

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: P632303

Luminaire Tested: GWS-SA2C-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8396.4 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

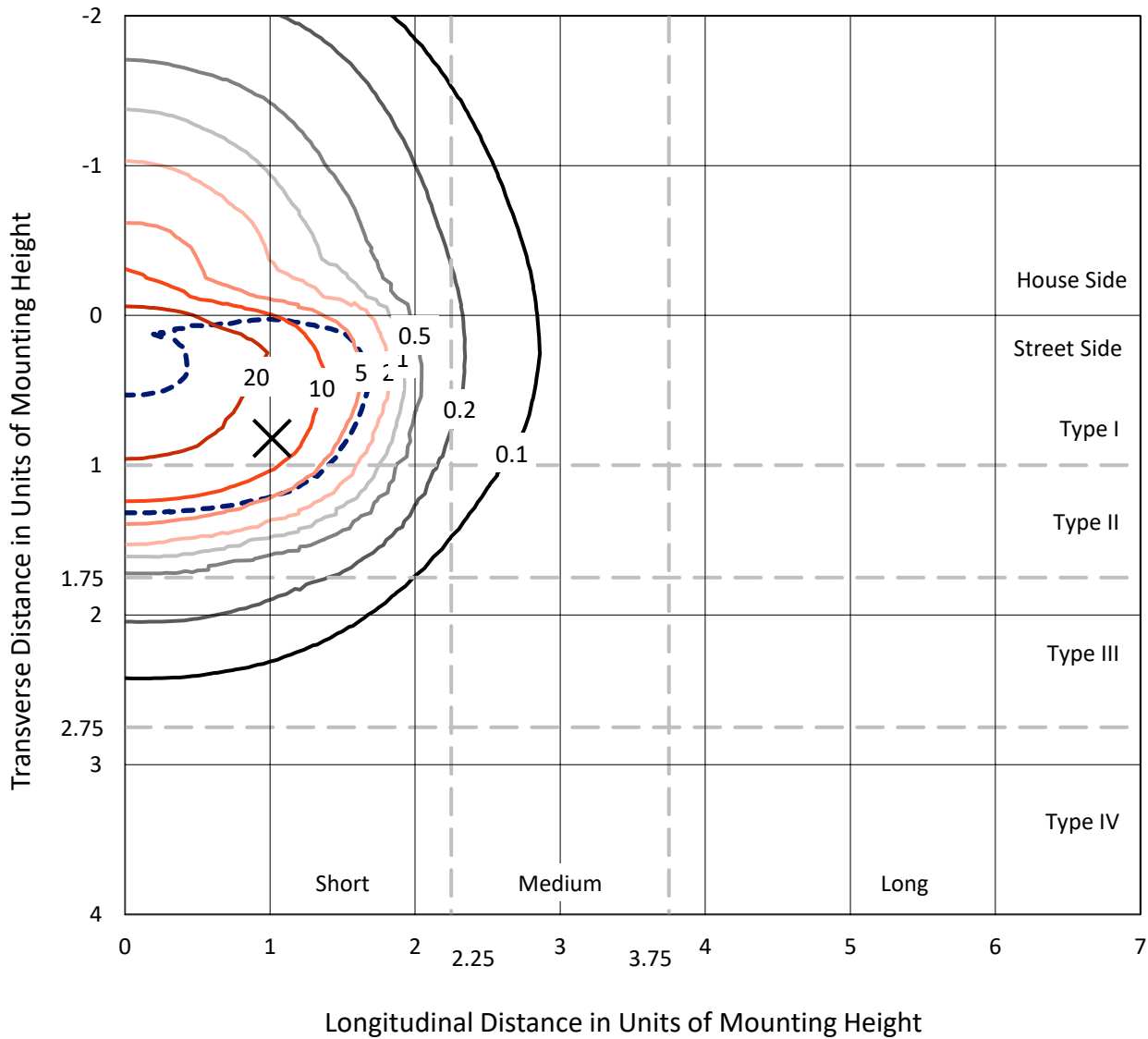
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

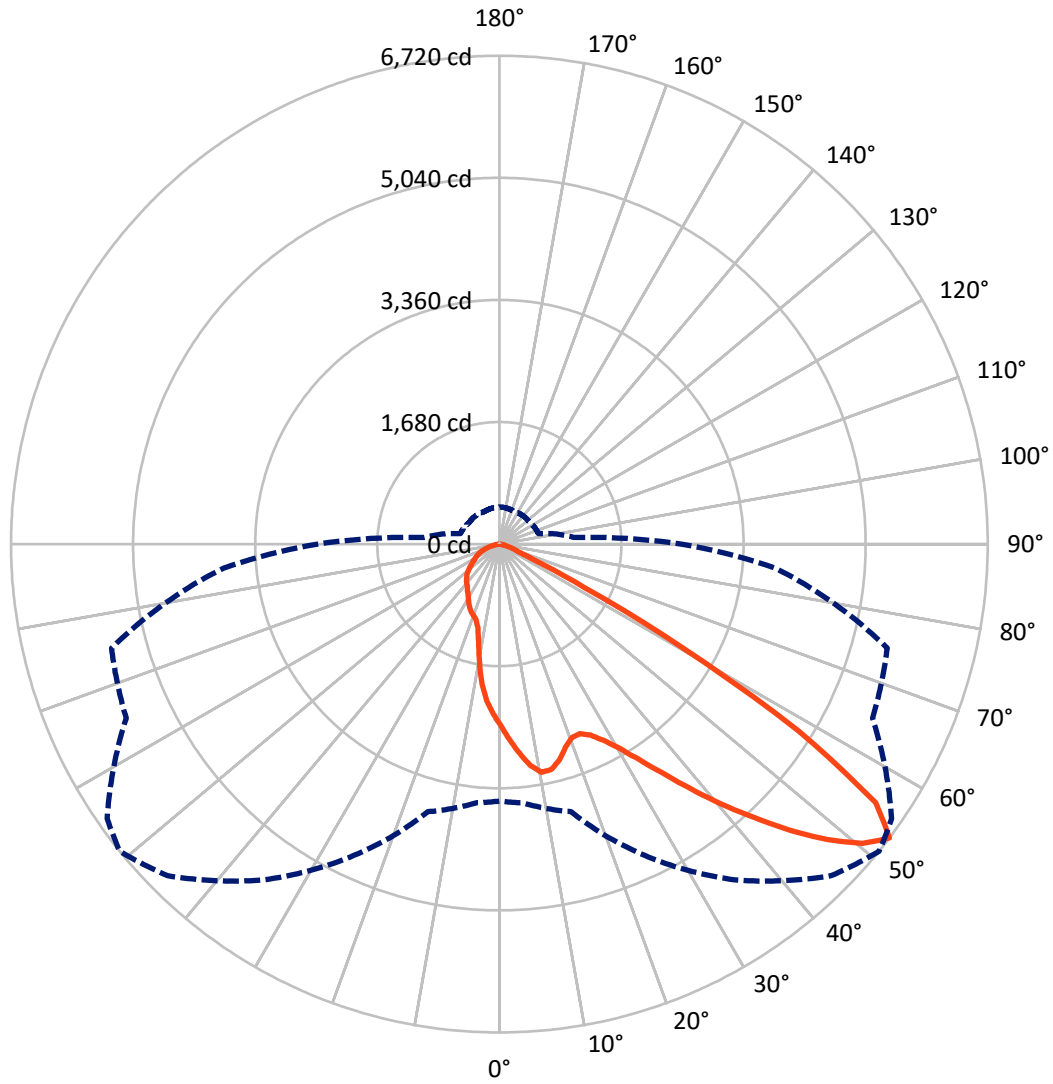
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.0	0.0	1636.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6760.4	0.0	6760.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	8396.4	0.0	8396.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	2.8
10°-20°	606.2	7.2
20°-30°	985.6	11.7
30°-40°	1561.9	18.6
40°-50°	2355.7	28.1
50°-60°	2037.9	24.3
60°-70°	462.0	5.5
70°-80°	136.2	1.6
80°-90°	17.6	0.2
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°	8396.4	100.0
0°-180°	8396.4	100.0

Coefficient of Utilization



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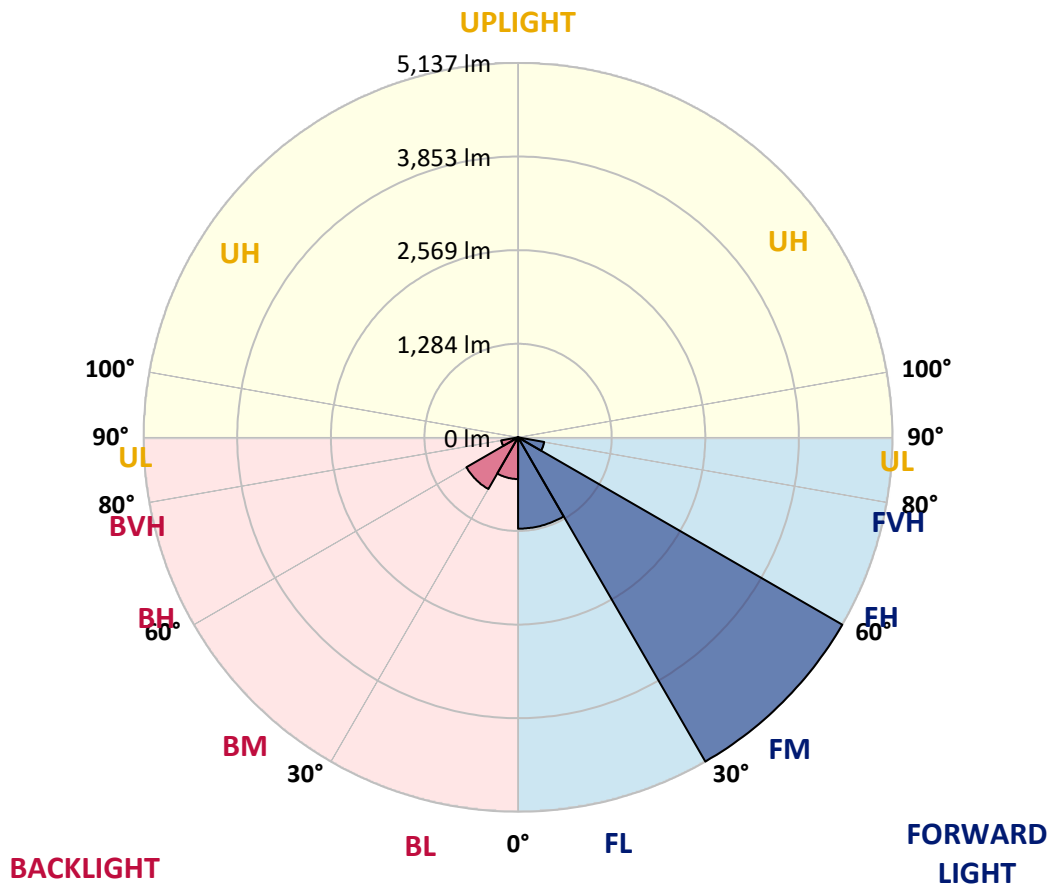
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.2	14.9			
FM (30°-60°)	5137.0	61.2			
FH (60°-80°)	363.6	4.3			G0/660
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	571.9	6.8	B2/1000		
BM (30°-60°)	818.5	9.7	B1/1000		
BH (60°-80°)	234.6	2.8	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
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°	51°	55°	65°	75°	85°
0°	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0
2.5°	2786.0	2801.9	2777.4	2768.1	2752.8	2726.3	2695.8	2687.1	2621.4	2578.3	2529.9
5°	3066.0	3074.6	3054.7	3034.8	2997.0	2949.9	2890.8	2878.2	2758.8	2659.9	2557.1
7.5°	3128.4	3125.0	3142.3	3153.6	3148.9	3130.3	3077.9	3053.4	2910.7	2754.1	2602.2
10°	2881.5	2863.0	2926.7	3002.3	3093.2	3198.0	3192.0	3190.1	3066.0	2880.9	2659.9
12.5°	2554.4	2545.1	2596.9	2691.8	2863.6	3095.8	3182.8	3250.4	3206.0	3001.6	2724.3
15°	2367.3	2364.0	2399.2	2467.5	2604.2	2897.5	3083.2	3217.3	3326.1	3131.0	2792.6
17.5°	2333.5	2335.5	2347.4	2386.6	2484.8	2726.3	2941.2	3128.4	3419.6	3273.0	2878.2
20°	2432.4	2445.6	2425.1	2431.0	2484.1	2664.6	2844.4	3038.8	3479.3	3415.6	2970.4
22.5°	2652.0	2647.3	2602.2	2575.7	2576.3	2702.4	2833.8	2997.0	3518.5	3554.3	3054.0
25°	2900.8	2895.5	2841.7	2782.7	2745.5	2805.2	2910.1	3041.4	3553.6	3681.0	3121.1
27.5°	3194.7	3178.1	3118.4	3042.8	2960.5	2986.4	3057.4	3161.5	3608.1	3805.8	3165.5
30°	3479.3	3498.6	3413.0	3323.4	3236.5	3220.6	3261.7	3355.9	3718.9	3951.7	3218.6
32.5°	3856.9	3850.2	3755.3	3638.6	3514.5	3502.6	3535.1	3621.3	3917.9	4153.4	3299.5
35°	4314.0	4315.3	4180.6	4022.7	3846.2	3814.4	3868.8	3952.4	4214.5	4426.8	3427.6
37.5°	4789.1	4787.1	4669.6	4490.5	4249.6	4204.5	4266.9	4329.3	4585.4	4799.0	3626.6
40°	5122.1	5135.4	5080.3	4986.1	4757.9	4647.7	4702.8	4745.9	4988.8	5236.9	3888.7
42.5°	5311.2	5331.1	5343.1	5399.5	5279.4	5161.9	5142.0	5164.6	5349.0	5643.6	4134.9
45°	5351.7	5378.2	5465.2	5674.2	5720.6	5687.4	5622.4	5568.0	5617.8	5932.3	4296.1
47.5°	5173.2	5219.7	5405.4	5771.0	6042.4	6146.6	6074.2	5991.3	5773.0	6006.6	4279.5
50°	4465.9	4520.4	4939.0	5573.3	6088.2	6467.7	6474.3	6351.6	5754.4	5792.3	4071.2
52.5°	3535.7	3572.9	3812.4	4724.7	5639.0	6454.4	6719.8	6588.4	5664.9	5524.2	3810.4
55°	2113.2	2172.9	2396.5	3117.1	4393.0	5720.6	6285.9	6349.6	5621.1	5299.3	3632.6
57.5°	713.3	742.4	956.1	1376.7	2588.9	4188.6	4856.7	5115.5	5102.9	4955.6	3285.6
60°	339.7	346.3	389.5	522.2	1036.4	2188.9	2874.9	3173.5	3445.5	3472.7	2044.2
62.5°	258.8	262.7	284.6	313.2	416.7	922.2	1317.7	1545.9	1651.4	1417.2	744.4
65°	216.3	219.6	236.2	254.1	283.3	399.4	505.6	583.2	525.5	409.4	355.0
67.5°	180.5	183.1	195.7	215.0	234.9	267.4	280.7	288.6	302.6	339.7	326.4
70°	141.3	144.0	157.2	173.8	193.1	201.0	213.6	221.6	249.5	297.2	295.9
72.5°	108.8	112.1	119.4	130.0	146.0	153.9	167.9	177.2	193.1	231.6	247.5
75°	79.6	81.6	88.2	91.6	93.6	91.6	105.5	116.1	137.3	151.9	155.9
77.5°	32.5	36.5	35.2	35.2	41.8	50.4	57.7	64.4	79.0	87.6	88.2
80°	13.3	14.6	17.3	19.2	23.2	29.9	34.5	37.2	43.8	49.1	53.1
82.5°	8.0	8.6	10.0	10.6	13.3	17.3	19.9	21.9	27.2	32.5	34.5
85°	4.0	4.0	4.6	5.3	6.6	8.0	9.3	10.6	13.9	17.3	19.2
87.5°	0.7	0.7	0.7	1.3	2.0	2.7	3.3	4.0	4.6	5.3	6.6
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°	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0
2.5°	2501.4	2465.5	2423.7	2390.6	2352.1	2323.5	2283.1	2257.9	2234.0	2214.1	2199.5
5°	2504.0	2443.6	2356.7	2279.7	2200.1	2124.5	2046.9	1983.8	1927.4	1880.3	1876.3
7.5°	2519.3	2432.4	2296.3	2161.6	2006.4	1856.4	1706.5	1584.4	1491.5	1443.1	1433.1
10°	2545.1	2431.0	2234.6	2019.7	1754.9	1513.4	1335.6	1242.7	1189.0	1169.7	1163.1
12.5°	2572.3	2427.7	2155.7	1819.3	1451.7	1240.1	1142.5	1131.2	1141.2	1142.5	1141.9
15°	2605.5	2425.7	2056.2	1584.4	1230.1	1113.3	1120.0	1143.9	1167.1	1172.4	1172.4
17.5°	2646.0	2421.1	1920.8	1354.8	1091.4	1088.8	1124.0	1155.8	1177.7	1181.7	1181.7
20°	2688.5	2409.1	1754.3	1167.7	1035.0	1073.5	1111.3	1135.9	1151.2	1156.5	1157.1
22.5°	2717.7	2377.3	1562.5	1029.1	999.9	1044.3	1071.5	1096.7	1096.7	1083.5	1079.5
25°	2723.6	2308.9	1354.8	934.2	958.1	999.2	1027.1	1012.5	985.3	974.7	974.0
27.5°	2701.7	2209.4	1149.8	866.5	907.7	948.8	944.1	922.9	911.0	900.4	904.3
30°	2675.2	2090.0	972.0	810.8	849.3	889.7	873.8	866.5	857.9	845.9	848.6
32.5°	2657.3	1956.6	835.3	767.7	810.1	816.8	828.0	827.4	819.4	796.9	795.5
35°	2662.6	1821.9	743.8	732.5	777.6	775.0	796.2	792.2	737.1	706.0	704.0
37.5°	2705.0	1692.6	690.0	704.6	725.9	742.4	761.0	713.3	694.0	674.1	675.4
40°	2786.0	1572.5	660.8	689.4	694.7	719.2	676.1	675.4	666.8	648.9	648.2
42.5°	2877.6	1471.0	640.9	682.1	674.8	679.4	633.6	638.9	638.3	627.0	623.7
45°	2933.3	1377.4	625.0	654.9	656.9	610.4	596.5	602.4	605.8	599.8	599.1
47.5°	2875.6	1269.9	608.4	613.1	630.3	579.2	562.0	562.6	568.6	569.3	566.6
50°	2713.7	1149.8	588.5	577.2	566.0	546.7	530.8	527.5	533.4	539.4	541.4
52.5°	2504.7	1035.0	555.3	538.1	511.6	511.6	504.3	493.6	501.6	509.6	512.2
55°	2351.4	950.1	508.2	489.0	459.8	469.8	468.4	459.1	469.8	475.7	477.7
57.5°	2037.6	763.7	447.2	441.2	416.7	428.6	431.3	419.3	414.0	415.3	417.3
60°	1209.5	493.0	403.4	402.7	380.8	394.8	402.7	390.8	374.9	376.9	379.5
62.5°	542.7	376.9	348.3	345.7	345.0	362.9	371.6	360.3	337.7	339.7	342.4
65°	341.7	325.8	302.6	302.6	313.2	328.4	335.1	325.8	299.9	296.6	299.2
67.5°	317.1	303.2	279.3	274.7	280.0	292.6	293.3	275.3	260.1	257.4	257.4
70°	284.6	274.0	250.8	241.5	239.5	238.9	236.9	232.2	222.3	219.6	220.9
72.5°	235.5	228.2	213.6	203.7	198.4	197.7	189.8	185.8	177.2	175.8	175.2
75°	155.9	157.9	157.9	156.6	151.9	149.9	141.3	137.3	127.4	123.4	122.7
77.5°	92.2	94.2	96.9	97.5	96.9	96.9	88.9	84.3	74.3	69.0	67.7
80°	56.4	57.7	59.1	61.0	58.4	56.4	49.1	44.5	39.8	36.5	35.8
82.5°	36.5	37.8	38.5	39.8	38.5	35.8	29.9	27.2	23.9	21.2	20.6
85°	20.6	21.2	22.6	22.6	20.6	18.6	15.3	13.3	11.3	10.0	10.0
87.5°	7.3	7.3	7.3	8.0	6.6	6.0	4.0	2.7	2.0	2.0	2.0
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)