

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: P638554

Luminaire Tested: GWS-SA4F-722-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638554  
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-SA4F-722-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25079.4 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
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

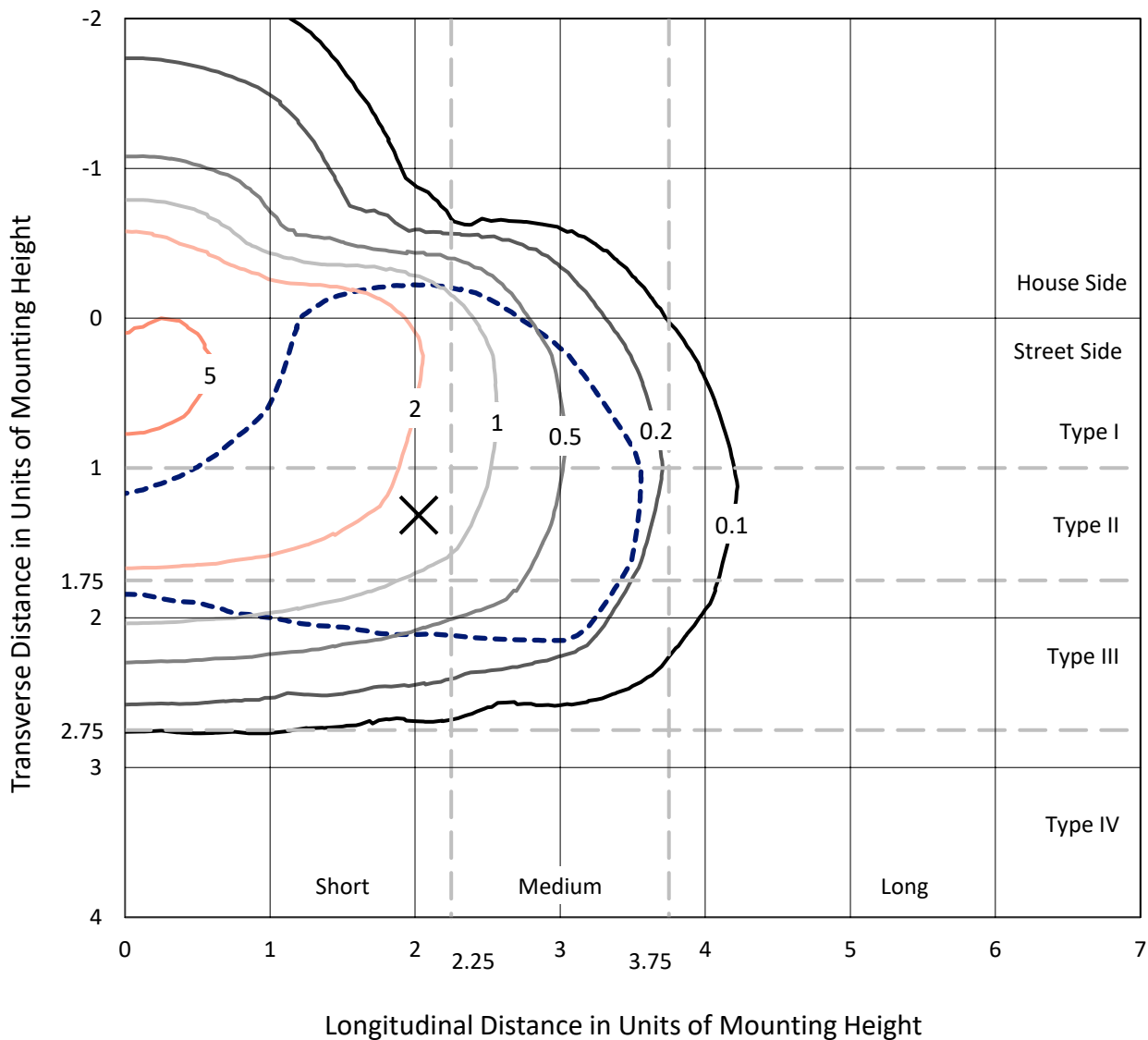


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### Iso-Footcandle Lines of Horizontal Illumination

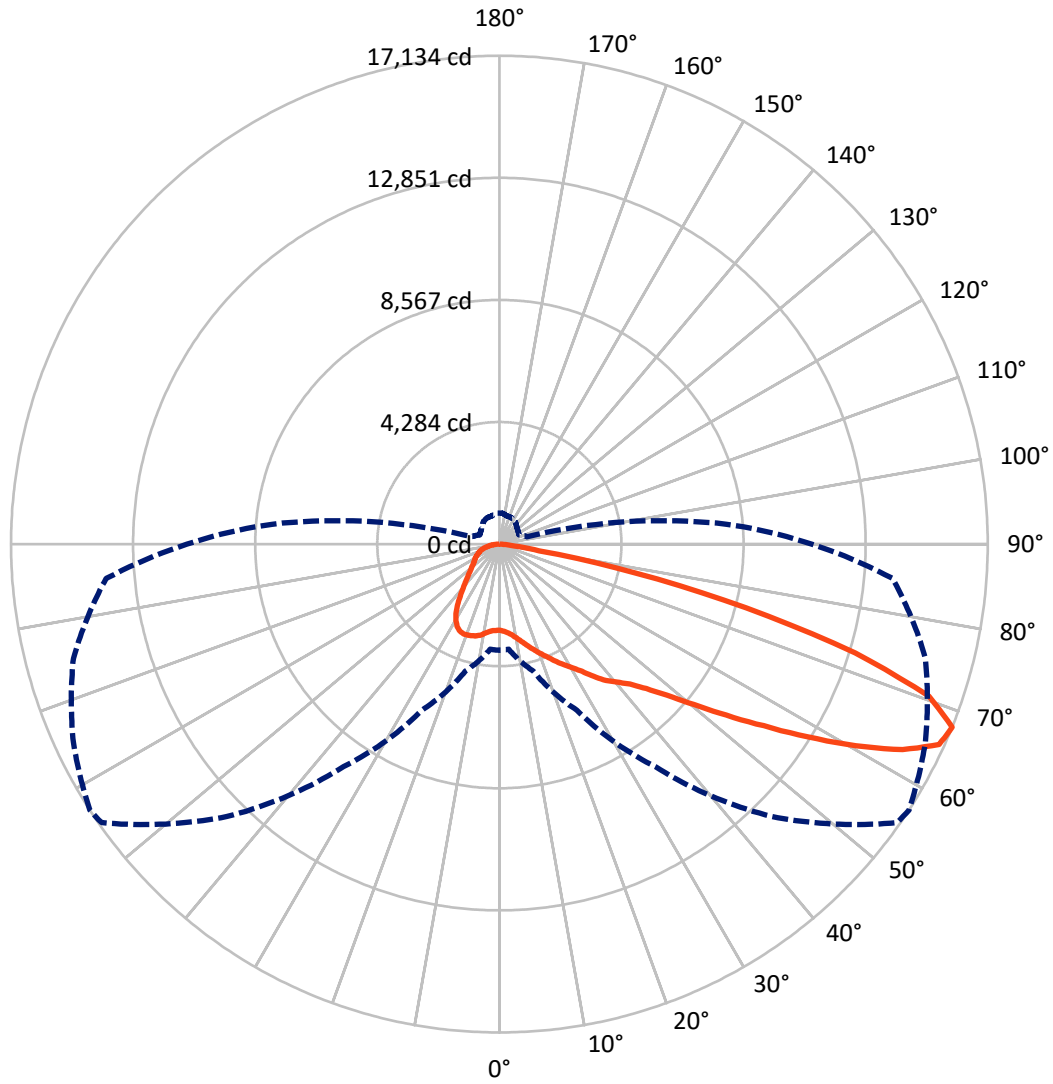
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5514.0	0.0	5514.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	19565.4	0.0	19565.4
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	25079.4	0.0	25079.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.7	1.2
10°-20°	992.2	4.0
20°-30°	1768.9	7.1
30°-40°	2571.7	10.3
40°-50°	3722.2	14.8
50°-60°	5825.1	23.2
60°-70°	6795.3	27.1
70°-80°	2836.6	11.3
80°-90°	267.7	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°	25079.4	100.0
0°-180°	25079.4	100.0

**Coefficient of Utilization**



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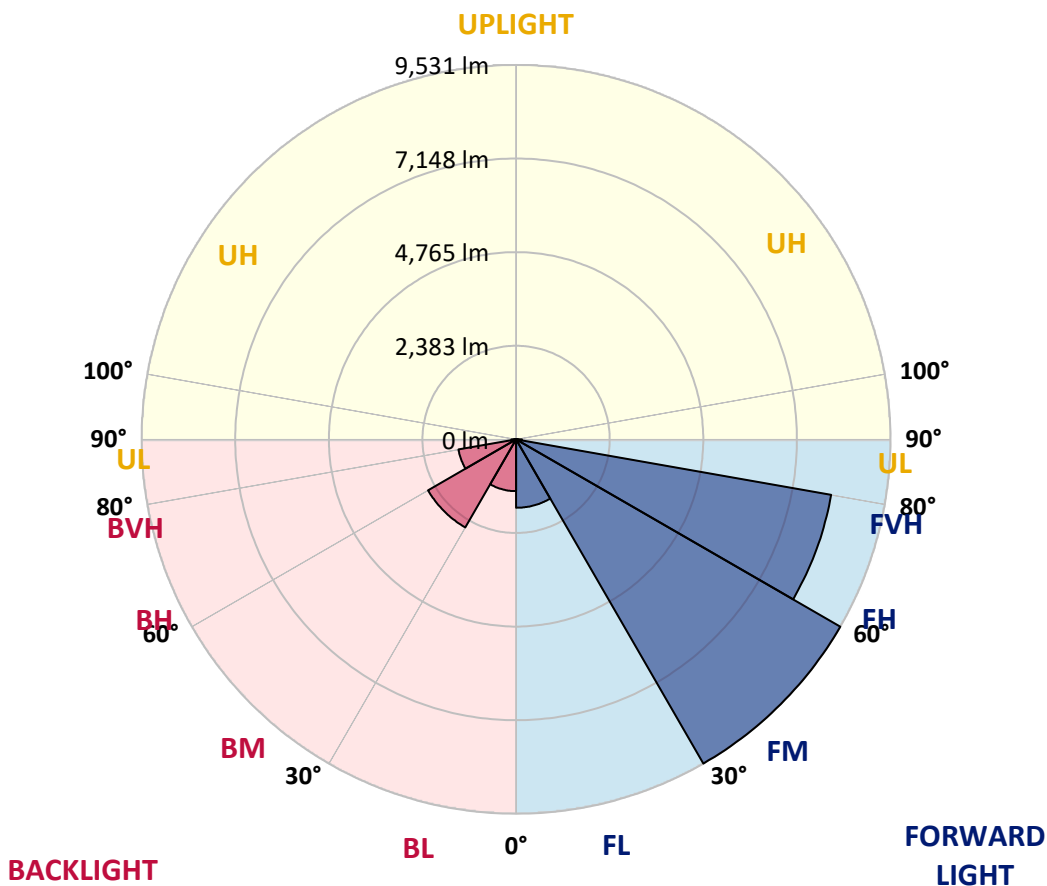
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1742.0	6.9			
FM (30°-60°)	9530.5	38.0			
FH (60°-80°)	8143.7	32.5			G4/12000
FVH (80°-90°)	149.1	0.6			G2/225
BL (0°-30°)	1318.8	5.3	B3/2500		
BM (30°-60°)	2588.4	10.3	B3/5000		
BH (60°-80°)	1488.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	118.6	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9
2.5°	3065.0	3061.4	3059.6	3070.4	3066.8	3065.0	3065.0	3063.2	3059.6	3045.3	3025.5
5°	3149.5	3142.3	3135.1	3144.1	3136.9	3129.7	3127.9	3124.3	3111.7	3090.2	3059.6
7.5°	3237.5	3230.3	3232.1	3237.5	3232.1	3228.5	3223.1	3219.5	3199.8	3165.6	3124.3
10°	3361.5	3361.5	3365.0	3370.4	3372.2	3366.8	3356.1	3350.7	3327.3	3284.2	3226.7
12.5°	3541.1	3537.5	3537.5	3533.9	3539.3	3533.9	3523.2	3514.2	3485.4	3429.7	3347.1
15°	3778.3	3763.9	3751.3	3728.0	3720.8	3701.0	3704.6	3699.2	3672.3	3596.8	3492.6
17.5°	4031.6	4029.8	4010.0	3963.3	3916.6	3884.3	3891.5	3889.7	3875.3	3772.9	3639.9
20°	4254.4	4263.4	4245.4	4209.5	4146.6	4085.5	4081.9	4090.9	4072.9	3970.5	3785.5
22.5°	4504.1	4496.9	4478.9	4432.2	4385.5	4320.8	4299.3	4292.1	4284.9	4168.1	3934.6
25°	4741.3	4762.8	4739.5	4696.3	4624.5	4554.4	4536.4	4543.6	4523.9	4369.4	4094.5
27.5°	5041.3	5050.3	5035.9	4976.6	4915.5	4816.7	4782.6	4782.6	4775.4	4558.0	4220.2
30°	5361.1	5386.2	5361.1	5312.6	5249.7	5107.8	5034.1	5026.9	5005.4	4752.0	4367.6
32.5°	5682.7	5700.6	5682.7	5636.0	5564.1	5440.1	5334.1	5318.0	5289.2	4964.0	4518.5
35°	5968.3	5984.5	5980.9	5991.7	5932.4	5776.1	5711.4	5704.2	5628.8	5240.7	4723.3
37.5°	6280.9	6300.7	6273.8	6295.3	6272.0	6124.6	6104.9	6068.9	5961.1	5501.2	4938.9
40°	6636.7	6654.6	6611.5	6620.5	6593.6	6510.9	6410.3	6361.8	6201.9	5783.3	5278.4
42.5°	7017.6	7058.9	7078.6	7062.5	6999.6	6952.9	6776.8	6715.7	6582.8	6291.7	5837.2
45°	7569.1	7630.2	7658.9	7617.6	7590.7	7524.2	7308.6	7234.9	7164.9	7008.6	6616.9
47.5°	8163.8	8219.5	8311.1	8329.1	8350.6	8300.3	7996.7	7924.8	7937.4	7919.5	7576.3
50°	8638.1	8684.8	8891.4	9112.4	9295.7	9310.0	8922.0	8844.7	8913.0	8970.5	8731.5
52.5°	8983.0	9024.4	9297.5	9753.8	10168.8	10476.0	10057.4	9969.4	10025.1	10154.4	10044.8
55°	9263.3	9320.8	9606.5	10307.1	11146.2	11631.2	11363.6	11252.2	11228.8	11388.7	11451.6
57.5°	9410.6	9428.6	9829.2	10740.1	11863.0	12764.9	12881.7	12755.9	12533.1	12621.2	12948.2
60°	9074.7	9105.2	9653.2	10851.5	12428.9	13889.6	14475.3	14371.1	13896.8	13945.3	14306.4
62.5°	8145.8	8188.9	8848.3	10321.5	12475.7	14640.6	15946.7	15880.2	15244.2	14981.9	15089.7
65°	6534.3	6548.6	7231.4	9010.0	11546.8	14734.0	16972.6	16956.4	16185.7	15571.2	15109.5
67.5°	3726.2	3701.0	4613.7	6426.5	9529.2	13519.5	17039.0	17134.3	16491.1	15474.2	13851.9
70°	1615.2	1618.7	2039.2	3171.0	6167.8	10927.0	15826.3	15989.8	15607.1	13859.0	11020.4
72.5°	747.4	758.2	939.6	1372.6	2633.8	6778.6	12905.0	13052.4	12723.6	11092.3	8018.3
75°	528.2	537.2	627.0	786.9	1210.9	2641.0	8632.7	8941.7	9101.6	8296.7	5283.8
77.5°	400.6	413.2	458.1	546.2	747.4	936.0	4130.4	4867.0	5797.7	5161.7	2721.9
80°	255.1	255.1	303.6	364.7	456.3	486.9	1192.9	1413.9	2836.8	2127.2	1069.0
82.5°	172.5	177.9	206.6	231.8	262.3	276.7	512.0	546.2	819.3	724.0	440.2
85°	91.6	95.2	107.8	106.0	125.8	109.6	215.6	213.8	300.0	328.8	167.1
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	23.4	25.2	62.9	100.6	55.7
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°	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9
2.5°	3036.3	3014.7	3025.5	3021.9	3032.7	3032.7	3012.9	3007.5	3009.3	2987.8	2980.6
5°	3063.2	3038.1	3043.5	3036.3	3047.0	3056.0	3047.0	3047.0	3057.8	3041.7	3032.7
7.5°	3124.3	3095.6	3095.6	3086.6	3099.2	3106.3	3099.2	3109.9	3129.7	3113.5	3104.5
10°	3221.3	3187.2	3189.0	3178.2	3183.6	3180.0	3151.3	3142.3	3147.7	3133.3	3126.1
12.5°	3347.1	3300.4	3300.4	3278.8	3266.2	3228.5	3169.2	3147.7	3151.3	3138.7	3133.3
15°	3467.5	3424.3	3415.4	3372.2	3314.7	3244.7	3190.8	3176.4	3180.0	3167.4	3158.4
17.5°	3609.4	3553.7	3521.4	3442.3	3336.3	3264.4	3210.5	3176.4	3147.7	3118.9	3111.7
20°	3740.5	3670.5	3611.2	3489.0	3359.7	3260.8	3160.2	3075.8	3005.7	2968.0	2959.0
22.5°	3875.3	3785.5	3681.3	3521.4	3357.9	3196.2	3011.1	2883.6	2779.4	2723.7	2734.4
25°	4002.8	3889.7	3747.7	3551.9	3300.4	3052.4	2800.9	2610.5	2491.9	2448.8	2436.2
27.5°	4108.8	3968.7	3808.8	3537.5	3181.8	2845.8	2513.5	2301.5	2186.5	2138.0	2125.4
30°	4227.4	4069.3	3896.8	3471.0	2994.9	2556.6	2188.3	2015.8	1933.2	1886.4	1888.2
32.5°	4364.0	4198.7	4020.8	3343.5	2756.0	2244.0	1920.6	1802.0	1735.5	1688.8	1681.6
35°	4547.2	4383.7	4103.5	3151.3	2452.4	1956.5	1737.3	1640.3	1557.7	1496.6	1484.0
37.5°	4773.6	4662.2	4112.4	2894.3	2127.2	1758.9	1606.2	1502.0	1401.4	1320.5	1311.5
40°	5161.7	5034.1	4038.8	2572.7	1850.5	1631.3	1496.6	1376.2	1259.4	1169.6	1157.0
42.5°	5715.0	5452.7	3880.7	2209.8	1642.1	1530.7	1392.4	1239.7	1121.1	1058.2	1049.2
45°	6419.3	5919.8	3643.5	1868.5	1487.6	1431.9	1282.8	1122.9	1060.0	1015.1	1006.1
47.5°	7281.7	6464.2	3370.4	1602.6	1367.2	1342.1	1171.4	1083.4	1027.7	989.9	980.9
50°	8312.9	7157.7	3145.9	1394.2	1259.4	1237.9	1135.5	1060.0	1015.1	984.5	977.4
52.5°	9489.7	7928.4	3036.3	1245.1	1166.0	1144.4	1122.9	1054.6	1016.9	993.5	984.5
55°	10711.4	8740.5	2933.9	1130.1	1086.9	1099.5	1124.7	1072.6	1043.8	1013.3	1004.3
57.5°	11891.8	9502.3	2682.3	1040.2	1029.5	1078.0	1133.7	1090.5	1056.4	1025.9	1015.1
60°	12705.6	9919.1	2256.5	968.4	986.3	1051.0	1110.3	1063.6	1020.5	1007.9	1002.5
62.5°	12924.8	9868.8	1751.7	894.7	934.2	991.7	1049.2	1018.7	973.8	993.5	995.3
65°	12412.8	9329.8	1315.1	822.8	866.0	914.5	986.3	973.8	957.6	1011.5	1013.3
67.5°	10962.9	8005.7	1002.5	760.0	795.9	855.2	966.6	1018.7	1022.3	1090.5	1083.4
70°	8294.9	5980.9	785.1	700.7	742.0	855.2	1029.5	1052.8	1009.7	1072.6	1058.2
72.5°	5734.8	3947.2	668.3	648.6	675.5	815.7	1027.7	1027.7	980.9	980.9	954.0
75°	3562.7	2321.2	582.1	582.1	582.1	713.3	998.9	946.8	864.2	826.4	804.9
77.5°	1758.9	1128.3	488.7	506.6	486.9	596.5	815.7	774.3	724.0	684.5	670.1
80°	751.0	564.1	395.3	415.0	391.7	449.2	646.8	637.8	589.3	537.2	521.0
82.5°	344.9	291.1	316.2	325.2	285.7	337.8	472.5	472.5	445.6	373.7	346.7
85°	147.3	154.5	219.2	219.2	179.7	190.4	253.3	240.7	215.6	176.1	161.7
87.5°	50.3	75.5	111.4	97.0	37.7	16.2	9.0	3.6	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)