

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: P643206

Luminaire Tested: GWS-SA6E-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43861.2 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

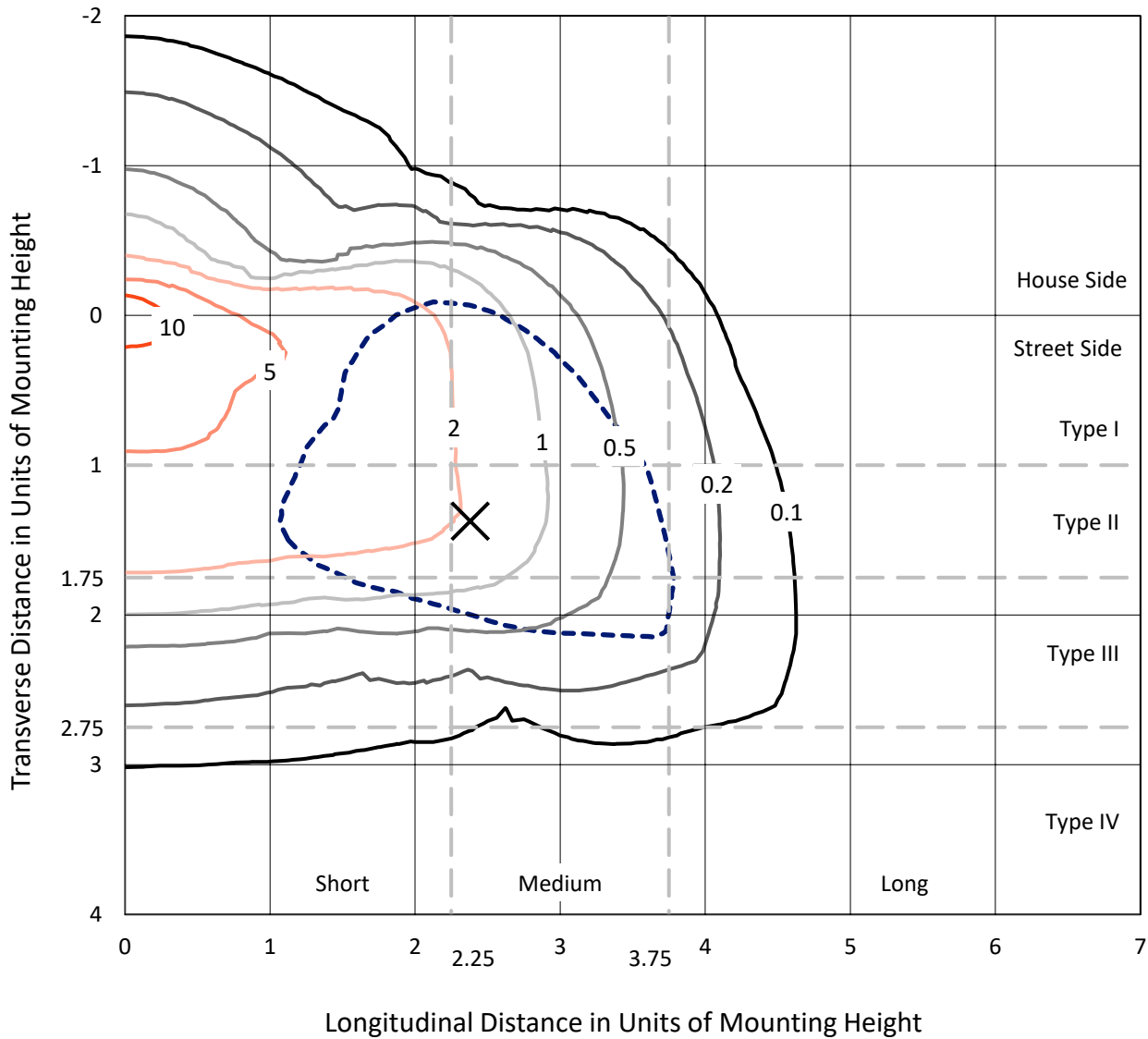
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

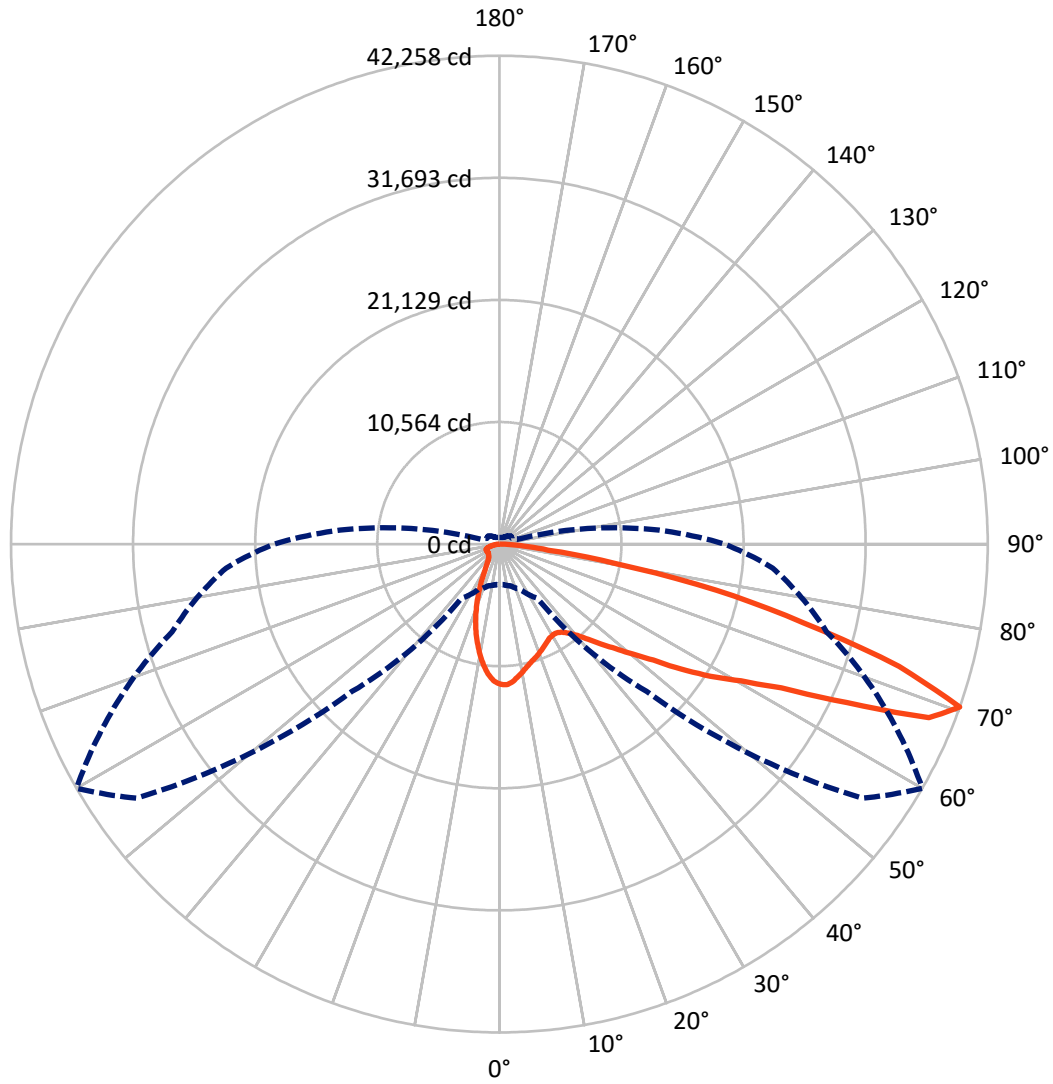
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7501.3	0.0	7501.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	36359.9	0.0	36359.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	43861.2	0.0	43861.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1046.1	2.4
10°-20°	2343.7	5.3
20°-30°	3001.5	6.8
30°-40°	3944.7	9.0
40°-50°	5723.2	13.0
50°-60°	8929.5	20.4
60°-70°	11690.5	26.7
70°-80°	6464.5	14.7
80°-90°	717.4	1.6
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°	43861.2	100.0
0°-180°	43861.2	100.0

Coefficient of Utilization



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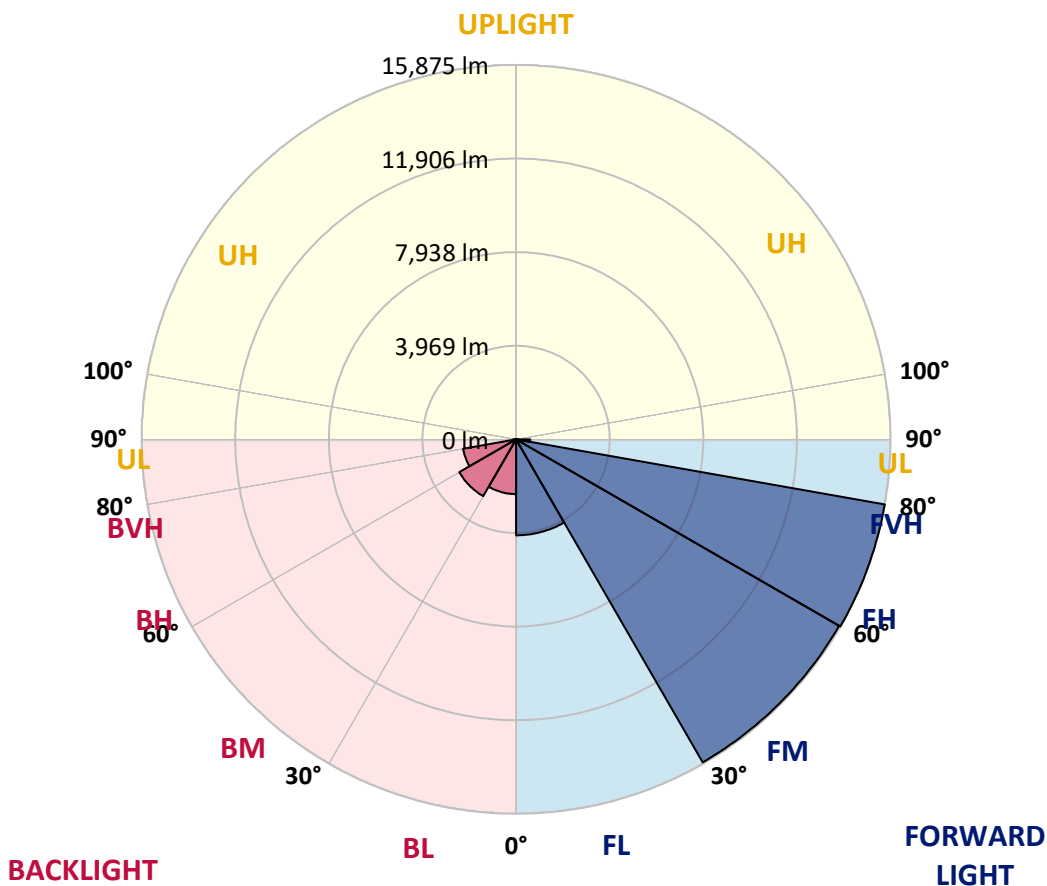
CATALOG NUMBER: GWS-SA6E-740-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4070.6	9.3			
FM (30°-60°)	15816.2	36.1			
FH (60°-80°)	15875.3	36.2			G5
FVH (80°-90°)	597.8	1.4			G4/750
BL (0°-30°)	2320.8	5.3	B3/2500		
BM (30°-60°)	2781.2	6.3	B3/5000		
BH (60°-80°)	2279.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	119.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0
2.5°	11966.9	11979.7	12015.0	12066.4	12117.7	12143.4	12207.6	12188.3	12175.5	12149.8	12117.7
5°	11437.4	11463.0	11495.1	11594.6	11706.9	11796.8	11941.2	11957.2	11963.7	11976.5	11925.2
7.5°	10763.5	10769.9	10846.9	10978.5	11126.1	11280.1	11520.8	11588.2	11646.0	11710.1	11668.4
10°	10018.9	10035.0	10092.7	10282.1	10535.6	10763.5	11087.6	11199.9	11321.8	11463.0	11405.3
12.5°	9409.2	9412.4	9505.5	9707.6	9983.6	10291.7	10696.1	10830.8	10991.3	11212.7	11161.4
15°	8924.6	8924.6	9011.3	9184.6	9502.3	9864.9	10346.3	10519.6	10737.8	11036.2	10946.4
17.5°	8539.5	8542.7	8597.3	8780.2	9062.6	9463.7	10035.0	10269.2	10509.9	10904.7	10769.9
20°	8337.3	8321.3	8330.9	8443.2	8683.9	9072.2	9723.7	9996.5	10320.6	10814.8	10609.4
22.5°	8327.7	8298.8	8257.1	8266.7	8407.9	8728.9	9389.9	9720.5	10128.0	10741.0	10445.7
25°	8491.4	8459.3	8385.5	8302.0	8289.2	8481.8	9075.4	9450.9	9929.1	10708.9	10288.5
27.5°	8767.4	8744.9	8648.6	8523.5	8391.9	8385.5	8838.0	9229.5	9784.7	10741.0	10176.2
30°	9133.2	9094.7	9033.7	8873.3	8674.3	8468.9	8744.9	9110.7	9688.4	10843.7	10128.0
32.5°	9547.2	9524.7	9467.0	9306.5	9094.7	8767.4	8818.7	9136.4	9688.4	11023.4	10137.7
35°	9986.8	9983.6	9983.6	9877.7	9643.5	9235.9	9110.7	9354.6	9836.0	11312.2	10240.4
37.5°	10413.7	10410.4	10513.1	10551.6	10285.3	9845.6	9608.2	9791.1	10160.1	11739.0	10493.9
40°	10760.2	10773.1	10997.7	11190.3	11042.6	10635.1	10301.3	10394.4	10686.4	12345.6	10936.7
42.5°	11110.0	11145.3	11482.3	11822.5	11880.2	11527.2	11190.3	11244.8	11440.6	13147.8	11597.8
45°	11491.9	11508.0	11979.7	12454.7	12733.9	12525.3	12249.3	12323.1	12368.0	14139.5	12583.0
47.5°	11861.0	11902.7	12512.4	13163.9	13693.4	13674.1	13520.1	13497.6	13507.3	15346.1	13747.9
50°	12364.8	12425.8	13141.4	13927.7	14704.3	15060.5	15105.4	14935.3	14864.7	16687.5	15198.5
52.5°	13321.1	13321.1	13963.0	14736.4	15779.3	16661.8	16963.5	16684.3	16459.7	18106.0	16738.9
55°	14518.1	14569.5	15079.7	15705.5	17027.7	18346.6	19367.2	19059.1	18423.7	19649.6	18353.1
57.5°	15050.9	15115.0	15923.7	16896.1	18661.1	20262.5	21677.7	21568.6	20641.2	21254.1	20028.2
60°	14088.1	14222.9	15336.5	16966.7	20140.6	23352.9	24350.9	24033.2	22707.9	22938.9	21844.6
62.5°	11751.9	11899.5	13135.0	15410.3	19935.2	26693.6	28564.5	27393.2	25288.0	25066.6	24264.3
65°	7012.0	7005.5	8491.4	11508.0	17403.2	27621.1	35233.1	33047.7	29273.8	27986.9	26754.6
67.5°	4457.5	4447.9	4759.2	6097.4	11581.8	25349.0	39520.5	40088.6	34687.6	30133.8	26960.0
70°	3517.2	3514.0	3738.6	4348.4	5728.3	18038.6	38326.7	42257.9	37957.7	29315.5	23738.0
72.5°	2564.1	2570.5	2917.1	3642.4	4419.0	9056.2	31035.6	36157.4	34912.2	25878.5	19270.9
75°	1842.0	1851.7	2060.3	2788.7	4075.6	4951.7	20638.0	27187.8	26562.0	20743.9	13257.0
77.5°	1171.3	1184.2	1367.1	1954.4	3292.6	3998.6	12512.4	19193.9	17672.7	11687.7	4714.2
80°	715.6	757.4	911.4	1456.9	2631.5	3000.5	6254.6	10112.0	8850.8	3205.9	1585.3
82.5°	369.1	401.1	548.8	901.8	1813.2	2634.7	3539.7	4248.9	2740.6	1341.4	844.0
85°	115.5	134.8	192.5	365.8	863.3	1633.5	2342.7	2111.6	1258.0	632.2	391.5
87.5°	28.9	28.9	32.1	32.1	35.3	73.8	452.5	478.2	333.8	199.0	160.5
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°	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0	12137.0
2.5°	12053.5	11976.5	11944.4	11941.2	11861.0	11745.4	11668.4	11613.9	11581.8	11575.4	11575.4
5°	11838.5	11739.0	11607.5	11508.0	11293.0	11074.7	10891.8	10789.1	10670.4	10654.3	10651.1
7.5°	11552.9	11408.5	11158.2	10879.0	10503.5	10140.9	9832.8	9624.2	9415.6	9377.1	9364.3
10°	11244.8	11049.1	10622.2	10131.3	9569.7	9027.3	8555.6	8186.5	7942.6	7769.3	7737.2
12.5°	10940.0	10680.0	10054.2	9322.5	8552.4	7811.0	7101.8	6498.5	6062.1	5808.5	5763.6
15°	10654.3	10291.7	9434.9	8501.0	7499.8	6485.7	5481.2	4698.2	4085.2	3867.0	3815.7
17.5°	10394.4	9941.9	8834.8	7650.6	6402.2	5076.9	3934.4	3238.0	2878.6	2769.5	2743.8
20°	10134.5	9582.5	8225.0	6755.2	5237.3	3751.5	2875.4	2548.1	2413.3	2371.6	2358.7
22.5°	9855.3	9187.8	7560.7	5872.7	4059.6	2808.0	2352.3	2207.9	2166.2	2169.4	2166.2
25°	9576.1	8786.6	6864.3	4913.2	3023.0	2278.5	2053.8	1999.3	2008.9	2037.8	2044.2
27.5°	9345.0	8430.4	6180.8	3860.6	2361.9	1960.8	1854.9	1851.7	1887.0	1925.5	1931.9
30°	9178.1	8112.7	5506.9	2968.5	1944.7	1742.6	1700.8	1720.1	1761.8	1790.7	1800.3
32.5°	9059.4	7839.9	4788.0	2333.0	1704.1	1588.5	1569.3	1588.5	1614.2	1643.1	1649.5
35°	9017.7	7641.0	4082.0	1903.0	1540.4	1476.2	1463.4	1473.0	1485.8	1501.9	1508.3
37.5°	9110.7	7541.5	3343.9	1655.9	1440.9	1402.4	1383.1	1376.7	1379.9	1386.3	1389.6
40°	9386.7	7586.4	2740.6	1511.5	1376.7	1341.4	1309.3	1296.5	1293.3	1299.7	1296.5
42.5°	9861.7	7775.7	2304.2	1428.1	1325.4	1274.0	1238.7	1225.9	1225.9	1241.9	1241.9
45°	10558.1	8148.0	1989.7	1367.1	1280.4	1216.3	1177.8	1171.3	1184.2	1209.8	1213.1
47.5°	11578.6	8693.6	1800.3	1322.2	1238.7	1164.9	1126.4	1123.2	1148.9	1190.6	1193.8
50°	12788.4	9479.8	1697.6	1290.1	1209.8	1123.2	1084.7	1087.9	1116.8	1161.7	1171.3
52.5°	14245.4	10551.6	1704.1	1277.2	1193.8	1097.5	1059.0	1052.6	1081.5	1126.4	1136.0
55°	15750.5	11854.6	1829.2	1280.4	1171.3	1084.7	1033.3	1010.9	1036.6	1068.6	1071.9
57.5°	17406.4	13324.3	2140.5	1274.0	1142.5	1071.9	1010.9	959.5	975.6	994.8	1004.5
60°	19274.1	15054.1	2811.2	1286.9	1129.6	1043.0	966.0	898.6	895.3	908.2	911.4
62.5°	21770.8	17406.4	3565.4	1309.3	1158.5	1007.7	898.6	828.0	815.1	821.5	824.7
65°	23680.2	18529.6	3327.9	1290.1	1219.5	982.0	834.4	760.6	734.9	728.5	728.5
67.5°	22903.6	17043.7	2317.0	1238.7	1248.4	985.2	783.0	690.0	657.9	641.8	638.6
70°	19489.1	13844.2	1611.0	1187.4	1216.3	978.8	728.5	632.2	590.5	568.0	564.8
72.5°	15397.4	10570.9	1302.9	1084.7	1103.9	882.5	648.2	568.0	532.7	503.8	503.8
75°	9909.8	6450.4	1087.9	966.0	901.8	686.8	561.6	507.0	471.7	442.9	442.9
77.5°	3334.3	2394.0	844.0	818.3	673.9	516.7	471.7	436.4	407.6	381.9	378.7
80°	1354.3	1136.0	619.4	619.4	471.7	394.7	369.1	353.0	333.8	301.7	301.7
82.5°	786.2	690.0	433.2	375.5	314.5	272.8	256.7	240.7	240.7	218.2	218.2
85°	378.7	381.9	259.9	231.1	179.7	157.2	150.8	141.2	138.0	125.2	121.9
87.5°	205.4	208.6	131.6	102.7	70.6	61.0	51.3	48.1	44.9	41.7	41.7
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)