

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: P637204

Luminaire Tested: GWS-SA4C-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637204  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

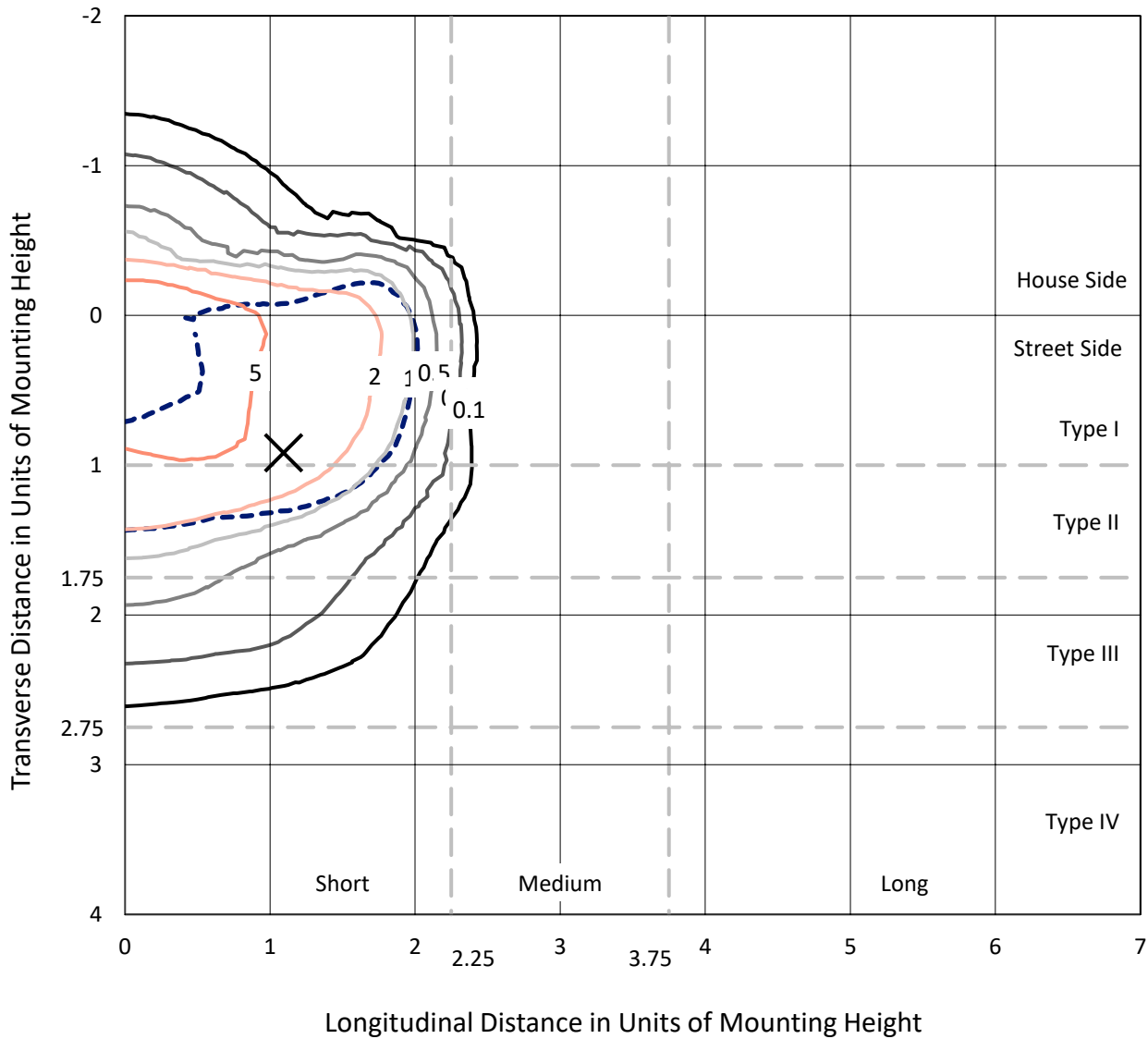
Lumens per Lamp: N/A  
Luminaire Lumens: 11242.1 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

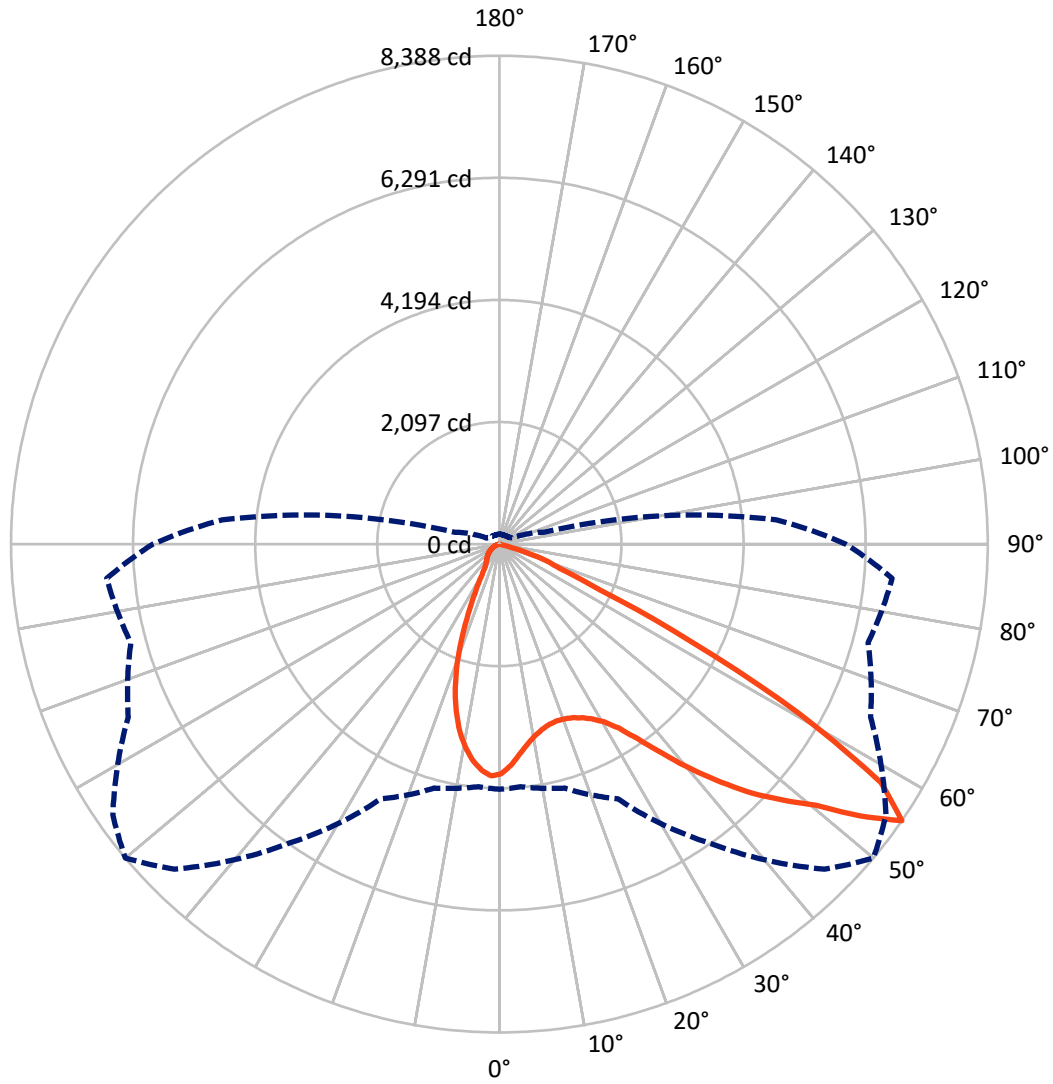
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2215.2	0.0	2215.2
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	9026.9	0.0	9026.9
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	11242.1	0.0	11242.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.4	3.1
10°-20°	852.4	7.6
20°-30°	1202.4	10.7
30°-40°	1779.3	15.8
40°-50°	2566.9	22.8
50°-60°	3027.9	26.9
60°-70°	1350.7	12.0
70°-80°	116.1	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°	11242.1	100.0
0°-180°	11242.1	100.0

**Coefficient of Utilization**



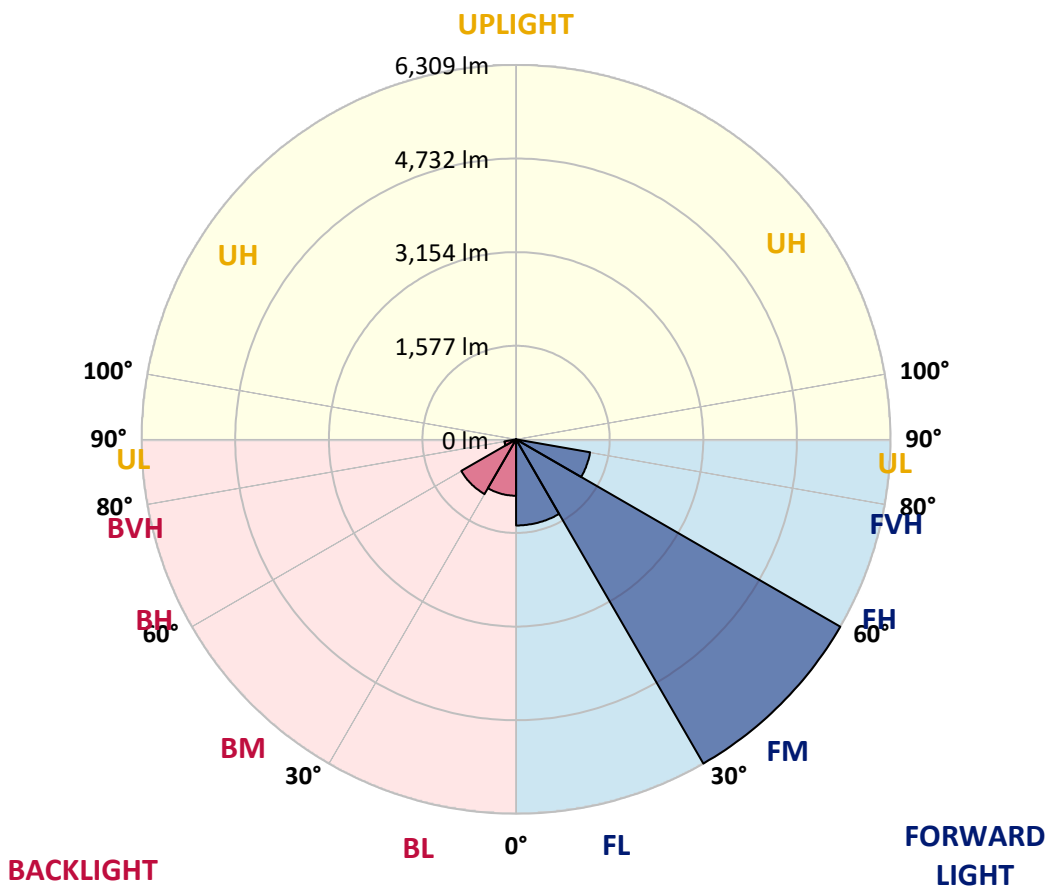
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.4	12.9			
FM (30°-60°)	6308.7	56.1			
FH (60°-80°)	1266.8	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	949.8	8.4	B2/1000		
BM (30°-60°)	1065.4	9.5	B2/2500		
BH (60°-80°)	200.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4
2.5°	3664.4	3667.1	3668.5	3705.6	3719.3	3774.2	3803.0	3818.1	3857.9	3904.6	3943.0
5°	3418.7	3414.6	3421.5	3468.1	3498.3	3579.3	3623.2	3653.4	3741.2	3851.0	3943.0
7.5°	3204.6	3212.9	3221.1	3271.9	3317.2	3405.0	3468.1	3513.4	3635.6	3798.9	3954.0
10°	3053.6	3053.6	3066.0	3123.6	3177.2	3285.6	3348.7	3406.4	3551.8	3752.2	3966.3
12.5°	2942.5	2943.9	2959.0	3024.8	3086.6	3199.1	3265.0	3321.3	3481.8	3705.6	3969.1
15°	2890.3	2886.2	2898.6	2968.6	3037.2	3142.9	3211.5	3266.4	3432.4	3679.5	3982.8
17.5°	2876.6	2873.9	2883.5	2952.1	3022.1	3125.0	3192.3	3247.2	3425.6	3687.7	4024.0
20°	2916.4	2910.9	2906.8	2965.8	3031.7	3133.2	3203.2	3265.0	3458.5	3733.0	4087.1
22.5°	3011.1	3011.1	3001.5	3030.3	3074.2	3166.2	3238.9	3319.9	3545.0	3823.6	4180.4
25°	3185.4	3171.7	3153.8	3166.2	3160.7	3218.3	3304.8	3417.3	3708.3	3973.2	4294.3
27.5°	3384.4	3396.8	3366.6	3367.9	3319.9	3299.3	3399.5	3569.7	3951.2	4184.5	4463.1
30°	3654.8	3645.2	3646.5	3642.4	3531.3	3433.8	3542.2	3768.7	4257.3	4507.0	4682.7
32.5°	3866.1	3879.8	3925.1	3951.2	3805.7	3649.3	3764.6	4039.1	4605.9	4874.9	4951.7
35°	4089.8	4114.5	4206.5	4291.6	4169.4	3989.6	4113.2	4397.3	4933.9	5238.6	5260.5
37.5°	4325.9	4375.3	4485.1	4634.7	4615.5	4456.3	4568.8	4818.6	5191.9	5458.1	5515.8
40°	4596.3	4644.3	4824.1	5039.6	5084.8	5049.2	5086.2	5231.7	5362.1	5467.7	5625.6
42.5°	4892.7	4958.6	5186.4	5474.6	5644.8	5676.4	5589.9	5574.8	5436.2	5358.0	5602.2
45°	5242.7	5319.5	5577.5	5950.8	6221.2	6263.8	6114.2	5920.6	5482.8	5277.0	5532.3
47.5°	5635.2	5707.9	5964.6	6413.3	6815.5	6831.9	6571.2	6259.6	5621.5	5370.3	5585.8
50°	5766.9	5812.2	6034.6	6561.6	7302.7	7428.9	7051.5	6641.2	5900.1	5644.8	5846.5
52.5°	5314.0	5331.9	5525.4	6057.9	7203.9	8015.0	7752.8	7210.7	6395.5	6063.4	6248.7
55°	4210.6	4181.8	4338.2	4826.8	6261.0	7895.6	8388.3	8105.6	7033.7	6554.7	6771.6
57.5°	2945.2	2910.9	2875.2	3206.0	4671.7	6693.3	7729.5	8230.4	7641.7	7041.9	7335.6
60°	2421.0	2388.0	2215.1	2062.8	2824.5	4806.2	5937.1	6880.0	7592.3	7017.2	7317.8
62.5°	2091.6	2072.4	2002.4	1795.1	1662.0	2743.5	3717.9	4621.0	5826.0	5510.3	5526.8
65°	1642.8	1637.3	1685.3	1707.3	1469.9	1517.9	1896.7	2401.7	3149.7	2969.9	2816.2
67.5°	1122.6	1110.3	1200.9	1476.7	1413.6	1198.1	1110.3	1119.9	1362.8	833.1	661.5
70°	713.7	684.8	686.2	915.4	1150.1	945.6	856.4	753.5	678.0	123.5	140.0
72.5°	457.0	439.2	377.4	413.1	532.5	461.1	465.3	400.7	267.6	65.9	76.9
75°	192.1	177.0	135.9	108.4	107.0	67.2	59.0	54.9	37.1	37.1	39.8
77.5°	1.4	0.0	0.0	1.4	2.7	1.4	1.4	2.7	5.5	8.2	9.6
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4	3944.4
2.5°	3966.3	3933.4	3970.4	3984.2	3982.8	3984.2	3944.4	3916.9	3915.5	3881.2	3864.8
5°	3981.4	3955.3	3982.8	3964.9	3922.4	3868.9	3797.5	3735.7	3708.3	3668.5	3649.3
7.5°	4010.2	3982.8	3978.7	3907.3	3801.6	3689.1	3562.8	3450.3	3389.9	3317.2	3321.3
10°	4030.8	3999.3	3945.7	3800.2	3624.6	3444.8	3256.8	3089.3	2983.7	2886.2	2869.7
12.5°	4039.1	3992.4	3867.5	3647.9	3400.9	3166.2	2890.3	2651.5	2486.8	2359.2	2341.4
15°	4054.1	3978.7	3767.3	3464.0	3125.0	2792.9	2441.5	2114.9	1896.7	1749.8	1762.2
17.5°	4077.5	3963.6	3654.8	3258.1	2828.6	2359.2	1884.3	1509.7	1309.3	1224.2	1225.6
20°	4110.4	3945.7	3531.3	3031.7	2473.1	1869.2	1317.5	1034.8	978.5	975.8	971.7
22.5°	4154.3	3927.9	3399.5	2783.3	2051.8	1309.3	877.0	789.1	812.5	857.8	866.0
25°	4206.5	3905.9	3252.7	2503.3	1592.0	859.1	657.4	643.7	699.9	760.3	774.0
27.5°	4287.5	3894.9	3085.2	2184.9	1117.2	616.2	538.0	546.2	597.0	647.8	660.1
30°	4424.7	3915.5	2902.7	1828.1	717.8	491.3	466.6	479.0	506.4	532.5	543.5
32.5°	4611.4	3975.9	2725.6	1438.3	511.9	426.8	421.3	428.2	439.2	454.3	458.4
35°	4829.6	4080.2	2543.1	1029.3	422.7	389.8	384.3	384.3	389.8	392.5	393.9
37.5°	5009.4	4190.0	2371.6	684.8	378.8	360.9	352.7	348.6	347.2	350.0	351.3
40°	5087.6	4235.3	2184.9	498.2	347.2	334.9	322.5	310.2	310.2	319.8	321.1
42.5°	5032.7	4184.5	1969.4	411.7	325.3	307.4	288.2	277.2	282.7	292.3	295.1
45°	4916.0	4059.6	1732.0	363.7	303.3	280.0	258.0	251.2	256.6	269.0	271.7
47.5°	4896.8	3977.3	1447.9	332.1	280.0	256.6	233.3	226.5	233.3	242.9	245.7
50°	5087.6	4048.7	1132.3	304.7	258.0	231.9	212.7	205.9	210.0	215.5	218.2
52.5°	5436.2	4313.5	914.0	278.6	231.9	207.2	194.9	186.7	186.7	192.1	193.5
55°	5950.8	4776.0	789.1	248.4	201.7	188.0	177.0	168.8	168.8	171.6	172.9
57.5°	6543.7	5336.0	818.0	208.6	177.0	170.2	160.6	153.7	156.5	156.5	156.5
60°	6461.4	5294.8	875.6	175.7	156.5	153.7	145.5	142.7	149.6	144.1	141.4
62.5°	4759.6	3657.5	458.4	144.1	134.5	131.8	126.3	131.8	141.4	126.3	120.8
65°	2311.2	1770.4	183.9	118.0	113.9	111.2	108.4	116.7	122.1	98.8	93.3
67.5°	543.5	441.9	119.4	100.2	94.7	89.2	92.0	93.3	89.2	67.2	64.5
70°	141.4	138.6	93.3	83.7	75.5	70.0	70.0	68.6	59.0	42.5	39.8
72.5°	76.9	75.5	67.2	63.1	52.2	46.7	48.0	42.5	32.9	24.7	23.3
75°	38.4	41.2	38.4	35.7	28.8	26.1	26.1	23.3	16.5	9.6	9.6
77.5°	8.2	9.6	9.6	8.2	6.9	5.5	5.5	6.9	2.7	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)