

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: P639770

Luminaire Tested: GWS-SA5C-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639770
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-SA5C-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23000.8 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

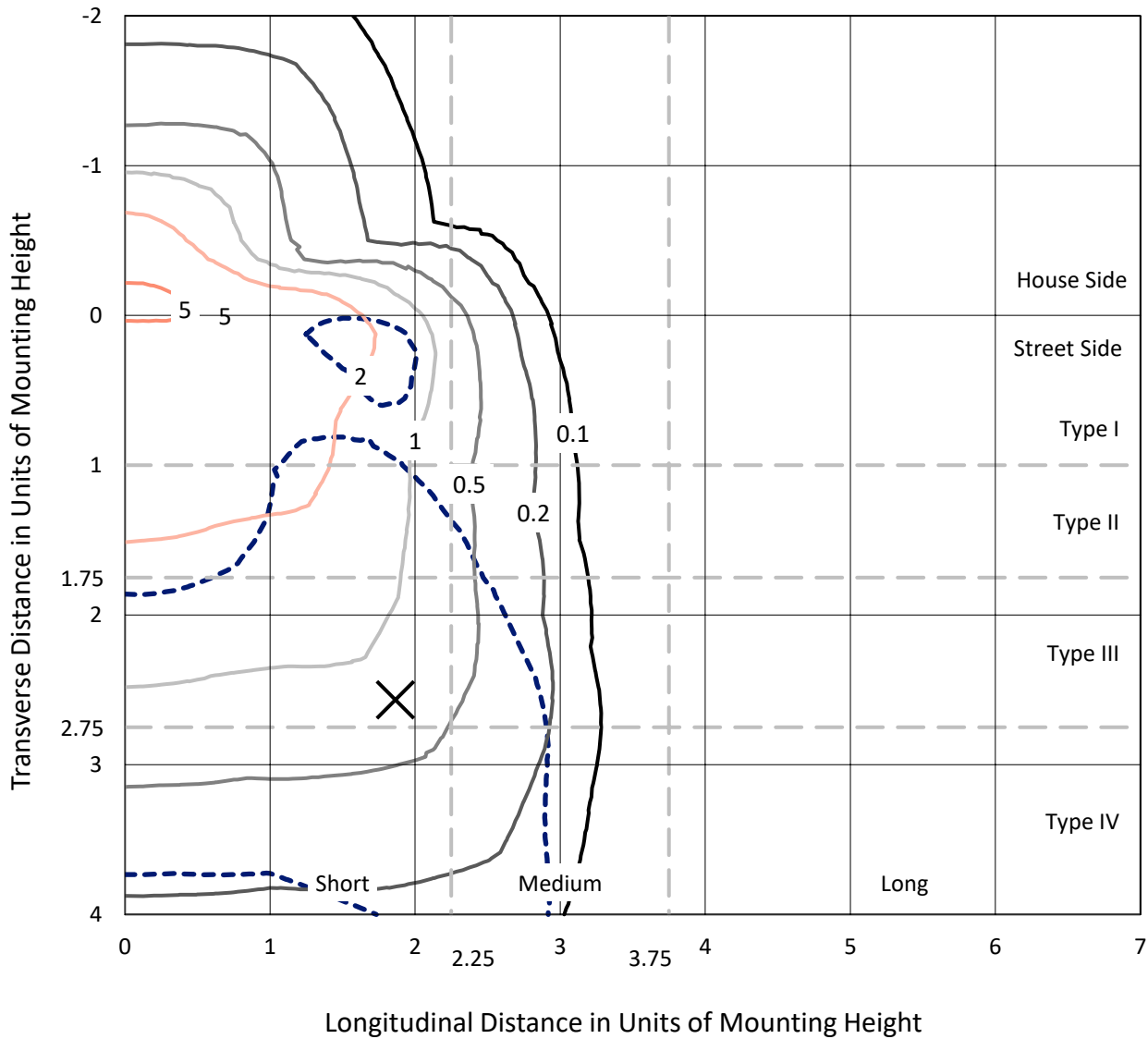
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

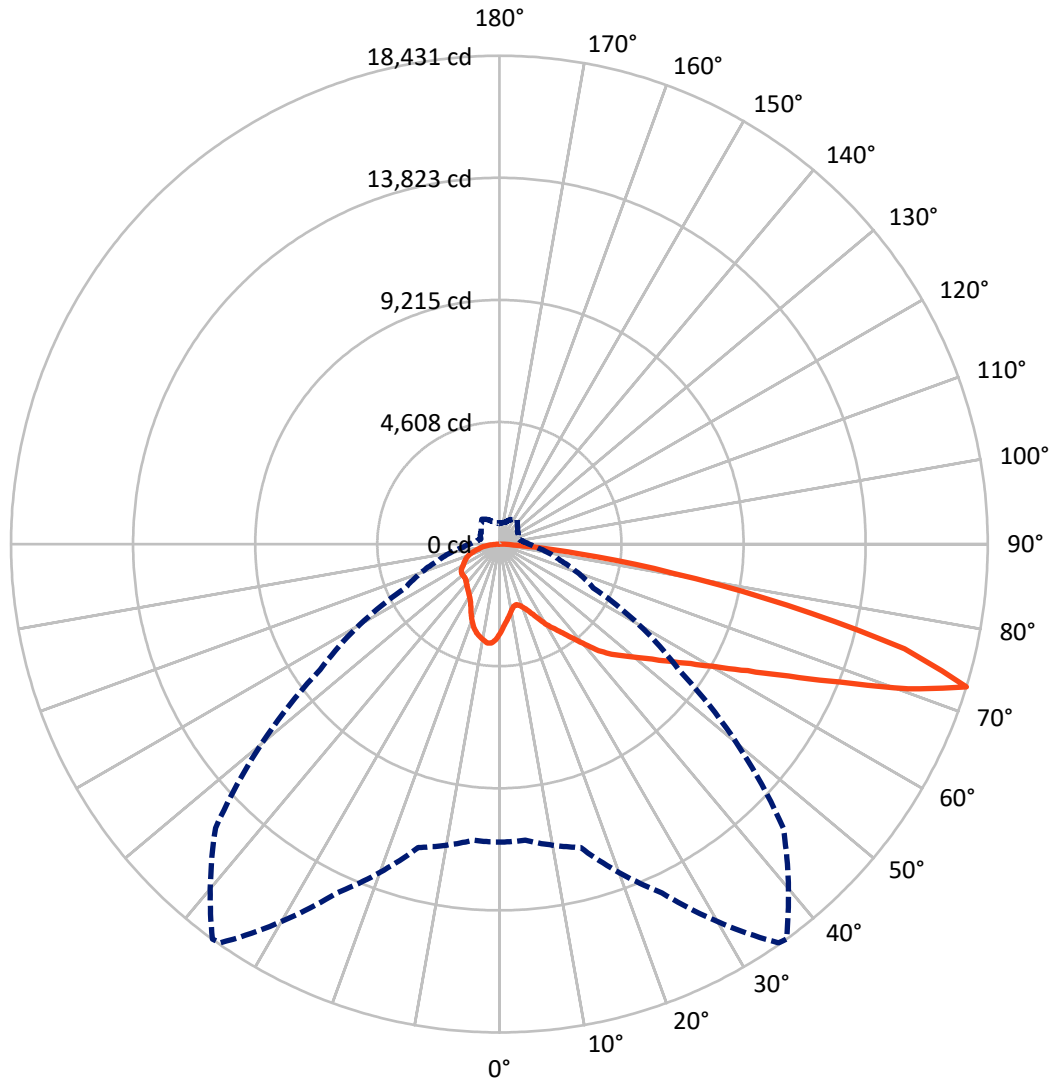
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5302.7	0.0	5302.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	17698.1	0.0	17698.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	23000.8	0.0	23000.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.4
10°-20°	887.8	3.9
20°-30°	1470.3	6.4
30°-40°	2201.8	9.6
40°-50°	3212.3	14.0
50°-60°	4572.0	19.9
60°-70°	5776.4	25.1
70°-80°	4116.2	17.9
80°-90°	449.3	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°	23000.8	100.0
0°-180°	23000.8	100.0

Coefficient of Utilization



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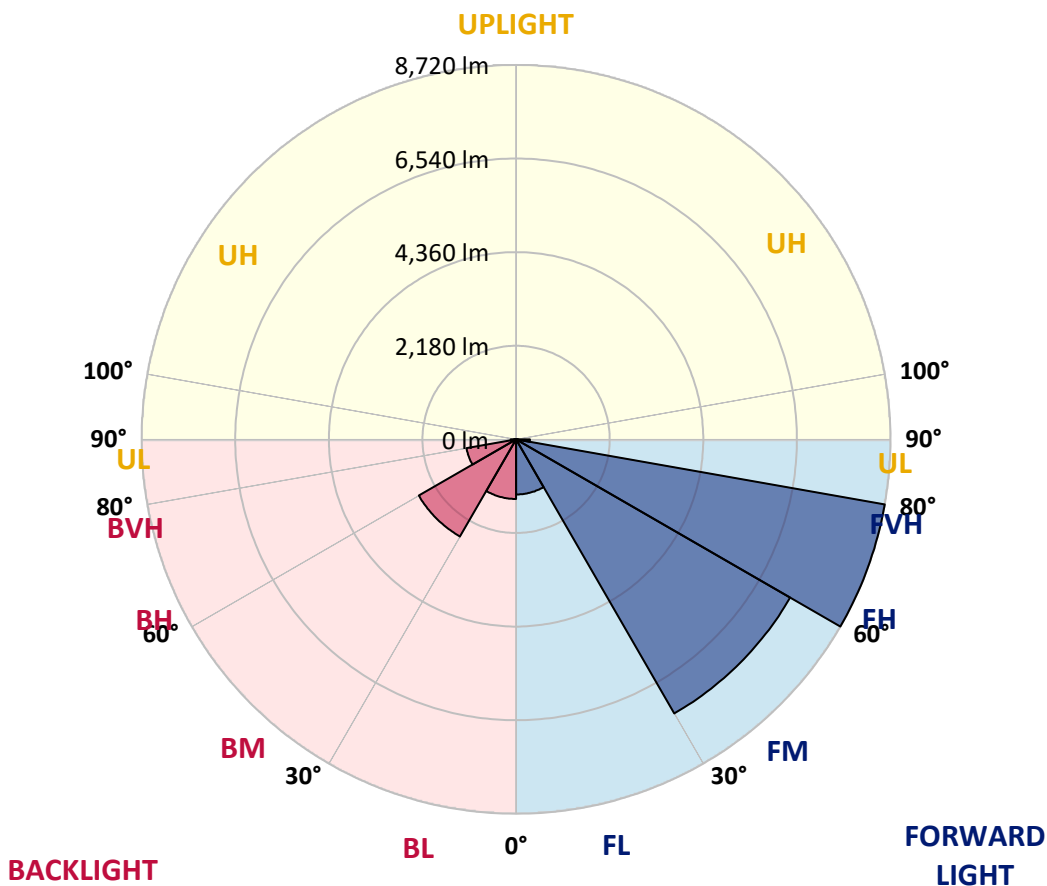
CATALOG NUMBER: GWS-SA5C-740-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.1	5.6			
FM (30°-60°)	7371.2	32.0			
FH (60°-80°)	8720.3	37.9			G4/12000
FVH (80°-90°)	322.5	1.4			G3/500
BL (0°-30°)	1388.6	6.0	B3/2500		
BM (30°-60°)	2615.0	11.4	B3/5000		
BH (60°-80°)	1172.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	126.8	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°	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3
2.5°	3071.0	3065.8	3055.6	3086.3	3117.0	3113.6	3156.3	3197.3	3241.7	3287.7	3349.2
5°	2825.1	2821.7	2813.2	2859.3	2905.4	2903.7	2973.7	3040.2	3130.7	3229.7	3352.6
7.5°	2579.3	2570.8	2582.7	2640.8	2705.6	2712.5	2808.1	2917.3	3048.8	3197.3	3371.4
10°	2362.5	2360.8	2365.9	2430.8	2528.1	2534.9	2657.9	2809.8	2983.9	3181.9	3414.1
12.5°	2306.2	2302.8	2289.1	2321.6	2395.0	2405.2	2540.1	2726.1	2939.5	3190.4	3472.1
15°	2398.4	2389.8	2342.0	2326.7	2362.5	2371.1	2485.4	2676.6	2913.9	3205.8	3545.5
17.5°	2557.1	2552.0	2461.5	2398.4	2422.3	2429.1	2514.5	2668.1	2907.1	3236.5	3636.0
20°	2789.3	2767.1	2625.4	2529.8	2529.8	2540.1	2591.3	2705.6	2915.6	3274.1	3738.4
22.5°	3096.6	3052.2	2852.5	2722.7	2688.6	2702.2	2724.4	2799.5	2951.5	3337.3	3866.4
25°	3441.4	3400.4	3163.1	2980.5	2932.7	2937.8	2919.0	2932.7	3030.0	3424.3	4025.2
27.5°	3808.4	3781.1	3528.4	3296.3	3221.2	3221.2	3154.6	3122.2	3139.2	3523.3	4202.7
30°	4136.1	4098.6	3885.2	3630.9	3531.9	3531.9	3405.5	3335.5	3294.6	3644.5	4440.0
32.5°	4308.6	4286.4	4144.7	3950.1	3828.9	3810.1	3700.8	3618.9	3523.3	3823.8	4760.9
35°	4533.9	4528.8	4443.4	4291.5	4137.8	4110.5	4035.4	3970.6	3805.0	4047.4	5187.7
37.5°	4817.2	4808.7	4795.1	4704.6	4520.2	4515.1	4448.5	4370.0	4154.9	4370.0	5704.9
40°	5134.8	5119.4	5102.3	5100.6	4989.7	4970.9	4965.8	4877.0	4576.6	4759.2	6244.3
42.5°	5571.8	5518.8	5358.4	5430.1	5512.0	5494.9	5559.8	5426.7	5102.3	5221.8	6754.7
45°	6109.5	5979.7	5662.2	5682.7	5889.3	5923.4	6148.7	6116.3	5681.0	5756.1	7292.4
47.5°	6432.1	6319.4	6024.1	6007.1	6264.8	6307.5	6797.4	6858.9	6304.1	6399.7	7956.5
50°	6696.7	6618.2	6375.8	6399.7	6672.8	6715.5	7441.0	7572.4	6891.3	7058.6	8728.1
52.5°	7015.9	6903.2	6715.5	6828.1	7162.7	7213.9	8156.2	8297.9	7420.5	7782.4	9527.0
55°	7195.1	7149.1	7152.5	7324.9	7744.8	7814.8	8905.6	8881.7	7905.3	8402.0	10127.8
57.5°	7608.2	7591.2	7748.2	7813.1	8424.2	8514.7	9655.0	9450.1	8345.7	8881.7	10416.3
60°	8337.2	8294.5	8431.0	8530.0	9264.1	9392.1	10491.4	10006.6	8644.4	9238.5	10319.0
62.5°	9361.4	9308.5	9313.6	9470.6	10389.0	10523.9	11421.8	10470.9	8736.6	9293.1	9702.8
65°	10634.8	10558.0	10470.9	10684.3	11882.7	11995.3	12434.0	10808.9	8516.4	8767.3	8415.7
67.5°	11978.3	11915.1	11812.7	12259.9	13816.7	13885.0	13569.2	10779.9	7818.2	7360.7	5902.9
70°	12056.8	12072.1	12556.9	14175.2	16341.4	16358.5	14642.9	10196.1	6331.4	4771.2	2941.2
72.5°	11247.6	11222.0	11853.6	14525.1	18372.8	18430.8	15149.9	8260.3	3912.5	2379.6	1379.3
75°	9136.0	9180.4	9844.5	12708.9	15747.4	15798.6	12350.4	4870.2	1859.0	1164.2	882.5
77.5°	3933.0	4180.5	5489.8	8953.4	11278.4	11119.6	6365.5	1973.3	991.8	829.6	676.0
80°	1135.2	1232.5	1956.3	4257.3	6758.1	6638.7	2519.6	739.1	691.3	623.1	484.8
82.5°	367.0	406.3	717.0	1695.1	3028.3	3024.9	955.9	437.0	452.4	423.3	312.4
85°	102.4	117.8	220.2	513.8	937.2	918.4	276.5	206.6	240.7	244.1	155.3
87.5°	0.0	0.0	1.7	3.4	3.4	3.4	6.8	30.7	70.0	88.8	63.2
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°	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3	3366.3
2.5°	3386.8	3381.6	3451.6	3506.2	3557.5	3591.6	3601.8	3608.7	3622.3	3629.2	3622.3
5°	3410.7	3436.3	3552.3	3637.7	3706.0	3746.9	3748.6	3745.2	3755.5	3746.9	3741.8
7.5°	3461.9	3511.4	3658.2	3748.6	3793.0	3794.7	3753.8	3706.0	3682.1	3661.6	3654.8
10°	3530.1	3603.5	3764.0	3823.8	3810.1	3746.9	3656.5	3581.4	3538.7	3508.0	3501.1
12.5°	3624.0	3706.0	3857.9	3856.2	3770.8	3658.2	3552.3	3461.9	3400.4	3364.6	3352.6
15°	3712.8	3816.9	3926.2	3845.9	3711.1	3574.5	3438.0	3316.8	3234.8	3178.5	3168.3
17.5°	3822.0	3933.0	3975.7	3813.5	3636.0	3460.2	3277.5	3118.8	3007.8	2941.2	2936.1
20°	3948.4	4047.4	3999.6	3757.2	3538.7	3308.2	3060.7	2883.2	2763.7	2698.8	2703.9
22.5°	4095.2	4166.9	4006.4	3680.4	3403.8	3093.1	2816.6	2645.9	2565.7	2531.5	2533.2
25°	4252.2	4298.3	3994.5	3576.2	3197.3	2830.3	2565.7	2487.1	2480.3	2471.8	2475.2
27.5°	4438.3	4428.0	3958.6	3429.4	2919.0	2524.7	2389.8	2410.3	2437.6	2434.2	2437.6
30°	4687.5	4590.2	3912.5	3226.3	2587.9	2268.6	2285.7	2343.8	2379.6	2383.0	2393.3
32.5°	4972.6	4769.5	3839.1	2949.8	2272.1	2125.3	2188.4	2258.4	2301.1	2309.6	2323.3
35°	5312.3	4974.3	3709.4	2604.9	2045.0	2039.9	2097.9	2145.7	2191.8	2195.2	2195.2
37.5°	5703.2	5179.1	3502.8	2224.3	1905.0	1966.5	2021.1	2031.4	2043.3	2033.1	2038.2
40°	6061.7	5377.2	3209.2	1877.7	1790.7	1901.6	1947.7	1913.6	1876.0	1850.4	1855.5
42.5°	6362.1	5512.0	2820.0	1635.3	1674.6	1843.6	1879.4	1809.5	1736.1	1688.3	1695.1
45°	6700.1	5636.6	2362.5	1471.5	1575.6	1802.6	1826.5	1736.1	1642.2	1570.5	1560.2
47.5°	7166.1	5891.0	1956.3	1357.1	1505.6	1780.4	1819.7	1696.8	1573.9	1466.3	1454.4
50°	7741.4	6251.2	1616.6	1282.0	1473.2	1768.5	1818.0	1654.1	1507.3	1381.0	1372.5
52.5°	8369.6	6602.8	1365.6	1223.9	1440.7	1732.6	1809.5	1606.3	1437.3	1300.8	1290.5
55°	8787.8	6741.1	1196.6	1169.3	1387.8	1676.3	1775.3	1560.2	1331.5	1206.9	1191.5
57.5°	8910.7	6563.5	1078.8	1119.8	1319.5	1597.8	1710.4	1462.9	1266.6	1167.6	1155.7
60°	8699.0	6116.3	1005.4	1078.8	1244.4	1497.1	1597.8	1406.6	1215.4	1126.6	1118.1
62.5°	8101.6	5426.7	949.1	1036.2	1167.6	1391.2	1526.1	1338.3	1159.1	1089.1	1077.1
65°	6899.8	4450.2	903.0	991.8	1094.2	1290.5	1447.6	1270.0	1097.6	1044.7	1031.0
67.5°	4825.8	3125.6	853.5	938.9	1020.8	1193.2	1365.6	1206.9	1034.5	995.2	981.5
70°	2359.1	1657.5	793.8	877.4	942.3	1094.2	1283.7	1130.1	950.8	928.6	909.8
72.5°	1123.2	926.9	723.8	793.8	834.7	962.8	1147.1	1019.1	851.8	804.0	771.6
75°	752.8	658.9	631.6	694.8	705.0	807.4	983.3	879.1	751.1	696.5	669.2
77.5°	570.1	503.6	530.9	587.2	566.7	664.0	809.1	783.5	677.7	628.2	614.5
80°	401.2	367.0	421.6	455.8	440.4	565.0	728.9	670.9	558.2	503.6	493.3
82.5°	252.6	245.8	310.7	315.8	320.9	447.2	599.2	527.5	433.6	356.8	331.2
85°	126.3	140.0	186.1	186.1	184.4	230.4	341.4	297.0	233.9	186.1	180.9
87.5°	42.7	59.7	80.2	64.9	49.5	39.3	44.4	54.6	58.0	56.3	56.3
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)