

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: P640039

Luminaire Tested: GWS-SA5D-722-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-722-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22143.1 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
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

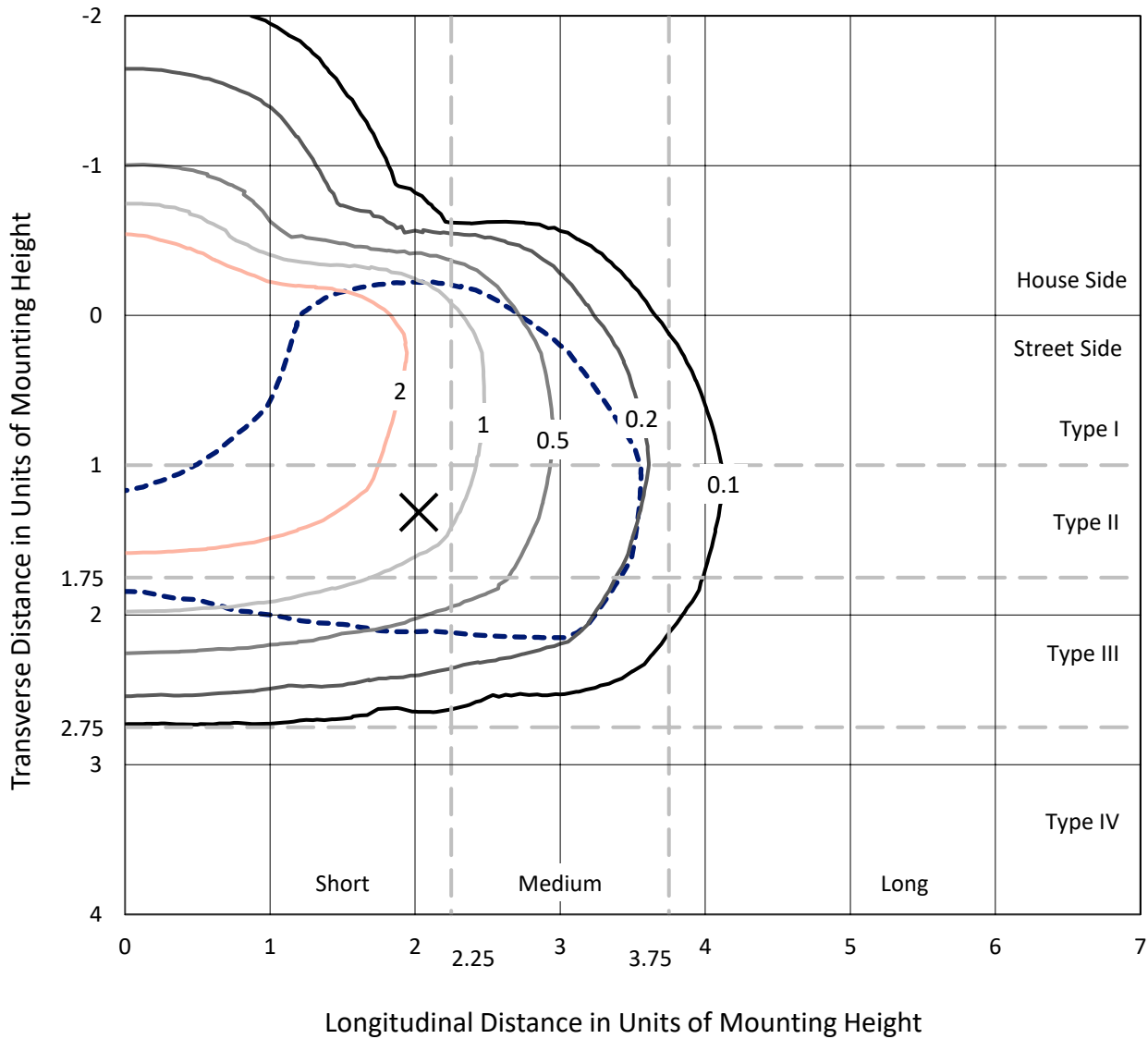


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### Iso-Footcandle Lines of Horizontal Illumination

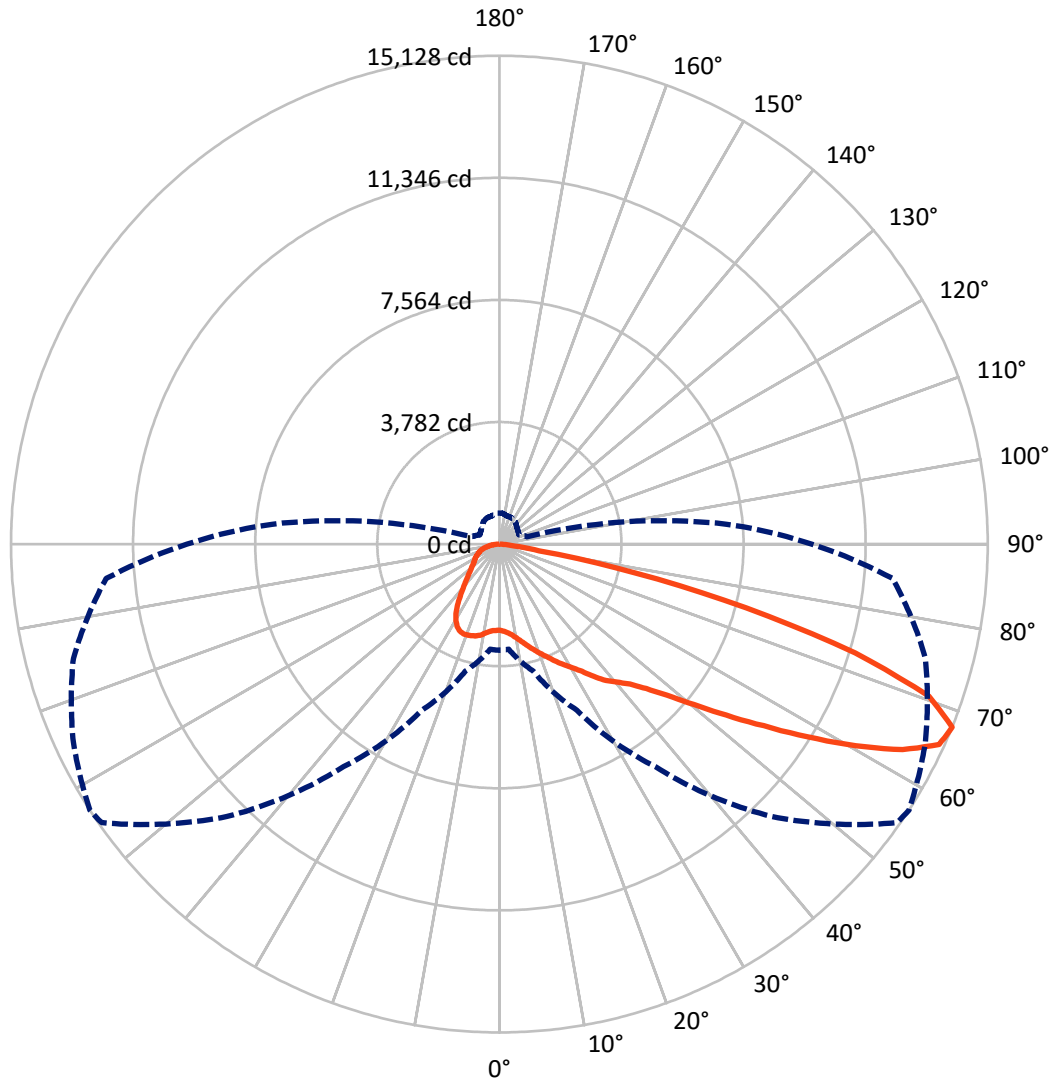
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4868.4	0.0	4868.4
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	17274.7	0.0	17274.7
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	22143.1	0.0	22143.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.6	1.2
10°-20°	876.0	4.0
20°-30°	1561.8	7.1
30°-40°	2270.6	10.3
40°-50°	3286.4	14.8
50°-60°	5143.1	23.2
60°-70°	5999.7	27.1
70°-80°	2504.5	11.3
80°-90°	236.4	1.1
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°	22143.1	100.0
0°-180°	22143.1	100.0

**Coefficient of Utilization**



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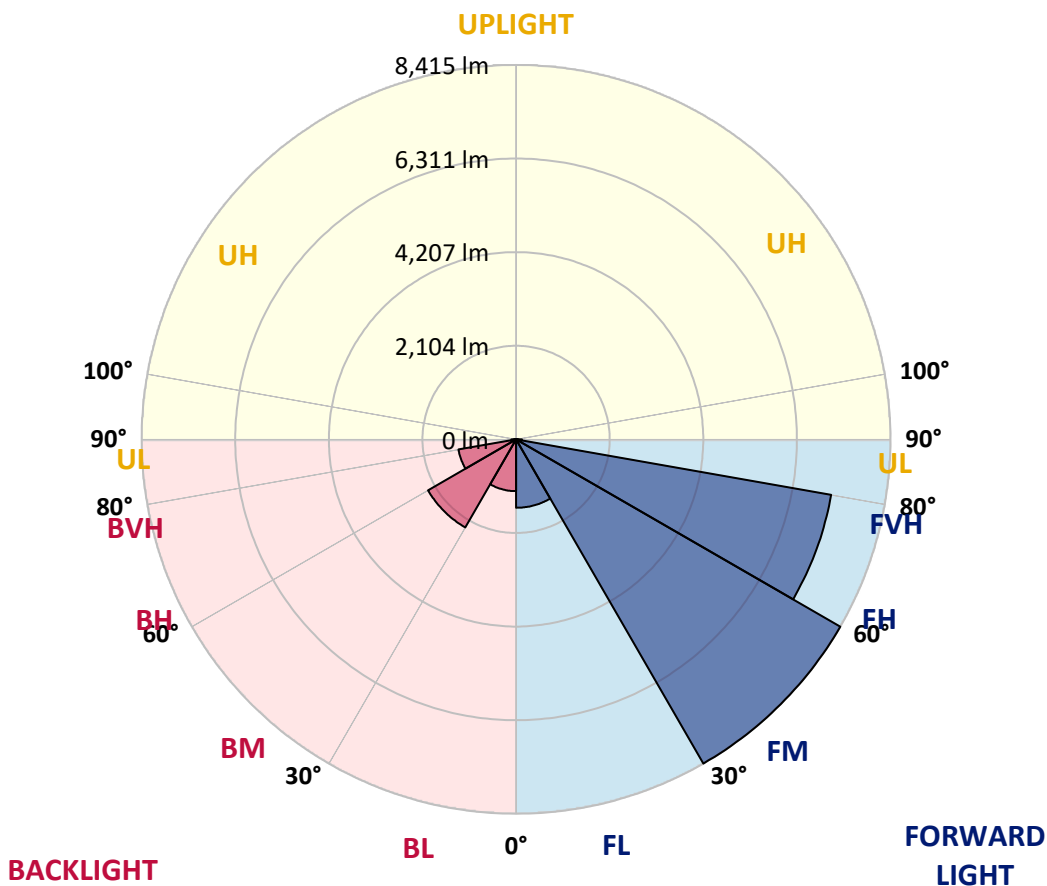
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.1	6.9			
FM (30°-60°)	8414.7	38.0			
FH (60°-80°)	7190.2	32.5			G3/7500
FVH (80°-90°)	131.7	0.6			G2/225
BL (0°-30°)	1164.4	5.3	B3/2500		
BM (30°-60°)	2285.4	10.3	B2/2500		
BH (60°-80°)	1314.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	104.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1
2.5°	2706.2	2703.0	2701.4	2710.9	2707.7	2706.2	2706.2	2704.6	2701.4	2688.7	2671.3
5°	2780.7	2774.4	2768.0	2776.0	2769.6	2763.3	2761.7	2758.5	2747.4	2728.4	2701.4
7.5°	2858.4	2852.1	2853.7	2858.4	2853.7	2850.5	2845.8	2842.6	2825.1	2795.0	2758.5
10°	2967.9	2967.9	2971.1	2975.8	2977.4	2972.7	2963.1	2958.4	2937.8	2899.7	2848.9
12.5°	3126.5	3123.4	3123.4	3120.2	3124.9	3120.2	3110.7	3102.7	3077.3	3028.2	2955.2
15°	3335.9	3323.2	3312.1	3291.5	3285.1	3267.7	3270.9	3266.1	3242.3	3175.7	3083.7
17.5°	3559.6	3558.0	3540.5	3499.3	3458.1	3429.5	3435.8	3434.3	3421.6	3331.2	3213.8
20°	3756.3	3764.2	3748.3	3716.6	3661.1	3607.2	3604.0	3611.9	3596.1	3505.6	3342.3
22.5°	3976.8	3970.4	3954.6	3913.3	3872.1	3815.0	3795.9	3789.6	3783.2	3680.1	3473.9
25°	4186.1	4205.2	4184.6	4146.5	4083.0	4021.2	4005.3	4011.7	3994.2	3857.8	3615.1
27.5°	4451.1	4459.0	4446.3	4393.9	4340.0	4252.8	4222.6	4222.6	4216.3	4024.3	3726.1
30°	4733.4	4755.6	4733.4	4690.6	4635.1	4509.7	4444.7	4438.4	4419.3	4195.7	3856.2
32.5°	5017.3	5033.2	5017.3	4976.1	4912.7	4803.2	4709.6	4695.3	4670.0	4382.8	3989.4
35°	5269.6	5283.8	5280.7	5290.2	5237.8	5099.8	5042.7	5036.4	4969.8	4627.1	4170.3
37.5°	5545.6	5563.0	5539.2	5558.3	5537.6	5407.6	5390.1	5358.4	5263.2	4857.1	4360.6
40°	5859.7	5875.5	5837.4	5845.4	5821.6	5748.6	5659.8	5617.0	5475.8	5106.2	4660.4
42.5°	6195.9	6232.4	6249.9	6235.6	6180.1	6138.8	5983.4	5929.4	5812.1	5555.1	5153.8
45°	6682.9	6736.9	6762.2	6725.8	6702.0	6643.3	6452.9	6387.9	6326.0	6188.0	5842.2
47.5°	7208.0	7257.1	7338.0	7353.9	7372.9	7328.5	7060.5	6997.0	7008.1	6992.2	6689.3
50°	7626.7	7668.0	7850.4	8045.5	8207.3	8220.0	7877.4	7809.2	7869.4	7920.2	7709.2
52.5°	7931.3	7967.8	8208.9	8611.8	8978.2	9249.5	8879.9	8802.2	8851.3	8965.6	8868.8
55°	8178.8	8229.5	8481.7	9100.4	9841.2	10269.5	10033.1	9934.8	9914.1	10055.3	10110.8
57.5°	8308.8	8324.7	8678.4	9482.7	10474.1	11270.4	11373.5	11262.5	11065.8	11143.5	11432.2
60°	8012.2	8039.2	8523.0	9581.0	10973.8	12263.4	12780.5	12688.5	12269.7	12312.6	12631.4
62.5°	7192.1	7230.2	7812.3	9113.1	11015.0	12926.4	14079.7	14021.0	13459.4	13227.8	13323.0
65°	5769.2	5781.9	6384.7	7955.1	10194.9	13008.9	14985.4	14971.1	14290.6	13748.1	13340.5
67.5°	3289.9	3267.7	4073.5	5674.1	8413.5	11936.6	15044.1	15128.2	14560.3	13662.5	12230.1
70°	1426.0	1429.2	1800.4	2799.8	5445.6	9647.6	13973.4	14117.7	13779.9	12236.4	9730.1
72.5°	659.9	669.4	829.6	1211.9	2325.5	5985.0	11394.1	11524.2	11233.9	9793.6	7079.5
75°	466.4	474.3	553.6	694.8	1069.1	2331.8	7622.0	7894.8	8036.0	7325.4	4665.2
77.5°	353.7	364.8	404.5	482.2	659.9	826.4	3646.8	4297.2	5118.9	4557.3	2403.2
80°	225.2	225.2	268.1	322.0	402.9	429.9	1053.3	1248.4	2504.7	1878.1	943.8
82.5°	152.3	157.0	182.4	204.6	231.6	244.3	452.1	482.2	723.3	639.3	388.6
85°	80.9	84.1	95.2	93.6	111.0	96.8	190.4	188.8	264.9	290.3	147.5
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	20.6	22.2	55.5	88.8	49.2
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°	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1	2668.1
2.5°	2680.8	2661.7	2671.3	2668.1	2677.6	2677.6	2660.2	2655.4	2657.0	2638.0	2631.6
5°	2704.6	2682.4	2687.1	2680.8	2690.3	2698.2	2690.3	2690.3	2699.8	2685.5	2677.6
7.5°	2758.5	2733.1	2733.1	2725.2	2736.3	2742.6	2736.3	2745.8	2763.3	2749.0	2741.1
10°	2844.2	2814.0	2815.6	2806.1	2810.9	2807.7	2782.3	2774.4	2779.1	2766.4	2760.1
12.5°	2955.2	2914.0	2914.0	2894.9	2883.8	2850.5	2798.2	2779.1	2782.3	2771.2	2766.4
15°	3061.5	3023.4	3015.5	2977.4	2926.7	2864.8	2817.2	2804.5	2807.7	2796.6	2788.6
17.5°	3186.8	3137.6	3109.1	3039.3	2945.7	2882.2	2834.7	2804.5	2779.1	2753.8	2747.4
20°	3302.6	3240.7	3188.4	3080.5	2966.3	2879.1	2790.2	2715.7	2653.8	2620.5	2612.6
22.5°	3421.6	3342.3	3250.3	3109.1	2964.7	2822.0	2658.6	2546.0	2453.9	2404.8	2414.3
25°	3534.2	3434.3	3308.9	3136.0	2914.0	2695.1	2473.0	2304.8	2200.1	2162.1	2151.0
27.5°	3627.8	3504.1	3362.9	3123.4	2809.3	2512.6	2219.2	2032.0	1930.5	1887.7	1876.5
30°	3732.5	3592.9	3440.6	3064.7	2644.3	2257.3	1932.1	1779.8	1706.8	1665.6	1667.2
32.5°	3853.0	3707.1	3550.1	2952.0	2433.3	1981.2	1695.7	1591.0	1532.3	1491.1	1484.7
35°	4014.8	3870.5	3623.0	2782.3	2165.2	1727.4	1533.9	1448.3	1375.3	1321.4	1310.3
37.5°	4214.7	4116.4	3631.0	2555.5	1878.1	1553.0	1418.1	1326.1	1237.3	1165.9	1158.0
40°	4557.3	4444.7	3565.9	2271.5	1633.8	1440.3	1321.4	1215.1	1112.0	1032.7	1021.6
42.5°	5045.9	4814.3	3426.3	1951.1	1449.8	1351.5	1229.4	1094.5	989.8	934.3	926.4
45°	5667.7	5226.7	3216.9	1649.7	1313.4	1264.3	1132.6	991.4	935.9	896.2	888.3
47.5°	6429.1	5707.4	2975.8	1414.9	1207.1	1184.9	1034.2	956.5	907.3	874.0	866.1
50°	7339.6	6319.7	2777.5	1230.9	1112.0	1092.9	1002.5	935.9	896.2	869.3	862.9
52.5°	8378.6	7000.2	2680.8	1099.3	1029.5	1010.4	991.4	931.1	897.8	877.2	869.3
55°	9457.3	7717.2	2590.4	997.8	959.7	970.8	993.0	947.0	921.6	894.7	886.7
57.5°	10499.5	8389.7	2368.3	918.4	908.9	951.8	1000.9	962.9	932.7	905.8	896.2
60°	11218.0	8757.8	1992.3	855.0	870.9	928.0	980.3	939.1	901.0	889.9	885.1
62.5°	11411.6	8713.3	1546.6	790.0	824.9	875.6	926.4	899.4	859.8	877.2	878.8
65°	10959.5	8237.5	1161.1	726.5	764.6	807.4	870.9	859.8	845.5	893.1	894.7
67.5°	9679.4	7068.4	885.1	671.0	702.7	755.1	853.4	899.4	902.6	962.9	956.5
70°	7323.8	5280.7	693.2	618.6	655.1	755.1	908.9	929.5	891.5	947.0	934.3
72.5°	5063.3	3485.0	590.1	572.6	596.4	720.2	907.3	907.3	866.1	866.1	842.3
75°	3145.6	2049.5	513.9	513.9	513.9	629.7	882.0	836.0	763.0	729.7	710.6
77.5°	1553.0	996.2	431.5	447.3	429.9	526.6	720.2	683.7	639.3	604.4	591.7
80°	663.1	498.1	349.0	366.4	345.8	396.6	571.1	563.1	520.3	474.3	460.0
82.5°	304.6	257.0	279.2	287.1	252.2	298.2	417.2	417.2	393.4	329.9	306.1
85°	130.1	136.4	193.5	193.5	158.6	168.1	223.7	212.6	190.4	155.5	142.8
87.5°	44.4	66.6	98.3	85.7	33.3	14.3	7.9	3.2	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)