

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: P633437

Luminaire Tested: GWS-SA2E-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633437
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12564.4 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

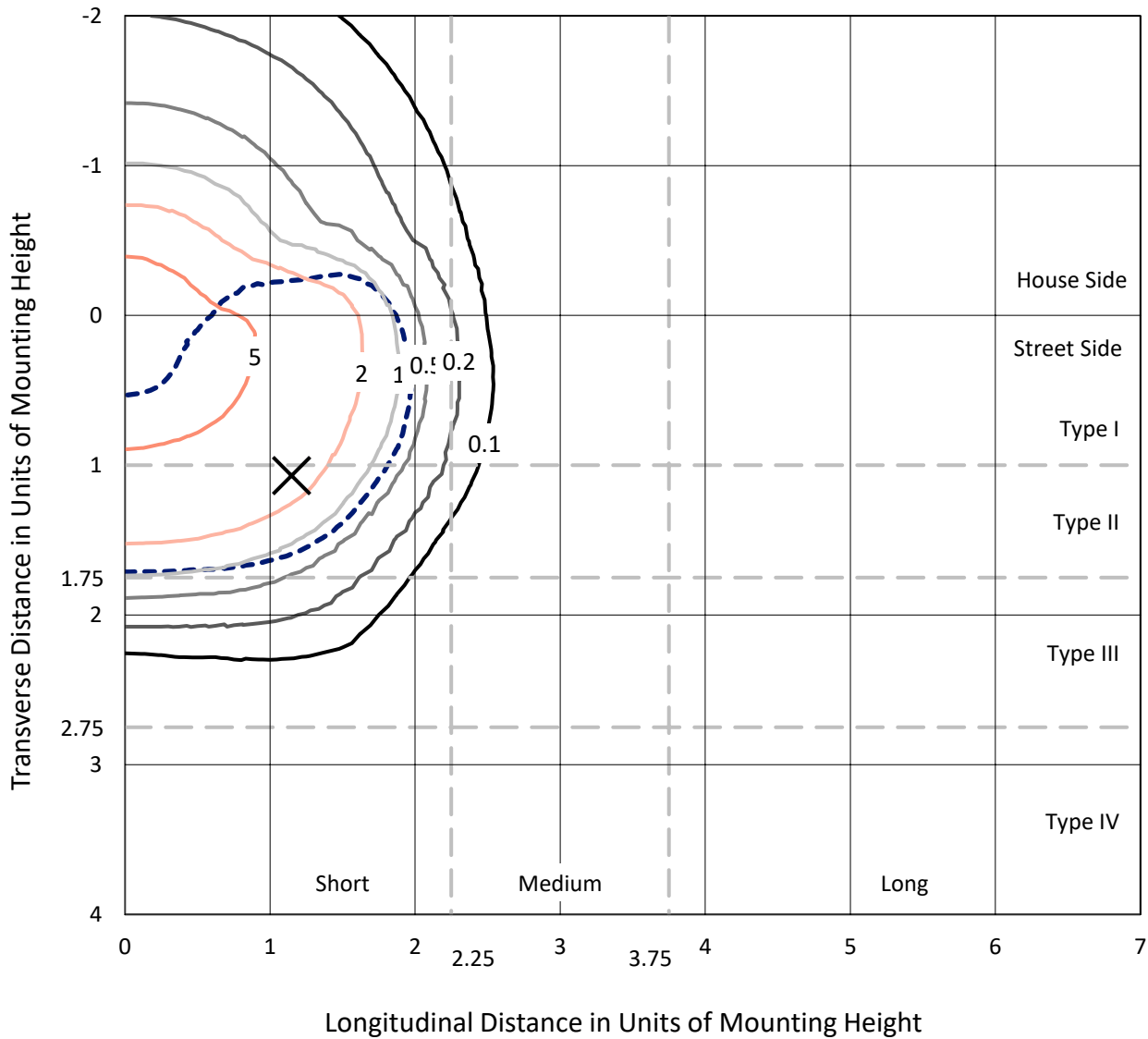
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633437
 CATALOG NUMBER: GWS-SA2E-760-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

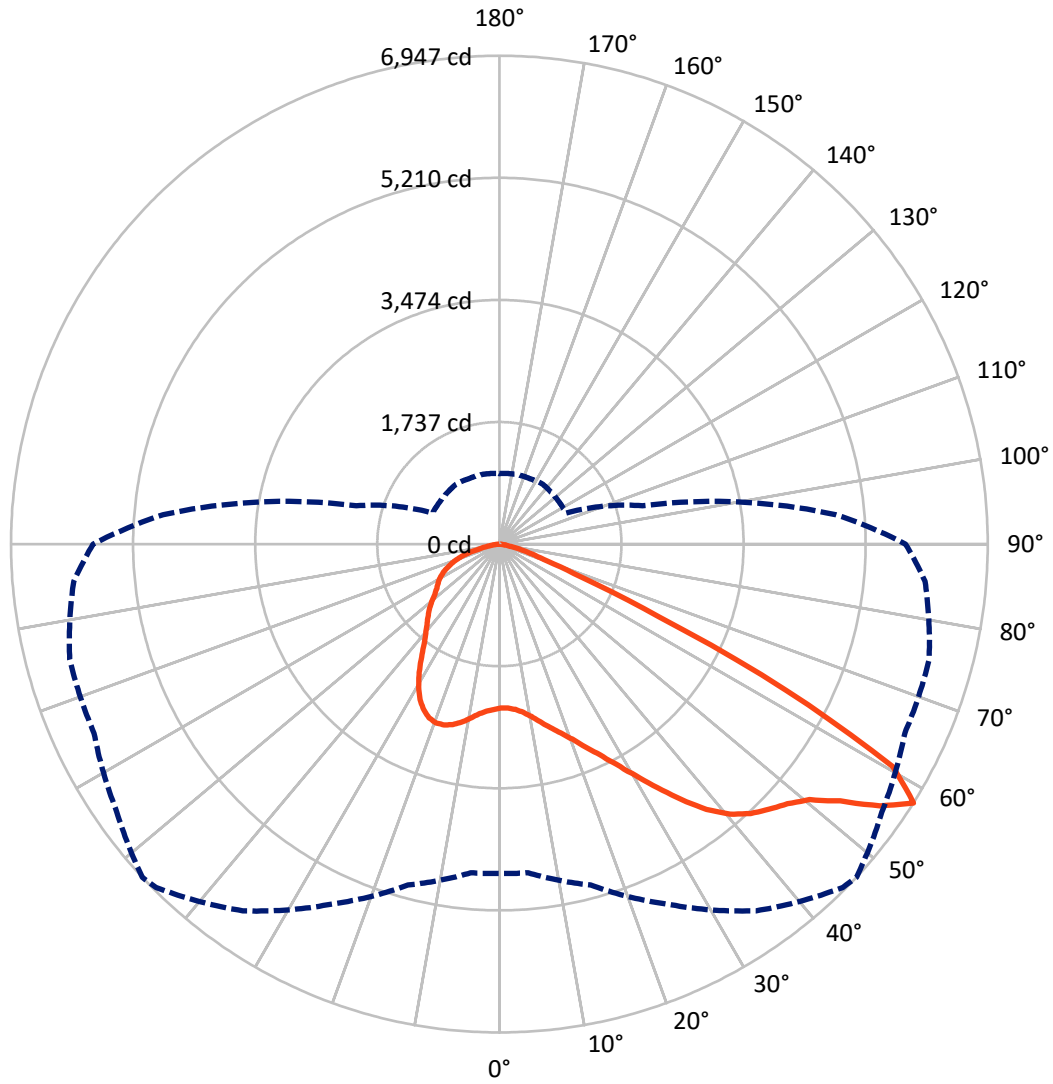
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P633437
CATALOG NUMBER: GWS-SA2E-760-U-T3-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633437

CATALOG NUMBER: GWS-SA2E-760-U-T3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3976.6	0.0	3976.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8587.8	0.0	8587.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	12564.4	0.0	12564.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	1.8
10°-20°	755.9	6.0
20°-30°	1361.1	10.8
30°-40°	2055.7	16.4
40°-50°	2768.3	22.0
50°-60°	3326.5	26.5
60°-70°	1620.1	12.9
70°-80°	399.1	3.2
80°-90°	48.0	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°	12564.4	100.0
0°-180°	12564.4	100.0

Coefficient of Utilization



REPORT NUMBER: P633437

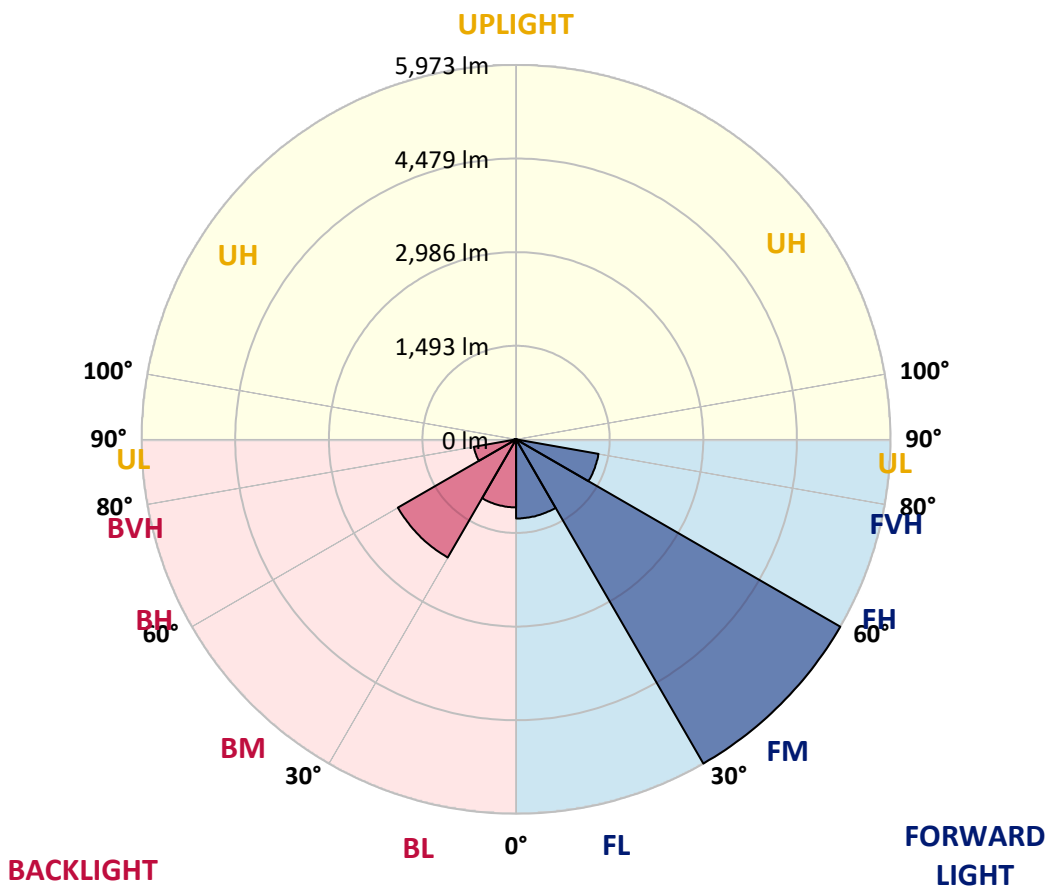
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.0	10.0			
FM (30°-60°)	5972.5	47.5			
FH (60°-80°)	1335.2	10.6			G1/1800
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	1084.7	8.6	B3/2500		
BM (30°-60°)	2178.0	17.3	B2/2500		
BH (60°-80°)	683.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.9	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





REPORT NUMBER: P633437

CATALOG NUMBER: GWS-SA2E-760-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1
2.5°	2325.9	2324.8	2324.8	2331.1	2331.1	2333.3	2336.4	2339.6	2340.6	2335.4	2323.8
5°	2351.2	2351.2	2351.2	2356.5	2356.5	2358.6	2362.8	2363.9	2362.8	2354.4	2342.7
7.5°	2391.3	2391.3	2392.3	2398.7	2404.0	2407.1	2414.5	2413.5	2410.3	2396.6	2381.8
10°	2456.7	2459.9	2463.1	2470.4	2481.0	2488.4	2493.7	2493.7	2489.4	2468.3	2449.3
12.5°	2549.6	2553.8	2557.0	2563.3	2571.7	2584.4	2596.0	2596.0	2590.7	2564.4	2535.9
15°	2658.3	2662.5	2661.4	2663.6	2679.4	2697.3	2706.8	2713.2	2715.3	2678.3	2634.0
17.5°	2782.8	2787.0	2782.8	2776.5	2778.6	2807.1	2824.0	2847.2	2860.9	2811.3	2740.6
20°	2895.7	2891.5	2891.5	2895.7	2902.1	2936.9	2962.2	3000.2	3017.1	2956.9	2847.2
22.5°	3015.0	3024.5	3020.2	3020.2	3045.6	3103.6	3134.2	3183.8	3201.8	3123.7	2975.9
25°	3169.0	3177.5	3175.4	3177.5	3207.0	3289.3	3320.0	3411.8	3429.7	3317.8	3118.4
27.5°	3337.9	3351.6	3357.9	3355.8	3403.3	3511.0	3548.9	3676.6	3709.4	3535.2	3270.4
30°	3557.4	3572.2	3577.4	3575.3	3631.3	3777.9	3821.2	3966.8	4013.3	3792.7	3463.5
32.5°	3811.7	3826.5	3842.3	3848.7	3920.4	4070.3	4132.5	4283.4	4349.9	4090.3	3696.7
35°	4063.9	4076.6	4107.2	4156.8	4254.9	4408.0	4462.8	4611.6	4676.0	4399.5	3978.5
37.5°	4342.5	4351.0	4377.4	4445.9	4587.4	4733.0	4787.9	4930.3	4937.7	4698.2	4297.2
40°	4647.5	4647.5	4642.2	4709.8	4857.5	5004.2	5051.7	5134.0	5090.7	4928.2	4607.4
42.5°	4906.1	4901.8	4906.1	4969.4	5079.1	5198.4	5239.5	5223.7	5168.8	5104.5	4888.1
45°	5139.3	5142.4	5180.4	5229.0	5286.0	5356.7	5380.9	5291.2	5241.6	5245.9	5112.9
47.5°	5297.6	5300.7	5389.4	5470.6	5505.5	5527.6	5517.1	5392.5	5367.2	5414.7	5286.0
50°	5318.7	5335.6	5488.6	5655.3	5741.8	5745.0	5715.5	5563.5	5556.1	5609.9	5378.8
52.5°	5322.9	5339.8	5530.8	5831.5	6056.3	6103.8	6070.0	5911.7	5834.7	5780.9	5492.8
55°	5307.1	5326.1	5537.1	5949.7	6380.3	6570.3	6573.4	6349.7	6103.8	6067.9	5817.8
57.5°	4685.5	4692.9	5020.0	5649.0	6367.6	6905.8	6947.0	6643.1	6362.4	6328.6	6078.5
60°	3264.0	3293.6	3649.2	4479.7	5349.3	6298.0	6431.0	6342.3	6154.5	5908.6	5215.3
62.5°	1634.6	1660.0	2016.7	2801.8	3689.3	4438.6	4581.0	4674.9	4719.3	4455.4	3551.1
65°	703.9	722.9	944.5	1463.7	2088.4	2450.4	2500.0	2612.9	2889.4	2578.1	1913.2
67.5°	470.7	483.3	596.2	892.8	1230.5	1253.7	1246.3	1270.6	1330.7	1098.6	864.3
70°	360.9	371.5	447.4	654.3	884.3	756.6	716.5	650.1	706.0	719.7	700.7
72.5°	261.7	270.2	327.1	446.4	554.0	483.3	477.0	510.8	586.7	607.8	596.2
75°	168.8	173.1	207.9	244.8	286.0	310.3	322.9	384.1	461.2	477.0	463.3
77.5°	112.9	116.1	136.1	157.2	162.5	163.6	167.8	195.2	248.0	277.5	274.4
80°	59.1	59.1	66.5	66.5	76.0	90.8	95.0	112.9	137.2	152.0	153.0
82.5°	23.2	24.3	28.5	31.7	38.0	46.4	49.6	59.1	71.8	82.3	91.8
85°	9.5	10.6	11.6	13.7	16.9	21.1	22.2	25.3	33.8	42.2	47.5
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	3.2	4.2	5.3	9.5	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633437

CATALOG NUMBER: GWS-SA2E-760-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1	2330.1
2.5°	2337.5	2323.8	2337.5	2341.7	2353.3	2357.5	2350.1	2349.1	2349.1	2338.5	2335.4
5°	2353.3	2340.6	2354.4	2360.7	2377.6	2388.1	2390.2	2398.7	2404.0	2399.7	2398.7
7.5°	2392.3	2376.5	2391.3	2400.8	2423.0	2439.8	2447.2	2466.2	2479.9	2477.8	2476.8
10°	2460.9	2439.8	2456.7	2472.6	2496.8	2516.9	2517.9	2528.5	2542.2	2538.0	2535.9
12.5°	2540.1	2520.0	2539.0	2554.9	2583.4	2591.8	2578.1	2573.9	2576.0	2570.7	2566.5
15°	2637.2	2608.7	2625.6	2643.5	2659.3	2649.8	2620.3	2608.7	2607.6	2600.2	2596.0
17.5°	2734.3	2698.4	2711.0	2720.5	2713.2	2683.6	2646.7	2626.6	2617.1	2602.4	2598.1
20°	2830.3	2784.9	2782.8	2775.4	2741.7	2687.8	2638.2	2598.1	2573.9	2553.8	2546.4
22.5°	2940.0	2876.7	2845.1	2811.3	2737.4	2649.8	2574.9	2517.9	2478.9	2453.6	2445.1
25°	3058.2	2968.5	2903.1	2835.6	2695.2	2568.6	2464.1	2386.0	2339.6	2312.1	2302.6
27.5°	3175.4	3051.9	2953.8	2838.7	2610.8	2451.4	2311.1	2205.6	2159.1	2137.0	2129.6
30°	3333.7	3162.7	3013.9	2797.6	2500.0	2288.9	2113.8	2007.2	1976.6	1960.7	1954.4
32.5°	3516.2	3303.1	3094.1	2711.0	2358.6	2099.0	1914.3	1840.4	1819.3	1788.7	1787.7
35°	3756.8	3503.6	3170.1	2583.4	2180.2	1895.3	1761.3	1708.5	1670.5	1622.0	1617.8
37.5°	4037.5	3753.7	3211.3	2420.8	1972.3	1727.5	1647.3	1588.2	1527.0	1462.6	1454.2
40°	4327.8	4046.0	3214.4	2228.8	1768.7	1616.7	1549.2	1472.1	1396.2	1324.4	1314.9
42.5°	4632.7	4318.3	3158.5	2007.2	1601.9	1520.7	1452.1	1355.0	1269.5	1221.0	1215.7
45°	4905.0	4537.8	3031.9	1773.9	1478.5	1440.5	1352.9	1248.4	1203.0	1168.2	1160.8
47.5°	5119.2	4683.4	2860.9	1565.0	1378.2	1358.2	1244.2	1190.4	1155.5	1123.9	1116.5
50°	5224.8	4716.1	2638.2	1395.1	1285.3	1261.1	1183.0	1141.8	1118.6	1093.3	1087.0
52.5°	5355.6	4753.0	2446.2	1252.6	1194.6	1161.9	1132.3	1099.6	1082.7	1066.9	1061.6
55°	5656.4	4892.3	2344.9	1138.7	1108.1	1093.3	1089.1	1061.6	1056.3	1045.8	1036.3
57.5°	5778.8	4802.6	2105.3	1045.8	1039.5	1041.6	1052.1	1026.8	1021.5	1008.9	1002.5
60°	4647.5	3630.2	1425.7	965.6	982.5	996.2	1006.7	981.4	974.0	971.9	963.5
62.5°	2978.0	2233.0	995.1	890.7	916.0	932.9	939.2	914.9	909.7	926.5	927.6
65°	1550.2	1216.8	807.3	810.5	831.6	856.9	869.6	861.1	859.0	876.9	878.0
67.5°	791.5	744.0	703.9	715.5	732.4	765.1	794.6	831.6	844.2	846.3	847.4
70°	674.3	653.2	633.2	640.6	658.5	676.4	704.9	722.9	701.8	696.5	694.4
72.5°	574.1	558.2	548.8	557.2	566.7	563.5	555.1	563.5	566.7	567.7	568.8
75°	446.4	434.8	427.4	428.4	428.4	416.8	401.0	391.5	381.0	372.5	372.5
77.5°	273.3	275.4	282.8	281.8	280.7	276.5	260.7	252.2	226.9	219.5	219.5
80°	156.2	159.3	166.7	168.8	168.8	163.6	147.7	138.2	126.6	121.4	120.3
82.5°	95.0	99.2	103.4	105.5	106.6	100.3	86.5	79.1	72.8	67.5	67.5
85°	49.6	51.7	55.9	57.0	53.8	47.5	40.1	36.9	30.6	29.5	29.5
87.5°	13.7	14.8	16.9	13.7	12.7	9.5	5.3	4.2	2.1	1.1	1.1
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)