

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: P632805

Luminaire Tested: GWS-SA2D-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632805
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-SA2D-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 9944.7 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

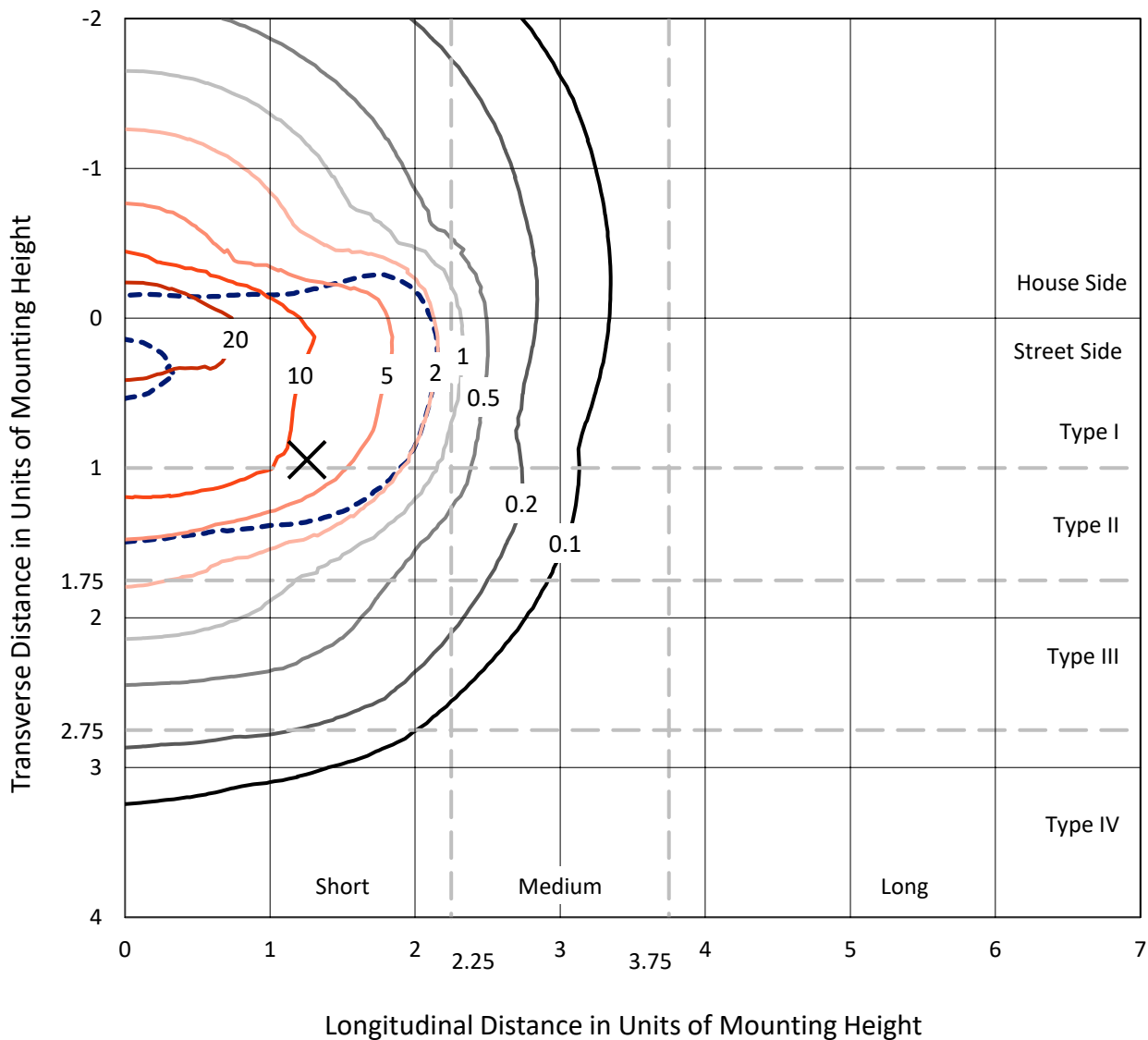
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

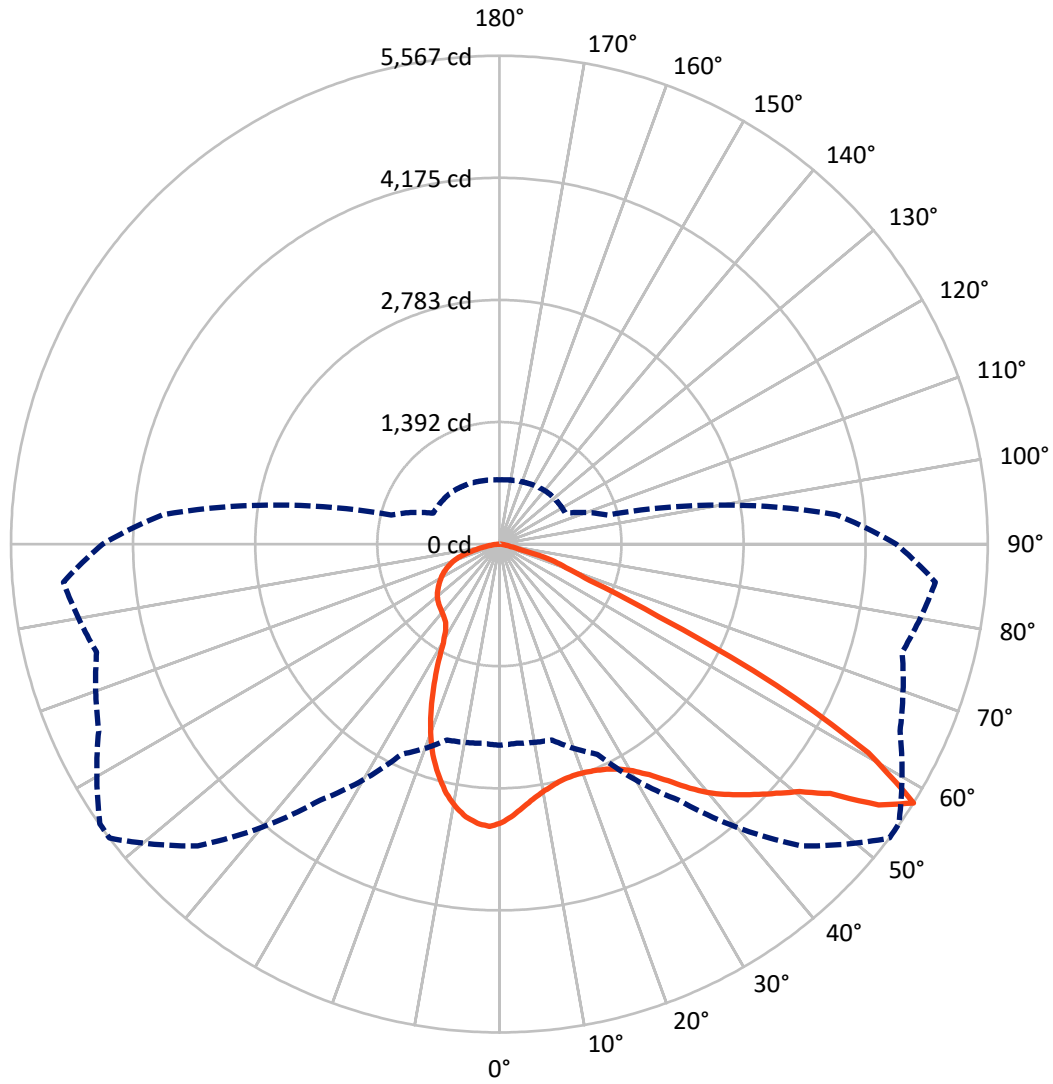
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.8 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	3109.3	0.0	3109.3
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	6835.4	0.0	6835.4
	% Fixture	68.7	0.0	68.7
Total	Lumens	9944.7	0.0	9944.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	2.9
10°-20°	753.4	7.6
20°-30°	1110.0	11.2
30°-40°	1553.7	15.6
40°-50°	2042.5	20.5
50°-60°	2394.8	24.1
60°-70°	1410.8	14.2
70°-80°	351.0	3.5
80°-90°	41.2	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°	9944.7	100.0
0°-180°	9944.7	100.0

Coefficient of Utilization



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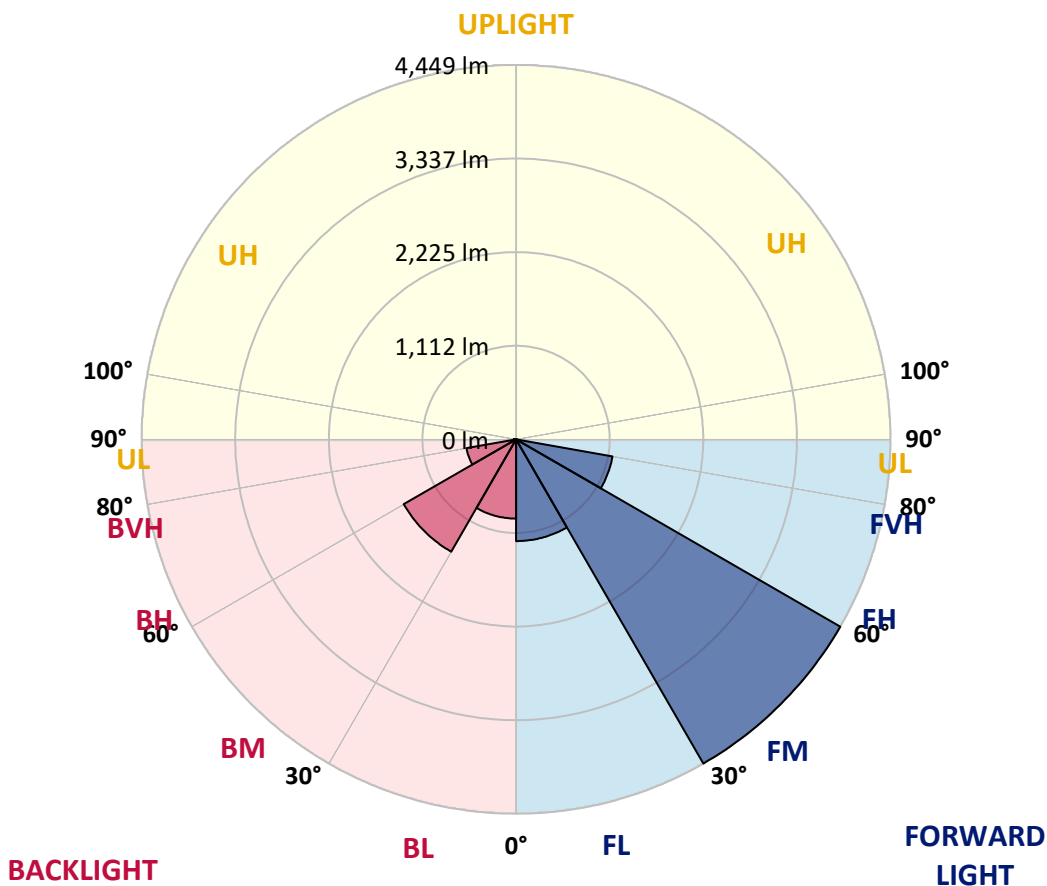
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.1	12.2			
FM (30°-60°)	4449.3	44.7			
FH (60°-80°)	1163.2	11.7			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	941.5	9.5	B2/1000		
BM (30°-60°)	1541.8	15.5	B2/2500		
BH (60°-80°)	598.7	6.0	B2/1000		G2/1000
BVH (80°-90°)	27.4	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°	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6
2.5°	2993.1	3001.5	3003.2	3029.1	3030.8	3068.5	3093.6	3088.6	3114.5	3146.3	3171.4
5°	2850.0	2850.9	2859.2	2890.2	2906.9	2956.3	2998.2	2998.2	3048.4	3113.7	3169.8
7.5°	2732.0	2731.2	2738.7	2773.0	2800.6	2860.1	2917.0	2923.7	2994.0	3089.4	3180.6
10°	2622.3	2628.2	2636.6	2678.4	2713.6	2787.2	2855.0	2865.9	2954.6	3072.7	3195.7
12.5°	2552.0	2552.9	2565.4	2612.3	2657.5	2736.2	2807.3	2820.7	2922.8	3056.8	3206.6
15°	2506.8	2507.7	2521.1	2573.0	2625.7	2705.2	2778.0	2793.1	2904.4	3054.2	3227.5
17.5°	2486.8	2485.9	2498.5	2550.4	2608.1	2691.0	2768.8	2787.2	2912.8	3073.5	3264.3
20°	2486.8	2487.6	2494.3	2541.2	2599.7	2687.6	2778.0	2800.6	2945.4	3117.0	3321.3
22.5°	2521.9	2525.3	2528.6	2560.4	2606.4	2692.7	2802.3	2832.4	3015.7	3189.8	3395.7
25°	2590.5	2591.4	2594.7	2620.7	2641.6	2706.9	2842.5	2887.7	3125.4	3296.1	3489.5
27.5°	2682.6	2694.3	2697.7	2714.4	2714.4	2742.0	2905.3	2970.5	3273.5	3449.3	3609.2
30°	2811.5	2815.7	2821.6	2840.0	2819.9	2808.2	2997.3	3081.0	3445.1	3634.3	3753.1
32.5°	2924.5	2933.7	2965.5	2995.7	2959.7	2922.8	3132.9	3231.7	3610.0	3826.8	3906.3
35°	3020.8	3043.4	3104.5	3171.4	3146.3	3109.5	3312.9	3415.8	3745.6	3964.9	4041.9
37.5°	3137.1	3154.7	3238.4	3347.2	3369.8	3352.2	3532.2	3605.8	3836.0	4000.1	4115.6
40°	3255.1	3281.9	3389.9	3540.5	3626.8	3639.3	3734.7	3784.1	3867.0	3931.4	4101.3
42.5°	3375.7	3421.7	3569.8	3745.6	3898.8	3927.2	3905.5	3926.4	3856.9	3836.8	4035.2
45°	3523.0	3577.4	3744.8	3969.1	4170.8	4215.2	4072.9	4053.6	3855.3	3800.9	3994.2
47.5°	3697.1	3751.5	3911.3	4172.5	4430.3	4462.9	4244.5	4209.3	3913.9	3856.1	4049.4
50°	3851.1	3888.7	4031.9	4324.0	4672.2	4691.4	4433.6	4390.9	4059.5	4009.3	4221.9
52.5°	3694.6	3690.4	3841.0	4200.9	4797.7	5029.6	4724.9	4683.9	4340.7	4263.7	4488.9
55°	3134.6	3086.9	3221.6	3575.7	4447.0	5330.1	5247.2	5165.2	4715.7	4519.8	4739.1
57.5°	2291.7	2278.3	2311.0	2643.3	3562.3	4864.7	5566.9	5559.4	5039.6	4754.2	4988.6
60°	1792.0	1771.9	1684.9	1694.1	2428.2	3800.0	4831.2	5053.0	5240.5	4894.8	5162.7
62.5°	1591.2	1576.1	1530.9	1406.2	1446.4	2547.9	3541.4	3744.8	4579.3	4323.2	4434.5
65°	1317.5	1313.3	1350.9	1345.9	1212.0	1407.0	1998.8	2203.8	2879.3	2915.3	2879.3
67.5°	957.5	950.0	1045.4	1233.8	1166.8	1062.2	1114.1	1185.2	1476.5	1325.8	1193.6
70°	622.7	611.9	667.1	891.4	1044.6	925.7	802.7	791.0	811.9	504.7	545.7
72.5°	417.7	405.1	404.3	490.5	631.1	623.6	621.9	616.0	549.9	398.4	441.9
75°	232.7	222.6	220.1	211.8	226.0	230.2	245.2	253.6	274.5	302.2	334.8
77.5°	39.3	38.5	48.5	61.9	85.4	109.6	135.6	143.1	176.6	209.3	230.2
80°	21.8	22.6	29.3	36.0	47.7	65.3	83.7	88.7	108.8	126.4	143.1
82.5°	11.7	11.7	15.1	19.3	25.9	34.3	45.2	49.4	62.8	73.7	85.4
85°	4.2	4.2	5.9	7.5	10.9	14.2	17.6	20.1	27.6	37.7	42.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	3.3	4.2	7.5	10.9
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°	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6	3175.6
2.5°	3192.4	3169.8	3200.7	3215.0	3220.0	3223.3	3201.6	3186.5	3181.5	3165.6	3156.4
5°	3204.1	3189.0	3218.3	3218.3	3197.4	3175.6	3131.2	3100.3	3078.5	3052.6	3048.4
7.5°	3224.2	3213.3	3229.2	3196.5	3143.8	3085.2	3008.2	2947.9	2899.4	2867.6	2868.4
10°	3250.9	3237.6	3225.0	3152.2	3055.9	2947.9	2829.9	2742.0	2661.7	2624.9	2604.8
12.5°	3268.5	3249.3	3196.5	3076.0	2934.6	2789.8	2623.2	2492.6	2376.3	2323.5	2319.4
15°	3290.3	3255.1	3149.7	2977.2	2780.5	2583.0	2368.7	2187.1	2029.7	1947.7	1943.5
17.5°	3318.7	3261.0	3093.6	2864.2	2618.2	2326.9	2057.4	1828.9	1661.5	1597.8	1608.7
20°	3358.9	3267.7	3030.0	2738.7	2416.4	2035.6	1700.0	1489.9	1425.4	1421.2	1412.9
22.5°	3404.1	3271.9	2959.7	2598.1	2172.0	1725.1	1404.5	1314.9	1314.1	1335.0	1340.1
25°	3455.2	3275.2	2880.1	2434.0	1907.5	1415.4	1242.1	1215.3	1236.3	1275.6	1280.6
27.5°	3520.5	3281.9	2783.9	2254.1	1626.3	1222.9	1152.6	1145.9	1171.0	1207.8	1206.1
30°	3616.7	3306.2	2681.8	2047.3	1337.5	1131.6	1098.2	1099.0	1109.0	1126.6	1129.1
32.5°	3714.6	3343.9	2582.2	1814.6	1171.8	1079.7	1064.7	1063.0	1063.0	1070.5	1072.2
35°	3807.6	3386.5	2474.2	1571.9	1091.5	1049.6	1039.6	1034.5	1032.0	1030.4	1027.8
37.5°	3859.4	3407.5	2368.7	1332.5	1048.8	1029.5	1019.5	1012.8	1003.6	996.9	995.2
40°	3836.8	3383.2	2246.5	1153.4	1022.8	1010.3	998.6	989.3	976.8	970.9	967.6
42.5°	3761.5	3307.9	2113.4	1068.9	1001.9	989.3	975.1	960.0	951.7	946.7	945.8
45°	3682.0	3216.6	1952.7	1019.5	981.8	966.7	950.0	933.3	924.1	921.5	920.7
47.5°	3679.5	3171.4	1782.0	980.1	957.5	942.5	921.5	904.8	894.8	891.4	888.1
50°	3790.0	3217.5	1589.5	945.8	932.4	916.5	893.1	874.7	862.1	857.9	857.1
52.5°	4019.3	3390.7	1417.1	911.5	898.9	880.5	861.3	842.9	827.8	820.3	819.4
55°	4267.1	3610.9	1309.9	876.3	859.6	843.7	826.1	806.0	789.3	777.6	775.9
57.5°	4523.2	3851.1	1277.3	832.0	819.4	808.6	787.6	765.9	746.6	735.7	733.2
60°	4734.1	4057.8	1338.4	785.1	778.4	764.2	744.9	724.0	710.6	702.3	700.6
62.5°	3963.2	3303.7	1080.6	734.1	734.1	719.0	697.2	682.2	673.0	667.1	665.4
65°	2515.2	2045.6	737.4	683.0	682.2	662.1	643.7	633.6	629.4	620.2	618.5
67.5°	1095.6	934.9	630.3	631.1	627.8	606.0	587.6	580.0	571.7	561.6	560.8
70°	568.3	579.2	564.1	573.4	567.5	541.5	524.0	512.2	494.7	484.6	485.5
72.5°	458.7	470.4	487.1	501.4	488.8	467.9	440.3	426.0	403.4	392.6	393.4
75°	349.9	362.4	378.3	393.4	383.4	357.4	339.8	325.6	299.6	287.1	289.6
77.5°	241.1	247.8	267.0	266.2	262.8	255.3	229.3	212.6	185.8	170.7	172.4
80°	149.8	154.0	163.2	167.4	165.7	155.7	134.8	122.2	106.3	97.1	97.9
82.5°	90.4	92.9	101.3	102.1	101.3	93.7	77.8	68.6	58.6	53.6	53.6
85°	46.0	47.7	52.7	52.7	47.7	40.2	36.0	31.8	25.9	23.4	23.4
87.5°	12.6	12.6	15.9	13.4	10.9	10.0	5.0	4.2	1.7	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)