

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: P633244

Luminaire Tested: GWS-SA2E-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633244  
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-SA2E-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

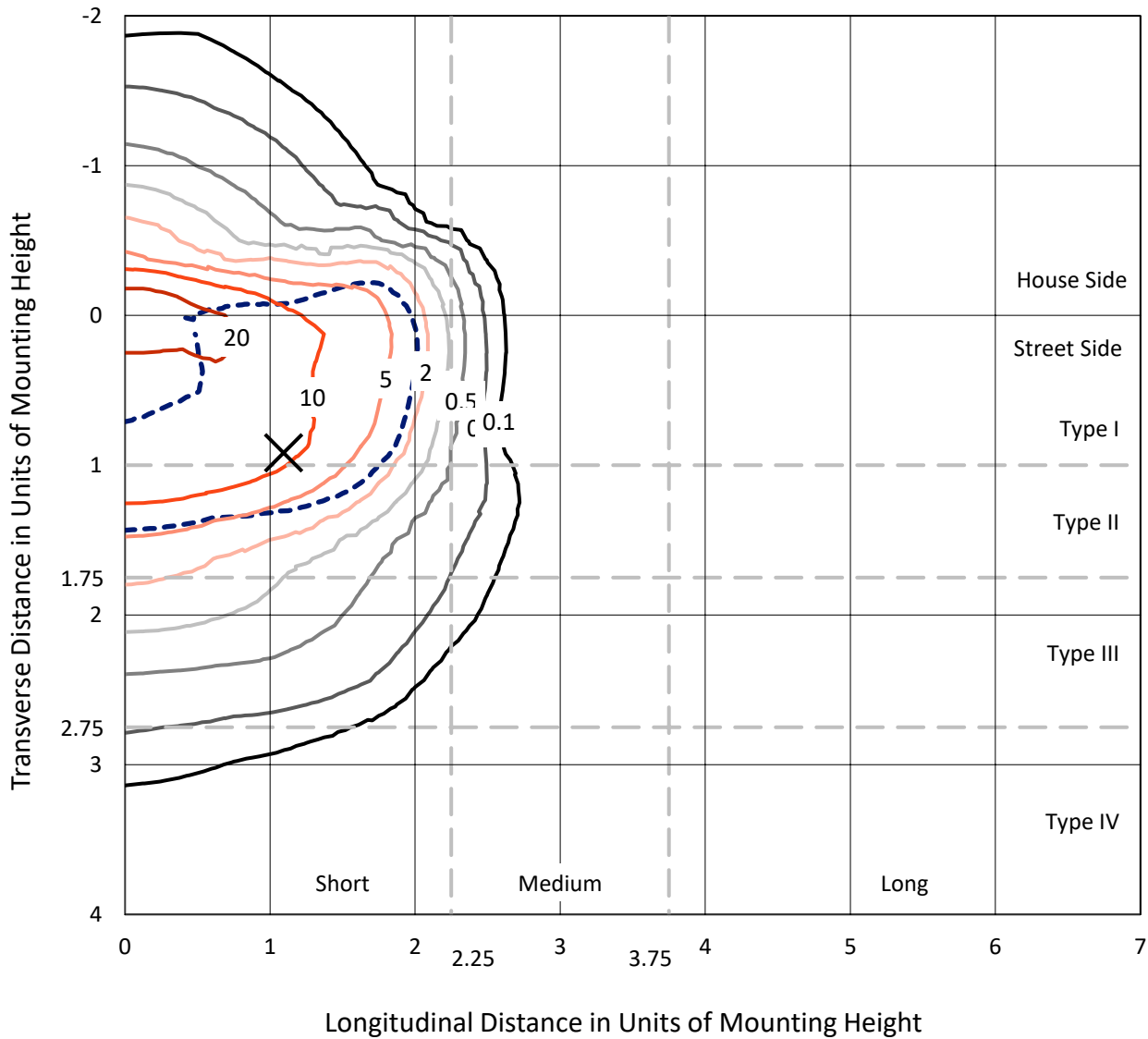
Lumens per Lamp: N/A  
Luminaire Lumens: 8450.3 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

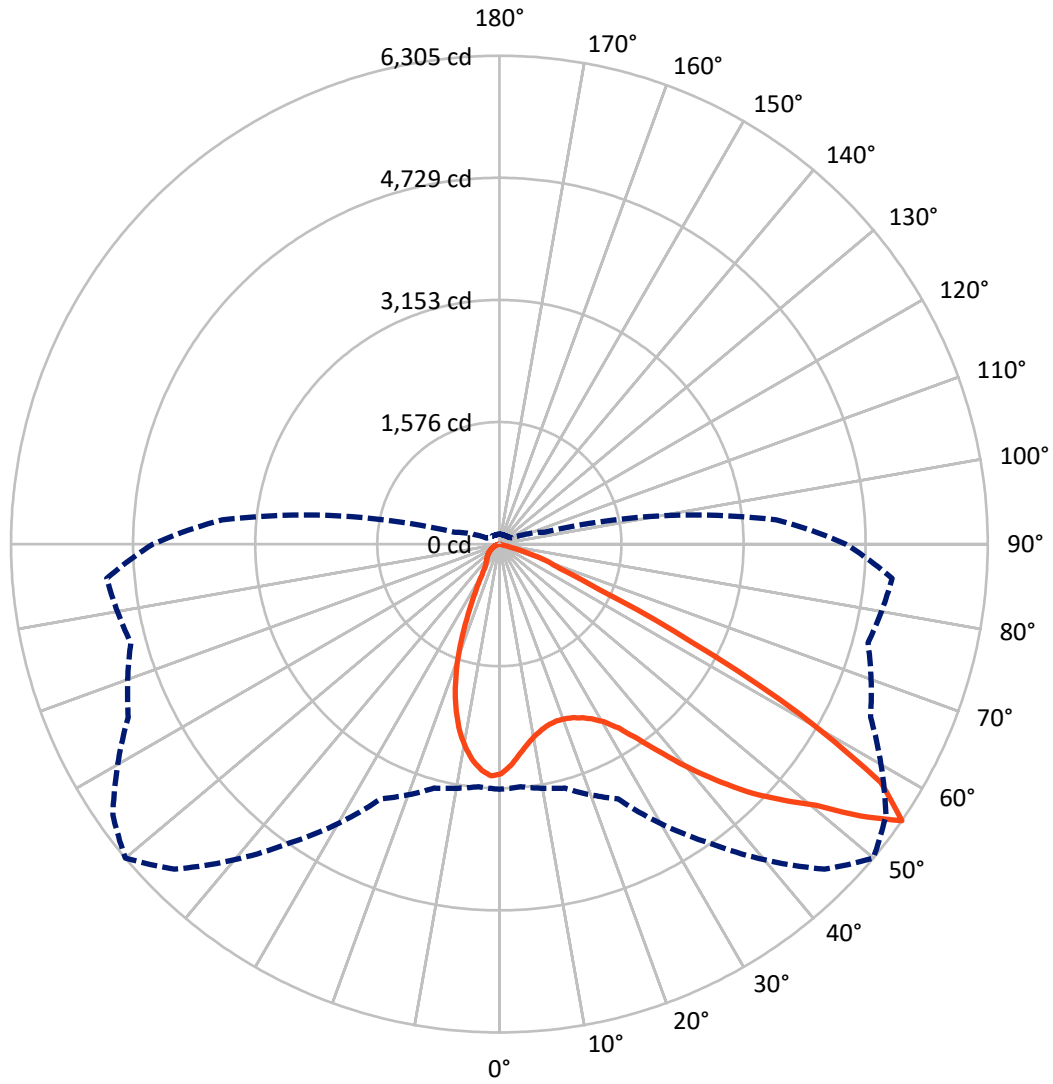
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.6 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	1665.1	0.0	1665.1
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	6785.2	0.0	6785.2
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	8450.3	0.0	8450.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.4	3.1
10°-20°	640.7	7.6
20°-30°	903.8	10.7
30°-40°	1337.4	15.8
40°-50°	1929.5	22.8
50°-60°	2275.9	26.9
60°-70°	1015.3	12.0
70°-80°	87.3	1.0
80°-90°	0.0	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°	8450.3	100.0
0°-180°	8450.3	100.0

**Coefficient of Utilization**



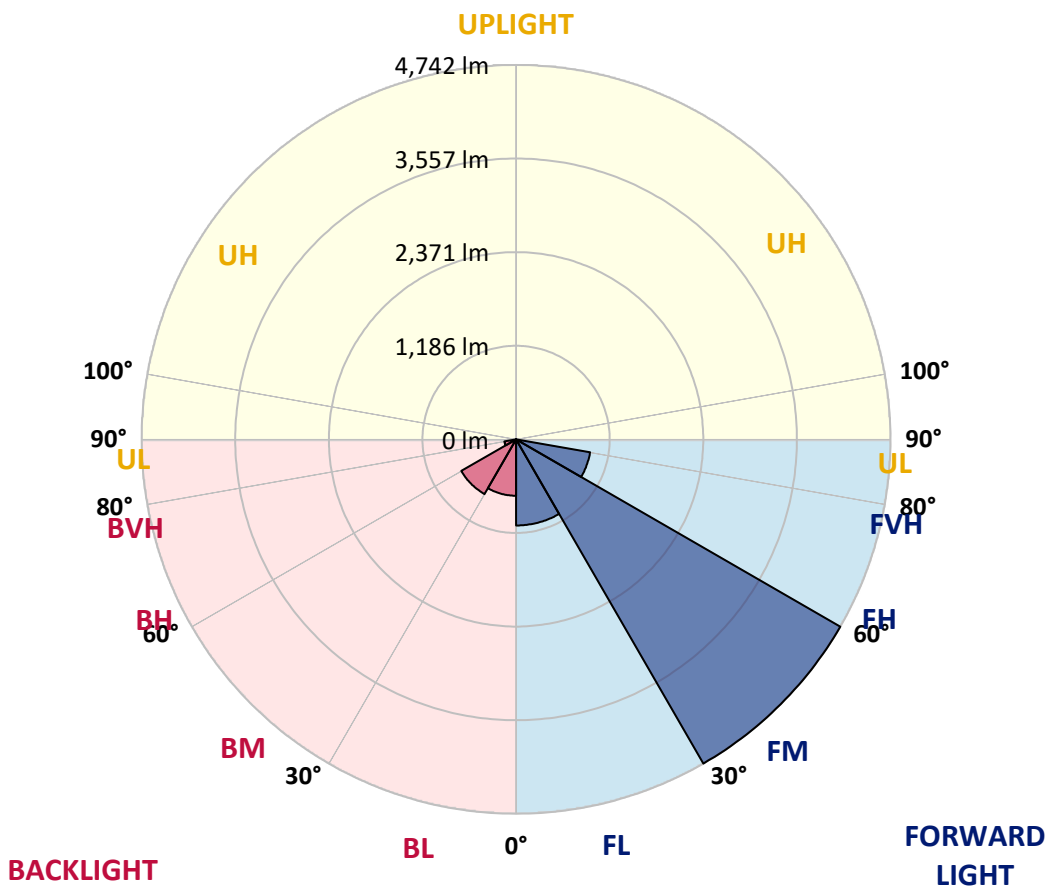
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1091.0	12.9			
FM (30°-60°)	4742.0	56.1			
FH (60°-80°)	952.2	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	713.9	8.4	B2/1000		
BM (30°-60°)	800.8	9.5	B1/1000		
BH (60°-80°)	150.3	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°	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8
2.5°	2754.4	2756.5	2757.5	2785.3	2795.7	2836.9	2858.6	2869.9	2899.8	2934.9	2963.8
5°	2569.7	2566.6	2571.8	2606.9	2629.6	2690.4	2723.4	2746.1	2812.2	2894.7	2963.8
7.5°	2408.8	2415.0	2421.2	2459.3	2493.4	2559.4	2606.9	2640.9	2732.7	2855.5	2972.1
10°	2295.3	2295.3	2304.6	2347.9	2388.2	2469.7	2517.1	2560.4	2669.8	2820.4	2981.3
12.5°	2211.8	2212.8	2224.1	2273.7	2320.1	2404.7	2454.2	2496.5	2617.2	2785.3	2983.4
15°	2172.6	2169.5	2178.8	2231.4	2282.9	2362.4	2414.0	2455.2	2580.0	2765.7	2993.7
17.5°	2162.2	2160.2	2167.4	2219.0	2271.6	2349.0	2399.5	2440.8	2574.9	2771.9	3024.7
20°	2192.2	2188.0	2184.9	2229.3	2278.8	2355.2	2407.8	2454.2	2599.6	2806.0	3072.1
22.5°	2263.3	2263.3	2256.1	2277.8	2310.8	2379.9	2434.6	2495.5	2664.6	2874.1	3142.3
25°	2394.4	2384.0	2370.6	2379.9	2375.8	2419.1	2484.1	2568.7	2787.4	2986.5	3227.9
27.5°	2543.9	2553.2	2530.5	2531.6	2495.5	2480.0	2555.3	2683.2	2970.0	3145.4	3354.8
30°	2747.2	2739.9	2741.0	2737.9	2654.3	2581.1	2662.6	2832.8	3200.0	3387.8	3519.8
32.5°	2906.0	2916.3	2950.4	2970.0	2860.6	2743.0	2829.7	3036.0	3462.1	3664.3	3722.0
35°	3074.2	3092.8	3161.9	3225.8	3134.0	2998.9	3091.7	3305.3	3708.6	3937.6	3954.1
37.5°	3251.6	3288.8	3371.3	3483.7	3469.3	3349.6	3434.2	3622.0	3902.6	4102.7	4146.0
40°	3454.8	3491.0	3626.1	3788.1	3822.1	3795.3	3823.1	3932.5	4030.5	4109.9	4228.6
42.5°	3677.7	3727.2	3898.4	4115.1	4243.0	4266.7	4201.7	4190.4	4086.2	4027.4	4211.0
45°	3940.7	3998.5	4192.4	4473.0	4676.3	4708.2	4595.8	4450.3	4121.3	3966.5	4158.4
47.5°	4235.8	4290.4	4483.4	4820.7	5123.0	5135.3	4939.3	4705.2	4225.5	4036.7	4198.6
50°	4334.8	4368.9	4536.0	4932.1	5489.2	5584.1	5300.4	4991.9	4434.9	4243.0	4394.6
52.5°	3994.4	4007.8	4153.2	4553.5	5414.9	6024.6	5827.5	5420.1	4807.3	4557.6	4696.9
55°	3165.0	3143.3	3260.9	3628.2	4706.2	5934.8	6305.2	6092.7	5287.0	4926.9	5089.9
57.5°	2213.8	2188.0	2161.2	2409.8	3511.6	5031.1	5810.0	6186.5	5744.0	5293.2	5513.9
60°	1819.8	1795.0	1665.0	1550.5	2123.0	3612.7	4462.7	5171.4	5706.8	5274.6	5500.5
62.5°	1572.2	1557.7	1505.1	1349.3	1249.3	2062.2	2794.6	3473.4	4379.2	4141.9	4154.3
65°	1234.8	1230.7	1266.8	1283.3	1104.8	1141.0	1425.7	1805.3	2367.5	2232.4	2116.9
67.5°	843.9	834.6	902.7	1110.0	1062.6	900.6	834.6	841.8	1024.4	626.2	497.2
70°	536.4	514.8	515.8	688.1	864.5	710.8	643.7	566.4	509.6	92.8	105.2
72.5°	343.5	330.1	283.7	310.5	400.3	346.6	349.7	301.2	201.2	49.5	57.8
75°	144.4	133.1	102.1	81.5	80.5	50.5	44.4	41.3	27.9	27.9	29.9
77.5°	1.0	0.0	0.0	1.0	2.1	1.0	1.0	2.1	4.1	6.2	7.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8	2964.8
2.5°	2981.3	2956.6	2984.4	2994.8	2993.7	2994.8	2964.8	2944.2	2943.2	2917.4	2905.0
5°	2992.7	2973.1	2993.7	2980.3	2948.3	2908.1	2854.5	2808.0	2787.4	2757.5	2743.0
7.5°	3014.4	2993.7	2990.6	2937.0	2857.5	2773.0	2678.0	2593.5	2548.1	2493.4	2496.5
10°	3029.8	3006.1	2965.9	2856.5	2724.5	2589.3	2448.0	2322.1	2242.7	2169.5	2157.1
12.5°	3036.0	3000.9	2907.1	2742.0	2556.3	2379.9	2172.6	1993.1	1869.3	1773.3	1759.9
15°	3047.4	2990.6	2831.8	2603.8	2349.0	2099.3	1835.2	1589.7	1425.7	1315.3	1324.6
17.5°	3064.9	2979.3	2747.2	2449.0	2126.1	1773.3	1416.4	1134.8	984.2	920.2	921.2
20°	3089.7	2965.9	2654.3	2278.8	1859.0	1405.0	990.3	777.8	735.5	733.5	730.4
22.5°	3122.7	2952.5	2555.3	2092.1	1542.3	984.2	659.2	593.2	610.7	644.8	650.9
25°	3161.9	2936.0	2444.9	1881.6	1196.7	645.8	494.1	483.8	526.1	571.5	581.8
27.5°	3222.7	2927.7	2319.0	1642.3	839.7	463.2	404.4	410.6	448.7	486.9	496.2
30°	3325.9	2943.2	2181.8	1374.1	539.5	369.3	350.7	360.0	380.7	400.3	408.5
32.5°	3466.2	2988.6	2048.8	1081.1	384.8	320.8	316.7	321.9	330.1	341.5	344.6
35°	3630.2	3067.0	1911.6	773.7	317.7	293.0	288.8	288.8	293.0	295.0	296.1
37.5°	3765.4	3149.5	1782.6	514.8	284.7	271.3	265.1	262.0	261.0	263.1	264.1
40°	3824.2	3183.5	1642.3	374.5	261.0	251.7	242.4	233.1	233.1	240.4	241.4
42.5°	3782.9	3145.4	1480.4	309.5	244.5	231.1	216.6	208.4	212.5	219.7	221.8
45°	3695.2	3051.5	1301.9	273.4	228.0	210.4	193.9	188.8	192.9	202.2	204.3
47.5°	3680.8	2989.6	1088.3	249.6	210.4	192.9	175.4	170.2	175.4	182.6	184.7
50°	3824.2	3043.2	851.1	229.0	193.9	174.3	159.9	154.7	157.8	162.0	164.0
52.5°	4086.2	3242.3	687.0	209.4	174.3	155.8	146.5	140.3	140.3	144.4	145.5
55°	4473.0	3590.0	593.2	186.7	151.6	141.3	133.1	126.9	126.9	129.0	130.0
57.5°	4918.7	4010.9	614.8	156.8	133.1	127.9	120.7	115.5	117.6	117.6	117.6
60°	4856.8	3979.9	658.2	132.0	117.6	115.5	109.4	107.3	112.4	108.3	106.3
62.5°	3577.6	2749.2	344.6	108.3	101.1	99.0	94.9	99.0	106.3	94.9	90.8
65°	1737.2	1330.8	138.2	88.7	85.6	83.6	81.5	87.7	91.8	74.3	70.1
67.5°	408.5	332.2	89.7	75.3	71.2	67.1	69.1	70.1	67.1	50.5	48.5
70°	106.3	104.2	70.1	62.9	56.7	52.6	52.6	51.6	44.4	32.0	29.9
72.5°	57.8	56.7	50.5	47.5	39.2	35.1	36.1	32.0	24.8	18.6	17.5
75°	28.9	30.9	28.9	26.8	21.7	19.6	19.6	17.5	12.4	7.2	7.2
77.5°	6.2	7.2	7.2	6.2	5.2	4.1	4.1	5.2	2.1	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	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)