

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: P636712

Luminaire Tested: GWS-SA4B-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14028.8 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

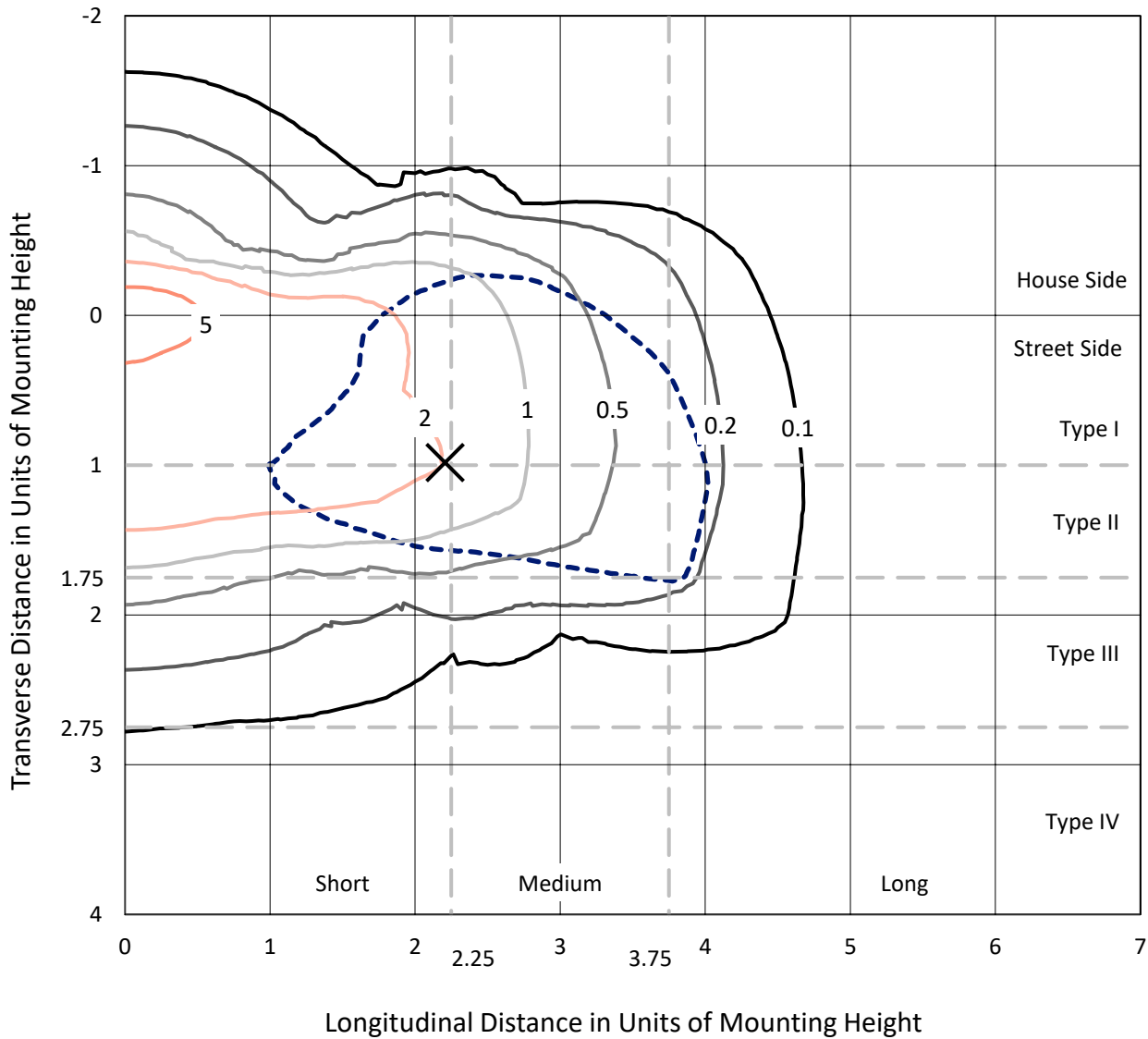
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

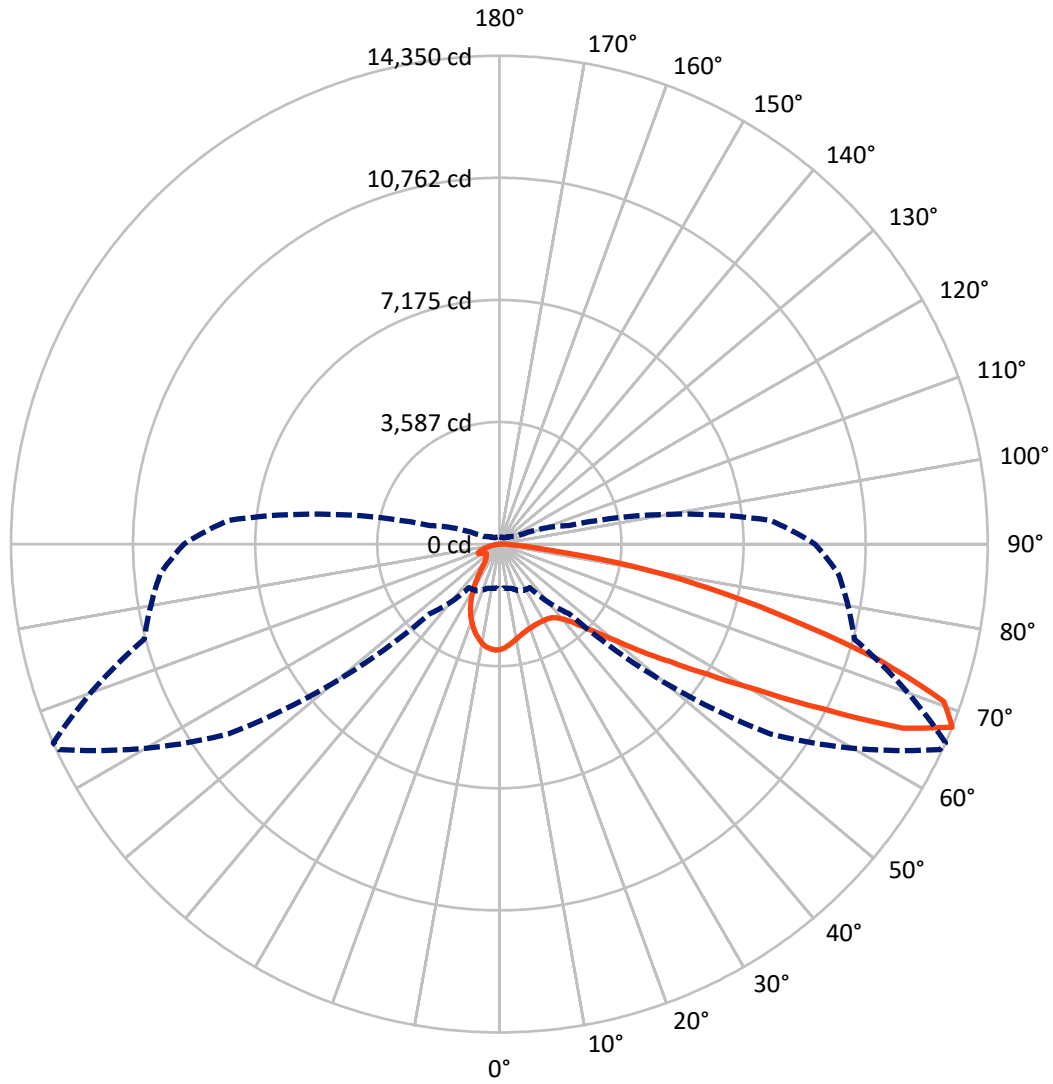
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.8	0.0	2846.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11182.0	0.0	11182.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	14028.8	0.0	14028.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	1.9
10°-20°	668.6	4.8
20°-30°	919.0	6.6
30°-40°	1256.5	9.0
40°-50°	1903.9	13.6
50°-60°	2959.7	21.1
60°-70°	3603.3	25.7
70°-80°	2195.0	15.6
80°-90°	250.7	1.8
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°	14028.8	100.0
0°-180°	14028.8	100.0

Coefficient of Utilization



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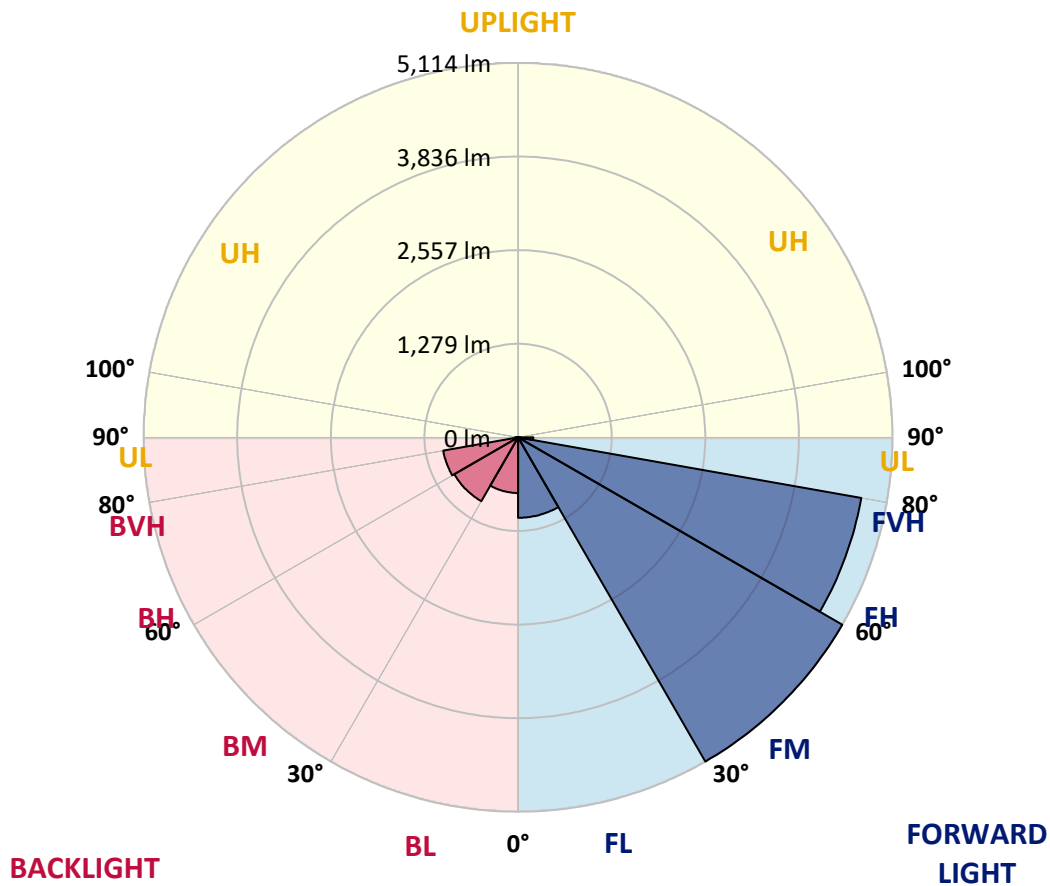
CATALOG NUMBER: GWS-SA4B-735-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.2	7.8			
FM (30°-60°)	5114.0	36.5			
FH (60°-80°)	4760.3	33.9			G2/5000
FVH (80°-90°)	208.5	1.5			G2/225
BL (0°-30°)	760.5	5.4	B2/1000		
BM (30°-60°)	1006.0	7.2	B2/2500		
BH (60°-80°)	1038.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	42.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	2903.5	2913.7	2907.6	2946.5	2948.5	2997.6	3025.3	3048.8	3050.8	3081.5	3102.0
5°	2704.9	2711.1	2711.1	2747.9	2772.5	2838.0	2901.4	2969.0	2974.1	3047.8	3104.1
7.5°	2544.2	2550.4	2546.3	2595.4	2627.1	2699.8	2780.7	2884.0	2894.3	3013.0	3111.2
10°	2418.4	2416.3	2426.6	2471.6	2512.5	2599.5	2689.6	2807.3	2822.6	2973.1	3119.4
12.5°	2332.4	2334.4	2340.6	2387.7	2431.7	2517.6	2610.8	2738.7	2755.1	2927.0	3115.3
15°	2291.5	2287.4	2292.5	2335.5	2377.4	2453.2	2549.4	2681.4	2697.8	2886.1	3116.3
17.5°	2282.2	2279.2	2278.2	2308.9	2340.6	2411.2	2503.3	2637.4	2654.8	2859.5	3122.5
20°	2310.9	2306.8	2295.6	2308.9	2322.2	2381.5	2470.6	2605.7	2625.1	2842.1	3134.8
22.5°	2389.7	2382.5	2365.1	2348.8	2331.4	2367.2	2450.1	2582.1	2601.6	2830.8	3147.0
25°	2509.4	2503.3	2484.9	2448.0	2384.6	2378.4	2446.0	2571.9	2591.3	2822.6	3152.2
27.5°	2674.2	2665.0	2646.6	2593.4	2490.0	2420.4	2461.3	2570.9	2589.3	2813.4	3147.0
30°	2869.7	2863.6	2853.3	2788.8	2650.7	2509.4	2496.1	2579.0	2593.4	2808.3	3136.8
32.5°	3068.2	3062.1	3070.3	3039.6	2869.7	2656.8	2571.9	2601.6	2611.8	2807.3	3127.6
35°	3243.2	3250.4	3309.8	3314.9	3148.1	2856.4	2691.6	2653.8	2655.8	2827.7	3131.7
37.5°	3426.4	3454.1	3531.9	3598.4	3459.2	3120.4	2869.7	2752.0	2750.0	2879.9	3157.3
40°	3669.0	3681.3	3780.5	3905.4	3818.4	3482.7	3122.5	2912.7	2898.4	2986.4	3225.8
42.5°	3905.4	3935.1	4093.7	4237.0	4208.3	3891.1	3440.8	3153.2	3127.6	3174.7	3367.1
45°	4206.3	4234.9	4413.0	4597.2	4649.4	4352.6	3848.1	3495.0	3469.4	3458.2	3626.0
47.5°	4507.2	4536.9	4696.5	4962.6	5145.8	4929.9	4378.2	3946.3	3904.4	3860.4	4017.0
50°	4709.8	4744.6	4897.1	5216.4	5646.3	5650.4	5006.6	4537.9	4484.7	4415.1	4567.6
52.5°	4702.7	4725.2	4870.5	5238.9	6006.5	6478.3	5847.9	5291.1	5248.1	5096.7	5229.7
55°	4333.2	4367.0	4513.3	4973.9	6045.4	7263.3	7084.2	6179.5	6102.7	5831.5	5977.8
57.5°	3591.2	3619.9	3767.2	4335.2	5700.5	7665.5	8654.1	7311.4	7206.0	6631.8	6800.7
60°	2711.1	2676.3	2745.9	3243.2	4875.6	7675.7	10039.8	8846.5	8670.5	7487.4	7628.6
62.5°	2034.6	1999.8	2015.1	2155.3	3305.7	7055.5	10829.9	10946.6	10655.9	8453.5	8425.9
65°	1607.8	1588.4	1632.4	1728.6	1927.1	5373.0	10836.1	13217.6	13034.4	9573.2	9243.6
67.5°	1310.0	1297.7	1342.7	1520.8	1562.8	2887.1	9716.4	14277.9	14349.5	10799.2	10002.0
70°	1055.2	1036.7	1107.4	1341.7	1453.3	1747.0	6960.3	13737.5	13853.1	11530.0	9788.1
72.5°	728.7	729.7	765.5	1086.9	1403.1	1508.5	3937.1	11438.9	11689.6	10867.8	8605.0
75°	491.2	495.3	505.6	717.4	1292.6	1463.5	2098.0	8660.3	8837.3	8982.6	7112.8
77.5°	296.8	298.8	322.4	433.9	891.4	1366.3	1421.5	6277.7	6416.9	5921.6	4408.9
80°	171.9	179.1	200.6	290.7	601.8	1026.5	1100.2	3849.1	4006.7	2632.3	1401.1
82.5°	75.7	80.9	109.5	168.9	351.0	873.0	858.7	1520.8	1498.3	733.8	486.1
85°	13.3	16.4	23.5	53.2	129.0	460.5	666.3	671.4	631.5	278.4	201.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	100.3	180.1	179.1	78.8	69.6
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°	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0	3100.0
2.5°	3115.3	3087.7	3112.2	3115.3	3110.2	3106.1	3075.4	3048.8	3045.7	3017.1	3017.1
5°	3126.6	3101.0	3113.3	3089.7	3052.9	3015.0	2949.5	2904.5	2884.0	2847.2	2847.2
7.5°	3141.9	3115.3	3101.0	3042.7	2956.7	2873.8	2768.4	2680.4	2644.5	2592.3	2590.3
10°	3156.3	3122.5	3073.4	2959.8	2822.6	2690.6	2537.1	2412.2	2327.3	2264.8	2264.8
12.5°	3155.2	3111.2	3014.0	2846.2	2656.8	2465.4	2260.8	2072.4	1959.9	1862.6	1856.5
15°	3153.2	3092.8	2938.3	2714.1	2463.4	2198.3	1920.0	1674.3	1507.5	1412.3	1404.1
17.5°	3151.1	3069.3	2853.3	2563.7	2228.0	1866.7	1499.3	1233.2	1094.0	1035.7	1037.8
20°	3151.1	3042.7	2762.2	2390.7	1956.8	1469.6	1100.2	906.8	872.0	875.0	878.1
22.5°	3141.9	3009.9	2660.9	2202.4	1654.9	1080.7	811.6	746.1	764.5	793.2	797.3
25°	3120.4	2955.7	2543.2	1993.6	1295.7	787.0	662.2	649.9	683.7	719.5	729.7
27.5°	3086.7	2893.2	2411.2	1749.0	953.8	632.5	582.3	581.3	607.9	634.5	643.7
30°	3050.8	2823.6	2272.0	1476.8	690.8	550.6	531.2	531.2	544.5	560.8	558.8
32.5°	3008.9	2753.0	2122.6	1193.3	562.9	504.6	498.4	495.3	497.4	503.5	503.5
35°	2973.1	2690.6	1969.1	893.5	504.6	479.0	472.8	465.7	462.6	458.5	460.5
37.5°	2959.8	2641.5	1810.4	673.4	475.9	460.5	450.3	440.1	432.9	430.9	429.8
40°	2981.2	2621.0	1651.8	554.7	455.4	441.1	429.8	416.5	410.4	410.4	410.4
42.5°	3065.2	2636.4	1490.1	501.5	441.1	424.7	408.3	396.1	394.0	396.1	397.1
45°	3218.7	2695.7	1322.3	474.9	428.8	408.3	388.9	379.7	379.7	381.7	381.7
47.5°	3493.0	2851.3	1156.5	458.5	416.5	395.0	374.6	365.4	364.3	366.4	366.4
50°	3967.8	3131.7	1007.1	447.2	407.3	384.8	364.3	352.1	349.0	348.0	348.0
52.5°	4566.5	3617.8	911.9	439.1	396.1	373.6	353.1	336.7	330.6	327.5	327.5
55°	5290.1	4265.7	911.9	432.9	381.7	360.2	336.7	320.3	311.1	307.0	307.0
57.5°	6109.9	5019.9	1069.5	427.8	370.5	344.9	319.3	302.9	292.7	286.6	286.6
60°	6944.0	5817.2	1459.4	420.6	360.2	325.5	299.9	284.5	271.2	264.0	263.0
62.5°	7808.8	6695.3	1973.2	424.7	353.1	307.0	279.4	262.0	250.7	243.6	242.6
65°	8600.9	7531.4	2422.5	456.4	354.1	290.7	255.9	240.5	231.3	222.1	221.1
67.5°	9273.3	7993.0	2107.2	520.9	375.6	271.2	232.3	217.0	208.8	202.6	201.6
70°	8802.5	7288.9	1195.4	560.8	405.3	250.7	205.7	195.5	187.3	183.2	182.2
72.5°	7527.3	6171.3	799.3	495.3	369.5	224.1	181.1	173.0	166.8	161.7	160.7
75°	6097.6	4894.0	611.0	406.3	287.6	182.2	155.6	149.4	143.3	138.2	137.1
77.5°	3607.6	2827.7	450.3	321.4	202.6	142.3	129.0	123.8	117.7	113.6	112.6
80°	1151.4	982.5	285.5	221.1	134.1	109.5	99.3	95.2	89.0	83.9	82.9
82.5°	439.1	379.7	151.5	112.6	89.0	74.7	66.5	62.4	58.3	53.2	52.2
85°	194.5	182.2	83.9	60.4	48.1	36.8	32.7	30.7	25.6	21.5	20.5
87.5°	68.6	68.6	35.8	17.4	10.2	5.1	3.1	1.0	0.0	0.0	0.0
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)