

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: P643280

Luminaire Tested: GWS-SA6E-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643280
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-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46691.4 lumens
Efficiency: N/A
Efficacy: 144.2 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

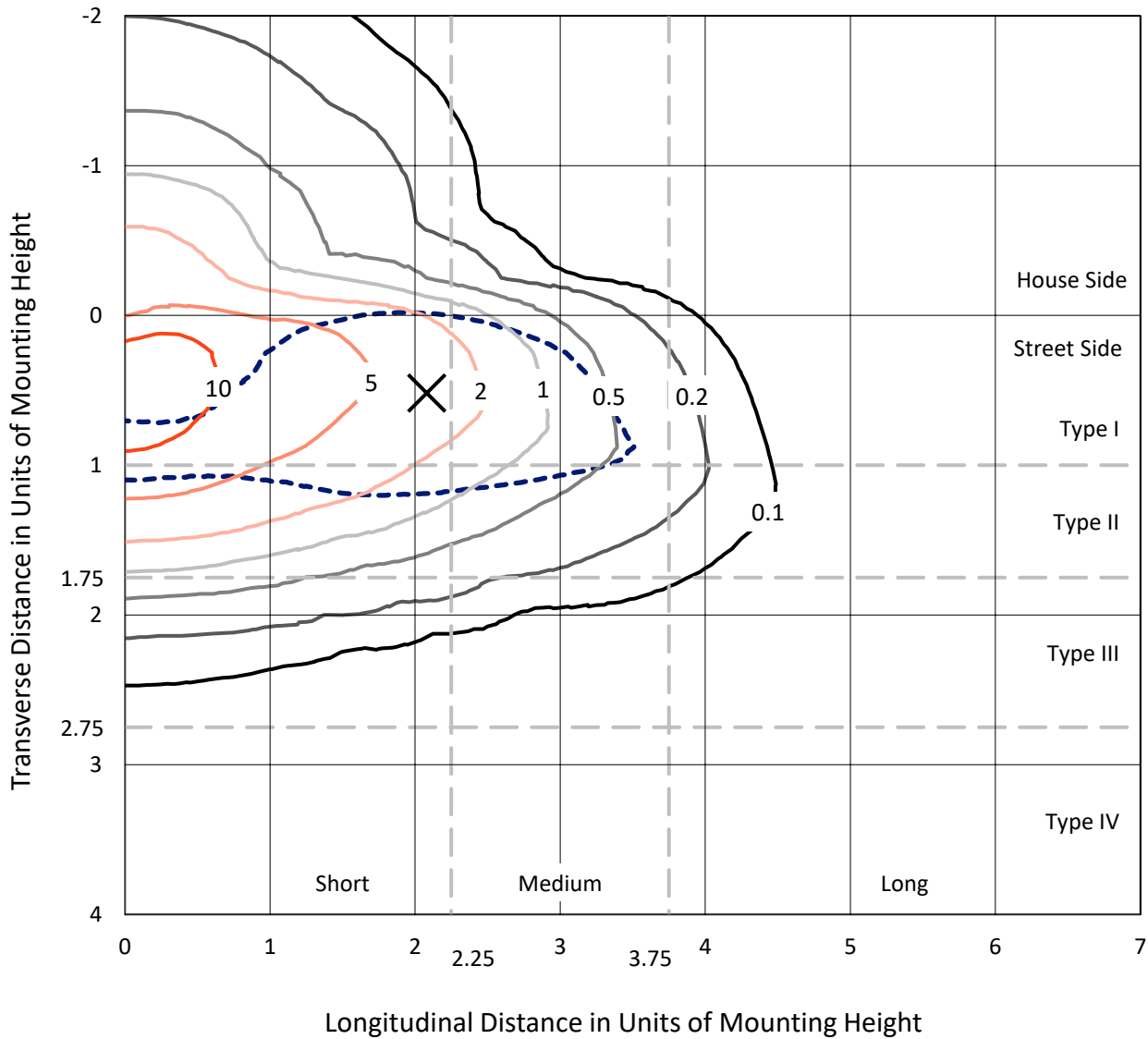


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Iso-Footcandle Lines of Horizontal Illumination

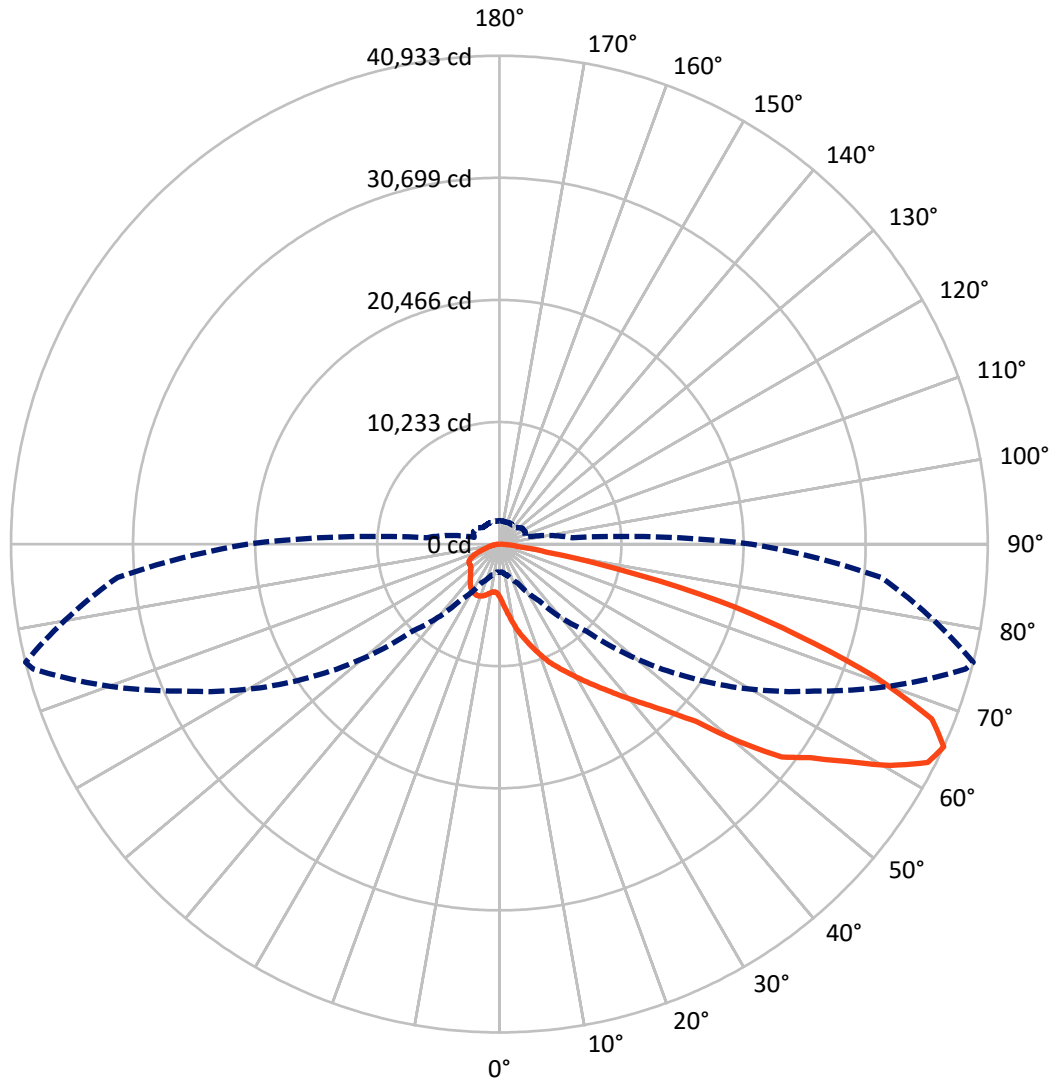
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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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	7804.5	0.0	7804.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	38886.9	0.0	38886.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	46691.4	0.0	46691.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.3	1.1
10°-20°	2000.8	4.3
20°-30°	3899.3	8.4
30°-40°	6521.3	14.0
40°-50°	9337.3	20.0
50°-60°	11054.0	23.7
60°-70°	9191.5	19.7
70°-80°	3761.4	8.1
80°-90°	400.5	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°	46691.4	100.0
0°-180°	46691.4	100.0

Coefficient of Utilization



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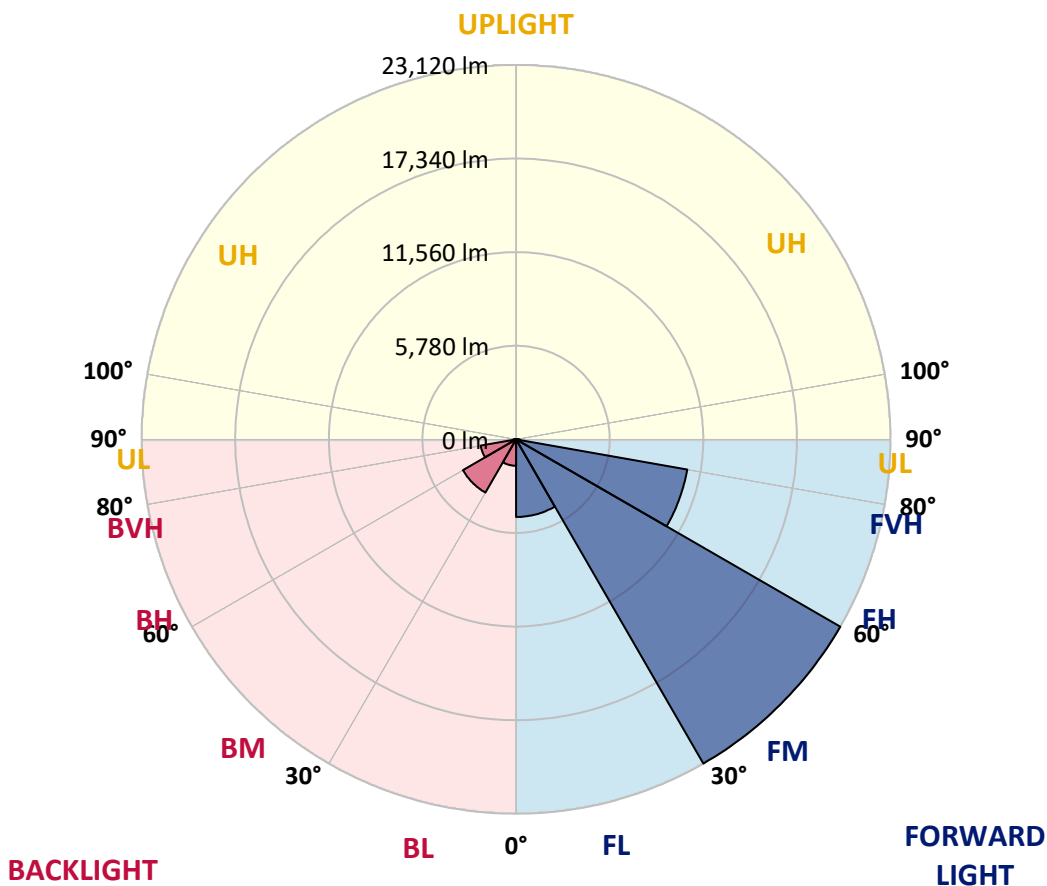
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4792.7	10.3			
FM (30°-60°)	23119.8	49.5			
FH (60°-80°)	10735.5	23.0			G4/12000
FVH (80°-90°)	238.8	0.5			G3/500
BL (0°-30°)	1632.7	3.5	B3/2500		
BM (30°-60°)	3792.8	8.1	B3/5000		
BH (60°-80°)	2217.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	161.6	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°	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5
2.5°	6197.3	6220.3	6144.8	6118.5	5941.3	5701.7	5501.4	5199.5	4920.4	4877.8	4628.3
5°	7871.4	7772.9	7687.6	7631.8	7385.6	7113.1	6689.7	6121.8	5527.7	5455.5	4917.2
7.5°	8866.0	8849.6	8744.5	8711.7	8521.3	8248.9	7812.3	7106.6	6243.3	6125.1	5307.8
10°	9663.6	9653.8	9601.3	9630.8	9456.8	9190.9	8767.5	8038.8	7027.8	6909.6	5744.3
12.5°	10359.5	10375.9	10366.1	10474.4	10385.8	10179.0	9739.1	8938.2	7812.3	7684.3	6276.1
15°	10868.3	10881.4	10930.7	11167.0	11216.2	11173.6	10727.2	9821.2	8587.0	8403.2	6824.3
17.5°	11012.7	11039.0	11157.2	11537.9	11803.8	11981.1	11649.5	10720.6	9348.5	9148.3	7382.3
20°	11206.4	11235.9	11354.1	11751.3	12141.9	12545.6	12486.6	11633.1	10116.6	9952.5	7946.9
22.5°	12102.5	12079.5	12027.0	12217.4	12496.4	12998.6	13146.3	12509.5	10911.0	10753.4	8570.6
25°	13829.1	13786.4	13451.6	13277.6	13185.7	13491.0	13753.6	13307.2	11685.6	11449.3	9151.6
27.5°	15732.9	15710.0	15283.2	14869.6	14305.1	14173.8	14328.0	14003.1	12437.3	12197.7	9657.1
30°	17535.0	17466.1	17019.7	16501.0	15746.1	15181.5	14955.0	14685.8	13261.2	13011.8	10247.9
32.5°	19146.7	19058.1	18532.9	17958.5	17167.4	16501.0	15824.8	15411.3	14193.5	13904.6	10851.9
35°	20469.6	20380.9	19842.6	19232.1	18362.2	17869.8	16944.2	16199.0	15142.1	14849.9	11564.2
37.5°	21493.7	21411.6	20850.3	20249.6	19491.4	19100.8	18296.6	17085.3	16235.2	15929.9	12319.2
40°	22068.1	22009.0	21559.3	21083.4	20446.6	20108.5	19747.4	18204.6	17459.5	17154.2	13208.7
42.5°	22242.1	22202.7	21887.6	21641.4	21211.4	20955.4	21162.2	19520.9	18765.9	18500.1	14209.9
45°	21805.5	21805.5	21713.6	21838.4	21858.0	21854.8	22580.2	21007.9	20371.1	20078.9	15621.3
47.5°	20689.5	20761.7	20896.3	21510.1	22156.8	22698.4	24237.8	22990.5	22435.8	22196.1	17620.4
50°	18647.8	18844.7	19304.3	20502.4	21877.7	23256.4	25806.9	25921.8	26450.2	26026.8	20561.5
52.5°	15657.4	15627.9	16799.7	18506.6	20604.1	23279.4	26670.2	28508.4	29929.7	29637.5	22747.6
55°	12443.9	12394.7	13487.7	15841.3	18651.1	22399.7	27188.8	29693.3	31859.8	31597.2	24713.8
57.5°	9529.0	9466.7	10438.3	12562.1	15893.8	20531.9	27090.3	31104.8	34515.3	34380.7	27385.7
60°	6558.4	6482.9	7392.1	9250.0	12631.0	17676.2	26000.5	31830.2	37623.8	37669.8	30244.8
62.5°	3939.0	3896.3	4556.1	5997.1	9085.9	14137.6	23450.1	31390.4	40098.8	40305.6	32083.0
65°	2376.5	2347.0	2734.3	3577.9	5764.0	10316.8	19517.6	29141.9	40456.6	40932.5	32125.6
67.5°	1729.9	1733.2	1844.8	2179.6	3361.3	6663.4	14646.4	25111.0	38592.1	39084.5	30100.4
70°	1503.4	1509.9	1569.0	1644.5	2031.9	3814.2	9522.5	19822.9	33080.9	33461.6	25245.6
72.5°	1336.0	1336.0	1375.4	1414.7	1588.7	2324.0	5101.0	13855.4	26108.9	26210.6	19268.2
75°	1175.1	1165.3	1185.0	1204.7	1378.6	1624.8	2481.6	9653.8	19284.6	19048.2	12453.7
77.5°	935.5	925.7	928.9	948.6	1106.2	1162.0	1257.2	6029.9	10868.3	10257.8	5501.4
80°	666.3	659.8	695.9	745.1	817.3	712.3	787.8	2918.1	4309.9	4011.2	2133.6
82.5°	397.2	410.3	466.1	505.5	564.6	446.4	508.8	974.9	1526.4	1487.0	866.6
85°	55.8	59.1	167.4	193.7	242.9	174.0	269.2	439.9	610.5	653.2	305.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	23.0	78.8	174.0	177.3	75.5
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°	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5	4421.5
2.5°	4500.3	4346.0	4126.1	3942.3	3788.0	3663.2	3558.2	3479.4	3456.5	3423.6	3423.6
5°	4664.4	4385.4	3991.5	3712.5	3551.6	3456.5	3390.8	3358.0	3341.6	3321.9	3312.0
7.5°	4890.9	4500.3	3968.5	3686.2	3561.5	3502.4	3459.7	3440.0	3426.9	3407.2	3407.2
10°	5202.7	4671.0	4040.7	3778.1	3679.7	3620.6	3571.3	3538.5	3509.0	3479.4	3472.9
12.5°	5540.8	4894.2	4172.0	3902.9	3797.8	3725.6	3656.7	3607.4	3571.3	3535.2	3525.4
15°	5915.0	5124.0	4313.2	4024.3	3893.0	3794.5	3712.5	3637.0	3587.8	3535.2	3528.7
17.5°	6282.7	5357.0	4431.4	4106.4	3939.0	3817.5	3699.4	3600.9	3538.5	3479.4	3463.0
20°	6722.5	5590.1	4513.4	4129.4	3929.1	3768.3	3627.1	3502.4	3433.5	3364.5	3354.7
22.5°	7126.3	5806.7	4552.8	4096.5	3853.6	3663.2	3499.1	3364.5	3289.0	3220.1	3207.0
25°	7516.9	5997.1	4536.4	4017.8	3738.7	3518.8	3348.1	3213.5	3141.3	3069.1	3049.4
27.5°	7894.4	6125.1	4470.7	3896.3	3594.3	3358.0	3193.9	3072.4	3010.0	2947.7	2921.4
30°	8265.3	6243.3	4369.0	3738.7	3410.5	3190.6	3056.0	2970.6	2908.3	2842.6	2822.9
32.5°	8639.5	6328.6	4214.7	3554.9	3223.4	3042.9	2960.8	2898.4	2832.8	2767.1	2747.4
35°	9017.0	6364.7	4027.6	3344.8	3065.8	2947.7	2918.1	2845.9	2757.3	2678.5	2652.2
37.5°	9466.7	6397.6	3794.5	3138.1	2928.0	2901.7	2895.1	2786.8	2681.8	2573.5	2543.9
40°	10008.3	6440.2	3554.9	2951.0	2816.4	2885.3	2859.0	2711.3	2501.3	2396.2	2363.4
42.5°	10671.3	6519.0	3305.5	2780.3	2734.3	2822.9	2793.4	2527.5	2386.4	2327.3	2310.9
45°	11646.2	6807.9	3056.0	2645.7	2671.9	2734.3	2688.4	2419.2	2363.4	2324.0	2304.3
47.5°	13382.7	7251.0	2839.3	2543.9	2622.7	2655.5	2478.3	2389.6	2347.0	2294.5	2271.5
50°	15188.0	7444.7	2665.4	2481.6	2566.9	2583.3	2363.4	2350.3	2320.7	2264.9	2241.9
52.5°	16409.1	7418.4	2560.3	2458.6	2520.9	2458.6	2310.9	2307.6	2287.9	2222.2	2196.0
55°	17787.8	7464.4	2514.4	2465.1	2501.3	2248.5	2245.2	2255.1	2245.2	2173.0	2159.9
57.5°	19648.9	7605.5	2491.4	2488.1	2488.1	2146.7	2182.9	2196.0	2176.3	2143.5	2133.6
60°	21437.9	7615.4	2448.7	2514.4	2478.3	2084.4	2110.6	2123.8	2100.8	2094.2	2090.9
62.5°	22110.8	7142.7	2353.5	2494.7	2438.9	2015.4	2035.1	2041.7	2018.7	2035.1	2031.9
65°	21109.6	6138.2	2196.0	2399.5	2317.4	1953.1	1939.9	1956.4	1917.0	1959.6	1962.9
67.5°	18743.0	4877.8	1956.4	2219.0	2146.7	1884.1	1857.9	1857.9	1792.2	1857.9	1854.6
70°	15112.5	3446.6	1605.1	1930.1	1959.6	1802.1	1789.0	1713.5	1608.4	1706.9	1697.0
72.5°	11455.9	2475.0	1263.8	1526.4	1687.2	1687.2	1690.5	1562.5	1441.0	1487.0	1447.6
75°	7257.6	1743.0	1011.0	1168.6	1322.8	1480.4	1555.9	1319.6	1211.2	1191.5	1171.8
77.5°	3269.4	1145.6	787.8	896.1	938.8	1168.6	1421.3	1135.7	988.0	945.4	932.2
80°	1368.8	712.3	561.3	633.5	577.7	981.5	1253.9	883.0	725.4	666.3	623.7
82.5°	600.7	423.4	357.8	341.4	361.1	728.7	935.5	587.6	453.0	613.8	620.4
85°	252.8	223.2	183.8	167.4	147.7	279.0	439.9	229.8	282.3	160.8	131.3
87.5°	59.1	65.6	49.2	32.8	19.7	3.3	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)