

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: P633883

Luminaire Tested: GWS-SA2F-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633883
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-SA2F-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16869.7 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

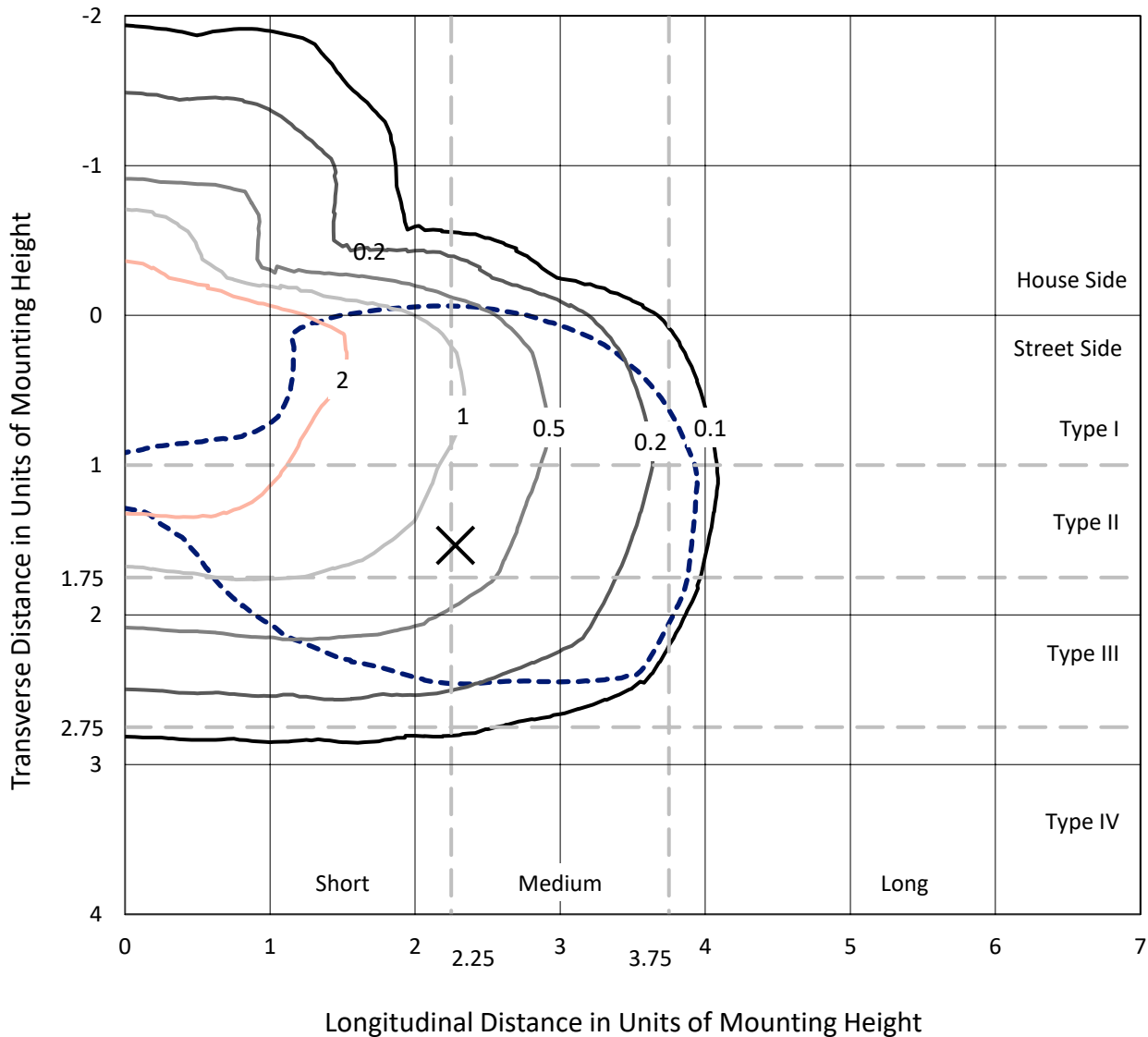
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

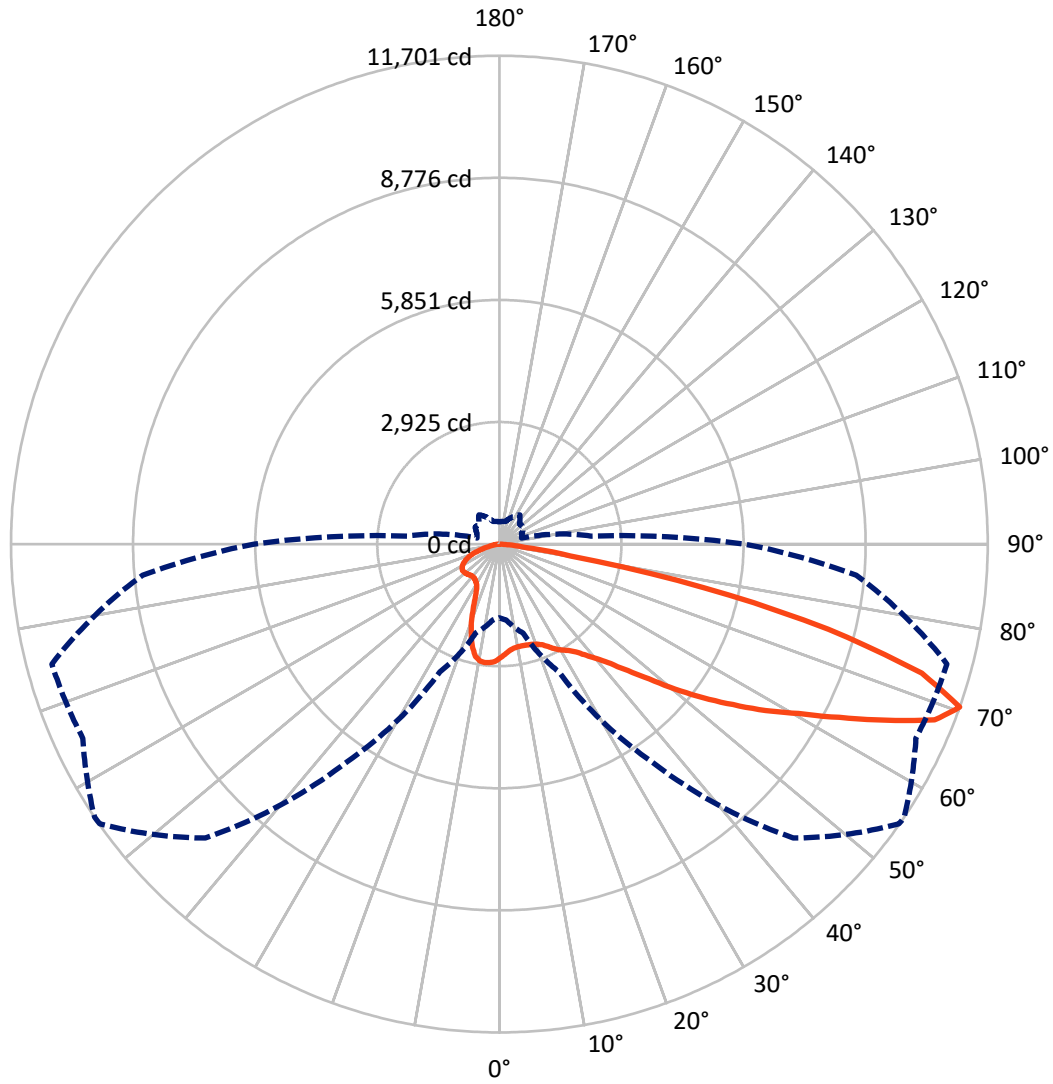
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	3243.2	0.0	3243.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	13626.5	0.0	13626.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	16869.7	0.0	16869.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	1.5
10°-20°	682.8	4.0
20°-30°	1128.8	6.7
30°-40°	1687.7	10.0
40°-50°	2511.5	14.9
50°-60°	3570.7	21.2
60°-70°	4422.4	26.2
70°-80°	2441.9	14.5
80°-90°	172.0	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°	16869.7	100.0
0°-180°	16869.7	100.0

Coefficient of Utilization



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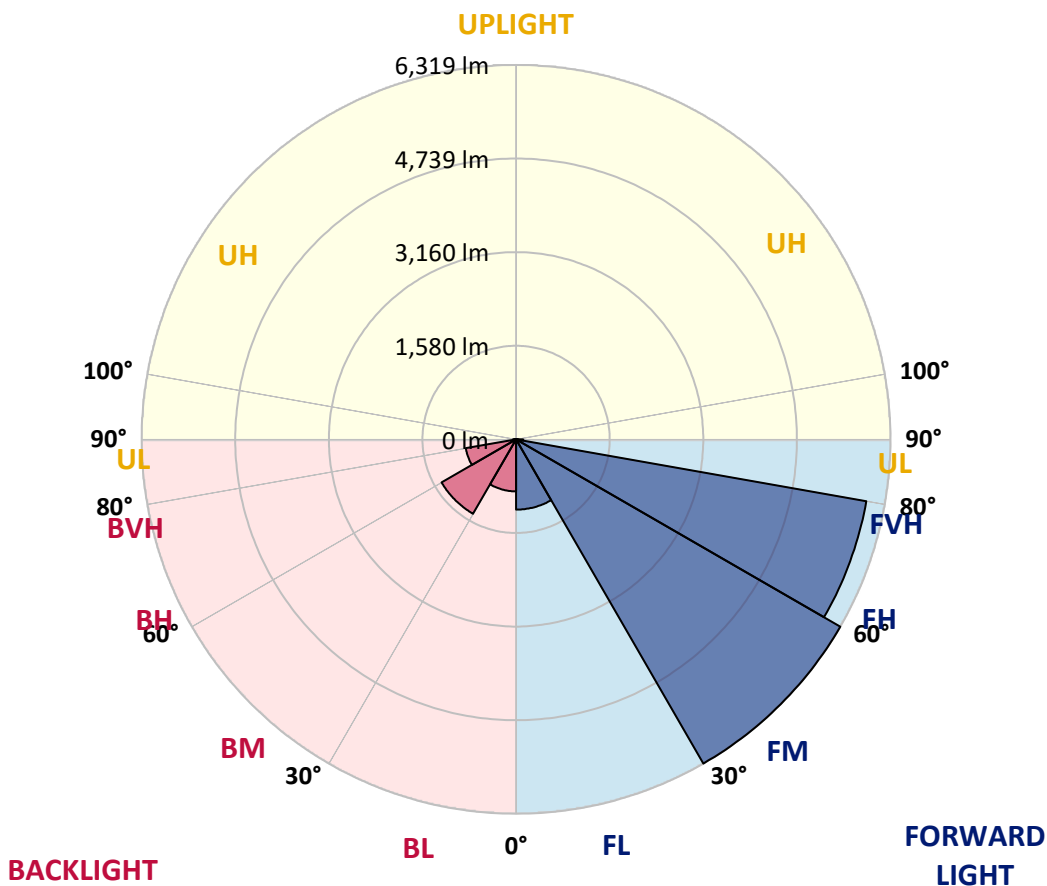
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.6	7.0			
FM (30°-60°)	6319.1	37.5			
FH (60°-80°)	6002.3	35.6			G3/7500
FVH (80°-90°)	119.5	0.7			G2/225
BL (0°-30°)	878.0	5.2	B2/1000		
BM (30°-60°)	1450.8	8.6	B2/2500		
BH (60°-80°)	862.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	52.5	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°	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0
2.5°	2548.2	2533.9	2550.5	2558.9	2580.3	2611.2	2638.6	2639.8	2654.0	2688.5	2721.8
5°	2432.8	2425.6	2430.4	2455.4	2478.0	2517.2	2558.9	2562.4	2602.9	2670.7	2737.3
7.5°	2343.5	2334.0	2351.9	2384.0	2412.5	2456.6	2511.3	2516.0	2573.1	2675.4	2777.8
10°	2215.1	2207.9	2241.2	2284.1	2345.9	2418.5	2491.1	2497.0	2571.9	2706.4	2849.1
12.5°	2159.2	2159.2	2173.4	2213.9	2281.7	2378.0	2487.5	2497.0	2591.0	2754.0	2940.7
15°	2246.0	2251.9	2240.0	2237.7	2265.0	2356.6	2492.2	2506.5	2626.7	2802.7	3031.1
17.5°	2420.9	2426.8	2395.9	2347.1	2319.7	2376.9	2510.1	2525.6	2664.7	2856.3	3128.7
20°	2665.9	2673.1	2605.3	2530.3	2436.3	2435.1	2544.6	2558.9	2713.5	2914.6	3232.2
22.5°	2952.6	2957.4	2871.7	2752.8	2608.8	2543.4	2604.1	2618.3	2776.6	2995.5	3344.0
25°	3284.5	3298.8	3195.3	3022.8	2827.7	2692.1	2702.8	2719.5	2889.6	3103.7	3476.1
27.5°	3639.0	3656.9	3537.9	3347.6	3078.7	2856.3	2830.1	2844.4	3009.7	3170.3	3546.2
30°	4001.9	4015.0	3896.0	3678.3	3348.8	3041.8	2937.2	2945.5	3062.1	3202.4	3617.6
32.5°	4405.1	4394.4	4280.2	4029.2	3660.4	3264.3	3037.1	3034.7	3120.4	3266.7	3719.9
35°	4783.4	4798.9	4677.6	4400.4	4003.1	3539.1	3187.0	3177.5	3244.1	3371.4	3863.9
37.5°	5241.4	5236.7	5091.6	4791.8	4346.9	3802.0	3397.5	3380.9	3404.7	3534.3	4064.9
40°	5568.6	5601.9	5507.9	5228.4	4748.9	4125.6	3643.8	3606.9	3612.9	3735.4	4333.8
42.5°	5836.3	5867.2	5876.7	5698.3	5209.3	4525.3	3950.7	3913.8	3917.4	4091.1	4664.5
45°	6042.1	6083.7	6218.1	6165.8	5728.0	4986.9	4365.9	4327.8	4330.2	4522.9	5064.2
47.5°	6126.5	6171.7	6444.1	6569.1	6278.8	5538.8	4882.2	4826.3	4834.6	5047.5	5521.0
50°	6099.2	6159.8	6528.6	6879.5	6740.4	6100.3	5499.6	5460.3	5428.2	5737.5	6017.1
52.5°	5863.6	5930.2	6520.3	7077.0	7117.5	6630.9	6137.2	6114.6	6107.5	6470.3	6571.4
55°	5170.1	5281.9	6233.6	7129.4	7412.5	7130.6	6828.4	6790.3	6827.2	7255.5	7131.7
57.5°	4785.8	4869.1	5672.1	7071.1	7654.0	7606.4	7518.4	7521.9	7563.6	8108.4	7811.0
60°	4566.9	4664.5	5360.4	6911.7	7886.0	8184.6	8240.5	8240.5	8315.4	9028.0	8501.0
62.5°	4276.7	4375.4	5069.0	6604.7	8100.1	8865.0	9148.1	9144.6	9174.3	10014.2	9175.5
65°	3687.8	3779.4	4483.7	6120.6	8204.8	9614.5	10179.5	10168.8	10109.3	10892.1	9621.6
67.5°	2677.8	2764.7	3434.4	5199.8	7827.7	10218.8	11241.9	11246.6	10890.9	11445.3	9645.4
70°	1765.4	1824.9	2207.9	3377.3	6365.6	9958.3	11686.8	11701.1	11011.1	11100.3	8584.3
72.5°	1101.6	1143.2	1378.8	2014.0	3761.6	7882.4	10544.7	10584.0	9905.9	9754.8	7053.2
75°	731.6	760.2	917.2	1174.2	1740.4	4266.0	8015.6	8141.7	7939.5	7646.8	4914.3
77.5°	440.2	463.9	584.1	745.9	770.9	1666.7	4678.8	5004.7	5033.3	3992.3	2058.0
80°	201.0	228.4	322.4	425.9	410.4	580.5	1650.0	1726.1	2036.6	1268.1	649.5
82.5°	119.0	130.9	214.1	211.8	174.9	281.9	593.6	609.1	517.5	463.9	277.2
85°	47.6	55.9	90.4	79.7	64.2	91.6	223.6	234.4	224.8	202.2	102.3
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	20.2	21.4	30.9	55.9	30.9
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°	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0	2723.0
2.5°	2743.3	2736.1	2771.8	2799.2	2811.1	2823.0	2812.3	2808.7	2808.7	2784.9	2773.0
5°	2773.0	2776.6	2825.3	2847.9	2847.9	2838.4	2809.9	2789.6	2782.5	2751.6	2743.3
7.5°	2828.9	2844.4	2889.6	2888.4	2855.1	2802.7	2731.4	2676.6	2626.7	2605.3	2592.2
10°	2920.5	2940.7	2971.7	2921.7	2828.9	2690.9	2539.8	2420.9	2349.5	2292.4	2292.4
12.5°	3025.2	3044.2	3038.3	2922.9	2731.4	2473.2	2255.5	2118.7	2018.8	1966.4	1966.4
15°	3129.9	3145.3	3081.1	2868.2	2527.9	2184.1	1946.2	1782.0	1695.2	1646.4	1646.4
17.5°	3235.8	3234.6	3098.9	2742.1	2262.6	1864.1	1631.0	1503.7	1473.9	1465.6	1464.4
20°	3338.1	3310.7	3076.3	2531.5	1954.5	1541.7	1394.2	1402.6	1446.6	1465.6	1468.0
22.5°	3453.5	3385.6	3009.7	2262.6	1604.8	1318.1	1327.6	1396.6	1460.8	1489.4	1493.0
25°	3571.2	3449.9	2897.9	1947.4	1312.1	1236.0	1309.8	1387.1	1459.7	1496.5	1500.1
27.5°	3618.8	3449.9	2707.6	1582.2	1156.3	1201.5	1282.4	1357.4	1433.5	1476.3	1484.6
30°	3658.1	3420.1	2441.1	1252.7	1092.1	1168.2	1238.4	1307.4	1382.3	1434.7	1444.2
32.5°	3712.8	3394.0	2118.7	1052.8	1062.3	1136.1	1184.9	1243.1	1311.0	1345.5	1341.9
35°	3777.0	3353.5	1729.7	957.6	1037.3	1108.7	1143.2	1177.7	1146.8	1145.6	1149.2
37.5°	3868.6	3317.8	1390.7	914.8	1020.7	1089.7	1118.2	1044.5	1001.7	983.8	976.7
40°	4000.7	3303.6	1096.8	889.8	1018.3	1088.5	1068.3	954.1	895.8	833.9	832.7
42.5°	4167.2	3292.9	906.5	877.9	1026.6	1115.9	999.3	894.6	774.4	747.1	744.7
45°	4381.4	3276.2	811.3	875.6	1046.9	1137.3	992.1	812.5	730.4	718.5	718.5
47.5°	4639.5	3250.0	768.5	875.6	1069.5	1127.8	970.7	794.7	710.2	723.3	731.6
50°	4935.7	3216.7	745.9	873.2	1092.1	1127.8	925.5	791.1	705.4	773.2	800.6
52.5°	5252.2	3178.7	730.4	863.7	1107.5	1128.9	927.9	803.0	710.2	785.1	807.7
55°	5601.9	3172.7	709.0	843.4	1112.3	1098.0	933.8	829.2	717.3	711.4	712.6
57.5°	6043.2	3244.1	693.5	813.7	1093.3	1035.0	945.7	848.2	709.0	710.2	718.5
60°	6504.8	3378.5	706.6	785.1	1054.0	975.5	954.1	838.7	668.6	649.5	651.9
62.5°	6897.4	3480.8	717.3	772.1	996.9	923.1	945.7	817.3	646.0	641.2	651.9
65°	7061.6	3396.4	691.2	744.7	913.6	858.9	927.9	789.9	626.9	609.1	610.3
67.5°	6879.5	3000.2	640.0	684.0	819.6	776.8	899.3	754.2	600.8	579.3	574.6
70°	5876.7	2204.4	552.0	587.7	705.4	680.5	855.3	707.8	559.1	543.7	532.9
72.5°	4735.9	1560.8	458.0	467.5	553.2	573.4	779.2	649.5	511.5	467.5	452.1
75°	3296.4	980.2	381.9	372.3	399.7	437.8	607.9	538.9	441.3	395.0	380.7
77.5°	1418.0	503.2	298.6	293.8	266.5	303.4	466.3	449.7	370.0	316.4	308.1
80°	474.7	291.5	215.3	207.0	177.3	212.9	328.3	359.3	290.3	234.4	220.1
82.5°	237.9	168.9	136.8	123.7	119.0	134.4	193.9	223.6	201.0	161.8	136.8
85°	116.6	96.4	74.9	73.8	61.9	58.3	80.9	95.2	90.4	66.6	63.0
87.5°	42.8	38.1	23.8	19.0	11.9	8.3	4.8	4.8	3.6	3.6	3.6
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)