

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: P633828

Luminaire Tested: GWS-SA2F-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633828
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-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16491.8 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

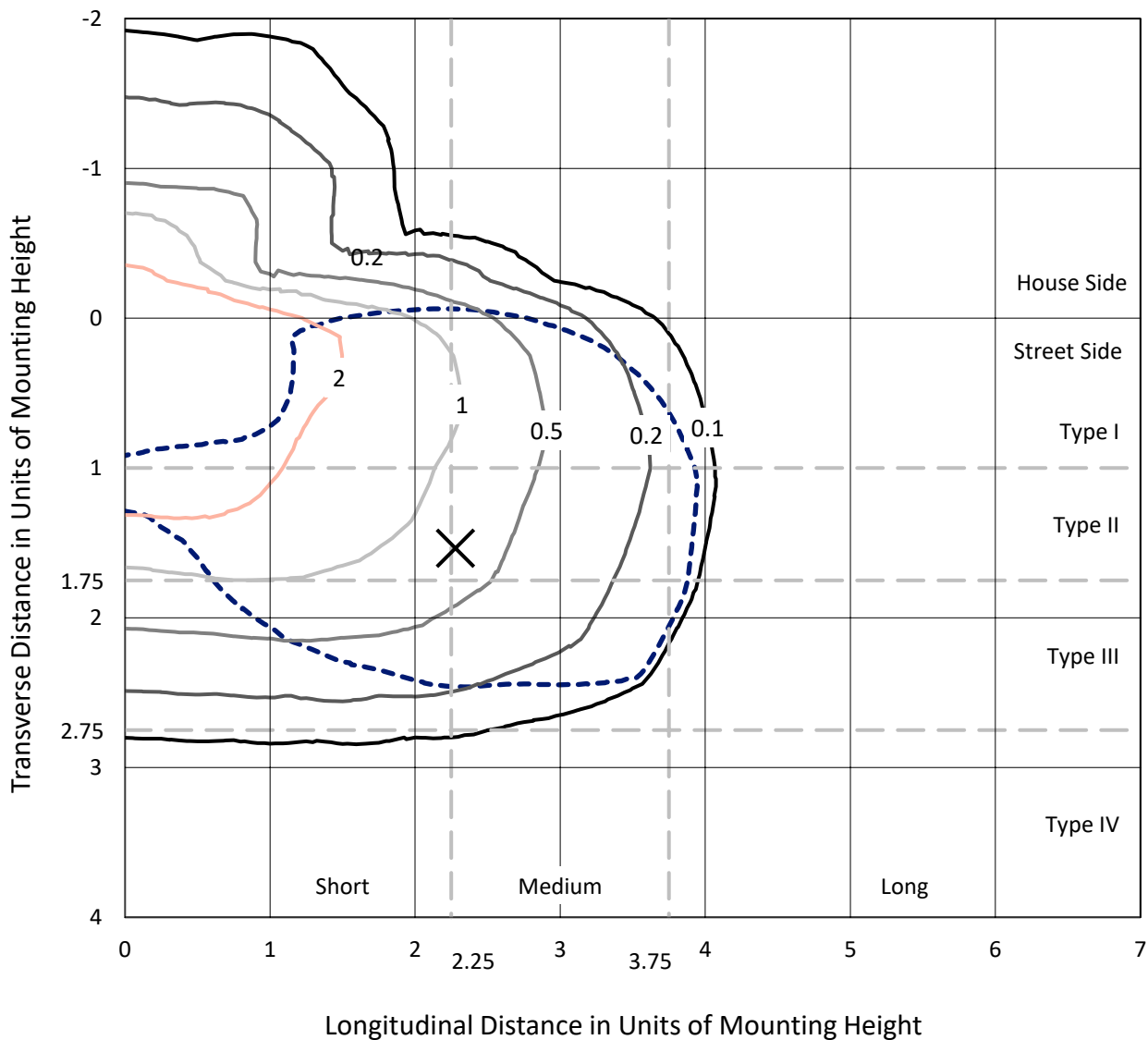
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

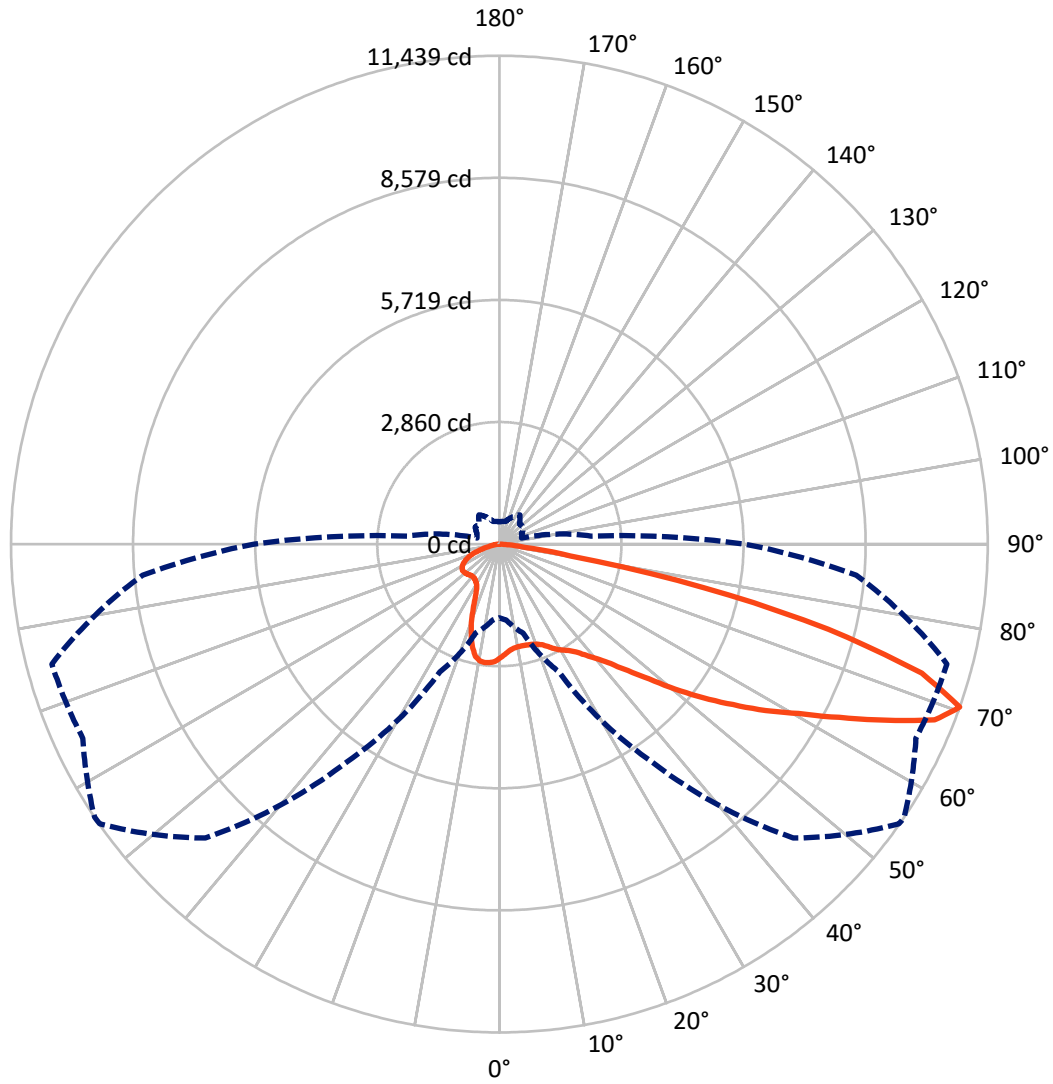
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	3170.6	0.0	3170.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	13321.2	0.0	13321.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	16491.8	0.0	16491.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	1.5
10°-20°	667.5	4.0
20°-30°	1103.5	6.7
30°-40°	1649.9	10.0
40°-50°	2455.3	14.9
50°-60°	3490.7	21.2
60°-70°	4323.3	26.2
70°-80°	2387.2	14.5
80°-90°	168.1	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°	16491.8	100.0
0°-180°	16491.8	100.0

Coefficient of Utilization



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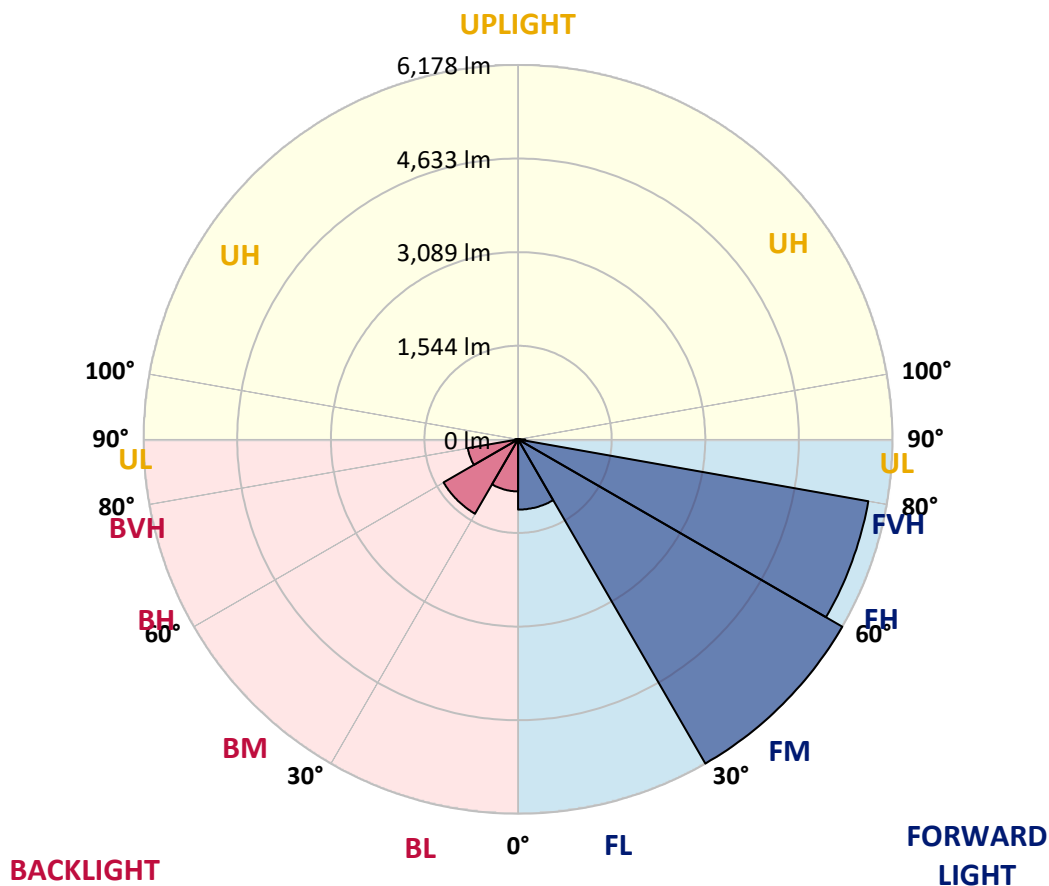
CATALOG NUMBER: GWS-SA2F-740-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.0	7.0			
FM (30°-60°)	6177.6	37.5			
FH (60°-80°)	5867.8	35.6			G3/7500
FVH (80°-90°)	116.8	0.7			G2/225
BL (0°-30°)	858.3	5.2	B2/1000		
BM (30°-60°)	1418.3	8.6	B2/2500		
BH (60°-80°)	842.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	51.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0
2.5°	2491.1	2477.1	2493.4	2501.5	2522.5	2552.7	2579.5	2580.6	2594.6	2628.3	2660.9
5°	2378.3	2371.3	2375.9	2400.4	2422.5	2460.8	2501.5	2505.0	2544.6	2610.9	2676.0
7.5°	2291.0	2281.7	2299.2	2330.6	2358.5	2401.5	2455.0	2459.7	2515.5	2615.5	2715.5
10°	2165.4	2158.5	2191.0	2232.9	2293.4	2364.3	2435.3	2441.1	2514.3	2645.7	2785.3
12.5°	2110.8	2110.8	2124.7	2164.3	2230.6	2324.8	2431.8	2441.1	2532.9	2692.3	2874.9
15°	2195.7	2201.5	2189.9	2187.5	2214.3	2303.8	2436.4	2450.4	2567.8	2739.9	2963.2
17.5°	2366.6	2372.5	2342.2	2294.5	2267.8	2323.6	2453.9	2469.0	2605.0	2792.3	3058.6
20°	2606.2	2613.2	2546.9	2473.6	2381.8	2380.6	2487.6	2501.5	2652.7	2849.3	3159.8
22.5°	2886.5	2891.1	2807.4	2691.1	2550.4	2486.4	2545.7	2559.7	2714.4	2928.3	3269.1
25°	3211.0	3224.9	3123.7	2955.1	2764.4	2631.8	2642.3	2658.5	2824.8	3034.2	3398.2
27.5°	3557.5	3575.0	3458.7	3272.6	3009.8	2792.3	2766.7	2780.7	2942.3	3099.3	3466.8
30°	3912.2	3925.0	3808.7	3595.9	3273.8	2973.7	2871.4	2879.5	2993.5	3130.7	3536.6
32.5°	4306.5	4296.0	4184.4	3939.0	3578.4	3191.2	2969.1	2966.7	3050.5	3193.5	3636.6
35°	4676.3	4691.4	4572.8	4301.8	3913.4	3459.8	3115.6	3106.3	3171.4	3295.8	3777.3
37.5°	5124.0	5119.4	4977.5	4684.4	4249.5	3716.8	3321.4	3305.2	3328.4	3455.2	3973.9
40°	5443.8	5476.4	5384.5	5111.2	4642.6	4033.2	3562.2	3526.1	3531.9	3651.7	4236.7
42.5°	5705.5	5735.8	5745.1	5570.6	5092.6	4423.9	3862.2	3826.2	3829.6	3999.4	4560.0
45°	5906.7	5947.4	6078.8	6027.7	5599.7	4875.2	4268.1	4230.9	4233.2	4421.6	4950.7
47.5°	5989.3	6033.5	6299.8	6421.9	6138.1	5414.8	4772.8	4718.2	4726.3	4934.5	5397.3
50°	5962.5	6021.8	6382.4	6725.4	6589.4	5963.7	5376.4	5338.0	5306.6	5609.0	5882.3
52.5°	5732.3	5797.4	6374.2	6918.5	6958.0	6482.4	5999.7	5977.6	5970.7	6325.4	6424.2
55°	5054.3	5163.6	6093.9	6969.7	7246.4	6970.8	6675.4	6638.2	6674.3	7092.9	6972.0
57.5°	4678.6	4760.0	5545.0	6912.7	7482.5	7436.0	7349.9	7353.4	7394.1	7926.8	7636.0
60°	4464.6	4560.0	5240.3	6756.8	7709.3	8001.2	8055.9	8055.9	8129.1	8825.8	8310.6
62.5°	4180.9	4277.4	4955.4	6456.8	7918.6	8666.4	8943.2	8939.7	8968.8	9789.9	8970.0
65°	3605.2	3694.7	4383.2	5983.5	8021.0	9399.1	9951.5	9941.0	9882.9	10648.1	9406.1
67.5°	2617.8	2702.7	3357.5	5083.3	7652.3	9989.9	10990.0	10994.7	10647.0	11188.9	9429.3
70°	1725.8	1784.0	2158.5	3301.7	6223.0	9735.2	11425.0	11438.9	10764.4	10851.6	8392.0
72.5°	1076.9	1117.6	1347.9	1968.9	3677.3	7705.8	10308.5	10346.9	9684.0	9536.3	6895.2
75°	715.2	743.1	896.6	1147.8	1701.4	4170.4	7836.1	7959.3	7761.6	7475.5	4804.2
77.5°	430.3	453.6	571.0	729.2	753.6	1629.3	4573.9	4892.6	4920.5	3902.9	2011.9
80°	196.5	223.3	315.2	416.3	401.2	567.5	1613.0	1687.5	1991.0	1239.7	635.0
82.5°	116.3	127.9	209.3	207.0	171.0	275.6	580.3	595.4	505.9	453.6	271.0
85°	46.5	54.7	88.4	77.9	62.8	89.5	218.6	229.1	219.8	197.7	100.0
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	19.8	20.9	30.2	54.7	30.2
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°	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0	2662.0
2.5°	2681.8	2674.8	2709.7	2736.5	2748.1	2759.7	2749.3	2745.8	2745.8	2722.5	2710.9
5°	2710.9	2714.4	2762.0	2784.1	2784.1	2774.8	2746.9	2727.2	2720.2	2689.9	2681.8
7.5°	2765.5	2780.7	2824.8	2823.7	2791.1	2739.9	2670.2	2616.7	2567.8	2546.9	2534.1
10°	2855.1	2874.9	2905.1	2856.2	2765.5	2630.6	2482.9	2366.6	2296.9	2241.0	2241.0
12.5°	2957.4	2976.0	2970.2	2857.4	2670.2	2417.8	2205.0	2071.2	1973.6	1922.4	1922.4
15°	3059.8	3074.9	3012.1	2803.9	2471.3	2135.2	1902.6	1742.1	1657.2	1609.5	1609.5
17.5°	3163.3	3162.1	3029.5	2680.6	2212.0	1822.4	1594.4	1470.0	1440.9	1432.8	1431.6
20°	3263.3	3236.5	3007.4	2474.8	1910.8	1507.2	1363.0	1371.1	1414.2	1432.8	1435.1
22.5°	3376.1	3309.8	2942.3	2212.0	1568.8	1288.6	1297.9	1365.3	1428.1	1456.0	1459.5
25°	3491.2	3372.6	2833.0	1903.8	1282.8	1208.3	1280.4	1356.0	1427.0	1463.0	1466.5
27.5°	3537.7	3372.6	2646.9	1546.7	1130.4	1174.6	1253.7	1326.9	1401.4	1443.2	1451.4
30°	3576.1	3343.5	2386.4	1224.6	1067.6	1142.0	1210.6	1278.1	1351.4	1402.5	1411.8
32.5°	3629.6	3317.9	2071.2	1029.2	1038.5	1110.6	1158.3	1215.3	1281.6	1315.3	1311.8
35°	3692.4	3278.4	1691.0	936.2	1014.1	1083.9	1117.6	1151.3	1121.1	1119.9	1123.4
37.5°	3782.0	3243.5	1359.5	894.3	997.8	1065.3	1093.2	1021.1	979.2	961.8	954.8
40°	3911.1	3229.6	1072.3	869.9	995.5	1064.1	1044.3	932.7	875.7	815.2	814.1
42.5°	4073.9	3219.1	886.2	858.3	1003.6	1090.9	976.9	874.6	757.1	730.3	728.0
45°	4283.2	3202.8	793.1	855.9	1023.4	1111.8	969.9	794.3	714.1	702.4	702.4
47.5°	4535.6	3177.2	751.3	855.9	1045.5	1102.5	949.0	776.9	694.3	707.1	715.2
50°	4825.1	3144.7	729.2	853.6	1067.6	1102.5	904.8	773.4	689.6	755.9	782.7
52.5°	5134.5	3107.4	714.1	844.3	1082.7	1103.7	907.1	785.0	694.3	767.6	789.7
55°	5476.4	3101.6	693.1	824.5	1087.4	1073.4	912.9	810.6	701.3	695.5	696.6
57.5°	5907.9	3171.4	678.0	795.5	1068.8	1011.8	924.6	829.2	693.1	694.3	702.4
60°	6359.1	3302.8	690.8	767.6	1030.4	953.6	932.7	819.9	653.6	635.0	637.3
62.5°	6742.9	3402.8	701.3	754.8	974.6	902.5	924.6	799.0	631.5	626.8	637.3
65°	6903.4	3320.3	675.7	728.0	893.2	839.7	907.1	772.2	612.9	595.4	596.6
67.5°	6725.4	2933.0	625.7	668.7	801.3	759.4	879.2	737.3	587.3	566.4	561.7
70°	5745.1	2155.0	539.6	574.5	689.6	665.2	836.2	692.0	546.6	531.5	521.0
72.5°	4629.8	1525.8	447.7	457.0	540.8	560.5	761.7	635.0	500.1	457.0	441.9
75°	3222.6	958.3	373.3	364.0	390.8	428.0	594.3	526.8	431.5	386.1	372.1
77.5°	1386.3	491.9	291.9	287.3	260.5	296.6	455.9	439.6	361.7	309.3	301.2
80°	464.0	284.9	210.5	202.4	173.3	208.2	321.0	351.2	283.8	229.1	215.1
82.5°	232.6	165.1	133.7	120.9	116.3	131.4	189.6	218.6	196.5	158.2	133.7
85°	114.0	94.2	73.3	72.1	60.5	57.0	79.1	93.0	88.4	65.1	61.6
87.5°	41.9	37.2	23.3	18.6	11.6	8.1	4.7	4.7	3.5	3.5	3.5
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)