

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: P639367

Luminaire Tested: GWS-SA5B-760-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

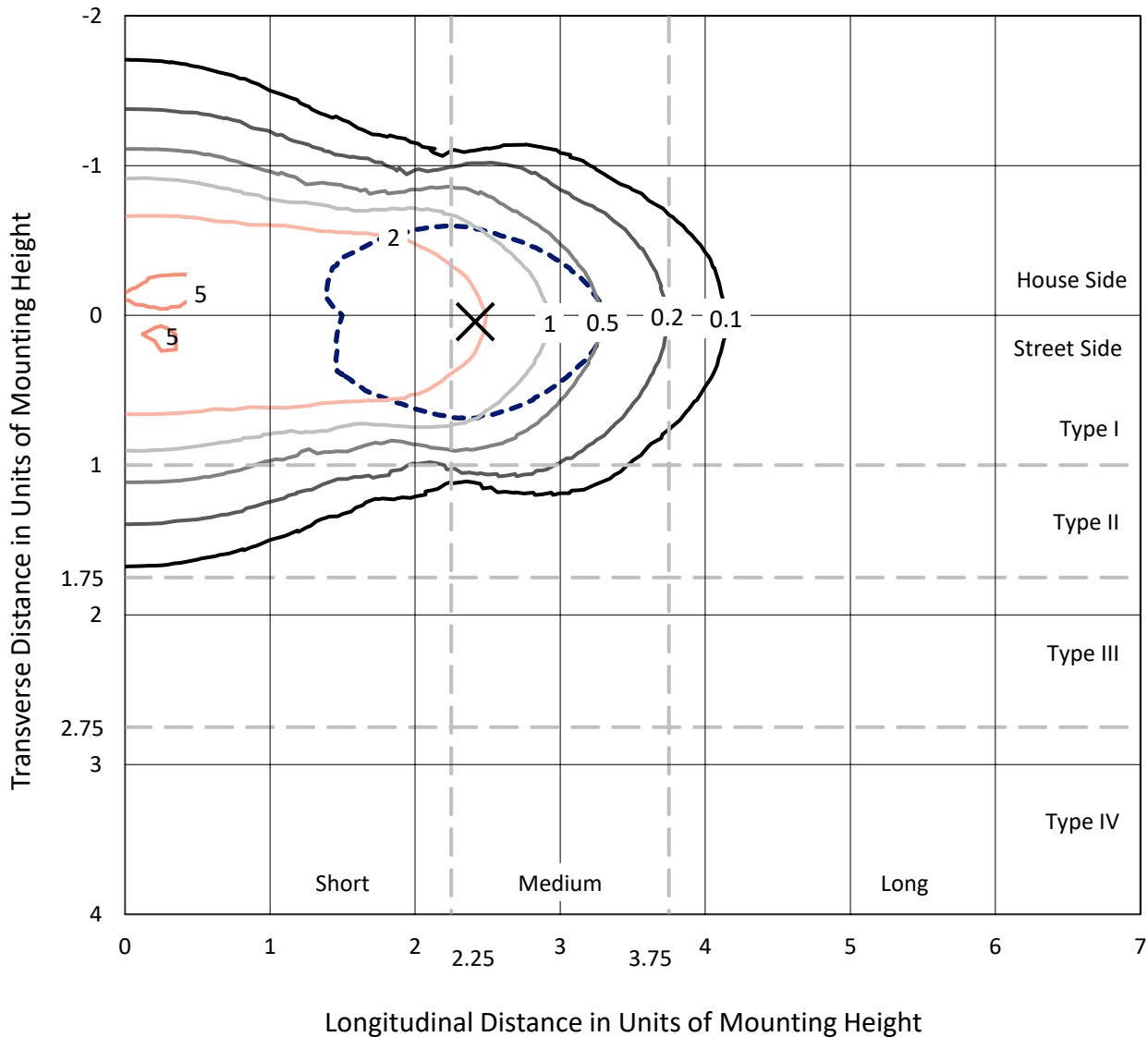
Lumens per Lamp: N/A  
Luminaire Lumens: 17881 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

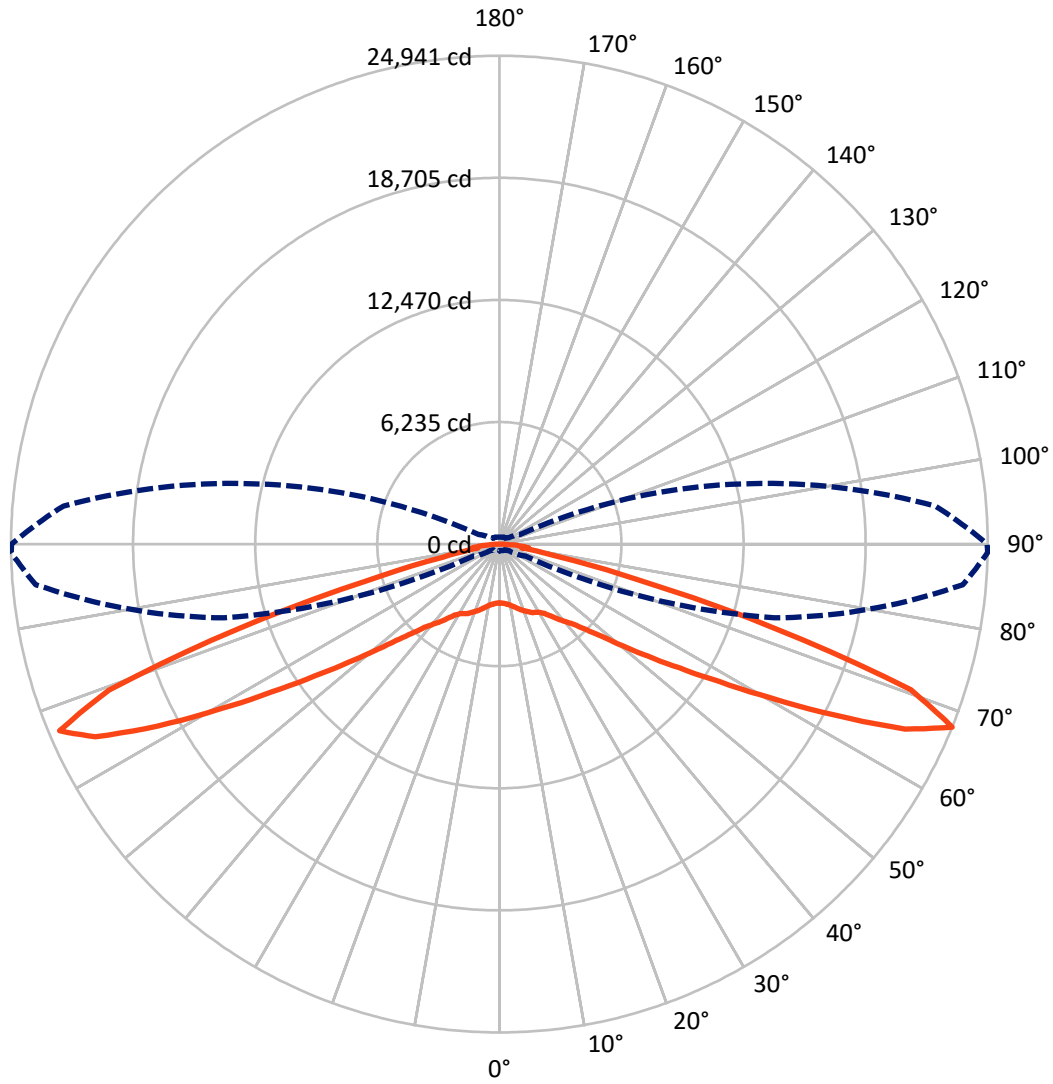
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8862.1	0.0	8862.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9018.9	0.0	9018.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	17881.0	0.0	17881.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.0	1.7
10°-20°	980.2	5.5
20°-30°	1657.0	9.3
30°-40°	2274.1	12.7
40°-50°	2900.0	16.2
50°-60°	3638.4	20.3
60°-70°	4388.3	24.5
70°-80°	1587.5	8.9
80°-90°	154.4	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°	17881.0	100.0
0°-180°	17881.0	100.0

**Coefficient of Utilization**



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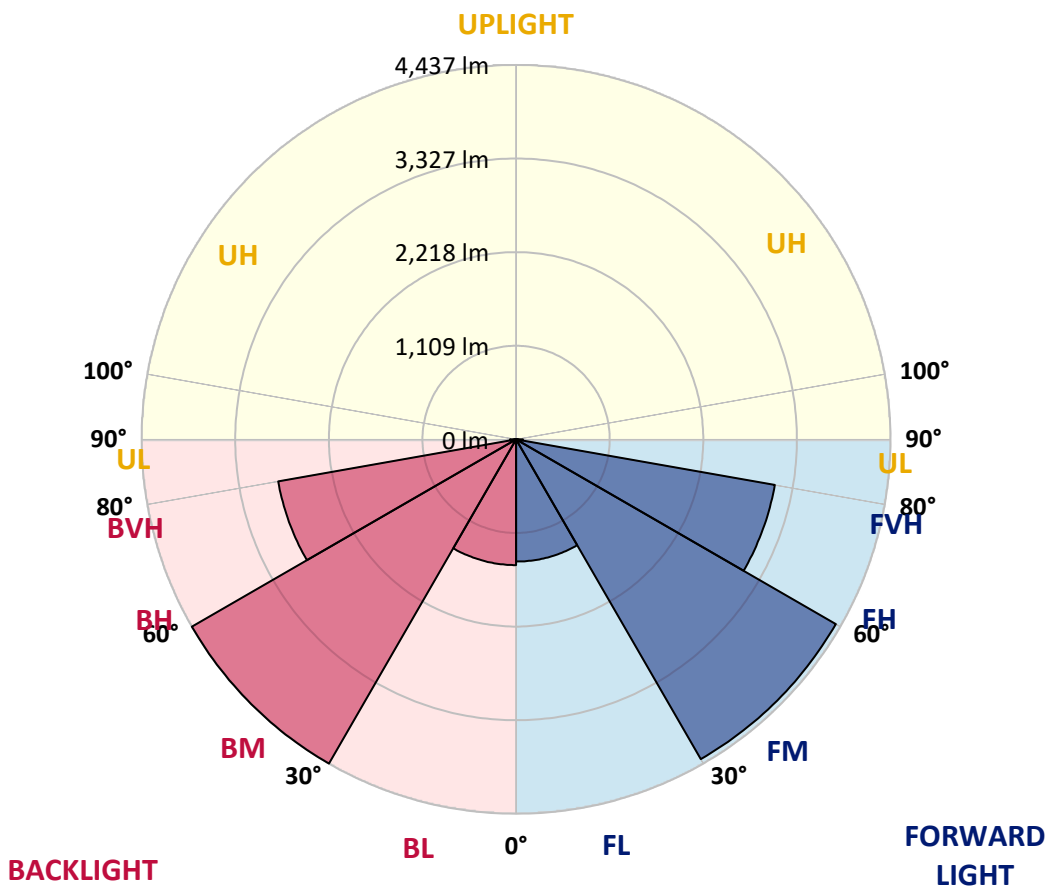
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.2	8.1			
FM (30°-60°)	4375.8	24.5			
FH (60°-80°)	3113.3	17.4			G2/5000
FVH (80°-90°)	81.5	0.5			G1/100
BL (0°-30°)	1490.1	8.3	B3/2500		
BM (30°-60°)	4436.7	24.8	B3/5000		
BH (60°-80°)	2862.5	16.0	B4/5000		G4/5000
BVH (80°-90°)	72.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°	
0°	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2
2.5°	3010.2	3007.6	3001.2	3020.4	3016.6	3017.9	3025.6	3020.4	3011.5	2996.0	3017.9	3017.9
5°	3094.9	3093.6	3079.5	3091.1	3078.2	3069.2	3068.0	3055.1	3044.8	3028.2	3051.3	3051.3
7.5°	3177.1	3175.8	3164.3	3184.8	3174.5	3164.3	3152.7	3127.0	3102.6	3078.2	3103.9	3103.9
10°	3240.0	3238.8	3236.2	3265.7	3268.3	3272.1	3267.0	3223.3	3181.0	3151.4	3177.1	3177.1
12.5°	3276.0	3279.9	3286.3	3340.2	3367.2	3392.9	3399.3	3363.3	3292.7	3250.3	3281.1	3281.1
15°	3251.6	3259.3	3291.4	3389.0	3463.5	3521.3	3545.7	3516.1	3425.0	3354.3	3389.0	3389.0
17.5°	3134.7	3141.2	3204.1	3353.1	3517.4	3651.0	3690.8	3672.8	3571.4	3485.3	3518.7	3518.7
20°	2972.9	2987.1	3055.1	3263.2	3508.4	3740.9	3847.5	3841.1	3730.6	3598.3	3638.1	3638.1
22.5°	2826.5	2843.2	2915.1	3145.0	3448.1	3764.0	4005.4	4022.1	3875.7	3711.3	3743.5	3743.5
25°	2662.2	2677.6	2770.0	3005.0	3344.1	3746.0	4140.3	4216.0	4040.1	3841.1	3870.6	3870.6
27.5°	2493.9	2505.5	2596.7	2847.1	3207.9	3712.6	4246.9	4429.2	4201.9	3930.9	3951.5	3951.5
30°	2346.2	2361.6	2445.1	2689.1	3059.0	3645.9	4334.2	4656.5	4388.1	4032.4	4049.1	4049.1
32.5°	2203.7	2216.5	2307.7	2533.7	2901.0	3543.1	4412.5	4923.6	4664.2	4221.2	4221.2	4221.2
35°	2023.9	2047.0	2149.8	2384.8	2752.0	3407.0	4469.0	5234.4	5041.8	4499.8	4501.1	4501.1
37.5°	1858.2	1871.1	1979.0	2216.5	2595.4	3252.9	4474.2	5556.7	5519.5	4854.3	4856.9	4856.9
40°	1669.5	1686.2	1801.7	2036.7	2415.6	3091.1	4425.4	5857.2	6020.3	5219.0	5204.9	5204.9
42.5°	1478.1	1502.5	1613.0	1842.8	2221.7	2893.3	4295.7	6143.6	6656.0	5641.5	5606.8	5606.8
45°	1293.2	1308.6	1419.0	1636.1	1999.5	2657.0	4087.6	6418.4	7411.1	6283.6	6233.5	6233.5
47.5°	1085.2	1091.6	1205.9	1413.9	1769.6	2393.8	3789.7	6663.7	8240.7	7133.7	7047.7	7047.7
50°	900.2	909.2	999.1	1177.6	1488.4	2081.7	3418.5	6807.6	9297.6	8293.4	8144.4	8144.4
52.5°	728.1	737.1	809.0	951.6	1230.3	1726.0	2958.8	6774.2	10369.9	9733.0	9515.9	9515.9
55°	588.2	594.6	643.4	755.1	968.3	1372.8	2415.6	6475.0	11560.4	11613.0	11145.6	11145.6
57.5°	497.0	499.6	532.9	601.0	756.4	1058.2	1864.7	5768.6	12808.6	14011.9	13244.0	13244.0
60°	444.3	445.6	461.0	503.4	597.2	807.8	1366.4	4643.7	14101.8	17013.1	15960.1	15960.1
62.5°	410.9	410.9	423.8	448.2	495.7	621.6	1004.2	3335.1	15030.3	20278.8	19232.2	19232.2
65°	378.8	378.8	387.8	408.4	434.1	507.3	753.8	2151.0	15486.2	23009.1	22776.6	22776.6
67.5°	337.7	339.0	345.5	367.3	390.4	423.8	571.5	1455.0	14539.7	23764.2	24940.5	24940.5
70°	299.2	300.5	309.5	323.6	342.9	366.0	446.9	1003.0	10583.1	19792.1	22300.2	22300.2
72.5°	256.8	262.0	268.4	283.8	295.4	312.1	364.7	649.8	6157.8	12731.6	14741.4	14741.4
75°	210.6	217.0	224.7	240.1	247.9	254.3	300.5	463.6	2962.7	6451.8	7346.9	7346.9
77.5°	163.1	169.5	178.5	192.6	197.8	205.5	229.9	335.2	1419.0	2859.9	3083.4	3083.4
80°	109.2	111.7	119.4	136.1	145.1	150.3	169.5	228.6	616.4	1148.1	1137.8	1137.8
82.5°	66.8	68.1	70.6	80.9	84.8	89.9	110.4	140.0	294.1	1304.7	1496.1	1496.1
85°	24.4	23.1	21.8	28.3	33.4	38.5	51.4	70.6	128.4	896.4	1003.0	1003.0
87.5°	0.0	0.0	0.0	1.3	2.6	2.6	5.1	10.3	30.8	335.2	229.9	229.9
90°	0.0	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°	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2	3001.2
2.5°	3011.5	2997.3	3015.3	3028.2	3056.4	3066.7	3069.2	3060.3	3060.3	3044.8	3047.4
5°	3046.1	3037.1	3066.7	3088.5	3129.6	3145.0	3155.3	3148.9	3152.7	3142.4	3145.0
7.5°	3098.8	3091.1	3142.4	3184.8	3227.2	3245.2	3254.2	3249.0	3250.3	3237.5	3241.3
10°	3172.0	3174.5	3236.2	3291.4	3347.9	3365.9	3369.7	3354.3	3341.5	3318.4	3319.7
12.5°	3272.1	3285.0	3372.3	3434.0	3491.7	3517.4	3489.2	3432.7	3380.0	3340.2	3335.1
15°	3381.3	3404.4	3530.3	3608.6	3671.5	3658.7	3575.2	3448.1	3344.1	3285.0	3273.4
17.5°	3512.3	3547.0	3704.9	3798.7	3852.6	3770.4	3595.8	3405.7	3260.6	3181.0	3165.6
20°	3635.6	3690.8	3889.9	4011.8	4018.3	3833.3	3586.8	3319.7	3137.3	3039.7	3019.2
22.5°	3748.6	3819.2	4083.8	4239.2	4155.7	3861.6	3531.6	3197.7	2988.3	2874.0	2856.1
25°	3871.9	3972.0	4309.8	4454.9	4293.1	3850.0	3416.0	3046.1	2808.6	2691.7	2678.8
27.5°	3956.6	4082.5	4537.1	4675.8	4406.1	3784.5	3267.0	2880.5	2644.2	2533.7	2515.8
30°	4054.2	4214.8	4787.5	4915.9	4475.4	3688.2	3107.8	2726.4	2491.4	2371.9	2359.1
32.5°	4231.4	4433.1	5098.3	5170.2	4497.3	3568.8	2955.0	2577.4	2332.1	2212.7	2194.7
35°	4516.5	4752.8	5534.9	5454.0	4480.6	3437.8	2809.8	2402.7	2169.0	2057.3	2039.3
37.5°	4876.1	5170.2	6021.6	5709.6	4434.4	3294.0	2637.8	2256.3	2022.6	1909.6	1899.3
40°	5211.3	5573.4	6567.4	5930.4	4340.6	3116.8	2472.1	2103.5	1864.7	1745.2	1722.1
42.5°	5631.2	6112.8	7199.2	6121.8	4186.5	2904.9	2285.9	1914.7	1666.9	1559.0	1530.8
45°	6269.5	6867.9	7933.8	6305.4	3956.6	2644.2	2052.2	1684.9	1449.9	1339.4	1317.6
47.5°	7065.7	7811.8	8730.0	6414.6	3607.3	2369.4	1787.6	1442.2	1207.2	1082.6	1072.3
50°	8184.2	9184.6	9584.0	6395.3	3216.9	2043.2	1489.7	1153.2	956.7	866.8	852.7
52.5°	9546.8	10908.0	10507.3	6164.2	2802.1	1672.0	1160.9	905.4	759.0	694.8	683.2
55°	11256.0	12971.7	11479.5	5668.5	2278.2	1280.4	911.8	714.0	613.8	575.3	570.2
57.5°	13372.4	15644.2	12415.7	4833.7	1713.1	977.3	702.5	589.4	541.9	518.8	517.5
60°	16165.5	18481.0	13228.6	3756.3	1226.4	747.4	580.5	526.5	489.3	473.9	472.6
62.5°	19486.5	21057.1	13734.5	2558.1	922.1	595.9	511.1	477.7	455.9	446.9	445.6
65°	22899.9	22685.4	13493.1	1675.9	699.9	506.0	458.5	440.5	421.2	412.2	412.2
67.5°	24916.1	22341.3	11640.0	1163.5	554.8	444.3	413.5	396.8	364.7	357.0	357.0
70°	22069.0	18103.4	7629.4	851.4	449.5	389.1	359.6	336.5	323.6	315.9	314.6
72.5°	14596.2	11780.0	4056.8	590.7	375.0	331.3	304.4	295.4	280.0	272.3	271.0
75°	7264.7	6187.3	2079.1	426.4	312.1	265.8	254.3	250.4	237.6	227.3	224.7
77.5°	3028.2	2754.6	969.6	309.5	237.6	214.5	204.2	204.2	190.1	178.5	173.4
80°	1141.7	1017.1	458.5	211.9	175.9	159.2	152.8	147.7	136.1	122.0	114.3
82.5°	1526.9	997.8	224.7	132.3	115.6	102.7	93.7	89.9	83.5	77.1	71.9
85°	988.8	708.9	101.5	68.1	57.8	43.7	38.5	36.0	32.1	28.3	25.7
87.5°	201.6	237.6	30.8	12.8	7.7	3.9	3.9	1.3	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)