

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: P636892

Luminaire Tested: GWS-SA4B-760-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14576.4 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

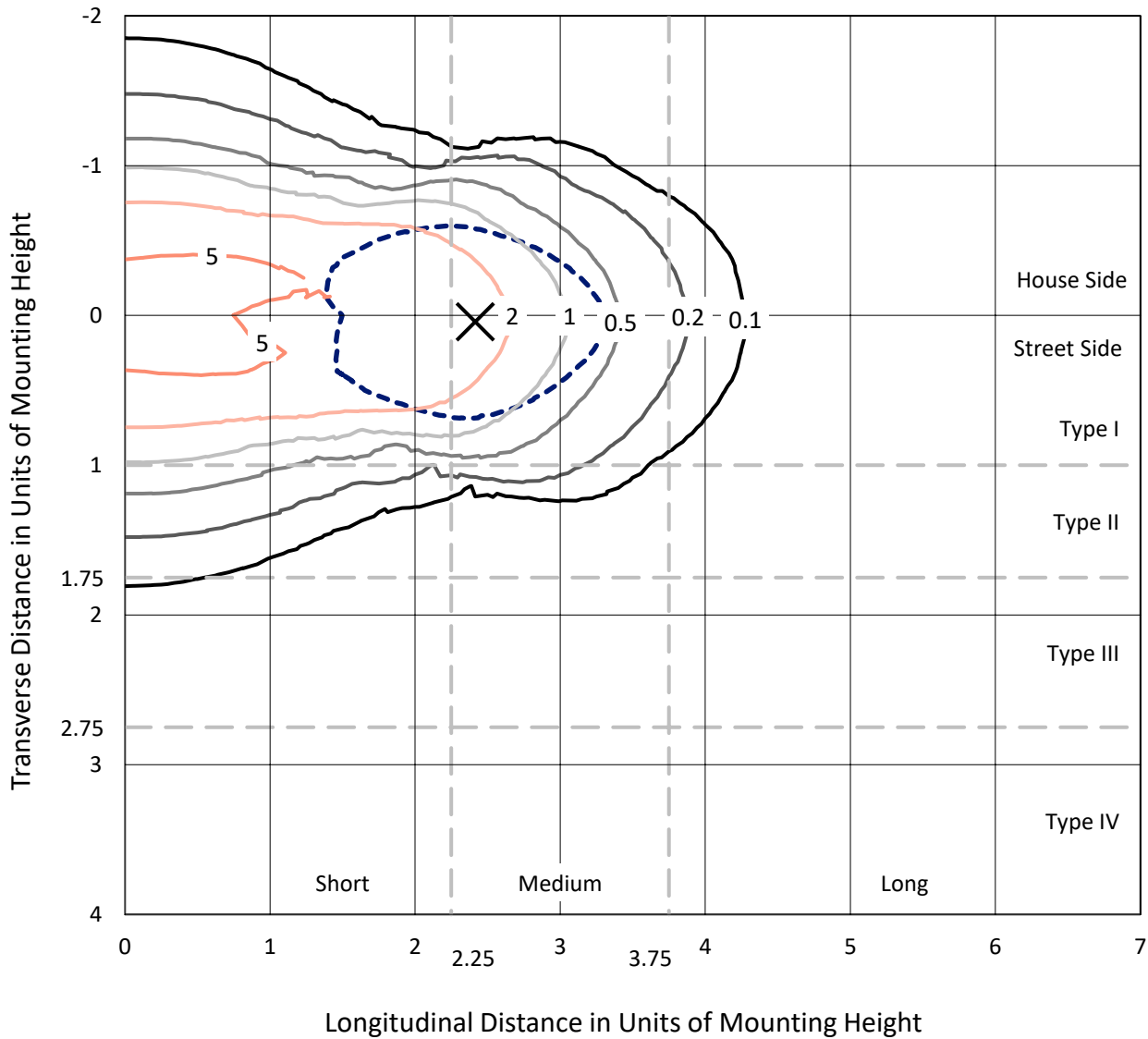
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

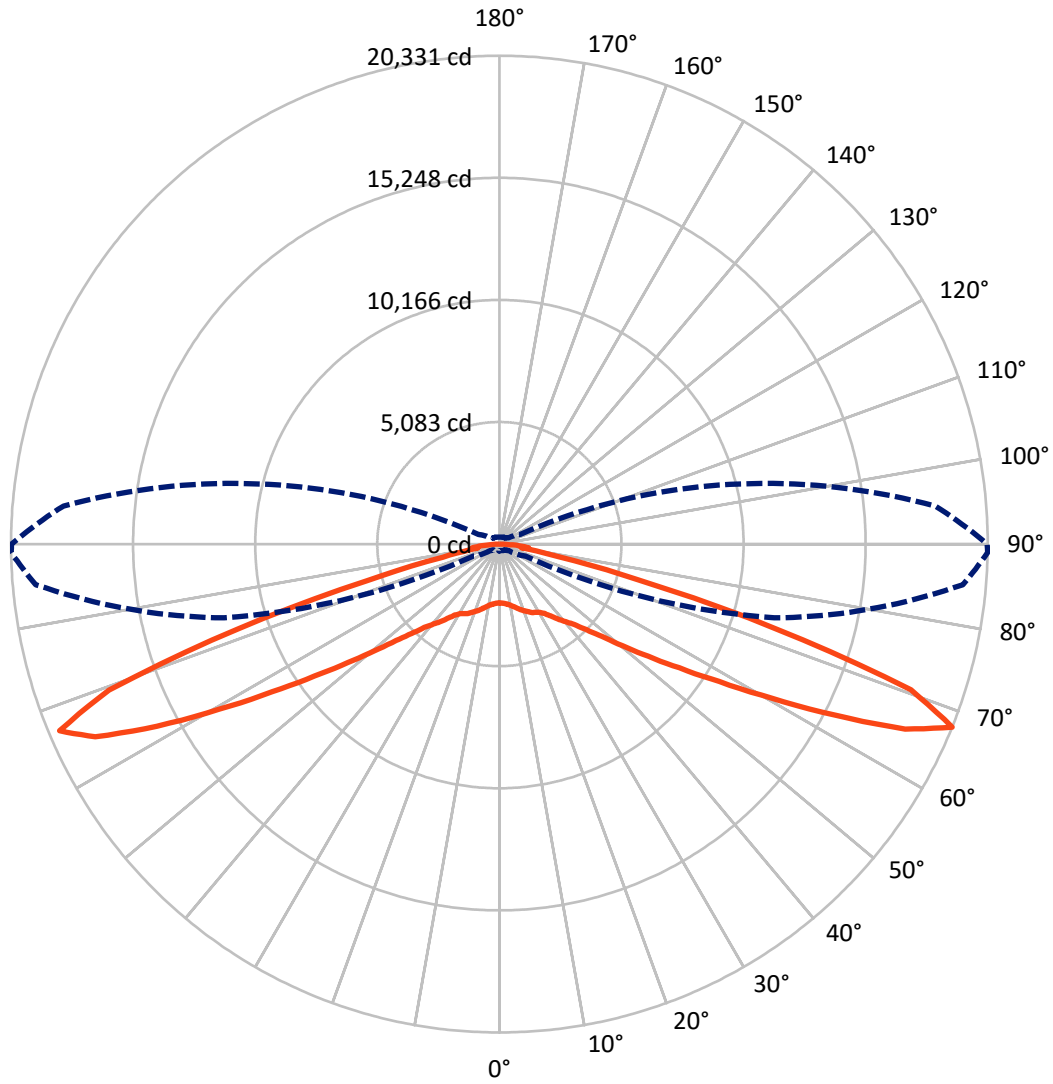
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7224.3	0.0	7224.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7352.1	0.0	7352.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	14576.4	0.0	14576.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.7
10°-20°	799.1	5.5
20°-30°	1350.8	9.3
30°-40°	1853.8	12.7
40°-50°	2364.0	16.2
50°-60°	2966.0	20.3
60°-70°	3577.3	24.5
70°-80°	1294.1	8.9
80°-90°	125.8	0.9
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°	14576.4	100.0
0°-180°	14576.4	100.0

Coefficient of Utilization



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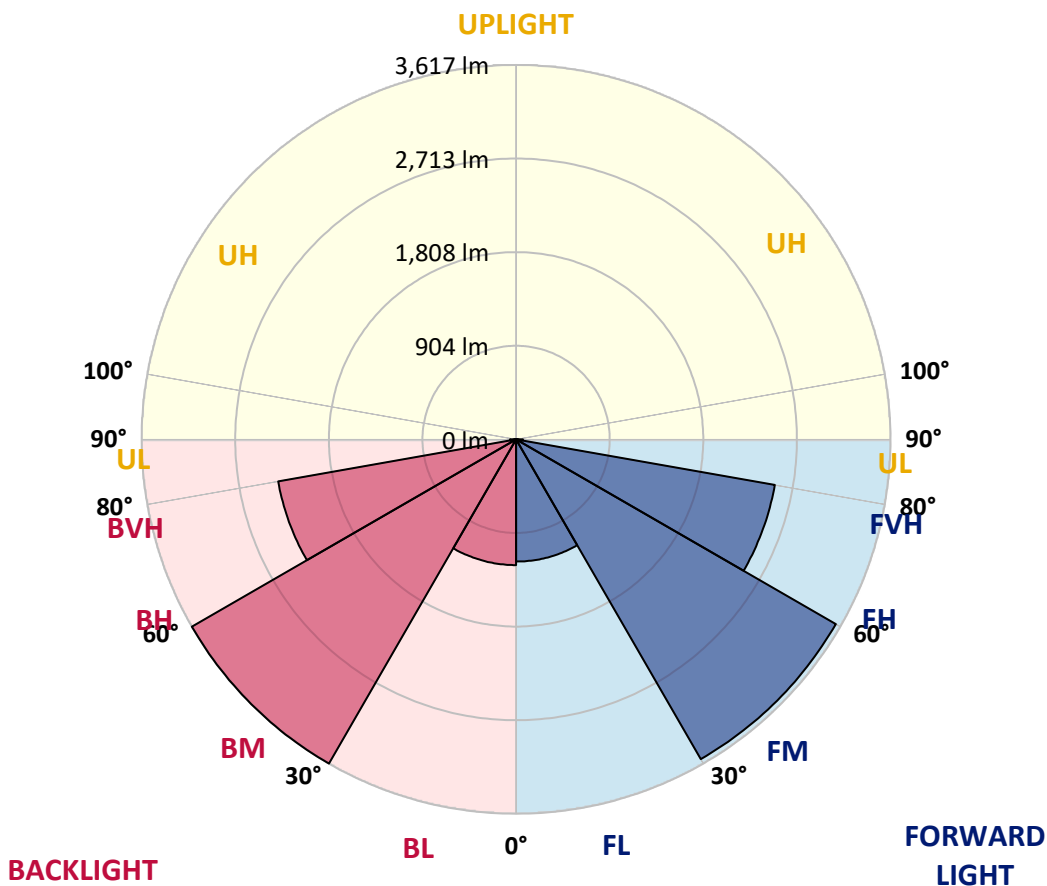
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1180.6	8.1			
FM (30°-60°)	3567.1	24.5			
FH (60°-80°)	2538.0	17.4			G2/5000
FVH (80°-90°)	66.4	0.5			G1/100
BL (0°-30°)	1214.7	8.3	B3/2500		
BM (30°-60°)	3616.7	24.8	B3/5000		
BH (60°-80°)	2333.5	16.0	B3/2500		G3/2500
BVH (80°-90°)	59.4	0.4			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 I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5
2.5°	2453.9	2451.8	2446.5	2462.2	2459.1	2460.1	2466.4	2462.2	2454.9	2442.3	2460.1
5°	2523.0	2521.9	2510.4	2519.8	2509.3	2502.0	2501.0	2490.5	2482.1	2468.5	2487.4
7.5°	2590.0	2588.9	2579.5	2596.2	2587.9	2579.5	2570.1	2549.1	2529.2	2509.3	2530.3
10°	2641.2	2640.2	2638.1	2662.2	2664.3	2667.4	2663.2	2627.6	2593.1	2569.0	2590.0
12.5°	2670.6	2673.7	2678.9	2722.9	2744.9	2765.8	2771.1	2741.7	2684.2	2649.6	2674.7
15°	2650.7	2657.0	2683.1	2762.7	2823.4	2870.5	2890.4	2866.3	2792.0	2734.4	2762.7
17.5°	2555.4	2560.6	2611.9	2733.4	2867.4	2976.2	3008.7	2994.0	2911.3	2841.2	2868.4
20°	2423.5	2435.0	2490.5	2660.1	2860.0	3049.5	3136.4	3131.2	3041.2	2933.3	2965.8
22.5°	2304.2	2317.8	2376.4	2563.8	2810.8	3068.4	3265.2	3278.8	3159.4	3025.4	3051.6
25°	2170.2	2182.7	2258.1	2449.7	2726.0	3053.7	3375.1	3436.9	3293.4	3131.2	3155.3
27.5°	2033.0	2042.4	2116.8	2320.9	2615.1	3026.5	3462.0	3610.6	3425.4	3204.5	3221.2
30°	1912.6	1925.2	1993.2	2192.1	2493.6	2972.1	3533.2	3795.9	3577.1	3287.2	3300.8
32.5°	1796.4	1806.9	1881.2	2065.5	2364.9	2888.3	3597.0	4013.7	3802.2	3441.1	3441.1
35°	1649.9	1668.7	1752.5	1944.0	2243.4	2777.3	3643.1	4267.0	4110.0	3668.2	3669.3
37.5°	1514.8	1525.3	1613.2	1806.9	2115.7	2651.7	3647.3	4529.8	4499.4	3957.2	3959.3
40°	1360.9	1374.5	1468.8	1660.3	1969.2	2519.8	3607.5	4774.8	4907.7	4254.5	4243.0
42.5°	1204.9	1224.8	1314.9	1502.3	1811.1	2358.6	3501.8	5008.2	5425.9	4598.9	4570.6
45°	1054.2	1066.8	1156.8	1333.7	1630.0	2166.0	3332.2	5232.2	6041.5	5122.3	5081.5
47.5°	884.6	889.8	983.0	1152.6	1442.6	1951.4	3089.3	5432.2	6717.8	5815.4	5745.2
50°	733.9	741.2	814.5	960.0	1213.3	1697.0	2786.8	5549.4	7579.3	6760.7	6639.2
52.5°	593.6	600.9	659.5	775.7	1002.9	1407.0	2412.0	5522.2	8453.5	7934.2	7757.3
55°	479.5	484.7	524.5	615.6	789.3	1119.1	1969.2	5278.3	9423.9	9466.8	9085.8
57.5°	405.1	407.2	434.5	489.9	616.6	862.6	1520.1	4702.5	10441.5	11422.4	10796.4
60°	362.2	363.3	375.8	410.4	486.8	658.5	1113.9	3785.5	11495.7	13868.9	13010.5
62.5°	335.0	335.0	345.5	365.4	404.1	506.7	818.7	2718.7	12252.5	16531.1	15677.9
65°	308.8	308.8	316.2	332.9	353.8	413.5	614.5	1753.5	12624.2	18756.7	18567.3
67.5°	275.3	276.4	281.6	299.4	318.2	345.5	465.9	1186.1	11852.6	19372.3	20331.2
70°	243.9	245.0	252.3	263.8	279.5	298.4	364.3	817.6	8627.2	16134.3	18178.9
72.5°	209.4	213.6	218.8	231.4	240.8	254.4	297.3	529.7	5019.7	10378.7	12017.0
75°	171.7	176.9	183.2	195.8	202.0	207.3	245.0	377.9	2415.1	5259.5	5989.1
77.5°	133.0	138.2	145.5	157.0	161.2	167.5	187.4	273.2	1156.8	2331.4	2513.5
80°	89.0	91.1	97.4	111.0	118.3	122.5	138.2	186.3	502.5	935.9	927.5
82.5°	54.4	55.5	57.6	66.0	69.1	73.3	90.0	114.1	239.7	1063.6	1219.6
85°	19.9	18.8	17.8	23.0	27.2	31.4	41.9	57.6	104.7	730.7	817.6
87.5°	0.0	0.0	0.0	1.0	2.1	2.1	4.2	8.4	25.1	273.2	187.4
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°	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5	2446.5
2.5°	2454.9	2443.4	2458.0	2468.5	2491.5	2499.9	2502.0	2494.7	2494.7	2482.1	2484.2
5°	2483.2	2475.8	2499.9	2517.7	2551.2	2563.8	2572.2	2566.9	2570.1	2561.7	2563.8
7.5°	2526.1	2519.8	2561.7	2596.2	2630.8	2645.4	2652.8	2648.6	2649.6	2639.2	2642.3
10°	2585.8	2587.9	2638.1	2683.1	2729.2	2743.8	2747.0	2734.4	2724.0	2705.1	2706.2
12.5°	2667.4	2677.9	2749.1	2799.3	2846.4	2867.4	2844.3	2798.3	2755.4	2722.9	2718.7
15°	2756.4	2775.2	2877.8	2941.7	2993.0	2982.5	2914.5	2810.8	2726.0	2677.9	2668.5
17.5°	2863.2	2891.5	3020.2	3096.6	3140.6	3073.6	2931.2	2776.3	2658.0	2593.1	2580.5
20°	2963.7	3008.7	3171.0	3270.4	3275.7	3124.9	2923.9	2706.2	2557.5	2477.9	2461.2
22.5°	3055.8	3113.4	3329.0	3455.7	3387.7	3147.9	2878.9	2606.7	2436.1	2342.9	2328.2
25°	3156.3	3238.0	3513.3	3631.6	3499.7	3138.5	2784.7	2483.2	2289.5	2194.2	2183.8
27.5°	3225.4	3328.0	3698.6	3811.6	3591.8	3085.1	2663.2	2348.1	2155.5	2065.5	2050.8
30°	3305.0	3435.8	3902.7	4007.4	3648.3	3006.6	2533.4	2222.5	2030.9	1933.6	1923.1
32.5°	3449.4	3613.8	4156.1	4214.7	3666.1	2909.2	2408.8	2101.1	1901.1	1803.8	1789.1
35°	3681.8	3874.5	4512.0	4446.0	3652.5	2802.5	2290.5	1958.7	1768.2	1677.1	1662.4
37.5°	3975.0	4214.7	4908.8	4654.4	3614.8	2685.2	2150.3	1839.3	1648.8	1556.7	1548.3
40°	4248.2	4543.4	5353.7	4834.4	3538.4	2540.7	2015.2	1714.8	1520.1	1422.7	1403.9
42.5°	4590.5	4983.1	5868.7	4990.4	3412.8	2368.0	1863.4	1560.9	1358.8	1270.9	1247.9
45°	5110.8	5598.7	6467.6	5140.1	3225.4	2155.5	1672.9	1373.5	1181.9	1091.9	1074.1
47.5°	5759.9	6368.1	7116.6	5229.1	2940.7	1931.5	1457.2	1175.6	984.1	882.5	874.1
50°	6671.7	7487.2	7812.8	5213.4	2622.4	1665.6	1214.4	940.1	779.9	706.6	695.1
52.5°	7782.4	8892.1	8565.5	5025.0	2284.3	1363.0	946.4	738.0	618.7	566.4	556.9
55°	9175.8	10574.4	9358.0	4620.9	1857.1	1043.7	743.3	582.1	500.4	469.0	464.8
57.5°	10901.0	12753.0	10121.1	3940.4	1396.5	796.7	572.6	480.5	441.8	422.9	421.9
60°	13178.0	15065.5	10783.8	3062.1	999.8	609.3	473.2	429.2	398.9	386.3	385.2
62.5°	15885.2	17165.5	11196.3	2085.4	751.7	485.7	416.7	389.4	371.6	364.3	363.3
65°	18667.8	18492.9	10999.4	1366.2	570.5	412.5	373.7	359.1	343.4	336.0	336.0
67.5°	20311.3	18212.4	9488.8	948.5	452.2	362.2	337.1	323.5	297.3	291.0	291.0
70°	17990.4	14757.7	6219.4	694.1	366.4	317.2	293.1	274.3	263.8	257.5	256.5
72.5°	11898.7	9602.9	3307.1	481.6	305.7	270.1	248.1	240.8	228.2	221.9	220.9
75°	5922.1	5043.8	1694.9	347.6	254.4	216.7	207.3	204.1	193.7	185.3	183.2
77.5°	2468.5	2245.5	790.4	252.3	193.7	174.8	166.5	166.5	154.9	145.5	141.3
80°	930.7	829.1	373.7	172.7	143.4	129.8	124.6	120.4	111.0	99.5	93.2
82.5°	1244.7	813.4	183.2	107.8	94.2	83.7	76.4	73.3	68.0	62.8	58.6
85°	806.1	577.9	82.7	55.5	47.1	35.6	31.4	29.3	26.2	23.0	20.9
87.5°	164.4	193.7	25.1	10.5	6.3	3.1	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)