

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: P636545

Luminaire Tested: GWS-SA4B-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9080.7 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

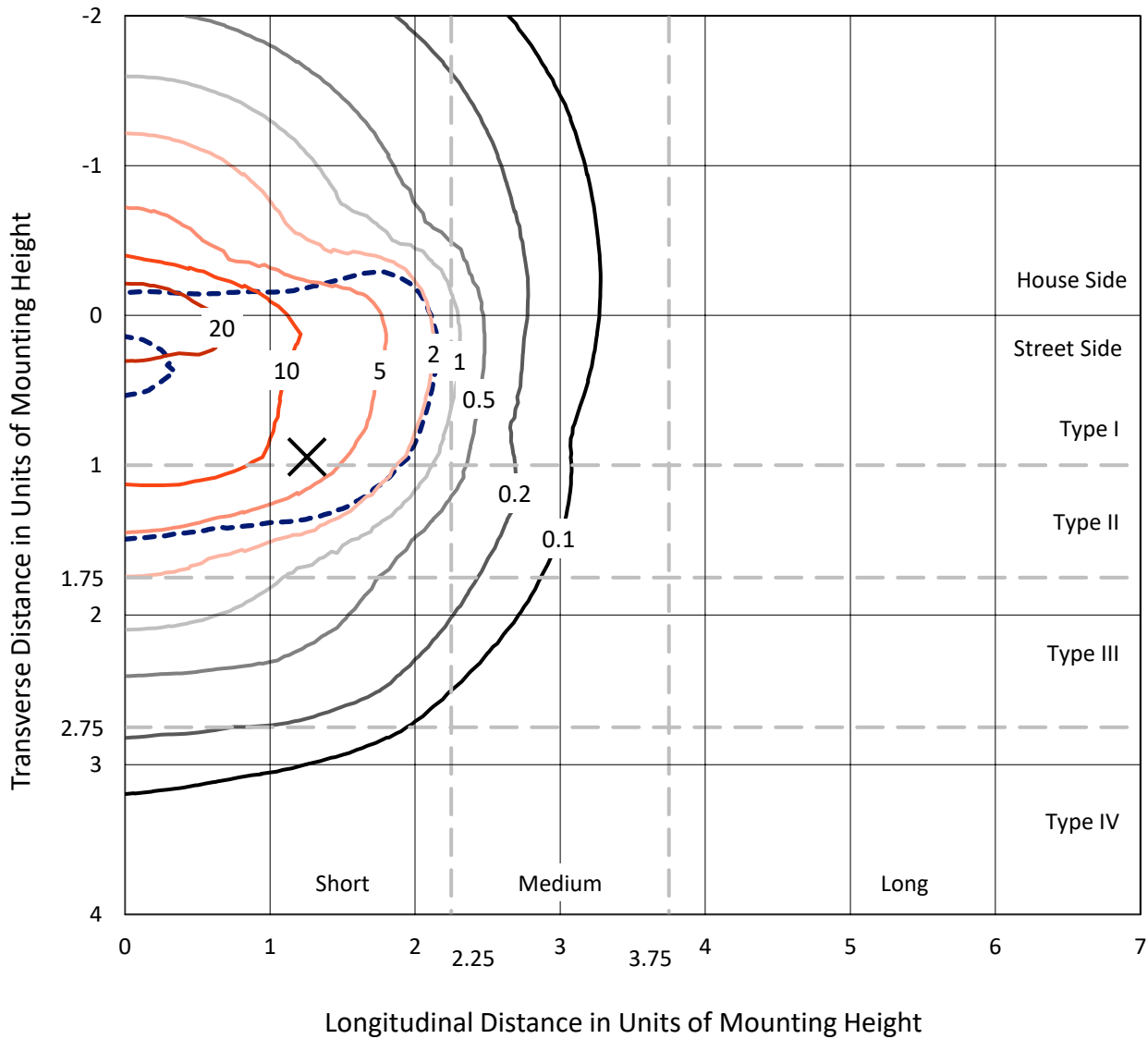
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

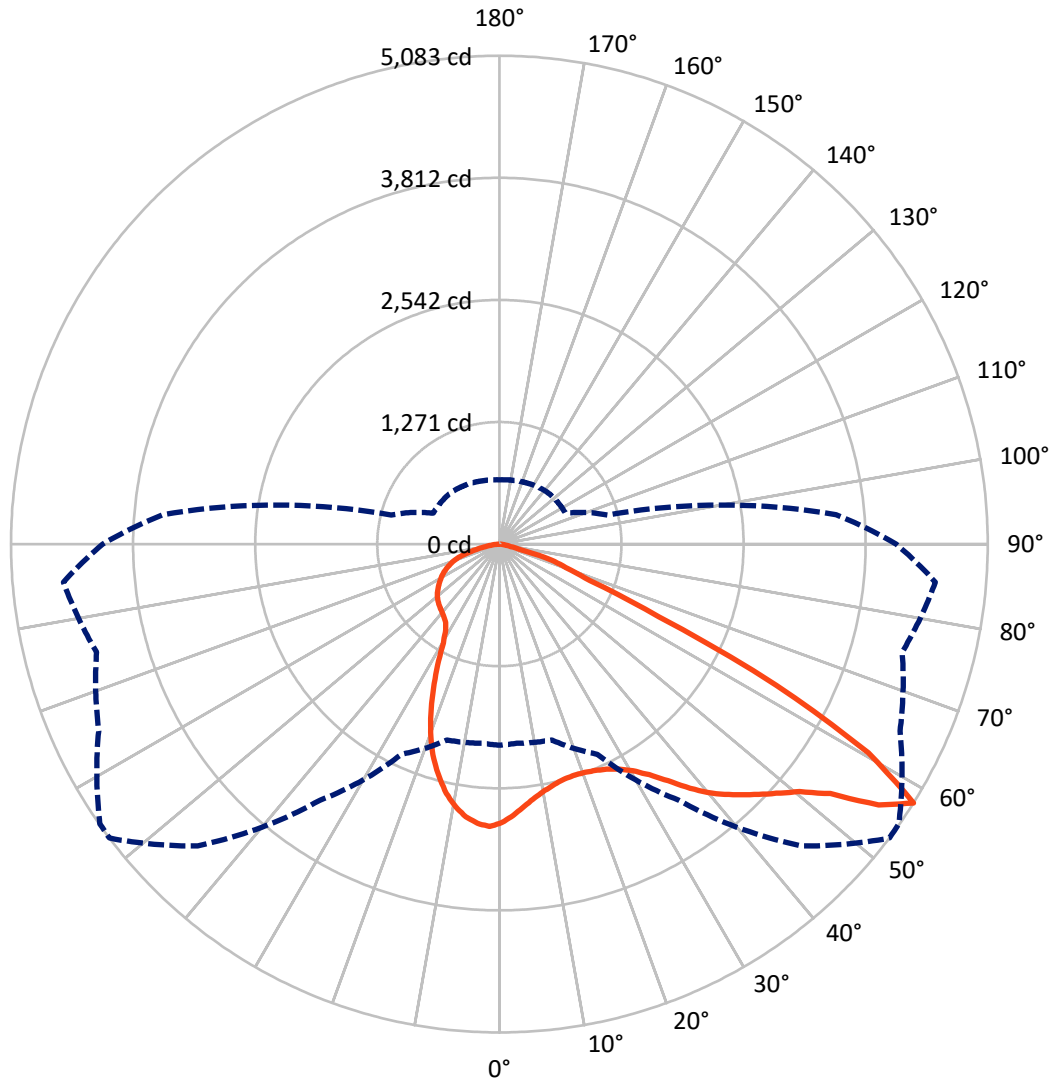
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2839.2	0.0	2839.2
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	6241.5	0.0	6241.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	9080.7	0.0	9080.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	2.9
10°-20°	687.9	7.6
20°-30°	1013.6	11.2
30°-40°	1418.8	15.6
40°-50°	1865.1	20.5
50°-60°	2186.8	24.1
60°-70°	1288.3	14.2
70°-80°	320.5	3.5
80°-90°	37.6	0.4
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°	9080.7	100.0
0°-180°	9080.7	100.0

Coefficient of Utilization



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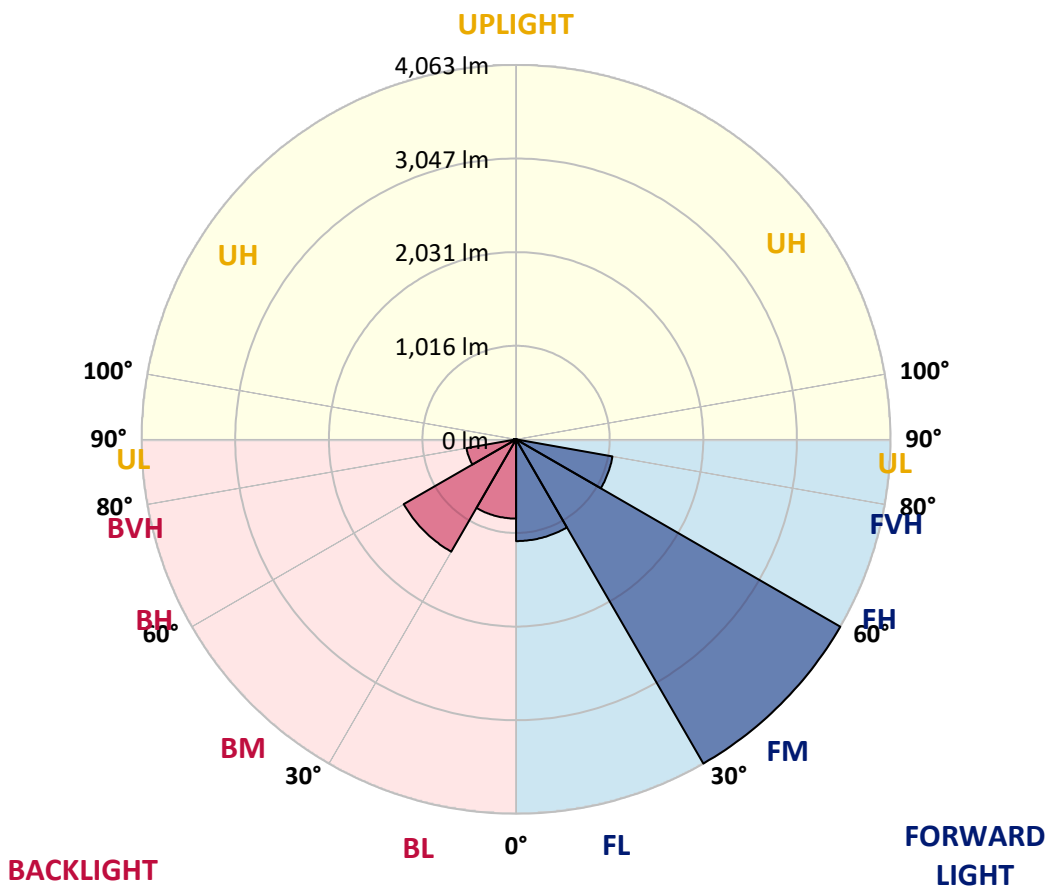
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.0	12.2			
FM (30°-60°)	4062.8	44.7			
FH (60°-80°)	1062.1	11.7			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	859.7	9.5	B2/1000		
BM (30°-60°)	1407.8	15.5	B2/2500		
BH (60°-80°)	546.6	6.0	B2/1000		G2/1000
BVH (80°-90°)	25.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7
2.5°	2733.1	2740.7	2742.3	2766.0	2767.5	2801.9	2824.8	2820.2	2843.9	2873.0	2895.9
5°	2602.4	2603.2	2610.8	2639.1	2654.4	2699.5	2737.7	2737.7	2783.5	2843.2	2894.4
7.5°	2494.6	2493.9	2500.8	2532.1	2557.3	2611.6	2663.5	2669.7	2733.9	2821.0	2904.3
10°	2394.5	2399.9	2407.5	2445.7	2477.8	2545.1	2607.0	2616.9	2697.9	2805.7	2918.1
12.5°	2330.3	2331.1	2342.5	2385.3	2426.6	2498.5	2563.4	2575.7	2668.9	2791.2	2928.0
15°	2289.0	2289.8	2302.0	2349.4	2397.6	2470.2	2536.7	2550.4	2652.1	2788.9	2947.1
17.5°	2270.7	2269.9	2281.4	2328.8	2381.5	2457.2	2528.3	2545.1	2659.7	2806.5	2980.7
20°	2270.7	2271.5	2277.6	2320.4	2373.9	2454.1	2536.7	2557.3	2689.5	2846.2	3032.7
22.5°	2302.8	2305.9	2308.9	2338.0	2380.0	2458.7	2558.8	2586.4	2753.7	2912.7	3100.7
25°	2365.5	2366.2	2369.3	2393.0	2412.1	2471.7	2595.5	2636.8	2853.9	3009.8	3186.3
27.5°	2449.5	2460.2	2463.3	2478.6	2478.6	2503.8	2652.8	2712.5	2989.1	3149.6	3295.6
30°	2567.2	2571.1	2576.4	2593.2	2574.9	2564.2	2736.9	2813.3	3145.8	3318.5	3427.1
32.5°	2670.4	2678.8	2707.9	2735.4	2702.5	2668.9	2860.7	2950.9	3296.4	3494.3	3566.9
35°	2758.3	2779.0	2834.7	2895.9	2873.0	2839.3	3025.1	3119.1	3420.2	3620.4	3690.8
37.5°	2864.6	2880.6	2957.0	3056.4	3077.0	3061.0	3225.3	3292.6	3502.7	3652.5	3758.0
40°	2972.3	2996.8	3095.4	3232.9	3311.7	3323.1	3410.3	3455.4	3531.0	3589.9	3745.0
42.5°	3082.4	3124.4	3259.7	3420.2	3560.1	3586.0	3566.2	3585.3	3521.8	3503.5	3684.6
45°	3216.9	3266.6	3419.4	3624.3	3808.5	3849.0	3719.0	3701.5	3520.3	3470.6	3647.2
47.5°	3375.9	3425.5	3571.5	3810.0	4045.4	4075.2	3875.7	3843.6	3573.8	3521.1	3697.6
50°	3516.5	3550.9	3681.6	3948.3	4266.3	4283.8	4048.4	4009.5	3706.8	3660.9	3855.1
52.5°	3373.6	3369.8	3507.3	3836.0	4380.9	4592.6	4314.4	4277.0	3963.6	3893.3	4098.9
55°	2862.3	2818.7	2941.7	3265.0	4060.7	4867.0	4791.3	4716.4	4306.0	4127.2	4327.4
57.5°	2092.6	2080.4	2110.2	2413.6	3252.8	4442.0	5083.3	5076.4	4601.8	4341.2	4555.2
60°	1636.3	1618.0	1538.5	1546.9	2217.2	3469.9	4411.5	4614.0	4785.2	4469.6	4714.1
62.5°	1452.9	1439.2	1397.9	1284.0	1320.7	2326.5	3233.7	3419.4	4181.4	3947.6	4049.2
65°	1203.0	1199.2	1233.6	1229.0	1106.7	1284.8	1825.1	2012.4	2629.2	2662.0	2629.2
67.5°	874.3	867.5	954.6	1126.6	1065.4	969.9	1017.3	1082.2	1348.2	1210.6	1089.9
70°	568.6	558.7	609.1	814.0	953.8	845.3	733.0	722.3	741.4	460.9	498.3
72.5°	381.4	369.9	369.2	447.9	576.3	569.4	567.9	562.5	502.1	363.8	403.5
75°	212.5	203.3	201.0	193.4	206.4	210.2	223.9	231.6	250.7	275.9	305.7
77.5°	35.9	35.2	44.3	56.6	78.0	100.1	123.8	130.7	161.3	191.1	210.2
80°	19.9	20.6	26.8	32.9	43.6	59.6	76.4	81.0	99.4	115.4	130.7
82.5°	10.7	10.7	13.8	17.6	23.7	31.3	41.3	45.1	57.3	67.3	78.0
85°	3.8	3.8	5.4	6.9	9.9	13.0	16.1	18.3	25.2	34.4	39.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	3.1	3.1	3.8	6.9	9.9
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°	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7	2899.7
2.5°	2915.0	2894.4	2922.6	2935.6	2940.2	2943.3	2923.4	2909.6	2905.1	2890.5	2882.1
5°	2925.7	2911.9	2938.7	2938.7	2919.6	2899.7	2859.2	2830.9	2811.1	2787.4	2783.5
7.5°	2944.0	2934.1	2948.6	2918.8	2870.7	2817.2	2746.9	2691.8	2647.5	2618.5	2619.2
10°	2968.5	2956.3	2944.8	2878.3	2790.4	2691.8	2584.1	2503.8	2430.4	2396.8	2378.5
12.5°	2984.5	2967.0	2918.8	2808.8	2679.6	2547.4	2395.3	2276.1	2169.8	2121.7	2117.8
15°	3004.4	2972.3	2876.0	2718.6	2539.0	2358.6	2162.9	1997.1	1853.4	1778.5	1774.7
17.5°	3030.4	2977.7	2824.8	2615.4	2390.7	2124.7	1878.6	1670.0	1517.1	1459.0	1469.0
20°	3067.1	2983.8	2766.7	2500.8	2206.5	1858.8	1552.3	1360.4	1301.6	1297.8	1290.1
22.5°	3108.4	2987.6	2702.5	2372.4	1983.3	1575.2	1282.5	1200.7	1199.9	1219.0	1223.6
25°	3155.0	2990.7	2629.9	2222.6	1741.8	1292.4	1134.2	1109.7	1128.9	1164.8	1169.4
27.5°	3214.6	2996.8	2542.0	2058.2	1485.0	1116.6	1052.4	1046.3	1069.2	1102.9	1101.3
30°	3302.5	3018.9	2448.8	1869.5	1221.3	1033.3	1002.7	1003.5	1012.7	1028.7	1031.0
32.5°	3391.9	3053.3	2357.8	1657.0	1070.0	985.9	972.2	970.6	970.6	977.5	979.1
35°	3476.8	3092.3	2259.2	1435.3	996.6	958.4	949.2	944.7	942.4	940.8	938.5
37.5°	3524.1	3111.4	2162.9	1216.7	957.7	940.1	930.9	924.8	916.4	910.3	908.7
40°	3503.5	3089.3	2051.4	1053.2	934.0	922.5	911.8	903.4	891.9	886.6	883.5
42.5°	3434.7	3020.5	1929.8	976.0	914.9	903.4	890.4	876.6	869.0	864.4	863.6
45°	3362.1	2937.2	1783.1	930.9	896.5	882.8	867.5	852.2	843.8	841.5	840.7
47.5°	3359.8	2895.9	1627.2	895.0	874.3	860.6	841.5	826.2	817.0	814.0	810.9
50°	3460.7	2937.9	1451.4	863.6	851.4	836.9	815.5	798.7	787.2	783.4	782.6
52.5°	3670.1	3096.1	1293.9	832.3	820.8	804.0	786.5	769.6	755.9	749.0	748.2
55°	3896.3	3297.1	1196.1	800.2	784.9	770.4	754.4	736.0	720.7	710.0	708.5
57.5°	4130.2	3516.5	1166.3	759.7	748.2	738.3	719.2	699.3	681.7	671.8	669.5
60°	4322.8	3705.3	1222.1	716.9	710.8	697.8	680.2	661.1	648.9	641.2	639.7
62.5°	3618.9	3016.6	986.7	670.3	670.3	656.5	636.7	622.9	614.5	609.1	607.6
65°	2296.7	1867.9	673.3	623.7	622.9	604.6	587.7	578.6	574.7	566.3	564.8
67.5°	1000.5	853.7	575.5	576.3	573.2	553.3	536.5	529.7	522.0	512.8	512.1
70°	519.0	528.9	515.1	523.5	518.2	494.5	478.4	467.7	451.7	442.5	443.3
72.5°	418.8	429.5	444.8	457.8	446.3	427.2	402.0	389.0	368.4	358.5	359.2
75°	319.5	330.9	345.5	359.2	350.0	326.4	310.3	297.3	273.6	262.2	264.4
77.5°	220.1	226.2	243.8	243.0	240.0	233.1	209.4	194.1	169.7	155.9	157.4
80°	136.8	140.6	149.0	152.9	151.3	142.2	123.1	111.6	97.1	88.7	89.4
82.5°	82.5	84.8	92.5	93.2	92.5	85.6	71.1	62.7	53.5	48.9	48.9
85°	42.0	43.6	48.2	48.2	43.6	36.7	32.9	29.0	23.7	21.4	21.4
87.5°	11.5	11.5	14.5	12.2	9.9	9.2	4.6	3.8	1.5	0.8	0.8
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)