987.5	2586.4	2612.1	2673.1	2628.1	2365.0	2310.4	2271.9	2252.7
47.5°	13082.9	7088.6	2775.7	2486.9	2563.9	2596.0	2422.8	2336.1	2294.4	2243.1	2220.6
50°	14847.8	7277.9	2605.7	2426.0	2509.4	2525.4	2310.4	2297.6	2268.7	2214.2	2191.7
52.5°	16041.5	7252.2	2503.0	2403.5	2464.5	2403.5	2259.1	2255.9	2236.6	2172.5	2146.8
55°	17389.3	7297.1	2458.1	2409.9	2445.2	2198.1	2194.9	2204.5	2194.9	2124.3	2111.5
57.5°	19208.8	7435.1	2435.6	2432.4	2432.4	2098.7	2133.9	2146.8	2127.5	2095.4	2085.8
60°	20957.6	7444.8	2393.9	2458.1	2422.8	2037.7	2063.4	2076.2	2053.7	2047.3	2044.1
62.5°	21615.5	6982.7	2300.8	2438.8	2384.2	1970.3	1989.5	1996.0	1973.5	1989.5	1986.3
65°	20636.7	6000.7	2146.8	2345.7	2265.5	1909.3	1896.5	1912.5	1874.0	1915.7	1918.9
67.5°	18323.1	4768.5	1912.5	2169.2	2098.7	1841.9	1816.3	1816.3	1752.1	1816.3	1813.1
70°	14774.0	3369.4	1569.2	1886.9	1915.7	1761.7	1748.9	1675.1	1572.4	1668.7	1659.0
72.5°	11199.2	2419.5	1235.4	1492.2	1649.4	1649.4	1652.6	1527.5	1408.7	1453.7	1415.1
75°	7095.0	1704.0	988.4	1142.4	1293.2	1447.2	1521.0	1290.0	1184.1	1164.8	1145.6
77.5°	3196.1	1119.9	770.1	876.0	917.8	1142.4	1389.5	1110.3	965.9	924.2	911.3
80°	1338.1	696.3	548.7	619.3	564.8	959.5	1225.8	863.2	709.2	651.4	609.7
82.5°	587.2	414.0	349.8	333.7	353.0	712.4	914.5	574.4	442.8	600.1	606.5
85°	247.1	218.2	179.7	163.7	144.4	272.8	430.0	224.6	276.0	157.2	128.4
87.5°	57.8	64.2	48.1	32.1	19.3	3.2	0.0	0.0	0.0	0.0	0.0
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)