

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: P635810

Luminaire Tested: GWS-SA3E-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21241.9 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

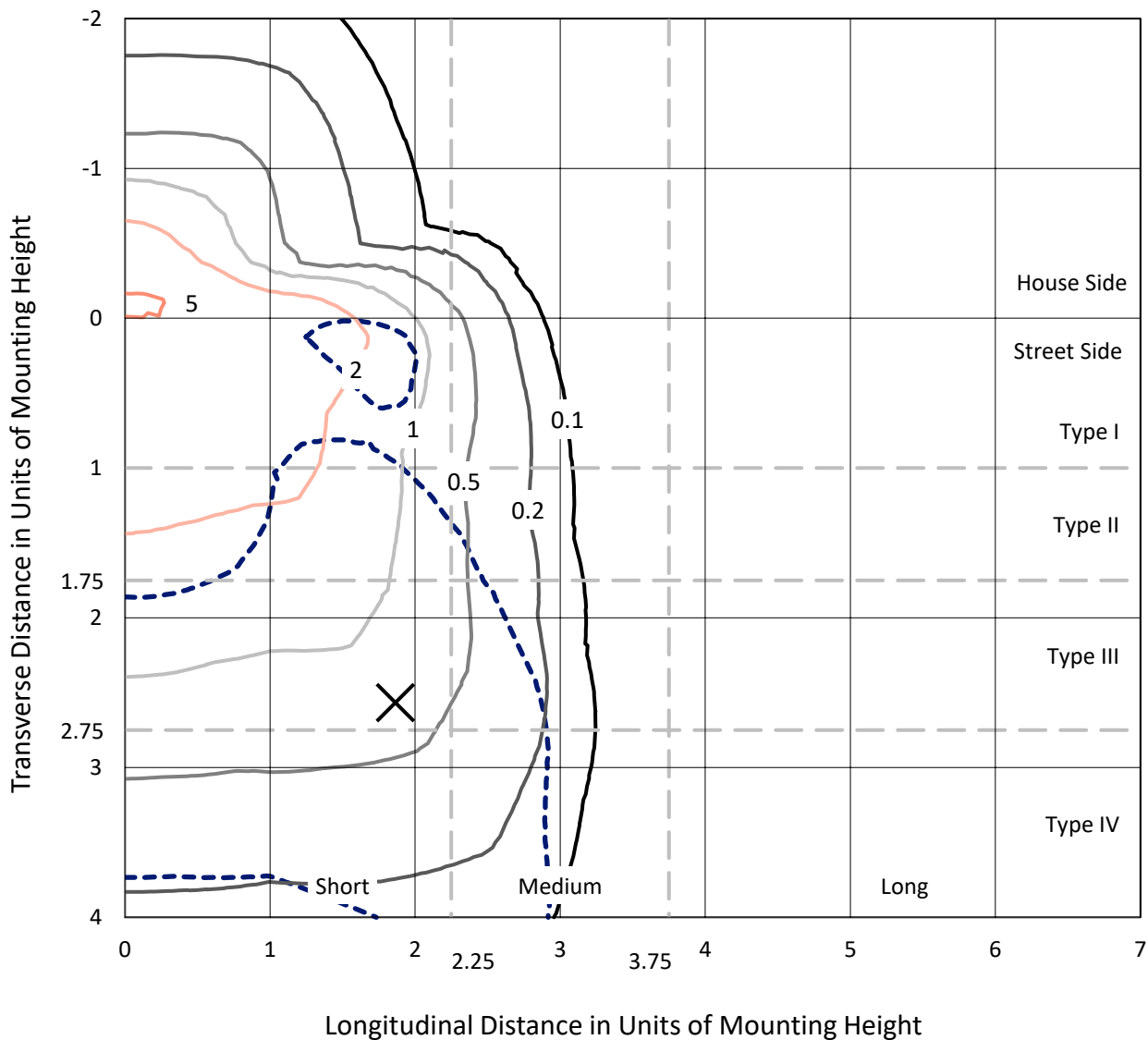
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

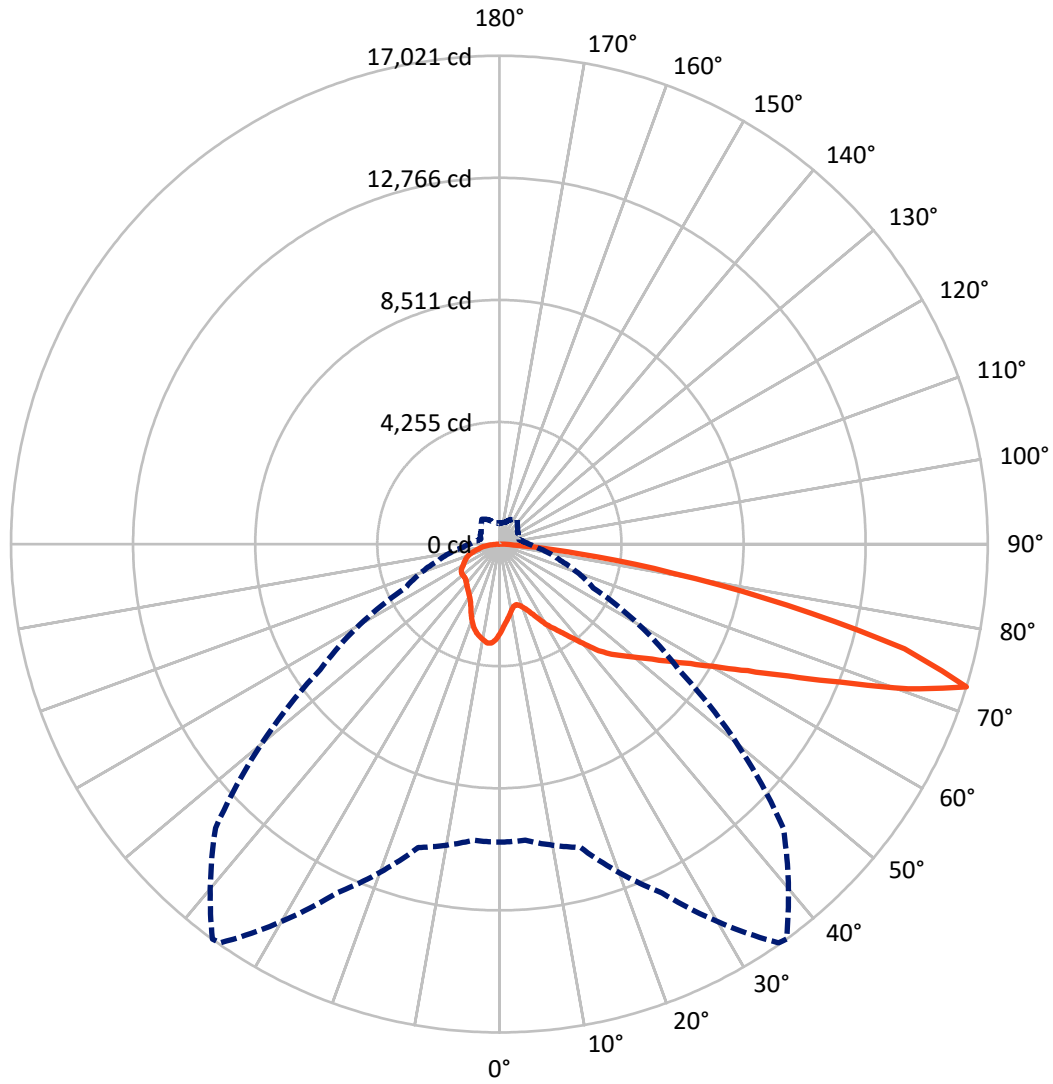
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4897.2	0.0	4897.2
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	16344.7	0.0	16344.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	21241.9	0.0	21241.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.4
10°-20°	819.9	3.9
20°-30°	1357.8	6.4
30°-40°	2033.4	9.6
40°-50°	2966.6	14.0
50°-60°	4222.4	19.9
60°-70°	5334.7	25.1
70°-80°	3801.4	17.9
80°-90°	415.0	2.0
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°	21241.9	100.0
0°-180°	21241.9	100.0

Coefficient of Utilization



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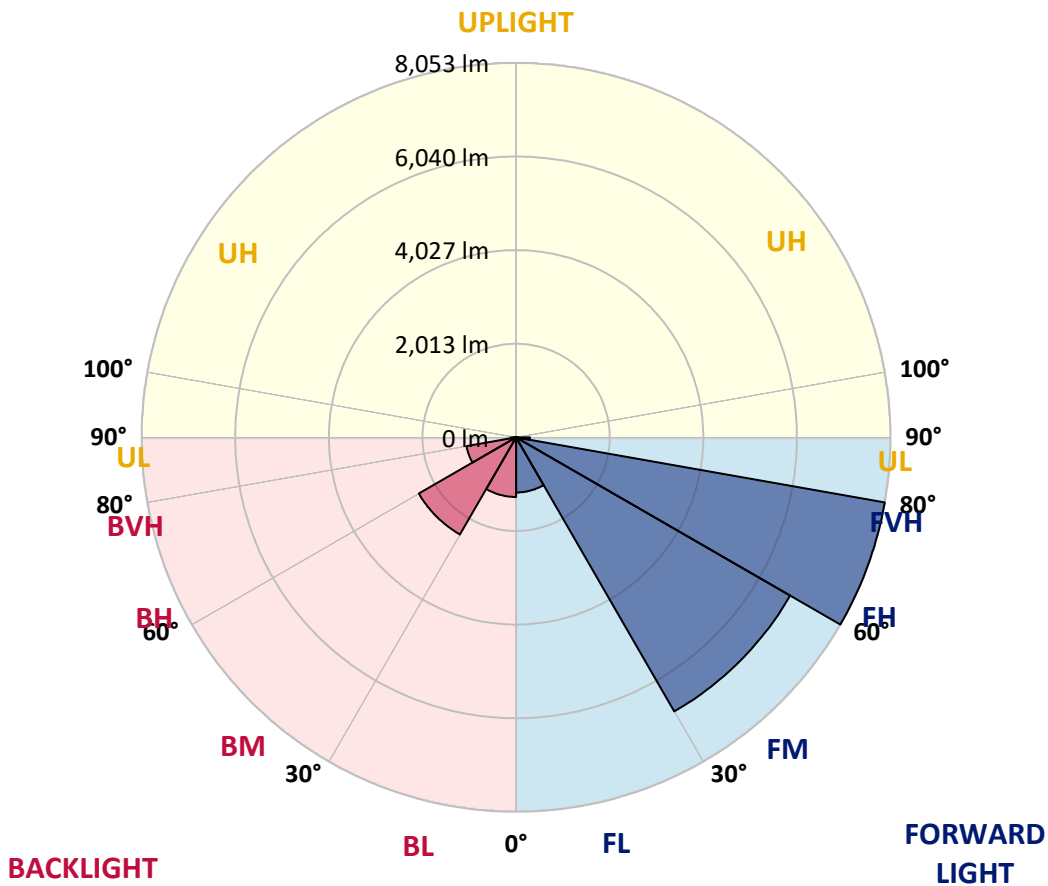
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.9	5.6			
FM (30°-60°)	6807.5	32.0			
FH (60°-80°)	8053.5	37.9			G4/12000
FVH (80°-90°)	297.9	1.4			G3/500
BL (0°-30°)	1282.4	6.0	B3/2500		
BM (30°-60°)	2415.0	11.4	B2/2500		
BH (60°-80°)	1082.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	117.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8
2.5°	2836.1	2831.4	2821.9	2850.3	2878.7	2875.5	2914.9	2952.8	2993.8	3036.3	3093.1
5°	2609.1	2605.9	2598.1	2640.6	2683.2	2681.6	2746.3	2807.7	2891.3	2982.7	3096.2
7.5°	2382.1	2374.2	2385.2	2438.8	2498.7	2505.0	2593.3	2694.2	2815.6	2952.8	3113.6
10°	2181.9	2180.3	2185.0	2244.9	2334.8	2341.1	2454.6	2594.9	2755.7	2938.6	3153.0
12.5°	2129.8	2126.7	2114.1	2144.0	2211.8	2221.3	2345.8	2517.7	2714.7	2946.5	3206.6
15°	2215.0	2207.1	2163.0	2148.8	2181.9	2189.8	2295.4	2471.9	2691.1	2960.7	3274.4
17.5°	2361.6	2356.9	2273.3	2215.0	2237.0	2243.4	2322.2	2464.1	2684.8	2989.0	3357.9
20°	2576.0	2555.5	2424.6	2336.4	2336.4	2345.8	2393.1	2498.7	2692.7	3023.7	3452.5
22.5°	2859.8	2818.8	2634.3	2514.5	2483.0	2495.6	2516.1	2585.5	2725.8	3082.0	3570.8
25°	3178.2	3140.4	2921.2	2752.6	2708.4	2713.1	2695.8	2708.4	2798.3	3162.4	3717.4
27.5°	3517.2	3491.9	3258.6	3044.2	2974.8	2974.8	2913.4	2883.4	2899.2	3253.9	3881.3
30°	3819.8	3785.2	3588.1	3353.2	3261.8	3261.8	3145.1	3080.5	3042.6	3365.8	4100.5
32.5°	3979.1	3958.6	3827.7	3648.0	3536.1	3518.7	3417.8	3342.2	3253.9	3531.3	4396.8
35°	4187.2	4182.4	4103.6	3963.3	3821.4	3796.2	3726.8	3666.9	3514.0	3737.9	4791.0
37.5°	4448.9	4441.0	4428.4	4344.8	4174.6	4169.8	4108.3	4035.8	3837.2	4035.8	5268.6
40°	4742.1	4727.9	4712.1	4710.6	4608.1	4590.8	4586.0	4504.0	4226.6	4395.3	5766.8
42.5°	5145.7	5096.8	4948.6	5014.8	5090.5	5074.7	5134.6	5011.7	4712.1	4822.5	6238.2
45°	5642.3	5522.5	5229.2	5248.2	5438.9	5470.4	5678.5	5648.6	5246.6	5315.9	6734.8
47.5°	5940.2	5836.2	5563.4	5547.7	5785.7	5825.1	6277.6	6334.4	5822.0	5910.3	7348.0
50°	6184.6	6112.1	5888.2	5910.3	6162.5	6201.9	6871.9	6993.3	6364.3	6518.8	8060.6
52.5°	6479.4	6375.3	6201.9	6306.0	6615.0	6662.3	7532.5	7663.3	6853.0	7187.2	8798.4
55°	6644.9	6602.4	6605.5	6764.7	7152.6	7217.2	8224.6	8202.5	7300.7	7759.5	9353.3
57.5°	7026.4	7010.7	7155.7	7215.6	7780.0	7863.6	8916.7	8727.5	7707.5	8202.5	9619.8
60°	7699.6	7660.2	7786.3	7877.7	8555.6	8673.9	9689.1	9241.4	7983.4	8532.0	9529.9
62.5°	8645.5	8596.6	8601.4	8746.4	9594.5	9719.1	10548.3	9670.2	8068.5	8582.4	8960.8
65°	9821.6	9750.6	9670.2	9867.3	10974.0	11078.0	11483.2	9982.4	7865.1	8096.9	7772.1
67.5°	11062.3	11003.9	10909.3	11322.4	12760.1	12823.2	12531.6	9955.6	7220.3	6797.8	5451.5
70°	11134.8	11149.0	11596.7	13091.2	15091.8	15107.5	13523.2	9416.4	5847.2	4406.3	2716.3
72.5°	10387.5	10363.9	10947.2	13414.4	16967.8	17021.4	13991.4	7628.7	3613.3	2197.6	1273.8
75°	8437.4	8478.4	9091.6	11737.0	14543.2	14590.5	11405.9	4497.7	1716.8	1075.2	815.0
77.5°	3632.2	3860.8	5070.0	8268.7	10415.9	10269.3	5878.7	1822.4	915.9	766.2	624.3
80°	1048.4	1138.2	1806.7	3931.8	6241.3	6131.0	2326.9	682.6	638.5	575.4	447.7
82.5°	338.9	375.2	662.1	1565.5	2796.7	2793.5	882.8	403.6	417.8	391.0	288.5
85°	94.6	108.8	203.4	474.5	865.5	848.2	255.4	190.8	222.3	225.4	143.5
87.5°	0.0	0.0	1.6	3.2	3.2	3.2	6.3	28.4	64.6	82.0	58.3
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°	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8	3108.8
2.5°	3127.8	3123.0	3187.7	3238.1	3285.4	3316.9	3326.4	3332.7	3345.3	3351.6	3345.3
5°	3149.8	3173.5	3280.7	3359.5	3422.6	3460.4	3462.0	3458.8	3468.3	3460.4	3455.7
7.5°	3197.1	3242.8	3378.4	3462.0	3503.0	3504.5	3466.7	3422.6	3400.5	3381.6	3375.3
10°	3260.2	3328.0	3476.2	3531.3	3518.7	3460.4	3376.9	3307.5	3268.1	3239.7	3233.4
12.5°	3346.9	3422.6	3562.9	3561.3	3482.5	3378.4	3280.7	3197.1	3140.4	3107.3	3096.2
15°	3428.9	3525.0	3625.9	3551.8	3427.3	3301.2	3175.1	3063.1	2987.5	2935.4	2926.0
17.5°	3529.8	3632.2	3671.7	3521.9	3357.9	3195.6	3026.9	2880.3	2777.8	2716.3	2711.6
20°	3646.4	3737.9	3693.7	3469.9	3268.1	3055.2	2826.7	2662.7	2552.3	2492.4	2497.2
22.5°	3782.0	3848.2	3700.0	3398.9	3143.5	2856.6	2601.2	2443.6	2369.5	2337.9	2339.5
25°	3927.0	3969.6	3689.0	3302.8	2952.8	2613.8	2369.5	2297.0	2290.6	2282.8	2285.9
27.5°	4098.9	4089.4	3655.9	3167.2	2695.8	2331.6	2207.1	2226.0	2251.2	2248.1	2251.2
30°	4329.1	4239.2	3613.3	2979.6	2390.0	2095.2	2110.9	2164.5	2197.6	2200.8	2210.2
32.5°	4592.3	4404.7	3545.5	2724.2	2098.3	1962.7	2021.1	2085.7	2125.1	2133.0	2145.6
35°	4906.1	4593.9	3425.7	2405.7	1888.6	1883.9	1937.5	1981.7	2024.2	2027.4	2027.4
37.5°	5267.1	4783.1	3235.0	2054.2	1759.4	1816.1	1866.6	1876.0	1887.1	1877.6	1882.3
40°	5598.1	4966.0	2963.8	1734.1	1653.7	1756.2	1798.8	1767.3	1732.6	1708.9	1713.6
42.5°	5875.6	5090.5	2604.4	1510.3	1546.5	1702.6	1735.7	1671.1	1603.3	1559.2	1565.5
45°	6187.7	5205.6	2181.9	1358.9	1455.1	1664.8	1686.8	1603.3	1516.6	1450.4	1440.9
47.5°	6618.1	5440.5	1806.7	1253.3	1390.5	1644.3	1680.5	1567.0	1453.5	1354.2	1343.2
50°	7149.4	5773.1	1492.9	1183.9	1360.5	1633.2	1679.0	1527.6	1392.0	1275.4	1267.5
52.5°	7729.6	6097.9	1261.2	1130.3	1330.6	1600.1	1671.1	1483.5	1327.4	1201.3	1191.8
55°	8115.8	6225.6	1105.1	1079.9	1281.7	1548.1	1639.6	1440.9	1229.7	1114.6	1100.4
57.5°	8229.3	6061.6	996.3	1034.2	1218.6	1475.6	1579.6	1351.1	1169.8	1078.3	1067.3
60°	8033.8	5648.6	928.6	996.3	1149.3	1382.6	1475.6	1299.0	1122.5	1040.5	1032.6
62.5°	7482.0	5011.7	876.5	956.9	1078.3	1284.8	1409.4	1236.0	1070.4	1005.8	994.8
65°	6372.2	4109.9	834.0	915.9	1010.5	1191.8	1336.9	1172.9	1013.7	964.8	952.2
67.5°	4456.8	2886.6	788.2	867.1	942.7	1102.0	1261.2	1114.6	955.4	919.1	906.5
70°	2178.7	1530.8	733.1	810.3	870.2	1010.5	1185.5	1043.6	878.1	857.6	840.3
72.5°	1037.3	856.0	668.4	733.1	770.9	889.1	1059.4	941.2	786.7	742.5	712.6
75°	695.2	608.5	583.3	641.6	651.1	745.7	908.1	811.9	693.7	643.2	618.0
77.5°	526.5	465.1	490.3	542.3	523.4	613.3	747.3	723.6	625.9	580.1	567.5
80°	370.5	338.9	389.4	420.9	406.7	521.8	673.2	619.6	515.5	465.1	455.6
82.5°	233.3	227.0	286.9	291.7	296.4	413.0	553.3	487.1	400.4	329.5	305.8
85°	116.7	129.3	171.8	171.8	170.3	212.8	315.3	274.3	216.0	171.8	167.1
87.5°	39.4	55.2	74.1	59.9	45.7	36.3	41.0	50.4	53.6	52.0	52.0
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)