

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: P638028

Luminaire Tested: GWS-SA4E-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23205.1 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

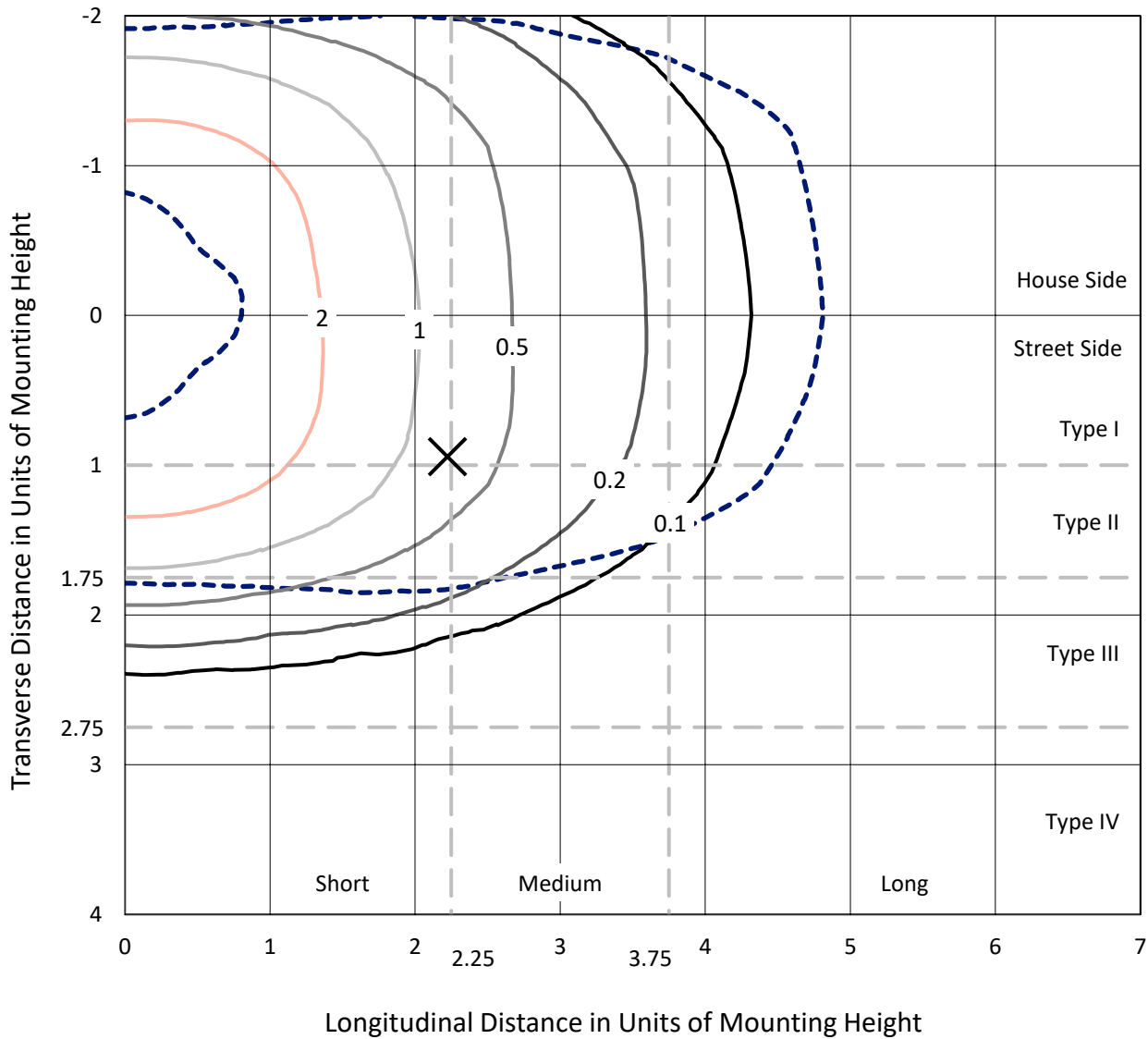
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638028
 CATALOG NUMBER: GWS-SA4E-722-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

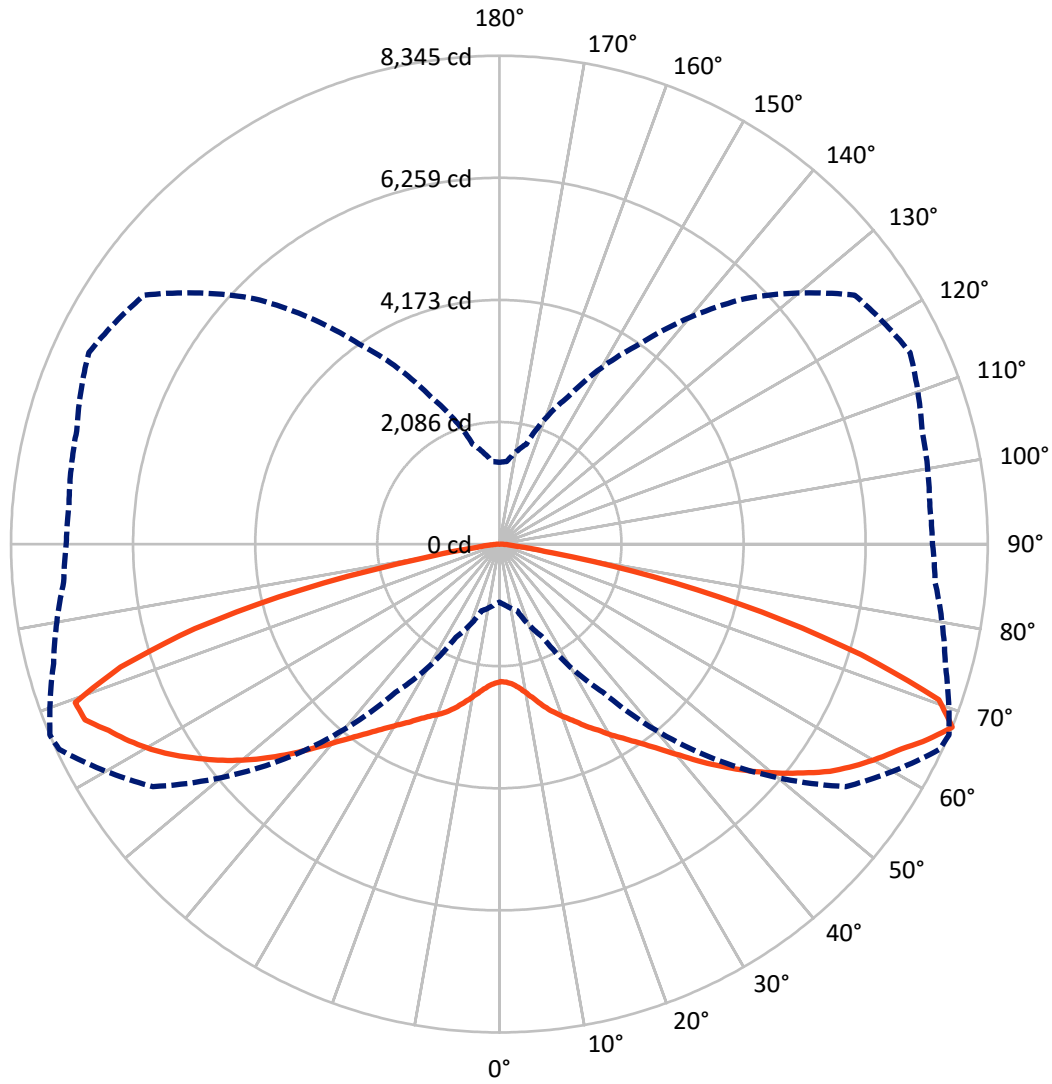
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P638028
CATALOG NUMBER: GWS-SA4E-722-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638028

CATALOG NUMBER: GWS-SA4E-722-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11474.5	0.0	11474.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	11730.6	0.0	11730.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	23205.1	0.0	23205.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	1.0
10°-20°	778.8	3.4
20°-30°	1528.0	6.6
30°-40°	2603.3	11.2
40°-50°	4180.3	18.0
50°-60°	5680.2	24.5
60°-70°	5433.5	23.4
70°-80°	2583.3	11.1
80°-90°	187.2	0.8
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°	23205.1	100.0
0°-180°	23205.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638028

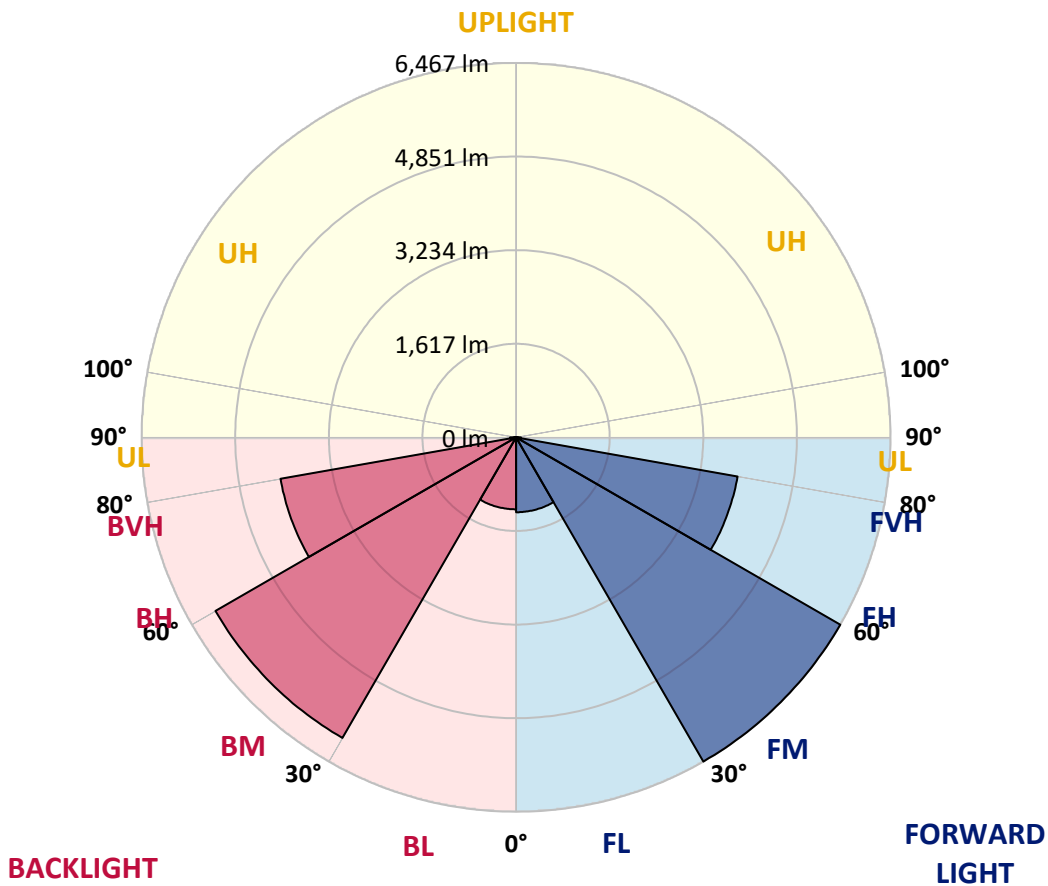
CATALOG NUMBER: GWS-SA4E-722-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.9	5.6			
FM (30°-60°)	6467.5	27.9			
FH (60°-80°)	3885.1	16.7			G2/5000
FVH (80°-90°)	84.1	0.4			G1/100
BL (0°-30°)	1243.5	5.4	B3/2500		
BM (30°-60°)	5996.3	25.8	B4/8500		
BH (60°-80°)	4131.6	17.8	B4/5000		G4/5000
BVH (80°-90°)	103.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P638028
 CATALOG NUMBER: GWS-SA4E-722-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6
2.5°	2301.2	2304.4	2309.2	2318.9	2328.6	2343.2	2357.7	2356.1	2362.6	2367.4	2372.3
5°	2288.2	2291.5	2299.6	2312.5	2327.0	2351.3	2382.0	2394.9	2404.6	2422.4	2438.5
7.5°	2315.7	2322.2	2333.5	2351.3	2373.9	2404.6	2446.6	2469.2	2483.8	2516.1	2543.6
10°	2352.9	2361.0	2383.6	2417.5	2451.5	2498.3	2551.6	2585.6	2595.3	2637.3	2689.0
12.5°	2388.4	2398.1	2435.3	2496.7	2558.1	2621.1	2684.2	2726.2	2729.4	2786.0	2844.1
15°	2445.0	2453.1	2503.2	2582.3	2676.1	2763.3	2840.9	2870.0	2882.9	2923.3	2996.0
17.5°	2569.4	2579.1	2643.8	2729.4	2828.0	2920.1	2997.7	3021.9	3021.9	3055.8	3115.6
20°	2703.5	2713.2	2798.9	2908.8	3028.4	3122.1	3181.9	3159.3	3151.2	3160.9	3202.9
22.5°	2853.8	2871.6	2954.0	3081.7	3228.7	3343.5	3374.2	3306.3	3283.7	3261.1	3270.8
25°	3046.1	3067.1	3147.9	3283.7	3427.5	3548.7	3566.5	3461.4	3448.5	3369.3	3340.2
27.5°	3267.5	3283.7	3383.9	3518.0	3652.1	3753.9	3773.3	3644.1	3600.4	3490.5	3422.7
30°	3553.6	3568.1	3655.4	3787.9	3904.2	3975.3	3999.6	3821.8	3787.9	3619.8	3514.8
32.5°	3865.4	3871.9	3960.8	4088.4	4191.9	4259.7	4225.8	4019.0	3968.9	3779.8	3636.0
35°	4222.6	4222.6	4337.3	4440.7	4523.1	4542.5	4477.9	4242.0	4183.8	3978.6	3799.2
37.5°	4573.2	4582.9	4689.6	4812.4	4885.1	4881.9	4763.9	4505.4	4439.1	4216.1	4017.3
40°	4953.0	4974.0	5080.7	5218.0	5287.5	5277.8	5096.8	4809.2	4741.3	4477.9	4284.0
42.5°	5302.1	5336.0	5460.4	5601.0	5677.0	5670.5	5481.4	5158.2	5092.0	4794.6	4600.7
45°	5580.0	5615.6	5770.7	5966.2	6087.4	6076.1	5885.4	5520.2	5439.4	5127.5	4914.2
47.5°	5824.0	5861.2	6034.1	6240.9	6433.2	6452.6	6278.1	5885.4	5799.8	5484.7	5243.9
50°	6011.5	6029.2	6223.2	6449.4	6672.4	6780.7	6628.8	6252.3	6148.8	5836.9	5565.5
52.5°	5996.9	6021.2	6260.3	6567.4	6866.3	7044.1	6939.1	6598.1	6497.9	6158.5	5893.5
55°	5701.2	5725.4	6009.9	6457.5	6974.6	7236.4	7225.1	6927.7	6855.0	6486.6	6234.5
57.5°	5269.7	5323.1	5605.9	6089.0	6832.4	7389.9	7435.2	7228.3	7152.4	6808.2	6572.2
60°	4497.3	4568.4	4894.8	5521.8	6376.7	7338.2	7659.8	7482.0	7435.2	7107.1	6877.6
62.5°	3267.5	3319.2	3753.9	4576.5	5701.2	6969.8	7848.9	7743.8	7708.3	7375.4	7154.0
65°	1957.0	2074.9	2424.0	3236.8	4599.1	6274.9	7745.4	8086.4	8049.2	7651.7	7389.9
67.5°	990.6	1043.9	1181.3	1755.0	3093.0	5192.2	7226.7	8299.7	8345.0	7887.6	7473.9
70°	614.1	628.6	667.4	866.2	1544.9	3411.3	5909.7	7743.8	7965.2	7850.5	7255.8
72.5°	492.9	496.1	502.6	539.7	741.7	1595.0	3736.2	6064.8	6463.9	7331.7	6943.9
75°	408.8	410.5	412.1	423.4	462.2	651.2	1818.0	4167.6	4634.7	6231.2	6438.1
77.5°	328.0	320.0	326.4	331.3	341.0	363.6	627.0	2223.6	2697.1	4090.1	4978.9
80°	213.3	210.1	223.0	227.9	237.6	252.1	334.5	754.7	916.3	1488.3	1583.7
82.5°	114.7	108.3	135.7	130.9	135.7	147.1	197.2	276.3	310.3	449.2	379.8
85°	35.6	35.6	37.2	43.6	53.3	51.7	85.6	135.7	150.3	192.3	142.2
87.5°	6.5	6.5	6.5	6.5	6.5	8.1	17.8	27.5	37.2	66.3	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638028
 CATALOG NUMBER: GWS-SA4E-722-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6	2349.6
2.5°	2382.0	2367.4	2375.5	2380.3	2378.7	2375.5	2359.3	2356.1	2348.0	2335.1	2331.9
5°	2453.1	2436.9	2438.5	2433.7	2417.5	2396.5	2361.0	2343.2	2328.6	2312.5	2310.9
7.5°	2564.6	2546.8	2541.9	2519.3	2474.1	2425.6	2369.0	2336.7	2312.5	2291.5	2288.2
10°	2706.8	2689.0	2672.8	2619.5	2545.2	2480.5	2406.2	2359.3	2323.8	2297.9	2293.1
12.5°	2865.1	2850.6	2810.2	2732.6	2643.8	2567.8	2491.9	2433.7	2382.0	2343.2	2338.3
15°	3041.3	3009.0	2947.6	2847.4	2763.3	2701.9	2609.8	2530.6	2448.2	2396.5	2385.2
17.5°	3164.1	3136.6	3063.9	2967.0	2900.7	2847.4	2739.1	2626.0	2514.5	2438.5	2422.4
20°	3251.4	3222.3	3139.9	3068.8	3047.8	3002.5	2876.5	2745.6	2616.3	2522.6	2501.5
22.5°	3314.4	3283.7	3199.7	3164.1	3193.2	3185.1	3062.3	2913.6	2760.1	2648.6	2622.7
25°	3374.2	3345.1	3270.8	3283.7	3361.3	3385.5	3253.0	3080.1	2905.5	2774.7	2743.9
27.5°	3430.7	3393.6	3359.6	3430.7	3540.6	3585.9	3445.3	3249.8	3060.7	2926.6	2902.3
30°	3518.0	3474.4	3469.5	3572.9	3747.5	3786.3	3631.1	3435.6	3248.1	3112.4	3081.7
32.5°	3627.9	3587.5	3590.7	3745.9	3947.9	3980.2	3847.7	3665.1	3477.6	3341.9	3299.8
35°	3776.6	3726.5	3753.9	3944.6	4148.2	4208.0	4101.4	3949.5	3766.9	3627.9	3581.0
37.5°	3981.8	3909.1	3965.6	4166.0	4371.2	4460.1	4377.7	4264.6	4083.6	3943.0	3899.4
40°	4243.6	4183.8	4206.4	4427.8	4639.5	4746.2	4694.4	4582.9	4403.6	4256.5	4206.4
42.5°	4553.9	4494.1	4486.0	4721.9	4933.6	5095.2	5045.1	4943.3	4757.5	4589.4	4540.9
45°	4857.7	4802.7	4814.0	5054.8	5292.4	5468.5	5418.4	5298.8	5096.8	4902.9	4864.1
47.5°	5174.4	5129.1	5138.8	5394.2	5656.0	5832.1	5769.1	5623.6	5387.7	5180.9	5134.0
50°	5499.2	5447.5	5462.0	5730.3	6013.1	6179.5	6082.6	5867.7	5607.5	5405.5	5365.1
52.5°	5822.4	5761.0	5798.2	6051.9	6344.4	6476.9	6297.5	6037.3	5785.2	5584.9	5539.6
55°	6194.1	6129.4	6089.0	6360.5	6649.8	6704.7	6459.1	6155.3	5856.3	5628.5	5601.0
57.5°	6533.4	6478.5	6402.5	6674.0	6887.3	6846.9	6583.5	6123.0	5683.4	5390.9	5352.2
60°	6837.2	6790.4	6724.1	6955.2	7052.2	6961.7	6483.3	5740.0	5256.8	4951.4	4933.6
62.5°	7116.8	7066.7	7005.3	7202.5	7189.5	6979.4	6027.6	5151.8	4505.4	4177.3	4148.2
65°	7338.2	7293.0	7275.2	7430.3	7409.3	6632.0	5318.2	4188.6	3291.8	2921.7	2910.4
67.5°	7401.2	7383.4	7478.8	7742.2	7414.2	5933.9	4170.9	2777.9	1767.9	1417.2	1396.2
70°	7165.3	7163.7	7436.8	7813.3	6741.9	4532.8	2461.1	1252.4	888.8	788.6	775.7
72.5°	6858.3	6853.4	7069.9	6740.3	4999.9	2480.5	1035.8	670.6	555.9	528.4	528.4
75°	6354.1	6341.1	6504.3	5127.5	2811.8	934.0	549.4	460.6	436.3	431.5	431.5
77.5°	5179.2	5071.0	4814.0	3169.0	980.9	458.9	363.6	362.0	347.4	345.8	345.8
80°	1703.3	1703.3	1979.6	1208.8	433.1	282.8	256.9	269.9	255.3	245.6	244.0
82.5°	277.9	383.0	544.6	345.8	234.3	176.1	158.4	168.1	176.1	140.6	140.6
85°	109.9	143.8	210.1	161.6	108.3	71.1	76.0	84.0	74.3	64.6	63.0
87.5°	42.0	51.7	74.3	38.8	22.6	12.9	8.1	8.1	6.5	6.5	6.5
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)