

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: P633327

Luminaire Tested: GWS-SA2E-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 12453.6 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

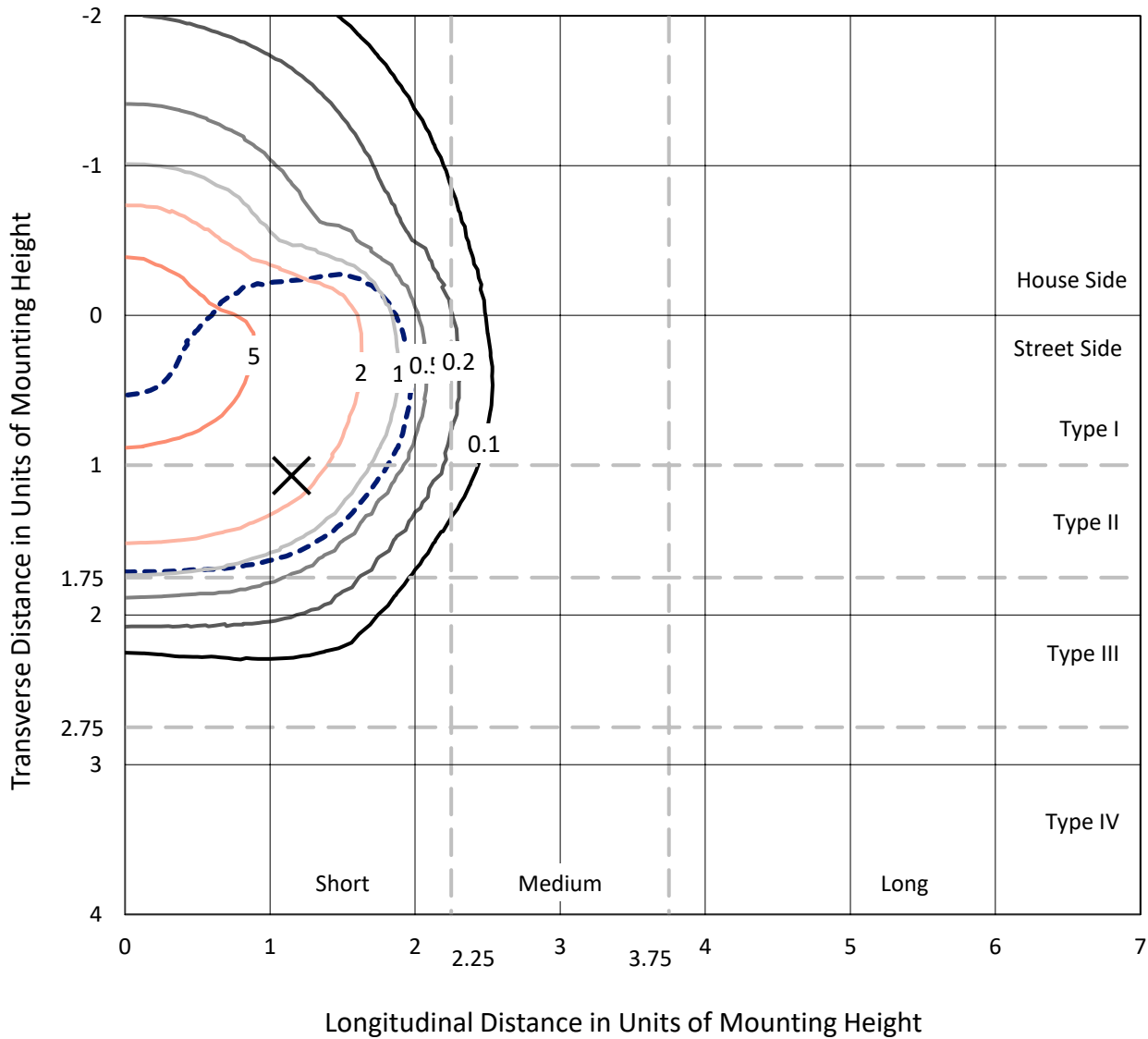
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

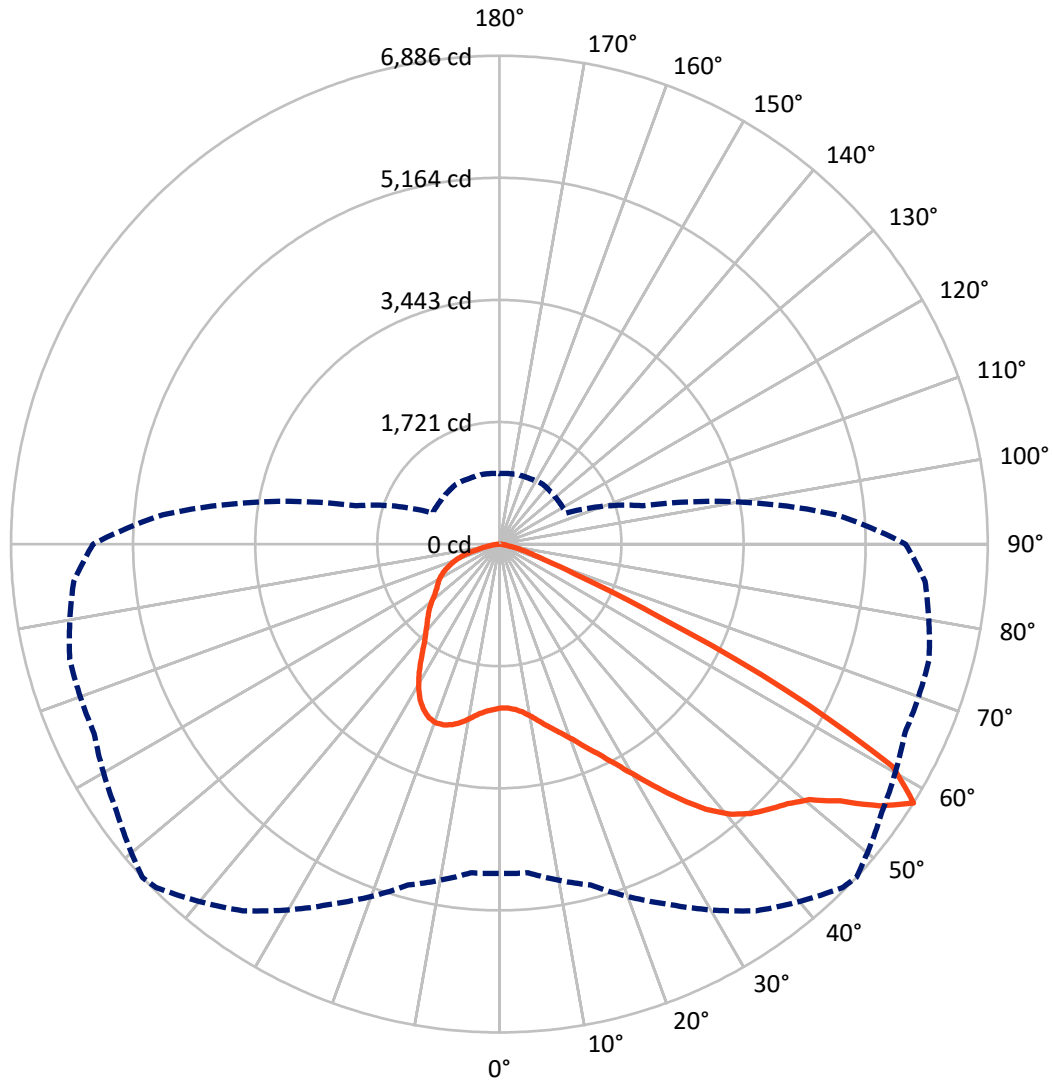
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3941.5	0.0	3941.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8512.1	0.0	8512.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	12453.6	0.0	12453.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	1.8
10°-20°	749.2	6.0
20°-30°	1349.1	10.8
30°-40°	2037.6	16.4
40°-50°	2743.9	22.0
50°-60°	3297.1	26.5
60°-70°	1605.8	12.9
70°-80°	395.6	3.2
80°-90°	47.5	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°	12453.6	100.0
0°-180°	12453.6	100.0

Coefficient of Utilization



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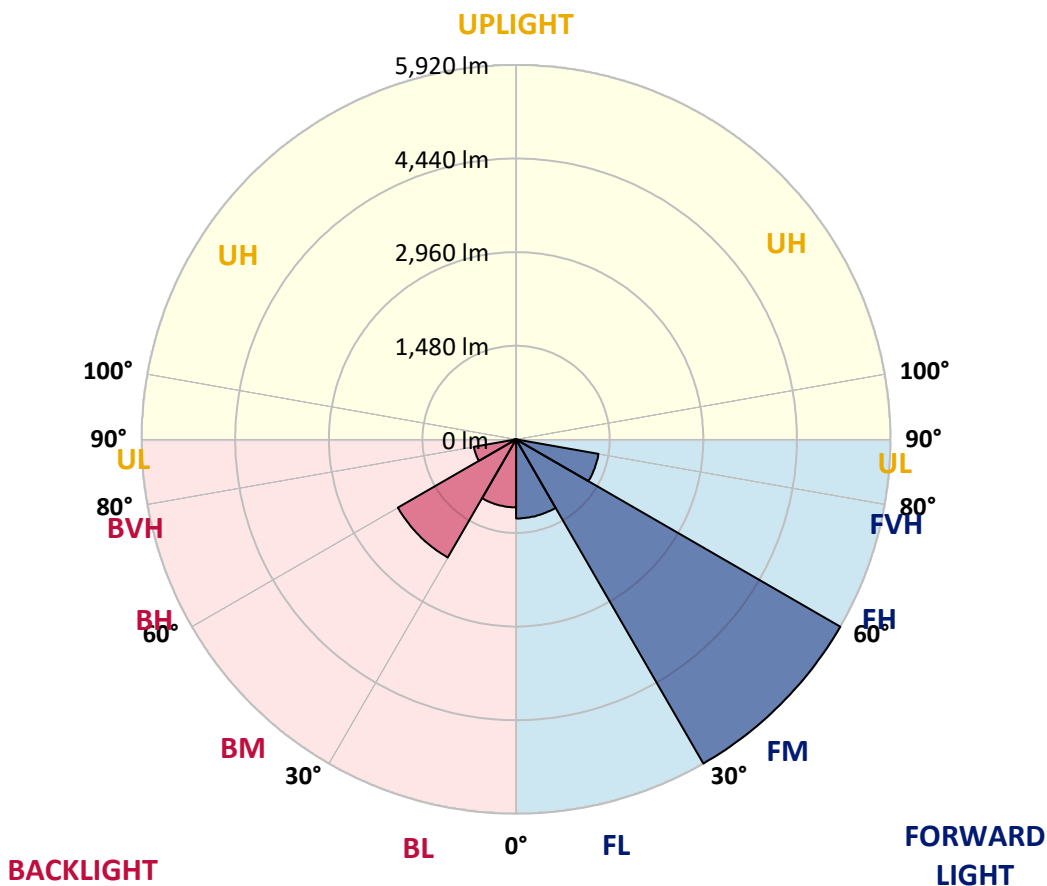
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.9	10.0			
FM (30°-60°)	5919.9	47.5			
FH (60°-80°)	1323.4	10.6			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1075.2	8.6	B3/2500		
BM (30°-60°)	2158.8	17.3	B2/2500		
BH (60°-80°)	677.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5
2.5°	2305.4	2304.3	2304.3	2310.6	2310.6	2312.7	2315.8	2319.0	2320.0	2314.8	2303.3
5°	2330.5	2330.5	2330.5	2335.7	2335.7	2337.8	2342.0	2343.0	2342.0	2333.6	2322.1
7.5°	2370.2	2370.2	2371.3	2377.5	2382.8	2385.9	2393.2	2392.2	2389.0	2375.4	2360.8
10°	2435.1	2438.2	2441.3	2448.7	2459.1	2466.4	2471.7	2471.7	2467.5	2446.6	2427.7
12.5°	2527.1	2531.3	2534.4	2540.7	2549.1	2561.6	2573.1	2573.1	2567.9	2541.7	2513.5
15°	2634.8	2639.0	2638.0	2640.1	2655.8	2673.5	2683.0	2689.2	2691.3	2654.7	2610.8
17.5°	2758.3	2762.5	2758.3	2752.0	2754.1	2782.3	2799.1	2822.1	2835.7	2786.5	2716.4
20°	2870.2	2866.0	2866.0	2870.2	2876.5	2911.0	2936.1	2973.7	2990.5	2930.9	2822.1
22.5°	2988.4	2997.8	2993.6	2993.6	3018.7	3076.2	3106.6	3155.7	3173.5	3096.1	2949.7
25°	3141.1	3149.5	3147.4	3149.5	3178.8	3260.3	3290.7	3381.7	3399.5	3288.6	3090.9
27.5°	3308.5	3322.1	3328.3	3326.2	3373.3	3480.0	3517.7	3644.2	3676.6	3504.1	3241.5
30°	3526.0	3540.7	3545.9	3543.8	3599.2	3744.6	3787.5	3931.9	3977.9	3759.3	3432.9
32.5°	3778.1	3792.7	3808.4	3814.7	3885.8	4034.4	4096.1	4245.7	4311.6	4054.2	3664.1
35°	4028.1	4040.6	4071.0	4120.1	4217.4	4369.1	4423.5	4571.0	4634.8	4360.7	3943.4
37.5°	4304.2	4312.6	4338.8	4406.7	4546.9	4691.2	4745.6	4886.8	4894.2	4656.7	4259.3
40°	4606.5	4606.5	4601.3	4668.2	4814.7	4960.1	5007.1	5088.7	5045.8	4884.8	4566.8
42.5°	4862.8	4858.6	4862.8	4925.6	5034.3	5152.5	5193.3	5177.6	5123.2	5059.4	4845.0
45°	5094.0	5097.1	5134.7	5182.9	5239.3	5309.4	5333.5	5244.6	5195.4	5199.6	5067.8
47.5°	5250.9	5254.0	5341.9	5422.4	5456.9	5478.9	5468.4	5345.0	5319.9	5367.0	5239.3
50°	5271.8	5288.5	5440.2	5605.4	5691.2	5694.4	5665.1	5514.4	5507.1	5560.5	5331.4
52.5°	5276.0	5292.7	5482.0	5780.1	6002.9	6050.0	6016.5	5859.6	5783.3	5729.9	5444.4
55°	5260.3	5279.1	5488.3	5897.3	6324.0	6512.3	6515.4	6293.7	6050.0	6014.4	5766.5
57.5°	4644.2	4651.5	4975.8	5599.2	6311.5	6844.9	6885.7	6584.5	6306.3	6272.8	6024.9
60°	3235.2	3264.5	3617.0	4440.2	5302.1	6242.4	6374.2	6286.4	6100.2	5856.5	5169.3
62.5°	1620.2	1645.3	1998.9	2777.1	3656.8	4399.4	4540.6	4633.7	4677.7	4416.2	3519.7
65°	697.7	716.5	936.2	1450.8	2070.0	2428.8	2477.9	2589.9	2863.9	2555.3	1896.4
67.5°	466.5	479.1	591.0	884.9	1219.6	1242.6	1235.3	1259.4	1319.0	1088.9	856.7
70°	357.7	368.2	443.5	648.5	876.5	750.0	710.2	644.3	699.8	713.4	694.5
72.5°	259.4	267.8	324.3	442.5	549.1	479.1	472.8	506.3	581.6	602.5	591.0
75°	167.4	171.5	206.1	242.7	283.5	307.5	320.1	380.7	457.1	472.8	459.2
77.5°	111.9	115.1	134.9	155.9	161.1	162.1	166.3	193.5	245.8	275.1	272.0
80°	58.6	58.6	65.9	65.9	75.3	90.0	94.1	111.9	136.0	150.6	151.7
82.5°	23.0	24.1	28.2	31.4	37.7	46.0	49.2	58.6	71.1	81.6	91.0
85°	9.4	10.5	11.5	13.6	16.7	20.9	22.0	25.1	33.5	41.8	47.1
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	3.1	4.2	5.2	9.4	12.6
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°	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5	2309.5
2.5°	2316.9	2303.3	2316.9	2321.0	2332.5	2336.7	2329.4	2328.4	2328.4	2317.9	2314.8
5°	2332.5	2320.0	2333.6	2339.9	2356.6	2367.1	2369.2	2377.5	2382.8	2378.6	2377.5
7.5°	2371.3	2355.6	2370.2	2379.6	2401.6	2418.3	2425.6	2444.5	2458.1	2456.0	2454.9
10°	2439.2	2418.3	2435.1	2450.7	2474.8	2494.7	2495.7	2506.2	2519.8	2515.6	2513.5
12.5°	2517.7	2497.8	2516.6	2532.3	2560.6	2568.9	2555.3	2551.2	2553.3	2548.0	2543.8
15°	2613.9	2585.7	2602.4	2620.2	2635.9	2626.5	2597.2	2585.7	2584.6	2577.3	2573.1
17.5°	2710.2	2674.6	2687.1	2696.6	2689.2	2659.9	2623.3	2603.5	2594.0	2579.4	2575.2
20°	2805.3	2760.4	2758.3	2750.9	2717.5	2664.1	2615.0	2575.2	2551.2	2531.3	2524.0
22.5°	2914.1	2851.4	2820.0	2786.5	2713.3	2626.5	2552.2	2495.7	2457.0	2431.9	2423.6
25°	3031.3	2942.4	2877.5	2810.6	2671.4	2545.9	2442.4	2365.0	2319.0	2291.8	2282.3
27.5°	3147.4	3025.0	2927.7	2813.7	2587.8	2429.8	2290.7	2186.1	2140.1	2118.1	2110.8
30°	3304.3	3134.8	2987.3	2772.9	2477.9	2268.7	2095.1	1989.5	1959.1	1943.4	1937.2
32.5°	3485.2	3273.9	3066.8	2687.1	2337.8	2080.5	1897.4	1824.2	1803.3	1772.9	1771.9
35°	3723.7	3472.7	3142.1	2560.6	2161.0	1878.6	1745.8	1693.5	1655.8	1607.7	1603.5
37.5°	4001.9	3720.6	3182.9	2399.5	1954.9	1712.3	1632.8	1574.2	1513.5	1449.7	1441.4
40°	4289.6	4010.3	3186.1	2209.1	1753.1	1602.5	1535.5	1459.2	1383.8	1312.7	1303.3
42.5°	4591.9	4280.2	3130.6	1989.5	1587.8	1507.3	1439.3	1343.0	1258.3	1210.2	1205.0
45°	4861.7	4497.7	3005.1	1758.3	1465.4	1427.8	1341.0	1237.4	1192.4	1157.9	1150.6
47.5°	5074.1	4642.1	2835.7	1551.2	1366.1	1346.2	1233.2	1179.9	1145.4	1114.0	1106.7
50°	5178.7	4674.5	2615.0	1382.8	1274.0	1250.0	1172.6	1131.8	1108.7	1083.6	1077.4
52.5°	5308.4	4711.1	2424.6	1241.6	1184.1	1151.6	1122.3	1089.9	1073.2	1057.5	1052.3
55°	5606.5	4849.2	2324.2	1128.6	1098.3	1083.6	1079.5	1052.3	1047.0	1036.6	1027.2
57.5°	5727.8	4760.3	2086.7	1036.6	1030.3	1032.4	1042.8	1017.7	1012.5	1000.0	993.7
60°	4606.5	3598.2	1413.1	957.1	973.8	987.4	997.9	972.8	965.4	963.4	955.0
62.5°	2951.8	2213.3	986.4	882.8	907.9	924.7	930.9	906.9	901.6	918.4	919.4
65°	1536.6	1206.0	800.2	803.3	824.2	849.3	861.9	853.5	851.4	869.2	870.3
67.5°	784.5	737.4	697.7	709.2	725.9	758.3	787.6	824.2	836.8	838.9	839.9
70°	668.4	647.5	627.6	634.9	652.7	670.5	698.7	716.5	695.6	690.4	688.3
72.5°	569.0	553.3	543.9	552.3	561.7	558.6	550.2	558.6	561.7	562.7	563.8
75°	442.5	430.9	423.6	424.7	424.7	413.2	397.5	388.1	377.6	369.2	369.2
77.5°	270.9	273.0	280.3	279.3	278.2	274.0	258.4	250.0	224.9	217.6	217.6
80°	154.8	157.9	165.3	167.4	167.4	162.1	146.4	137.0	125.5	120.3	119.2
82.5°	94.1	98.3	102.5	104.6	105.6	99.4	85.8	78.4	72.2	66.9	66.9
85°	49.2	51.3	55.4	56.5	53.3	47.1	39.7	36.6	30.3	29.3	29.3
87.5°	13.6	14.6	16.7	13.6	12.6	9.4	5.2	4.2	2.1	1.0	1.0
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)