

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: P636853

Luminaire Tested: GWS-SA4B-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15051.7 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

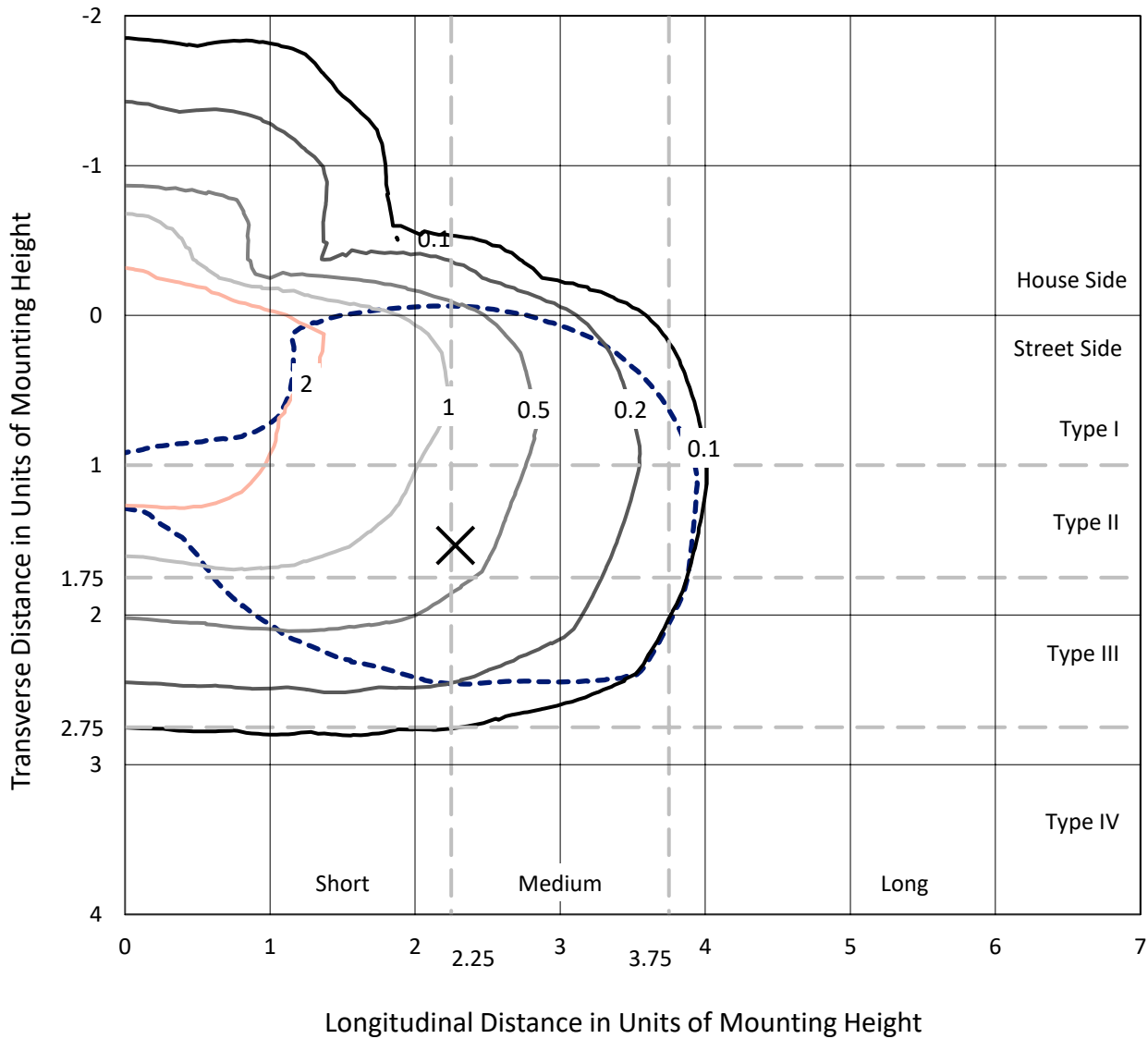
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

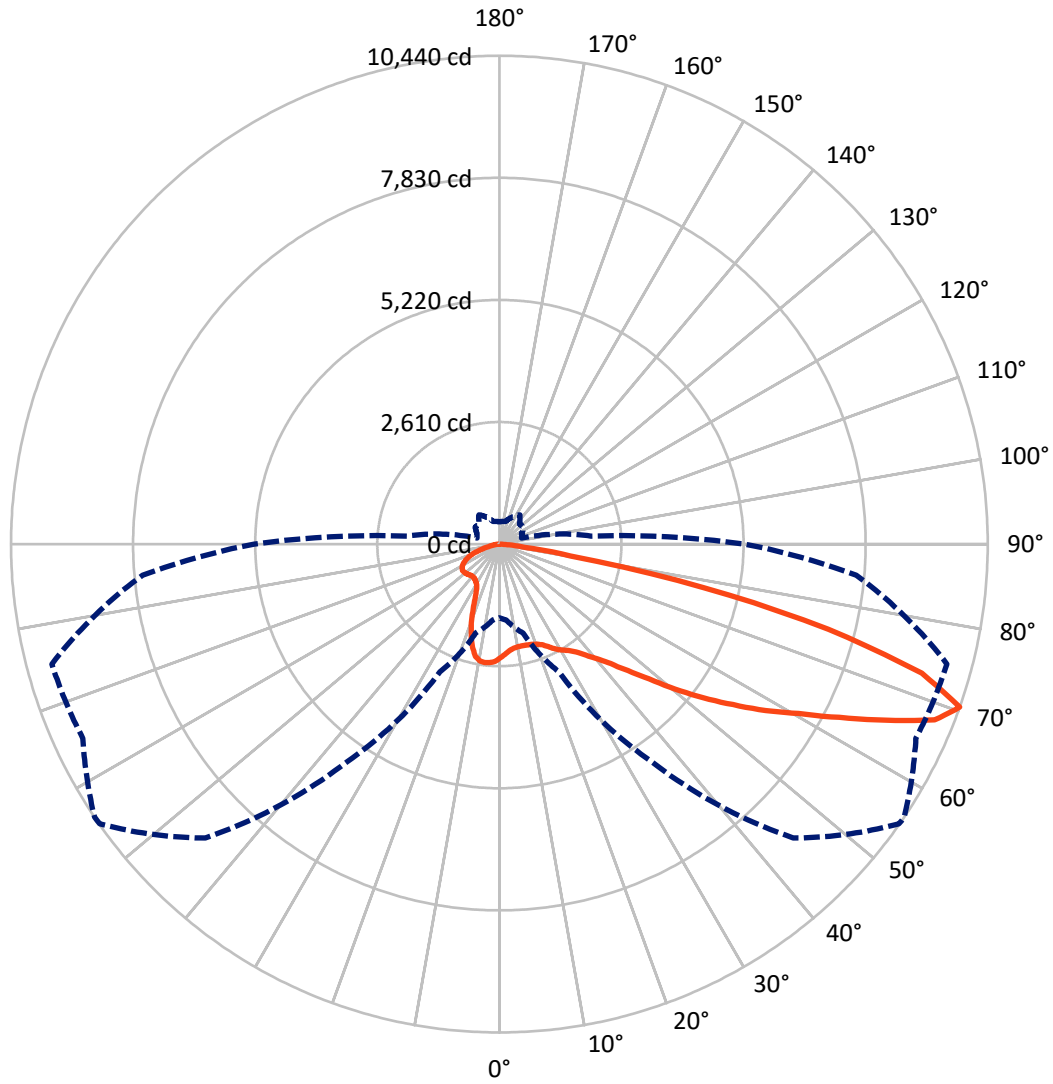
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2893.7	0.0	2893.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	12158.0	0.0	12158.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	15051.7	0.0	15051.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.5
10°-20°	609.2	4.0
20°-30°	1007.2	6.7
30°-40°	1505.8	10.0
40°-50°	2240.9	14.9
50°-60°	3185.9	21.2
60°-70°	3945.8	26.2
70°-80°	2178.7	14.5
80°-90°	153.4	1.0
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°	15051.7	100.0
0°-180°	15051.7	100.0

Coefficient of Utilization



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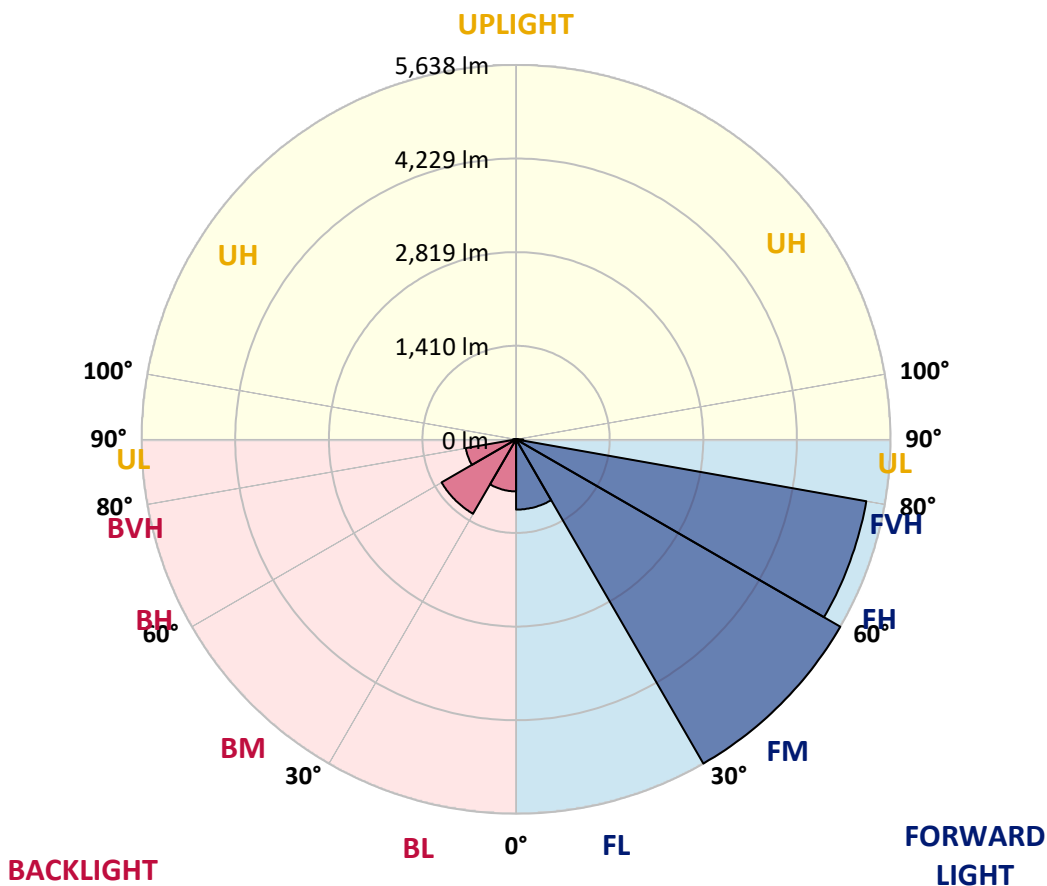
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.8	7.0			
FM (30°-60°)	5638.1	37.5			
FH (60°-80°)	5355.4	35.6			G3/7500
FVH (80°-90°)	106.6	0.7			G2/225
BL (0°-30°)	783.3	5.2	B2/1000		
BM (30°-60°)	1294.4	8.6	B2/2500		
BH (60°-80°)	769.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	46.8	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6
2.5°	2273.5	2260.8	2275.7	2283.1	2302.2	2329.8	2354.2	2355.3	2368.0	2398.8	2428.5
5°	2170.6	2164.2	2168.5	2190.8	2210.9	2246.0	2283.1	2286.3	2322.4	2382.9	2442.3
7.5°	2091.0	2082.5	2098.4	2127.1	2152.5	2191.8	2240.6	2244.9	2295.8	2387.1	2478.4
10°	1976.4	1970.0	1999.7	2037.9	2093.1	2157.9	2222.6	2227.9	2294.8	2414.7	2542.1
12.5°	1926.5	1926.5	1939.2	1975.3	2035.8	2121.8	2219.4	2227.9	2311.8	2457.2	2623.8
15°	2003.9	2009.3	1998.6	1996.5	2020.9	2102.7	2223.7	2236.4	2343.6	2500.7	2704.5
17.5°	2160.0	2165.3	2137.7	2094.2	2069.8	2120.7	2239.6	2253.4	2377.6	2548.5	2791.5
20°	2378.6	2385.0	2324.5	2257.6	2173.8	2172.7	2270.4	2283.1	2421.1	2600.5	2883.9
22.5°	2634.4	2638.7	2562.3	2456.1	2327.7	2269.3	2323.4	2336.2	2477.3	2672.6	2983.6
25°	2930.6	2943.3	2851.0	2697.1	2523.0	2402.0	2411.5	2426.4	2578.2	2769.2	3101.5
27.5°	3246.9	3262.8	3156.6	2986.8	2746.9	2548.5	2525.1	2537.8	2685.4	2828.7	3164.1
30°	3570.6	3582.3	3476.1	3281.9	2987.9	2714.0	2620.6	2628.1	2732.1	2857.3	3227.8
32.5°	3930.4	3920.9	3819.0	3595.0	3266.0	2912.5	2709.8	2707.7	2784.1	2914.6	3319.0
35°	4267.9	4281.7	4173.5	3926.2	3571.7	3157.7	2843.5	2835.0	2894.5	3008.0	3447.5
37.5°	4676.6	4672.3	4542.9	4275.4	3878.4	3392.3	3031.4	3016.5	3037.8	3153.5	3626.9
40°	4968.5	4998.2	4914.3	4664.9	4237.2	3681.0	3251.1	3218.2	3223.5	3332.8	3866.7
42.5°	5207.3	5234.9	5243.4	5084.2	4647.9	4037.6	3525.0	3492.1	3495.2	3650.2	4161.8
45°	5390.9	5428.1	5548.0	5501.3	5110.7	4449.4	3895.4	3861.4	3863.5	4035.5	4518.4
47.5°	5466.3	5506.6	5749.7	5861.1	5602.1	4941.9	4356.0	4306.2	4313.6	4503.6	4926.0
50°	5441.9	5496.0	5825.0	6138.2	6014.0	5442.9	4906.9	4871.9	4843.2	5119.2	5368.6
52.5°	5231.7	5291.1	5817.6	6314.3	6350.4	5916.3	5475.8	5455.7	5449.3	5773.0	5863.2
55°	4612.9	4712.7	5561.8	6361.1	6613.7	6362.1	6092.5	6058.5	6091.5	6473.6	6363.2
57.5°	4270.1	4344.4	5060.8	6309.0	6829.1	6786.7	6708.1	6711.3	6748.5	7234.6	6969.2
60°	4074.8	4161.8	4782.7	6166.8	7036.1	7302.5	7352.4	7352.4	7419.3	8055.1	7584.9
62.5°	3815.8	3903.9	4522.7	5893.0	7227.2	7909.7	8162.3	8159.1	8185.6	8935.0	8186.7
65°	3290.4	3372.1	4000.5	5461.0	7320.6	8578.3	9082.5	9073.0	9019.9	9718.3	8584.7
67.5°	2389.2	2466.7	3064.3	4639.4	6984.1	9117.5	10030.4	10034.6	9717.2	10211.9	8605.9
70°	1575.1	1628.2	1970.0	3013.4	5679.6	8885.1	10427.3	10440.1	9824.4	9904.1	7659.2
72.5°	982.9	1020.0	1230.2	1797.0	3356.2	7032.9	9408.4	9443.4	8838.4	8703.6	6293.1
75°	652.8	678.2	818.3	1047.6	1552.8	3806.2	7151.8	7264.3	7083.9	6822.8	4384.7
77.5°	392.7	414.0	521.2	665.5	687.8	1487.0	4174.5	4465.4	4490.8	3562.1	1836.2
80°	179.4	203.8	287.6	380.0	366.2	518.0	1472.2	1540.1	1817.1	1131.5	579.5
82.5°	106.1	116.8	191.1	188.9	156.0	251.6	529.6	543.4	461.7	414.0	247.3
85°	42.5	49.9	80.7	71.1	57.3	81.7	199.5	209.1	200.6	180.4	91.3
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	18.0	19.1	27.6	49.9	27.6
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°	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6	2429.6
2.5°	2447.6	2441.3	2473.1	2497.5	2508.1	2518.7	2509.2	2506.0	2506.0	2484.8	2474.2
5°	2474.2	2477.3	2520.9	2541.0	2541.0	2532.5	2507.1	2489.0	2482.6	2455.0	2447.6
7.5°	2524.0	2537.8	2578.2	2577.1	2547.4	2500.7	2437.0	2388.2	2343.6	2324.5	2312.8
10°	2605.8	2623.8	2651.4	2606.8	2524.0	2400.9	2266.1	2160.0	2096.3	2045.3	2045.3
12.5°	2699.2	2716.2	2710.9	2607.9	2437.0	2206.7	2012.4	1890.4	1801.2	1754.5	1754.5
15°	2792.6	2806.4	2749.1	2559.1	2255.5	1948.8	1736.5	1590.0	1512.5	1469.0	1469.0
17.5°	2887.0	2886.0	2765.0	2446.6	2018.8	1663.2	1455.2	1341.6	1315.1	1307.7	1306.6
20°	2978.3	2953.9	2744.8	2258.7	1743.9	1375.6	1244.0	1251.4	1290.7	1307.7	1309.8
22.5°	3081.3	3020.8	2685.4	2018.8	1431.8	1176.0	1184.5	1246.1	1303.4	1328.9	1332.1
25°	3186.4	3078.1	2585.6	1737.5	1170.7	1102.8	1168.6	1237.6	1302.4	1335.3	1338.4
27.5°	3228.8	3078.1	2415.8	1411.7	1031.7	1072.0	1144.2	1211.1	1279.0	1317.2	1324.6
30°	3263.8	3051.6	2178.0	1117.7	974.4	1042.3	1104.9	1166.5	1233.4	1280.1	1288.6
32.5°	3312.7	3028.2	1890.4	939.4	947.8	1013.7	1057.2	1109.2	1169.7	1200.5	1197.3
35°	3370.0	2992.1	1543.3	854.4	925.6	989.2	1020.0	1050.8	1023.2	1022.1	1025.3
37.5°	3451.7	2960.3	1240.8	816.2	910.7	972.3	997.7	931.9	893.7	877.8	871.4
40°	3569.5	2947.5	978.6	793.9	908.6	971.2	953.1	851.3	799.2	744.1	743.0
42.5°	3718.1	2938.0	808.8	783.3	916.0	995.6	891.6	798.2	691.0	666.6	664.4
45°	3909.2	2923.1	723.9	781.2	934.0	1014.7	885.2	724.9	651.7	641.1	641.1
47.5°	4139.5	2899.8	685.7	781.2	954.2	1006.2	866.1	709.0	633.7	645.3	652.8
50°	4403.8	2870.1	665.5	779.1	974.4	1006.2	825.8	705.8	629.4	689.9	714.3
52.5°	4686.1	2836.1	651.7	770.6	988.2	1007.3	827.9	716.5	633.7	700.5	720.7
55°	4998.2	2830.8	632.6	752.5	992.4	979.7	833.2	739.8	640.0	634.7	635.8
57.5°	5392.0	2894.5	618.8	726.0	975.4	923.4	843.8	756.8	632.6	633.7	641.1
60°	5803.8	3014.4	630.5	700.5	940.4	870.4	851.3	748.3	596.5	579.5	581.7
62.5°	6154.1	3105.7	640.0	688.9	889.5	823.7	843.8	729.2	576.3	572.1	581.7
65°	6300.6	3030.3	616.7	664.4	815.2	766.3	827.9	704.8	559.4	543.4	544.5
67.5°	6138.2	2676.9	571.0	610.3	731.3	693.1	802.4	672.9	536.0	516.9	512.7
70°	5243.4	1966.8	492.5	524.3	629.4	607.1	763.2	631.5	498.9	485.1	475.5
72.5°	4225.5	1392.6	408.6	417.1	493.6	511.6	695.2	579.5	456.4	417.1	403.3
75°	2941.2	874.6	340.7	332.2	356.6	390.6	542.4	480.8	393.8	352.4	339.7
77.5°	1265.2	449.0	266.4	262.2	237.8	270.7	416.1	401.2	330.1	282.3	274.9
80°	423.5	260.0	192.1	184.7	158.2	190.0	293.0	320.5	259.0	209.1	196.4
82.5°	212.3	150.7	122.1	110.4	106.1	119.9	173.0	199.5	179.4	144.4	122.1
85°	104.0	86.0	66.9	65.8	55.2	52.0	72.2	84.9	80.7	59.4	56.3
87.5°	38.2	34.0	21.2	17.0	10.6	7.4	4.2	4.2	3.2	3.2	3.2
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)