

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: P637259

Luminaire Tested: GWS-SA4C-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

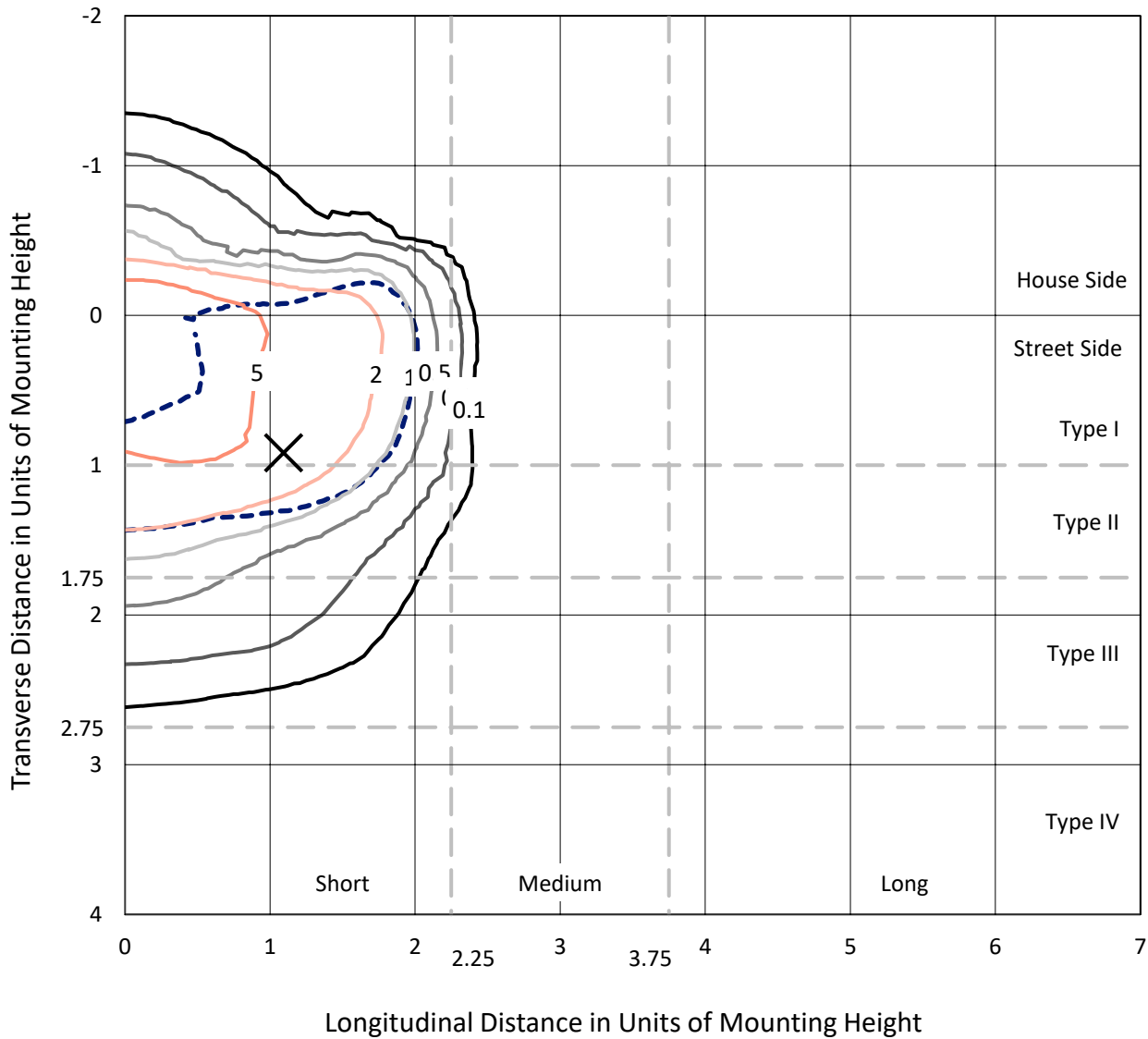
Lumens per Lamp: N/A  
Luminaire Lumens: 11398.3 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637259  
 CATALOG NUMBER: GWS-SA4C-740-U-SL2-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

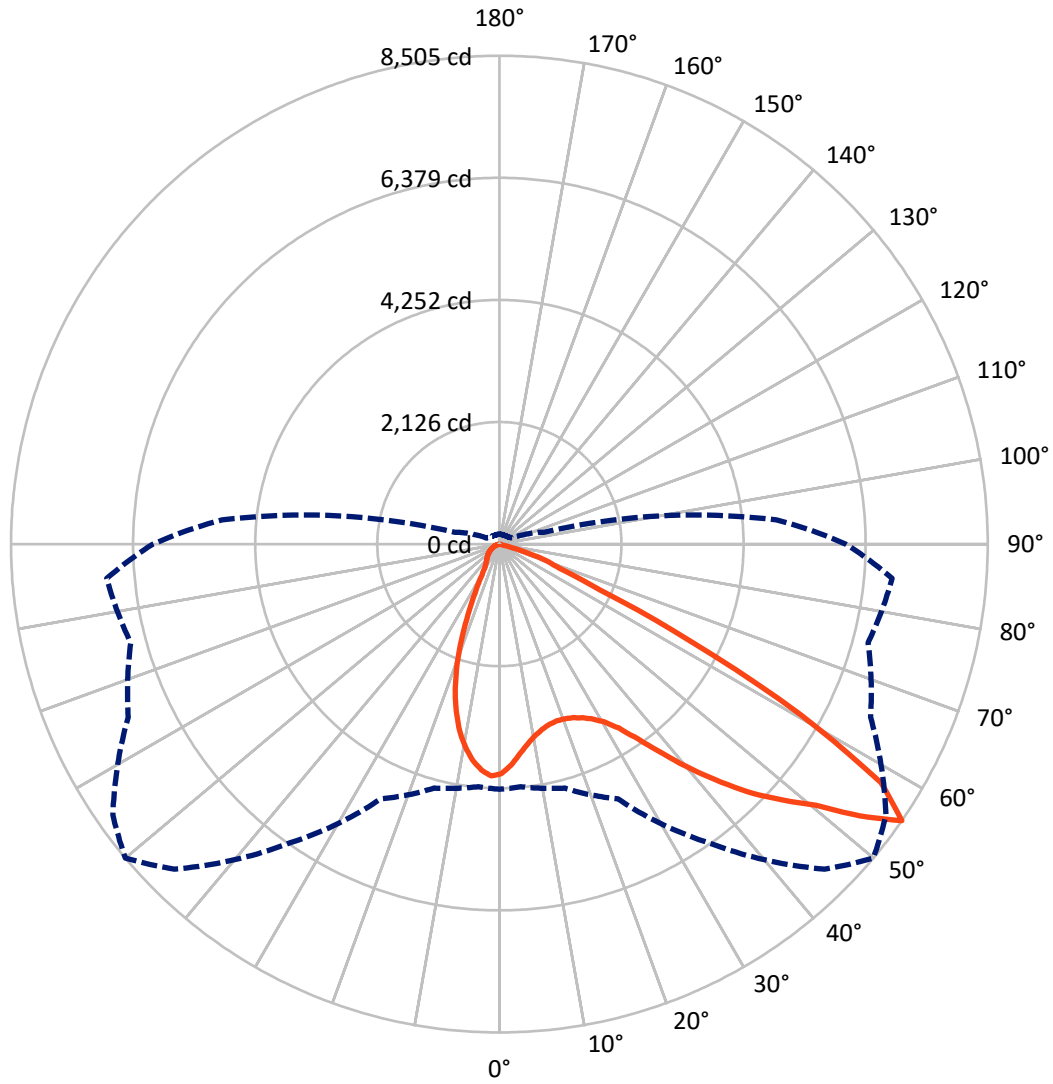
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

REPORT NUMBER: P637259  
CATALOG NUMBER: GWS-SA4C-740-U-SL2-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P637259  
 CATALOG NUMBER: GWS-SA4C-740-U-SL2-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2246.0	0.0	2246.0
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	9152.3	0.0	9152.3
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	11398.3	0.0	11398.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.2	3.1
10°-20°	864.3	7.6
20°-30°	1219.1	10.7
30°-40°	1804.0	15.8
40°-50°	2602.6	22.8
50°-60°	3069.9	26.9
60°-70°	1369.4	12.0
70°-80°	117.7	1.0
80°-90°	0.1	0.0
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°	11398.3	100.0
0°-180°	11398.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637259

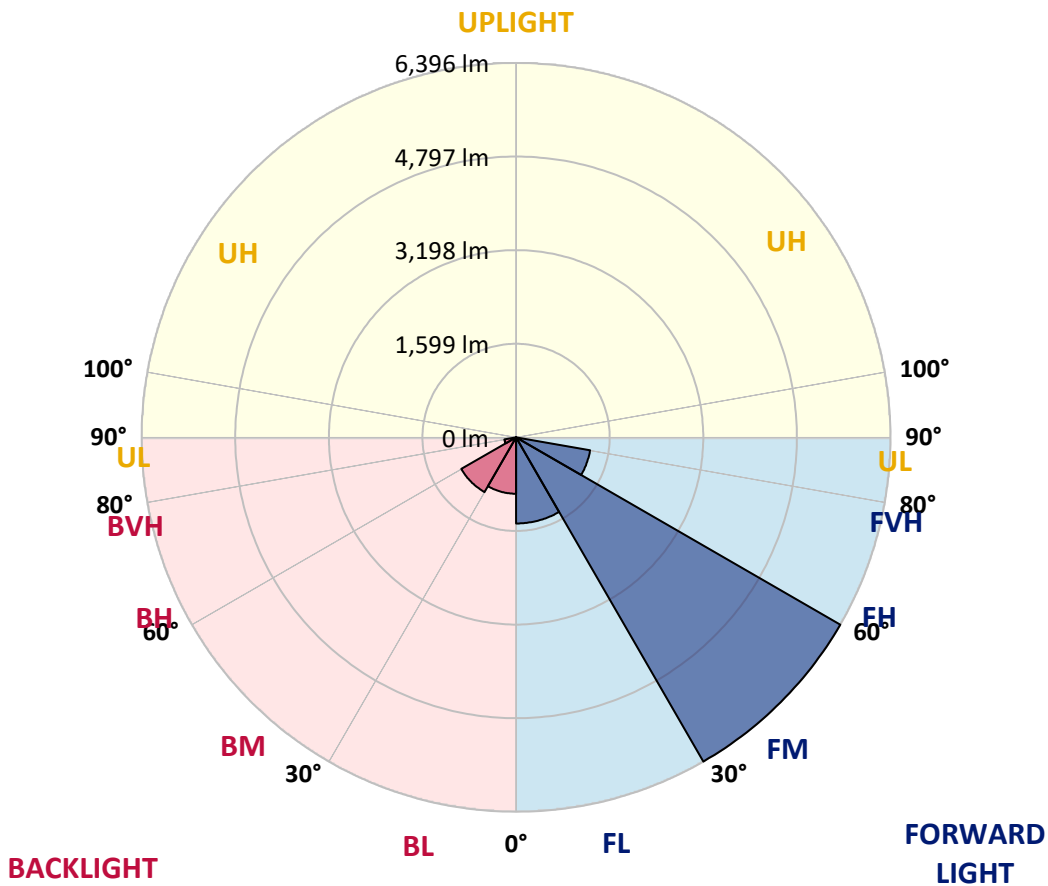
CATALOG NUMBER: GWS-SA4C-740-U-SL2-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.6	12.9			
FM (30°-60°)	6396.4	56.1			
FH (60°-80°)	1284.4	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	963.0	8.4	B2/1000		
BM (30°-60°)	1080.2	9.5	B2/2500		
BH (60°-80°)	202.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P637259

CATALOG NUMBER: GWS-SA4C-740-U-SL2-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2
2.5°	3715.3	3718.1	3719.5	3757.0	3771.0	3826.6	3855.8	3871.1	3911.5	3958.8	3997.8
5°	3466.2	3462.0	3469.0	3516.3	3546.9	3629.0	3673.5	3704.2	3793.2	3904.5	3997.8
7.5°	3249.1	3257.5	3265.8	3317.3	3363.2	3452.3	3516.3	3562.2	3686.1	3851.7	4008.9
10°	3096.1	3096.1	3108.6	3167.0	3221.3	3331.2	3395.2	3453.7	3601.2	3804.3	4021.4
12.5°	2983.4	2984.8	3000.1	3066.9	3129.5	3243.6	3310.4	3367.4	3530.2	3757.0	4024.2
15°	2930.5	2926.3	2938.8	3009.8	3079.4	3186.5	3256.1	3311.8	3480.1	3730.6	4038.1
17.5°	2916.6	2913.8	2923.5	2993.1	3064.1	3168.4	3236.6	3292.3	3473.2	3738.9	4079.9
20°	2956.9	2951.4	2947.2	3007.0	3073.8	3176.8	3247.7	3310.4	3506.6	3784.9	4143.9
22.5°	3052.9	3052.9	3043.2	3072.4	3116.9	3210.2	3283.9	3366.0	3594.2	3876.7	4238.5
25°	3229.7	3215.7	3197.7	3210.2	3204.6	3263.1	3350.7	3464.8	3759.8	4028.4	4354.0
27.5°	3431.4	3444.0	3413.3	3414.7	3366.0	3345.2	3446.7	3619.3	4006.1	4242.7	4525.1
30°	3705.6	3695.8	3697.2	3693.0	3580.3	3481.5	3591.4	3821.0	4316.4	4569.7	4747.8
32.5°	3919.8	3933.8	3979.7	4006.1	3858.6	3700.0	3816.9	4095.2	4669.9	4942.6	5020.5
35°	4146.7	4171.7	4264.9	4351.2	4227.4	4045.1	4170.3	4458.4	5002.4	5311.3	5333.6
37.5°	4386.0	4436.1	4547.4	4699.1	4679.6	4518.2	4632.3	4885.5	5264.0	5534.0	5592.4
40°	4660.1	4708.8	4891.1	5109.6	5155.5	5119.3	5156.9	5304.4	5436.6	5543.7	5703.7
42.5°	4960.7	5027.5	5258.5	5550.7	5723.2	5755.2	5667.6	5652.3	5511.7	5432.4	5680.1
45°	5315.5	5393.4	5655.0	6033.5	6307.6	6350.8	6199.1	6002.9	5559.0	5350.3	5609.1
47.5°	5713.5	5787.2	6047.4	6502.5	6910.2	6926.9	6662.5	6346.6	5699.6	5444.9	5663.4
50°	5847.1	5893.0	6118.4	6652.7	7404.1	7532.2	7149.5	6733.4	5982.0	5723.2	5927.8
52.5°	5387.9	5406.0	5602.2	6142.1	7304.0	8126.3	7860.6	7310.9	6484.4	6147.6	6335.5
55°	4269.1	4239.9	4398.5	4893.9	6348.0	8005.3	8504.8	8218.2	7131.4	6645.8	6865.6
57.5°	2986.1	2951.4	2915.2	3250.5	4736.6	6786.3	7836.9	8344.8	7747.8	7139.8	7437.5
60°	2454.6	2421.2	2245.9	2091.4	2863.7	4873.0	6019.6	6975.6	7697.8	7114.7	7419.5
62.5°	2120.6	2101.2	2030.2	1820.1	1685.1	2781.6	3769.6	4685.2	5906.9	5586.9	5603.6
65°	1665.6	1660.1	1708.8	1731.0	1490.3	1539.0	1923.0	2435.1	3193.5	3011.2	2855.3
67.5°	1138.2	1125.7	1217.6	1497.2	1433.2	1214.8	1125.7	1135.5	1381.8	844.6	670.7
70°	723.6	694.4	695.7	928.1	1166.1	958.7	868.3	763.9	687.4	125.2	141.9
72.5°	463.4	445.3	382.7	418.8	539.9	467.5	471.7	406.3	271.3	66.8	77.9
75°	194.8	179.5	137.8	109.9	108.5	68.2	59.8	55.7	37.6	37.6	40.4
77.5°	1.4	0.0	0.0	1.4	2.8	1.4	1.4	2.8	5.6	8.3	9.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P637259

CATALOG NUMBER: GWS-SA4C-740-U-SL2-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2	3999.2
2.5°	4021.4	3988.0	4025.6	4039.5	4038.1	4039.5	3999.2	3971.3	3969.9	3935.1	3918.5
5°	4036.7	4010.3	4038.1	4020.0	3976.9	3922.6	3850.3	3787.7	3759.8	3719.5	3700.0
7.5°	4065.9	4038.1	4033.9	3961.6	3854.4	3740.3	3612.3	3498.2	3437.0	3363.2	3367.4
10°	4086.8	4054.8	4000.5	3853.1	3674.9	3492.7	3302.0	3132.3	3025.1	2926.3	2909.6
12.5°	4095.2	4047.9	3921.2	3698.6	3448.1	3210.2	2930.5	2688.4	2521.4	2392.0	2373.9
15°	4110.5	4033.9	3819.7	3512.1	3168.4	2831.7	2475.5	2144.3	1923.0	1774.2	1786.7
17.5°	4134.1	4018.6	3705.6	3303.4	2867.9	2392.0	1910.5	1530.6	1327.5	1241.2	1242.6
20°	4167.5	4000.5	3580.3	3073.8	2507.5	1895.2	1335.8	1049.2	992.1	989.4	985.2
22.5°	4212.1	3982.5	3446.7	2822.0	2080.3	1327.5	889.2	800.1	823.8	869.7	878.0
25°	4264.9	3960.2	3297.8	2538.1	1614.1	871.1	666.5	652.6	709.7	770.9	784.8
27.5°	4347.0	3949.1	3128.1	2215.3	1132.7	624.8	545.5	553.8	605.3	656.8	669.3
30°	4486.2	3969.9	2943.0	1853.5	727.8	498.2	473.1	485.6	513.5	539.9	551.0
32.5°	4675.4	4031.2	2763.5	1458.3	519.0	432.8	427.2	434.1	445.3	460.6	464.8
35°	4896.7	4136.9	2578.4	1043.6	428.6	395.2	389.6	389.6	395.2	398.0	399.4
37.5°	5079.0	4248.2	2404.5	694.4	384.1	366.0	357.6	353.4	352.0	354.8	356.2
40°	5158.3	4294.2	2215.3	505.1	352.0	339.5	327.0	314.5	314.5	324.2	325.6
42.5°	5102.6	4242.7	1996.8	417.4	329.8	311.7	292.2	281.1	286.6	296.4	299.2
45°	4984.3	4116.0	1756.1	368.7	307.5	283.9	261.6	254.6	260.2	272.7	275.5
47.5°	4964.9	4032.6	1468.0	336.7	283.9	260.2	236.6	229.6	236.6	246.3	249.1
50°	5158.3	4104.9	1148.0	308.9	261.6	235.2	215.7	208.7	212.9	218.5	221.2
52.5°	5511.7	4373.5	926.7	282.5	235.2	210.1	197.6	189.2	189.2	194.8	196.2
55°	6033.5	4842.4	800.1	251.9	204.5	190.6	179.5	171.2	171.2	173.9	175.3
57.5°	6634.6	5410.1	829.3	211.5	179.5	172.5	162.8	155.8	158.6	158.6	158.6
60°	6551.2	5368.4	887.8	178.1	158.6	155.8	147.5	144.7	151.7	146.1	143.3
62.5°	4825.7	3708.3	464.8	146.1	136.4	133.6	128.0	133.6	143.3	128.0	122.5
65°	2343.3	1795.0	186.5	119.7	115.5	112.7	109.9	118.3	123.8	100.2	94.6
67.5°	551.0	448.1	121.1	101.6	96.0	90.4	93.2	94.6	90.4	68.2	65.4
70°	143.3	140.5	94.6	84.9	76.5	71.0	71.0	69.6	59.8	43.1	40.4
72.5°	77.9	76.5	68.2	64.0	52.9	47.3	48.7	43.1	33.4	25.0	23.7
75°	39.0	41.7	39.0	36.2	29.2	26.4	26.4	23.7	16.7	9.7	9.7
77.5°	8.3	9.7	9.7	8.3	7.0	5.6	5.6	7.0	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)