

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: P637565

Luminaire Tested: GWS-SA4D-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-722-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

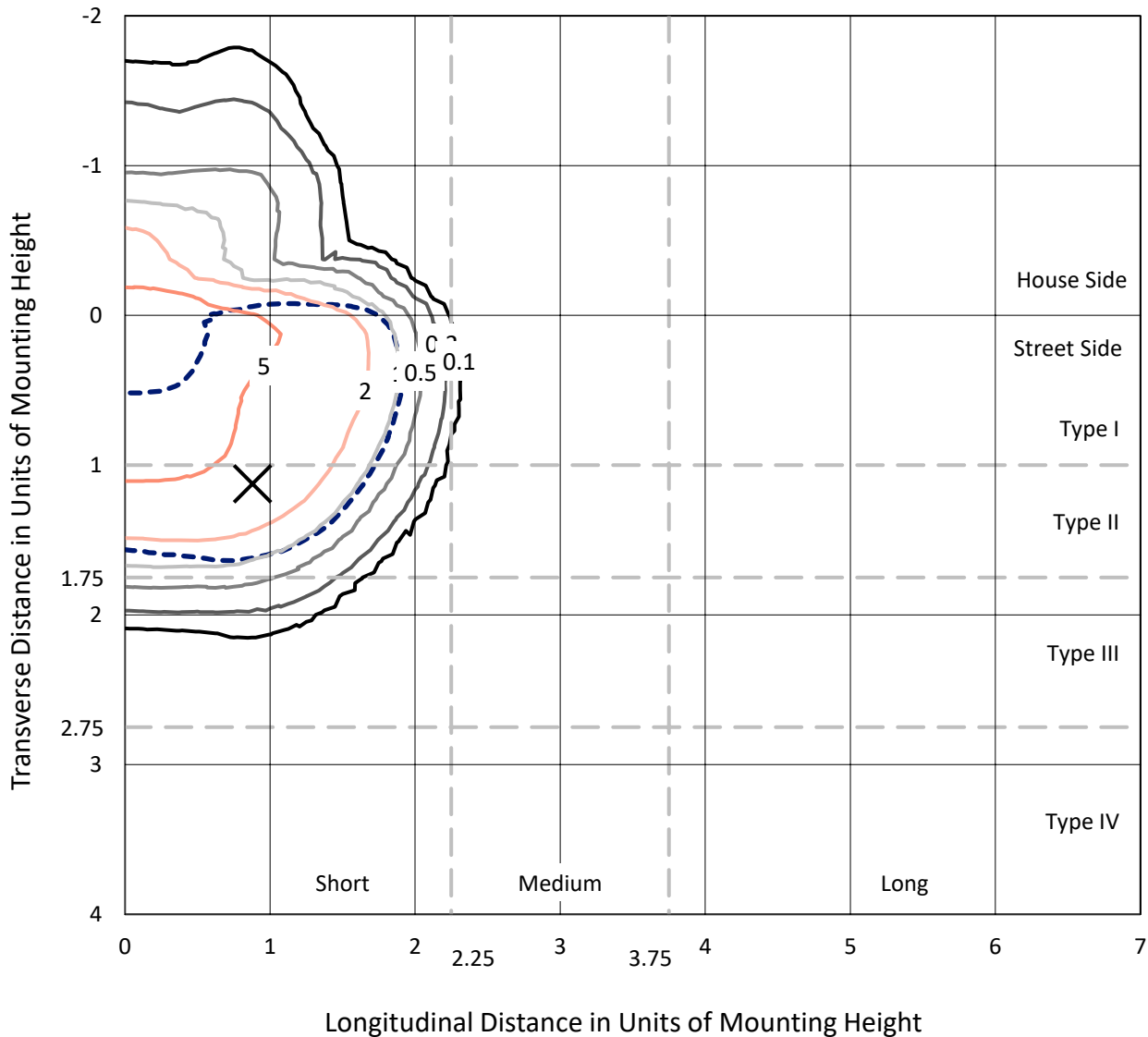
Lumens per Lamp: N/A  
Luminaire Lumens: 11313.6 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

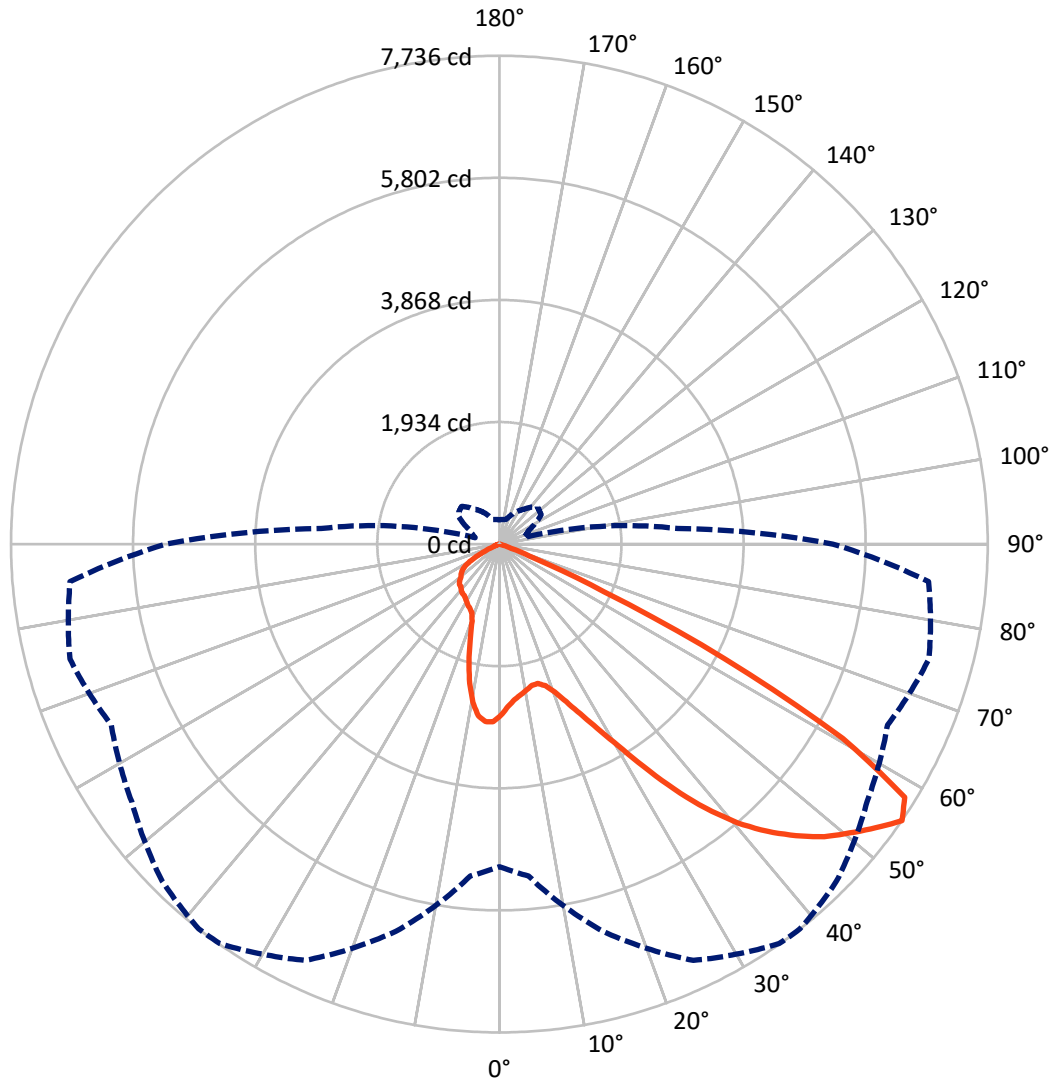
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2204.2	0.0	2204.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9109.4	0.0	9109.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11313.6	0.0	11313.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	2.2
10°-20°	675.4	6.0
20°-30°	1158.9	10.2
30°-40°	1922.2	17.0
40°-50°	2825.7	25.0
50°-60°	3301.9	29.2
60°-70°	1119.2	9.9
70°-80°	57.2	0.5
80°-90°	2.3	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°	11313.6	100.0
0°-180°	11313.6	100.0

**Coefficient of Utilization**



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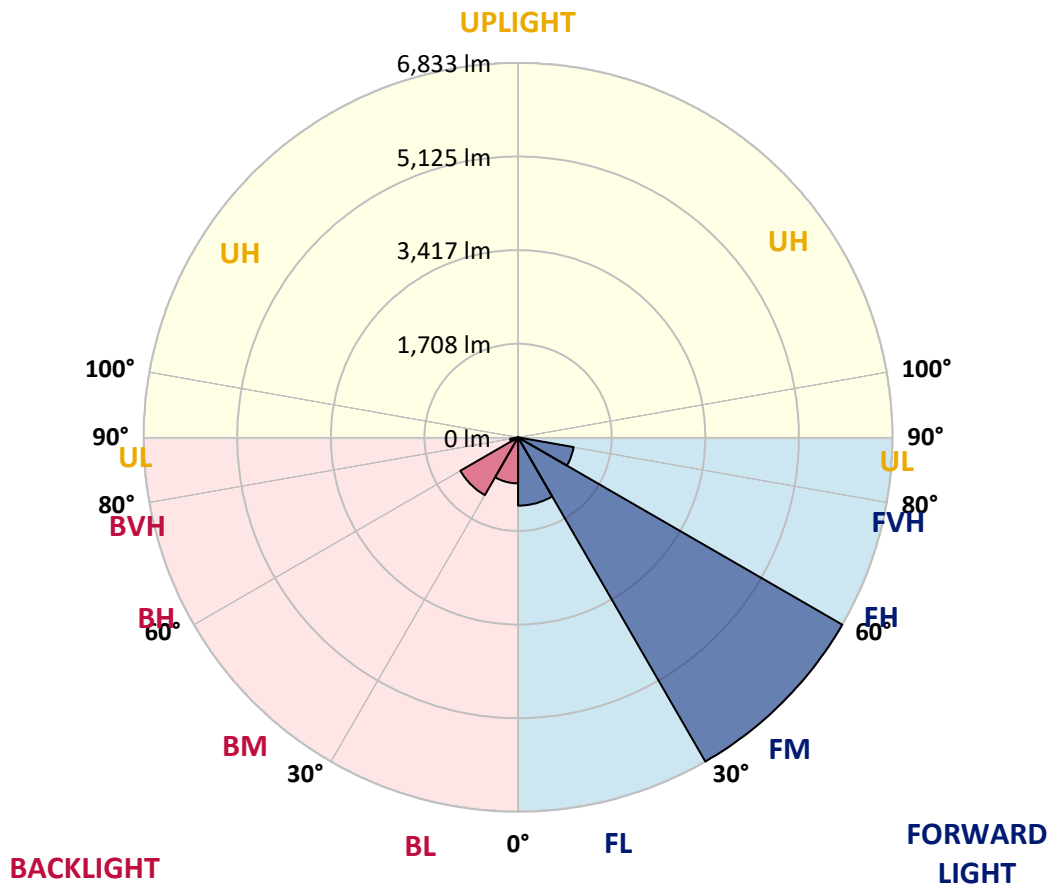
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.4	11.0			
FM (30°-60°)	6833.1	60.4			
FH (60°-80°)	1029.7	9.1			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	839.8	7.4	B2/1000		
BM (30°-60°)	1216.6	10.8	B2/2500		
BH (60°-80°)	146.7	1.3	B1/500		G1/500
BVH (80°-90°)	1.1	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°	38°	45°	55°	65°	75°	85°
0°	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1
2.5°	2526.9	2521.7	2532.0	2552.7	2572.1	2578.6	2598.0	2625.2	2642.0	2682.1	2714.4
5°	2413.1	2410.5	2420.8	2438.9	2464.8	2473.8	2503.6	2548.9	2594.1	2663.9	2732.5
7.5°	2309.6	2308.3	2323.8	2363.9	2401.4	2413.1	2449.3	2504.9	2565.7	2673.0	2773.9
10°	2173.8	2175.1	2204.9	2261.8	2330.3	2353.6	2411.8	2492.0	2570.8	2709.2	2848.9
12.5°	2129.9	2132.5	2148.0	2191.9	2266.9	2296.7	2378.2	2499.7	2600.6	2760.9	2945.9
15°	2237.2	2237.2	2224.3	2229.4	2263.1	2290.2	2375.6	2525.6	2651.0	2823.0	3041.6
17.5°	2445.4	2437.6	2405.3	2361.3	2349.7	2358.8	2427.3	2581.2	2722.1	2895.4	3150.2
20°	2727.3	2729.9	2666.5	2574.7	2501.0	2499.7	2541.1	2679.5	2824.3	2982.1	3267.9
22.5°	3068.7	3058.4	2974.3	2848.9	2720.8	2710.5	2727.3	2829.5	2971.7	3119.1	3412.7
25°	3464.4	3459.3	3340.3	3172.2	3002.8	2978.2	2978.2	3079.1	3182.5	3314.4	3586.0
27.5°	3878.2	3878.2	3763.1	3569.2	3344.2	3300.2	3293.7	3412.7	3481.2	3507.1	3732.1
30°	4303.7	4298.5	4184.7	3985.6	3745.0	3699.8	3681.7	3769.6	3818.8	3741.2	3914.5
32.5°	4735.6	4744.7	4629.6	4444.7	4230.0	4200.2	4144.6	4144.6	4184.7	4076.1	4201.5
35°	5199.9	5197.3	5106.8	4981.3	4797.7	4764.1	4672.3	4528.7	4589.5	4541.6	4598.5
37.5°	5609.8	5629.2	5585.2	5492.1	5343.4	5309.8	5158.5	4898.6	4945.1	5020.1	5070.6
40°	6026.2	6041.7	6085.7	6056.0	5868.4	5806.4	5537.4	5110.6	5162.4	5419.7	5564.5
42.5°	6434.9	6442.6	6531.8	6581.0	6330.1	6221.5	5824.5	5240.0	5294.3	5732.7	5986.1
45°	6694.8	6711.6	6859.0	7009.0	6737.5	6588.7	6074.1	5405.5	5428.8	5949.9	6297.8
47.5°	6684.4	6723.2	7000.0	7272.8	7087.9	6927.6	6374.1	5670.6	5631.8	6154.2	6503.4
50°	6476.2	6522.8	6919.8	7353.0	7340.1	7191.4	6707.7	6054.7	5933.1	6335.3	6529.3
52.5°	6044.3	6178.8	6778.8	7363.4	7543.1	7468.1	7120.2	6571.9	6340.5	6595.2	6570.6
55°	5110.6	5276.2	6350.8	7275.4	7726.7	7735.8	7553.5	7111.2	6782.7	7042.6	6825.4
57.5°	3879.5	4011.4	4888.2	6476.2	7422.8	7571.6	7721.6	7395.7	7055.6	7347.8	6884.9
60°	2338.1	2490.7	3061.0	4752.4	5995.2	6248.6	6837.0	6773.7	6363.7	6489.2	5646.0
62.5°	947.9	1028.1	1413.4	2618.7	3773.5	4010.1	4574.0	4669.7	4568.8	4440.8	3424.3
65°	346.6	378.9	566.4	1082.4	1735.4	1822.1	2119.5	2288.9	2428.6	2067.8	1273.8
67.5°	214.7	235.4	368.6	556.1	631.1	587.1	597.4	712.5	680.2	420.3	227.6
70°	159.1	175.9	288.4	385.4	254.8	196.6	133.2	142.2	128.0	112.5	111.2
72.5°	109.9	125.4	216.0	227.6	98.3	69.8	49.1	68.5	77.6	76.3	78.9
75°	72.4	84.1	135.8	89.2	24.6	19.4	16.8	36.2	46.6	46.6	47.8
77.5°	42.7	49.1	47.8	18.1	5.2	5.2	3.9	6.5	10.3	11.6	14.2
80°	5.2	3.9	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9
82.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9
85°	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	3.9	3.9
87.5°	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	3.9	3.9
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°	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1	2713.1
2.5°	2739.0	2729.9	2767.4	2794.6	2816.5	2826.9	2812.7	2811.4	2811.4	2782.9	2775.2
5°	2771.3	2775.2	2828.2	2851.5	2855.3	2842.4	2810.1	2788.1	2775.2	2745.4	2728.6
7.5°	2833.4	2846.3	2896.7	2892.8	2857.9	2798.4	2713.1	2647.1	2604.5	2557.9	2529.5
10°	2922.6	2947.2	2978.2	2923.9	2812.7	2661.4	2485.5	2360.1	2285.0	2232.0	2199.7
12.5°	3031.2	3055.8	3045.4	2917.4	2685.9	2415.7	2189.4	2008.3	1921.7	1873.8	1840.2
15°	3141.1	3156.6	3089.4	2839.8	2462.2	2098.8	1846.7	1666.9	1560.9	1522.1	1493.6
17.5°	3253.6	3249.8	3097.2	2687.2	2163.5	1741.9	1493.6	1370.8	1341.0	1334.6	1332.0
20°	3371.3	3336.4	3066.1	2468.7	1804.0	1388.9	1247.9	1255.7	1310.0	1335.9	1341.0
22.5°	3505.8	3417.9	2988.5	2172.5	1436.7	1157.4	1171.6	1247.9	1321.6	1356.5	1361.7
25°	3649.3	3492.9	2859.2	1792.3	1132.8	1064.3	1148.3	1236.3	1315.2	1357.8	1363.0
27.5°	3743.8	3511.0	2647.1	1409.6	972.5	1028.1	1117.3	1201.4	1282.8	1329.4	1335.9
30°	3845.9	3503.2	2358.8	1086.3	918.2	997.0	1074.6	1150.9	1225.9	1277.7	1282.8
32.5°	3995.9	3498.0	2007.0	881.9	896.2	972.5	1029.4	1092.7	1144.5	1174.2	1170.3
35°	4192.5	3491.6	1597.1	795.3	883.2	953.1	998.3	1028.1	971.2	953.1	957.0
37.5°	4444.7	3507.1	1251.8	759.1	879.4	947.9	986.7	901.3	813.4	779.8	774.6
40°	4724.0	3547.2	954.4	744.9	892.3	960.8	942.7	801.8	693.1	627.2	613.0
42.5°	5004.6	3591.2	755.2	739.7	914.3	997.0	870.3	729.4	566.4	528.9	523.7
45°	5212.8	3583.4	653.1	730.6	933.7	1017.7	850.9	625.9	505.6	488.8	490.1
47.5°	5317.5	3498.0	597.4	710.0	941.4	997.0	803.1	583.2	464.3	482.4	497.9
50°	5261.9	3276.9	545.7	669.9	924.6	969.9	726.8	550.9	443.6	518.6	553.5
52.5°	5194.7	3005.3	488.8	607.8	884.5	932.4	697.0	541.8	430.6	500.5	526.3
55°	5283.9	2833.4	395.7	512.1	805.7	844.4	673.7	540.5	400.9	389.2	385.4
57.5°	5158.5	2490.7	283.2	368.6	618.1	668.6	656.9	531.5	355.6	354.3	359.5
60°	3986.9	1519.5	194.0	234.1	378.9	426.7	596.2	508.2	306.5	281.9	283.2
62.5°	2265.6	646.6	133.2	144.8	194.0	230.2	455.2	461.7	283.2	269.0	283.2
65°	788.8	231.5	103.5	97.0	107.3	122.9	261.2	356.9	257.3	232.8	235.4
67.5°	162.9	115.1	91.8	80.2	80.2	80.2	133.2	222.4	212.1	184.9	187.5
70°	103.5	98.3	80.2	68.5	66.0	60.8	76.3	122.9	146.1	134.5	135.8
72.5°	76.3	75.0	63.4	55.6	49.1	44.0	47.8	60.8	75.0	77.6	78.9
75°	46.6	47.8	41.4	34.9	31.0	27.2	28.4	28.4	28.4	25.9	28.4
77.5°	14.2	15.5	12.9	10.3	9.1	9.1	9.1	7.8	6.5	3.9	3.9
80°	3.9	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	0.0	0.0
82.5°	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	0.0	0.0	0.0
85°	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	0.0	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.6	2.6	1.3	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)