

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: P641691

Luminaire Tested: GWS-SA6B-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18308.3 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

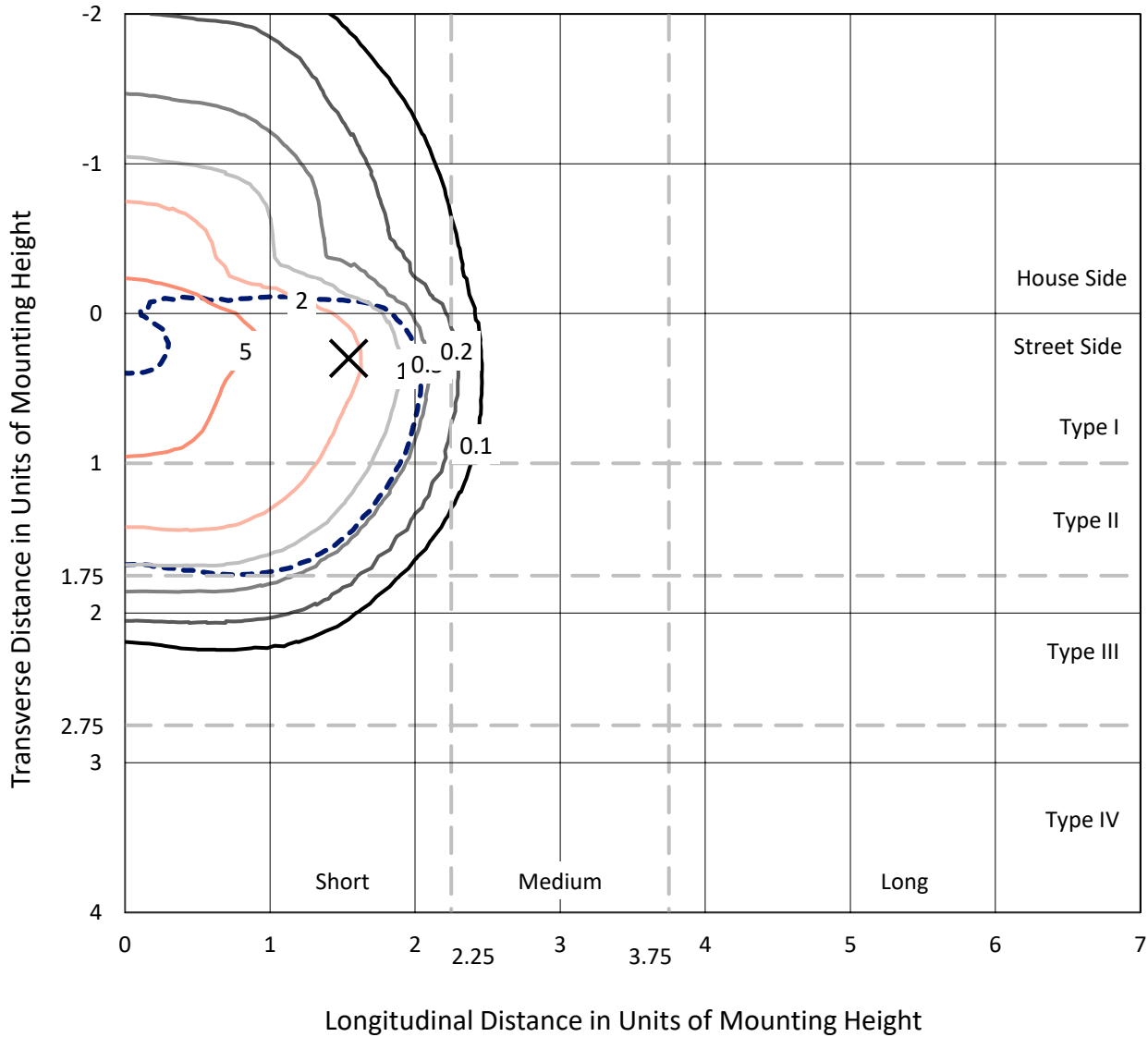
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

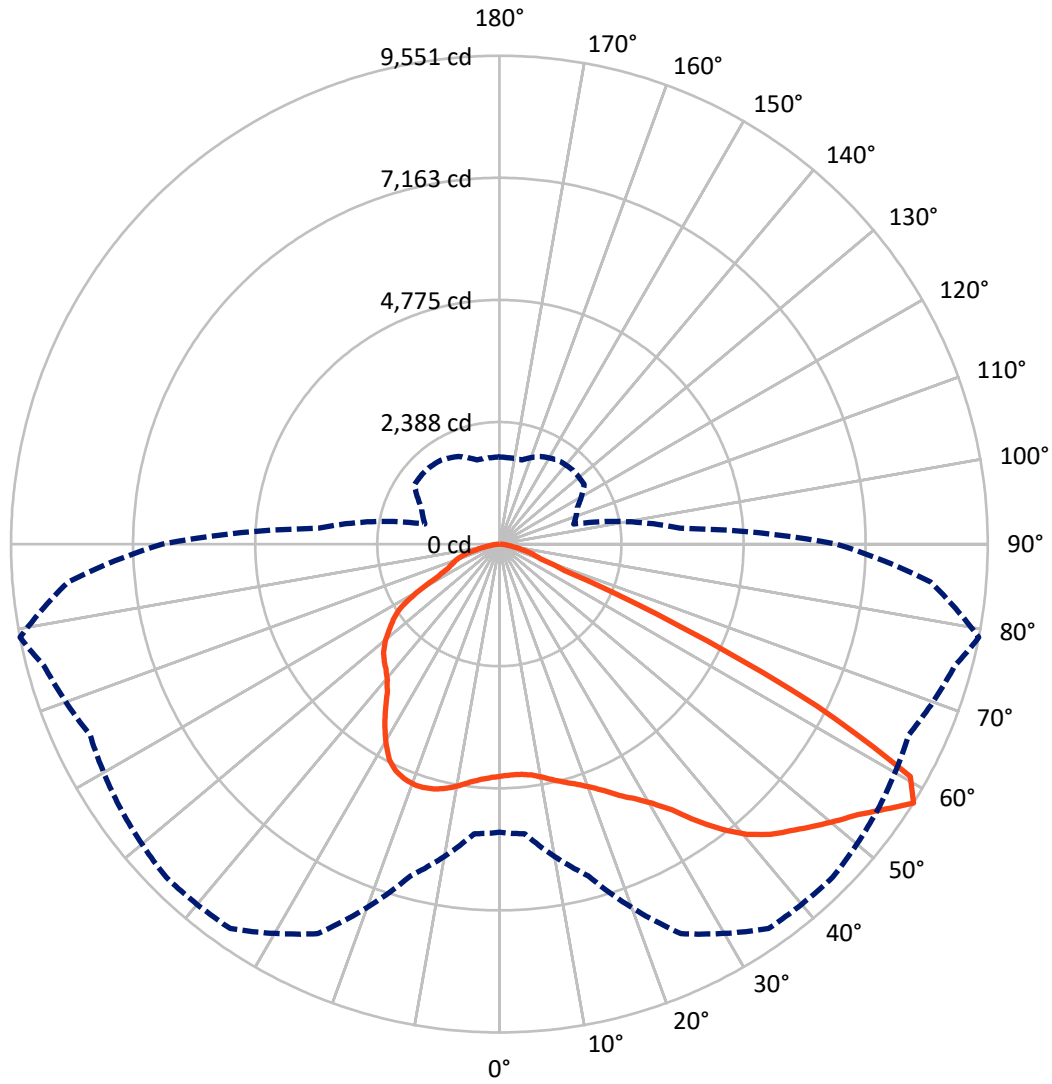
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5442.2	0.0	5442.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	12866.1	0.0	12866.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	18308.3	0.0	18308.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.2	2.3
10°-20°	1167.7	6.4
20°-30°	1979.3	10.8
30°-40°	3029.6	16.5
40°-50°	4039.6	22.1
50°-60°	4665.5	25.5
60°-70°	2424.3	13.2
70°-80°	515.4	2.8
80°-90°	66.7	0.4
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°	18308.3	100.0
0°-180°	18308.3	100.0

Coefficient of Utilization



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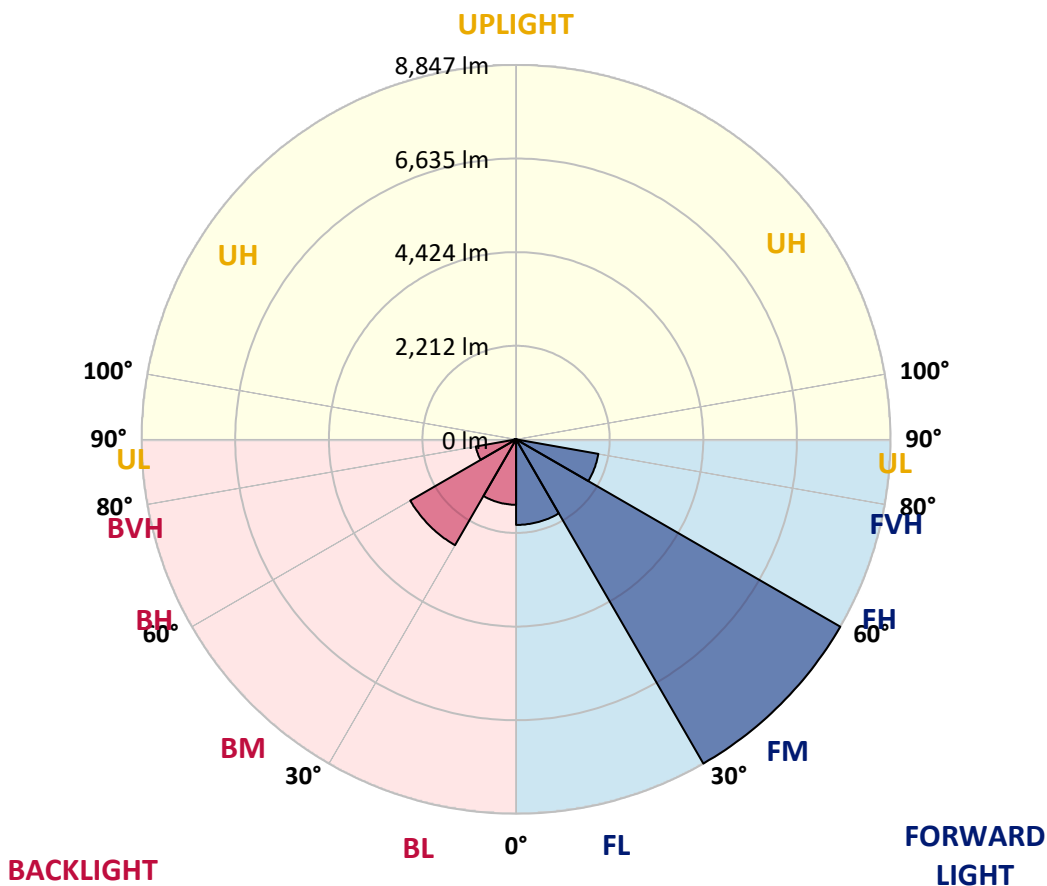
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.6	11.0			
FM (30°-60°)	8847.1	48.3			
FH (60°-80°)	1974.1	10.8			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1545.5	8.4	B3/2500		
BM (30°-60°)	2887.6	15.8	B3/5000		
BH (60°-80°)	965.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	43.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2
2.5°	4330.6	4321.7	4324.7	4336.6	4381.5	4414.5	4448.9	4480.3	4510.3	4519.3	4526.7
5°	4176.5	4160.0	4164.5	4183.9	4236.3	4291.7	4353.1	4427.9	4499.8	4523.7	4555.2
7.5°	4067.2	4064.2	4071.7	4101.6	4157.0	4209.4	4288.7	4395.0	4519.3	4559.7	4615.1
10°	3922.0	3916.0	3945.9	4007.3	4098.6	4182.4	4276.8	4402.5	4576.1	4636.0	4721.3
12.5°	3806.7	3803.7	3835.2	3920.5	4037.2	4170.5	4300.7	4441.4	4652.5	4734.8	4839.6
15°	3874.1	3860.6	3862.1	3922.0	4026.8	4183.9	4360.6	4511.8	4728.8	4833.6	4968.3
17.5°	4070.2	4046.2	4028.3	4038.7	4098.6	4261.8	4451.9	4606.1	4817.1	4939.9	5104.6
20°	4341.1	4327.6	4278.2	4245.3	4258.8	4402.5	4595.6	4739.3	4932.4	5070.1	5246.8
22.5°	4704.9	4671.9	4604.6	4552.2	4511.8	4624.0	4802.2	4926.4	5092.6	5236.3	5420.4
25°	5155.5	5107.6	5001.3	4918.9	4832.1	4947.4	5106.1	5200.4	5312.6	5445.9	5621.0
27.5°	5615.0	5574.6	5456.3	5345.6	5237.8	5309.6	5498.3	5552.1	5540.2	5637.5	5787.2
30°	6104.5	6053.6	5941.3	5821.6	5682.4	5728.8	5897.9	5924.9	5797.6	5878.5	5980.3
32.5°	6621.0	6571.6	6474.3	6335.0	6177.9	6195.8	6242.2	6267.7	6146.4	6192.8	6270.7
35°	7146.4	7100.0	7001.2	6863.5	6748.2	6638.9	6522.2	6624.0	6553.6	6643.4	6637.4
37.5°	7626.9	7580.5	7519.1	7412.8	7215.2	6999.7	6730.2	6856.0	6965.3	7079.0	7059.6
40°	7951.7	7920.3	7935.3	7918.8	7664.3	7237.7	6832.0	6969.7	7267.6	7462.2	7451.8
42.5°	8231.7	8200.2	8287.1	8349.9	8050.5	7457.7	6881.4	7013.2	7460.7	7764.6	7749.6
45°	8355.9	8346.9	8490.6	8689.7	8403.8	7691.3	7008.7	7103.0	7607.4	7996.6	7939.8
47.5°	8207.7	8239.1	8522.1	8858.9	8697.2	7968.2	7269.1	7293.1	7799.0	8248.1	8088.0
50°	7912.8	7981.7	8363.4	8863.4	8911.3	8281.1	7629.9	7570.0	8056.5	8516.1	8165.8
52.5°	7483.2	7555.0	8177.8	8828.9	9034.0	8643.3	8110.4	8025.1	8381.4	8784.0	8179.3
55°	6496.7	6594.0	7752.6	8751.1	9153.8	8972.6	8652.3	8478.7	8800.5	9152.3	8312.5
57.5°	5636.0	5686.9	6716.8	8405.3	9177.7	9215.2	9038.5	8831.9	9216.6	9550.5	8462.2
60°	4136.0	4148.0	5074.6	6954.8	8442.7	9074.4	9007.1	8700.2	9019.1	9231.6	7776.6
62.5°	2336.7	2338.2	3077.7	4642.0	6306.6	7396.4	7438.3	7167.3	6899.4	6962.3	5412.9
65°	877.2	959.5	1405.6	2281.3	3636.1	4366.6	4540.2	4603.1	4157.0	3880.1	2902.6
67.5°	586.8	606.3	820.3	1173.6	1618.2	1868.2	2089.7	2095.7	1532.9	1366.7	1143.7
70°	447.6	467.0	645.2	839.8	820.3	757.5	818.8	796.4	823.3	845.8	869.7
72.5°	333.8	353.3	500.0	592.8	492.5	485.0	549.4	610.8	667.6	691.6	729.0
75°	221.5	236.5	336.8	317.4	272.4	321.8	401.2	462.6	495.5	523.9	552.4
77.5°	140.7	151.2	179.6	145.2	151.2	188.6	233.5	288.9	320.3	348.8	363.8
80°	64.4	62.9	61.4	68.9	85.3	110.8	140.7	173.6	197.6	209.6	218.6
82.5°	25.4	28.4	31.4	37.4	46.4	59.9	79.3	101.8	121.3	124.2	131.7
85°	10.5	12.0	13.5	16.5	21.0	26.9	32.9	46.4	58.4	62.9	67.4
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	4.5	7.5	13.5	15.0	16.5
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°	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2	4537.2
2.5°	4567.2	4547.7	4580.6	4603.1	4624.0	4601.6	4594.1	4574.6	4571.6	4571.6	4582.1
5°	4609.1	4595.6	4630.0	4643.5	4642.0	4592.6	4562.7	4523.7	4504.3	4504.3	4507.3
7.5°	4683.9	4676.4	4695.9	4674.9	4627.0	4526.7	4427.9	4345.6	4290.2	4261.8	4270.8
10°	4808.2	4799.2	4782.7	4704.9	4567.2	4359.1	4157.0	4007.3	3917.5	3866.6	3869.6
12.5°	4929.4	4914.4	4856.1	4683.9	4401.0	4070.2	3805.2	3637.6	3538.8	3478.9	3465.4
15°	5062.6	5023.7	4898.0	4576.1	4130.1	3716.9	3440.0	3258.8	3152.6	3116.6	3115.1
17.5°	5189.9	5121.0	4893.5	4384.5	3805.2	3347.2	3068.7	2956.5	2938.5	2955.0	2959.4
20°	5318.6	5207.8	4844.1	4119.6	3419.0	2978.9	2835.2	2881.6	2949.0	2993.9	3004.4
22.5°	5451.8	5279.7	4731.8	3778.3	3011.8	2730.4	2790.3	2892.1	2975.9	3035.8	3041.8
25°	5601.5	5347.1	4564.2	3360.6	2685.5	2661.6	2779.8	2887.6	2977.4	3046.3	3058.2
27.5°	5686.9	5348.6	4329.1	2931.0	2535.8	2634.6	2754.4	2856.2	2946.0	3020.8	3034.3
30°	5770.7	5308.1	3956.4	2582.2	2492.4	2603.2	2711.0	2805.3	2890.6	2963.9	2980.4
32.5°	5889.0	5270.7	3526.8	2381.6	2467.0	2573.2	2661.6	2745.4	2811.3	2844.2	2853.2
35°	6035.7	5222.8	3070.2	2294.8	2450.5	2549.3	2627.1	2672.0	2586.7	2568.7	2588.2
37.5°	6240.7	5177.9	2615.2	2257.4	2440.0	2540.3	2609.2	2493.9	2389.1	2347.2	2362.2
40°	6462.3	5152.5	2306.8	2227.4	2444.5	2549.3	2534.3	2363.7	2212.5	2124.2	2121.2
42.5°	6650.9	5113.5	2109.2	2208.0	2456.5	2583.7	2432.5	2248.4	2023.9	1971.5	1973.0
45°	6778.1	5014.7	2004.4	2187.0	2467.0	2591.2	2384.6	2089.7	1929.6	1896.6	1895.1
47.5°	6830.5	4835.1	1937.0	2154.1	2465.5	2529.8	2287.3	2023.9	1863.7	1854.7	1860.7
50°	6796.1	4540.2	1868.2	2089.7	2429.5	2465.5	2175.1	1965.5	1818.8	1868.2	1904.1
52.5°	6668.9	4158.5	1785.8	2001.4	2365.2	2392.1	2118.2	1929.6	1785.8	1851.7	1880.2
55°	6635.9	3848.6	1681.1	1886.1	2269.4	2261.9	2058.3	1911.6	1763.4	1737.9	1742.4
57.5°	6592.5	3546.2	1507.4	1679.6	2026.9	2038.8	2001.4	1890.6	1705.0	1697.5	1705.0
60°	5727.3	2718.4	1344.3	1449.0	1664.6	1729.0	1937.0	1851.7	1610.7	1579.3	1577.8
62.5°	3740.8	1646.6	1196.1	1263.4	1356.2	1431.1	1766.4	1739.4	1507.4	1488.0	1501.4
65°	2011.9	1173.6	1088.3	1128.7	1179.6	1236.5	1464.0	1549.3	1362.2	1293.4	1294.9
67.5°	1028.4	998.5	1007.4	1035.9	1074.8	1103.2	1181.1	1255.9	1161.6	1103.2	1101.7
70°	880.2	904.2	917.6	934.1	959.5	955.0	962.5	976.0	968.5	940.1	938.6
72.5°	750.0	787.4	790.4	793.4	802.4	781.4	767.9	745.5	747.0	751.5	753.0
75°	570.3	606.3	615.2	610.8	619.7	592.8	574.8	552.4	525.4	520.9	523.9
77.5°	371.2	399.7	413.2	410.2	414.7	393.7	384.7	360.8	329.3	317.4	317.4
80°	224.5	241.0	251.5	254.5	259.0	244.0	229.0	208.1	194.6	181.1	181.1
82.5°	136.2	146.7	154.2	154.2	158.7	142.2	130.2	115.3	109.3	97.3	97.3
85°	68.9	76.3	79.3	77.8	74.8	61.4	56.9	49.4	46.4	40.4	40.4
87.5°	16.5	21.0	21.0	15.0	15.0	7.5	4.5	1.5	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)