

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: P643340

Luminaire Tested: GWS-SA6E-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28325.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

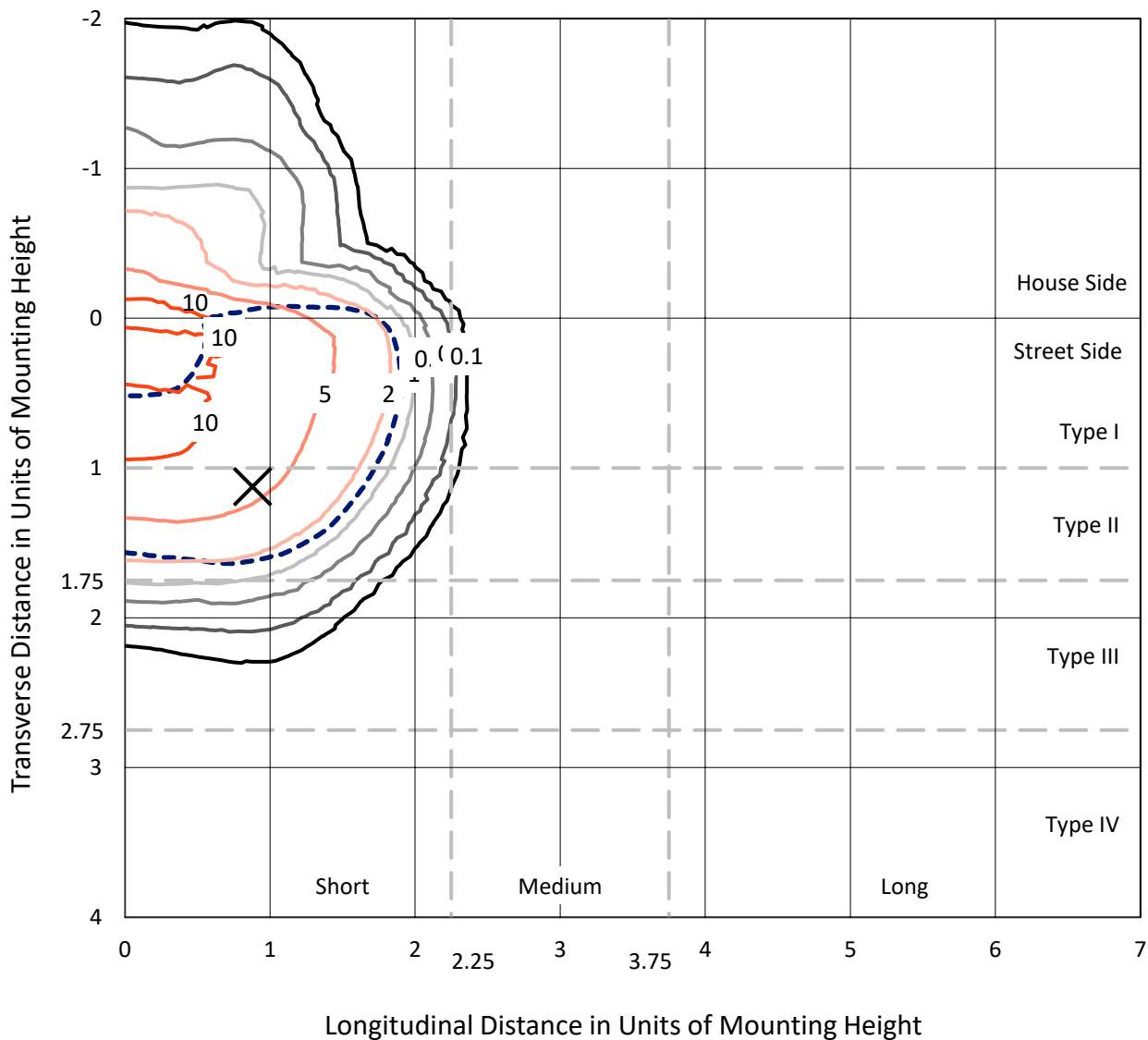
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

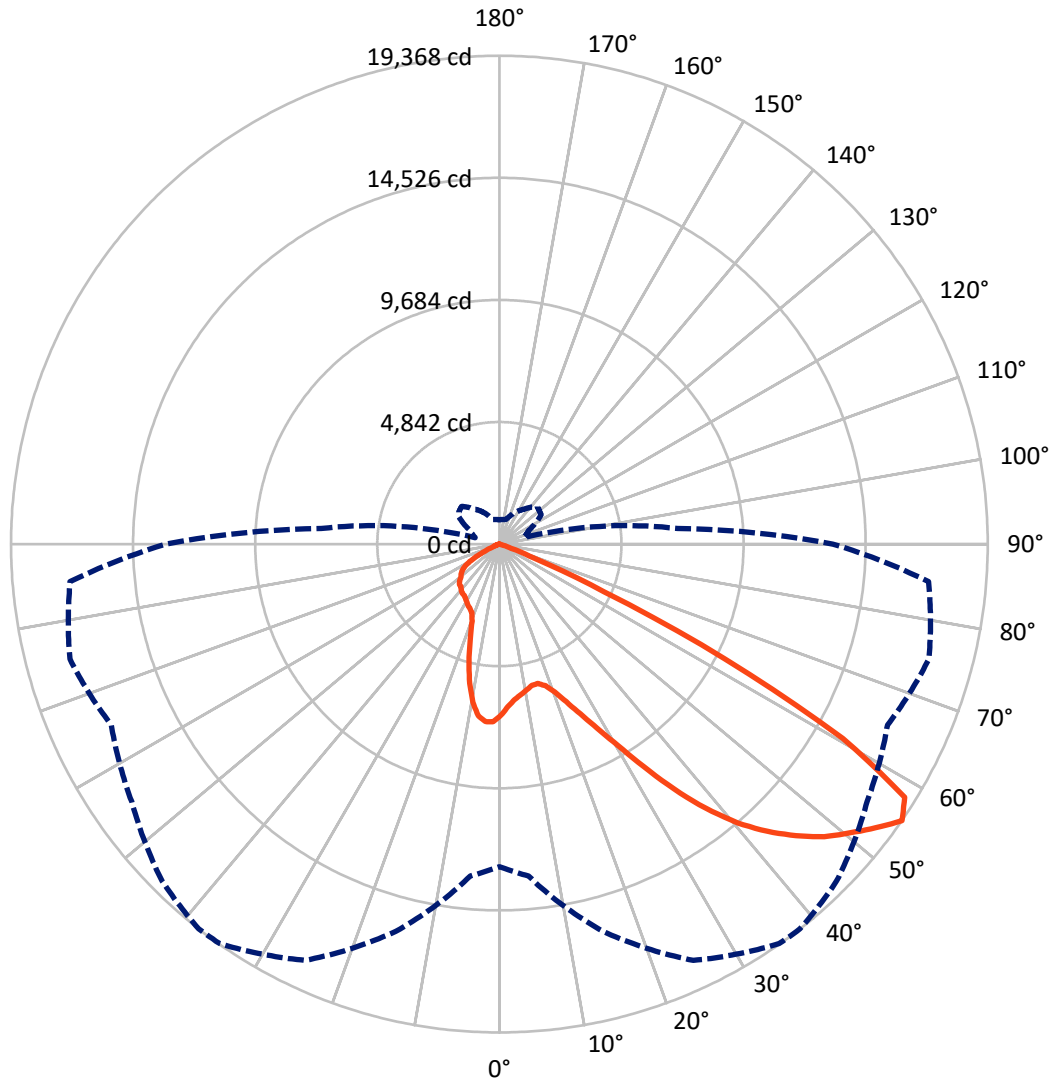
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA6E-760-U-T3R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5518.7	0.0	5518.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22807.0	0.0	22807.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	28325.7	0.0	28325.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.1	2.2
10°-20°	1690.9	6.0
20°-30°	2901.6	10.2
30°-40°	4812.5	17.0
40°-50°	7074.6	25.0
50°-60°	8266.9	29.2
60°-70°	2802.2	9.9
70°-80°	143.3	0.5
80°-90°	5.6	0.0
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°	28325.7	100.0
0°-180°	28325.7	100.0

Coefficient of Utilization



REPORT NUMBER: P643340

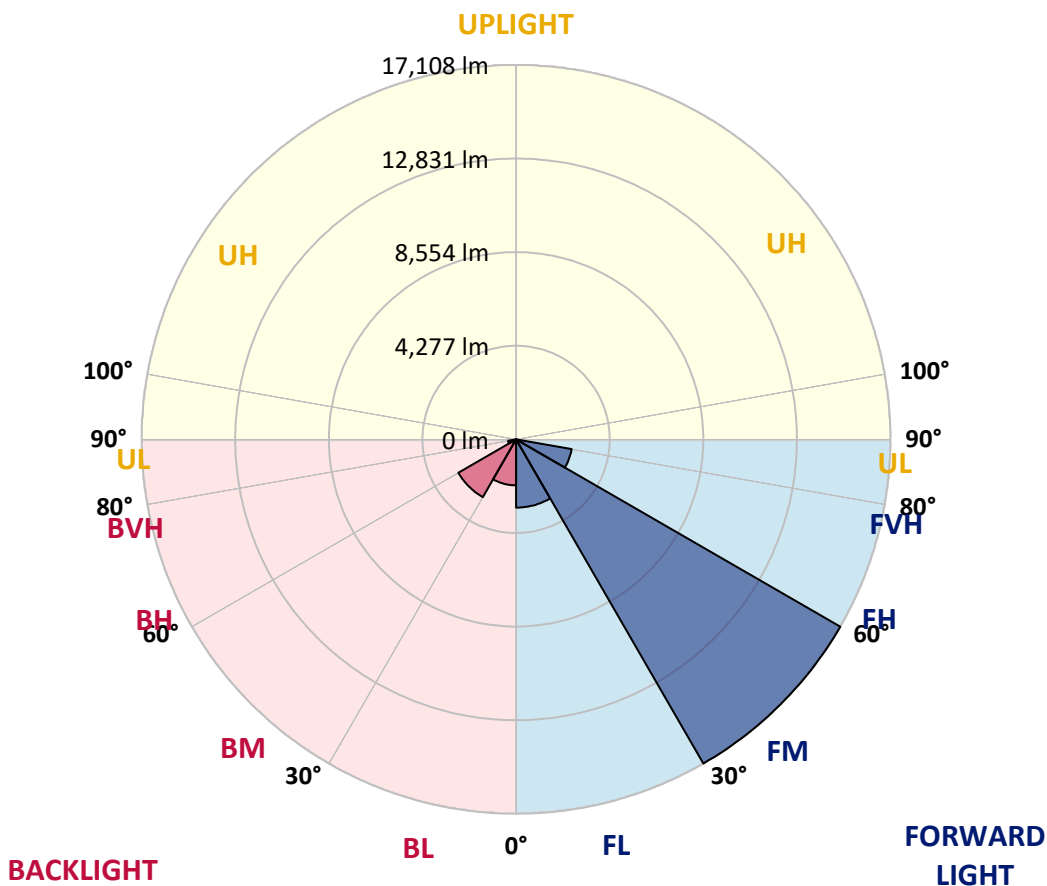
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.0	11.0			
FM (30°-60°)	17107.9	60.4			
FH (60°-80°)	2578.1	9.1			G2/5000
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	2102.6	7.4	B3/2500		
BM (30°-60°)	3046.1	10.8	B3/5000		
BH (60°-80°)	367.4	1.3	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P643340

CATALOG NUMBER: GWS-SA6E-760-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7
2.5°	6326.5	6313.5	6339.4	6391.2	6439.8	6456.0	6504.6	6572.6	6614.6	6715.0	6796.0
5°	6041.6	6035.1	6061.0	6106.3	6171.1	6193.7	6268.2	6381.5	6494.9	6669.7	6841.3
7.5°	5782.6	5779.3	5818.2	5918.5	6012.4	6041.6	6132.2	6271.4	6423.6	6692.4	6944.9
10°	5442.6	5445.8	5520.3	5662.8	5834.4	5892.6	6038.3	6239.1	6436.6	6783.0	7132.7
12.5°	5332.5	5339.0	5377.8	5487.9	5675.7	5750.2	5954.2	6258.5	6511.0	6912.5	7375.5
15°	5601.2	5601.2	5568.9	5581.8	5666.0	5734.0	5947.7	6323.3	6637.3	7067.9	7615.1
17.5°	6122.5	6103.1	6022.1	5912.1	5882.9	5905.6	6077.2	6462.5	6815.4	7249.2	7887.1
20°	6828.3	6834.8	6676.2	6446.3	6261.7	6258.5	6362.1	6708.5	7071.2	7466.2	8181.7
22.5°	7683.1	7657.2	7446.7	7132.7	6812.1	6786.2	6828.3	7084.1	7440.3	7809.4	8544.3
25°	8673.8	8660.9	8363.0	7942.1	7518.0	7456.5	7456.5	7709.0	7968.0	8298.3	8978.2
27.5°	9709.9	9709.9	9421.7	8936.1	8372.7	8262.6	8246.5	8544.3	8715.9	8780.7	9344.0
30°	10775.1	10762.2	10477.2	9978.6	9376.4	9263.1	9217.8	9437.9	9561.0	9366.7	9800.6
32.5°	11856.5	11879.2	11591.0	11128.0	10590.6	10516.1	10376.9	10376.9	10477.2	10205.3	10519.3
35°	13018.8	13012.4	12785.7	12471.7	12011.9	11927.7	11697.9	11338.5	11490.6	11370.8	11513.3
37.5°	14045.2	14093.8	13983.7	13750.6	13378.2	13294.0	12915.2	12264.5	12381.0	12568.8	12695.1
40°	15087.7	15126.6	15236.7	15162.2	14692.7	14537.3	13863.9	12795.4	12924.9	13569.3	13931.9
42.5°	16110.9	16130.3	16353.7	16476.7	15848.6	15576.6	14582.7	13119.2	13255.2	14352.8	14987.4
45°	16761.6	16803.7	17172.8	17548.4	16868.5	16496.1	15207.5	13533.6	13591.9	14896.7	15767.7
47.5°	16735.7	16832.9	17525.7	18208.9	17745.9	17344.4	15958.7	14197.4	14100.2	15408.3	16282.5
50°	16214.5	16331.0	17325.0	18409.6	18377.3	18004.9	16794.0	15159.0	14854.6	15861.6	16347.2
52.5°	15133.1	15469.8	16972.1	18435.5	18885.6	18697.8	17826.8	16454.1	15874.5	16512.3	16450.8
55°	12795.4	13209.9	15900.4	18215.4	19345.3	19368.0	18911.5	17804.2	16981.8	17632.6	17088.6
57.5°	9713.1	10043.4	12238.6	16214.5	18584.5	18956.8	19332.4	18516.5	17665.0	18396.7	17237.6
60°	5853.8	6235.8	7663.7	11898.6	15010.0	15644.6	17117.8	16959.1	15932.8	16246.8	14135.9
62.5°	2373.2	2574.0	3538.8	6556.4	9447.6	10040.1	11451.8	11691.4	11438.8	11118.3	8573.5
65°	867.7	948.6	1418.1	2710.0	4345.0	4561.9	5306.6	5730.8	6080.4	5177.1	3189.1
67.5°	537.5	589.3	922.7	1392.2	1580.0	1469.9	1495.8	1784.0	1703.0	1052.3	569.8
70°	398.2	440.3	722.0	964.8	637.8	492.1	333.5	356.1	320.5	281.7	278.4
72.5°	275.2	314.1	540.7	569.8	246.1	174.8	123.0	171.6	194.3	191.0	197.5
75°	181.3	210.5	340.0	223.4	61.5	48.6	42.1	90.7	116.6	116.6	119.8
77.5°	106.8	123.0	119.8	45.3	13.0	13.0	9.7	16.2	25.9	29.1	35.6
80°	13.0	9.7	6.5	6.5	6.5	6.5	6.5	6.5	9.7	9.7	9.7
82.5°	3.2	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5	9.7	9.7
85°	0.0	0.0	3.2	3.2	6.5	6.5	6.5	6.5	6.5	9.7	9.7
87.5°	0.0	0.0	3.2	3.2	6.5	6.5	6.5	6.5	6.5	9.7	9.7
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°	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7	6792.7
2.5°	6857.5	6834.8	6928.7	6996.7	7051.7	7077.6	7042.0	7038.8	7038.8	6967.6	6948.1
5°	6938.4	6948.1	7080.9	7139.2	7148.9	7116.5	7035.5	6980.5	6948.1	6873.7	6831.6
7.5°	7093.8	7126.2	7252.5	7242.8	7155.3	7006.4	6792.7	6627.6	6520.8	6404.2	6333.0
10°	7317.2	7378.7	7456.5	7320.5	7042.0	6663.2	6222.9	5908.8	5721.0	5588.3	5507.3
12.5°	7589.2	7650.7	7624.8	7304.3	6724.7	6048.0	5481.4	5028.2	4811.2	4691.4	4607.3
15°	7864.4	7903.3	7734.9	7110.0	6164.6	5254.8	4623.5	4173.4	3907.9	3810.8	3739.6
17.5°	8146.1	8136.4	7754.3	6728.0	5416.7	4361.2	3739.6	3432.0	3357.5	3341.3	3334.8
20°	8440.7	8353.3	7676.6	6180.8	4516.6	3477.3	3124.4	3143.8	3279.8	3344.6	3357.5
22.5°	8777.4	8557.3	7482.4	5439.4	3597.1	2897.8	2933.4	3124.4	3308.9	3396.4	3409.3
25°	9136.8	8745.1	7158.6	4487.5	2836.2	2664.6	2875.1	3095.3	3292.8	3399.6	3412.5
27.5°	9373.2	8790.4	6627.6	3529.1	2434.8	2574.0	2797.4	3007.8	3211.8	3328.4	3344.6
30°	9629.0	8771.0	5905.6	2719.7	2298.8	2496.3	2690.5	2881.6	3069.4	3198.9	3211.8
32.5°	10004.5	8758.0	5024.9	2208.1	2243.7	2434.8	2577.2	2735.9	2865.4	2939.8	2930.1
35°	10496.7	8741.8	3998.6	1991.2	2211.4	2386.2	2499.5	2574.0	2431.5	2386.2	2395.9
37.5°	11128.0	8780.7	3134.1	1900.5	2201.6	2373.2	2470.4	2256.7	2036.5	1952.3	1939.4
40°	11827.4	8881.0	2389.4	1864.9	2234.0	2405.6	2360.3	2007.4	1735.4	1570.3	1534.7
42.5°	12529.9	8991.1	1890.8	1852.0	2289.1	2496.3	2179.0	1826.1	1418.1	1324.2	1311.3
45°	13051.2	8971.7	1635.0	1829.3	2337.6	2548.1	2130.4	1567.1	1265.9	1223.9	1227.1
47.5°	13313.5	8758.0	1495.8	1777.5	2357.1	2496.3	2010.6	1460.2	1162.3	1207.7	1246.5
50°	13174.3	8204.4	1366.3	1677.1	2315.0	2428.3	1819.6	1379.3	1110.5	1298.3	1385.7
52.5°	13005.9	7524.4	1223.9	1521.7	2214.6	2334.4	1745.1	1356.6	1078.2	1253.0	1317.7
55°	13229.3	7093.8	990.7	1282.1	2017.1	2114.2	1686.8	1353.4	1003.7	974.6	964.8
57.5°	12915.2	6235.8	709.1	922.7	1547.6	1673.9	1644.8	1330.7	890.4	887.1	900.1
60°	9981.9	3804.3	485.7	586.0	948.6	1068.4	1492.6	1272.4	767.3	705.8	709.1
62.5°	5672.5	1618.9	333.5	362.6	485.7	576.3	1139.7	1155.9	709.1	673.4	709.1
65°	1975.0	579.6	259.0	242.8	268.7	307.6	654.0	893.6	644.3	582.8	589.3
67.5°	408.0	288.2	229.9	200.7	200.7	200.7	333.5	556.9	531.0	463.0	469.5
70°	259.0	246.1	200.7	171.6	165.1	152.2	191.0	307.6	365.9	336.7	340.0
72.5°	191.0	187.8	158.6	139.2	123.0	110.1	119.8	152.2	187.8	194.3	197.5
75°	116.6	119.8	103.6	87.4	77.7	68.0	71.2	71.2	71.2	64.8	71.2
77.5°	35.6	38.9	32.4	25.9	22.7	22.7	22.7	19.4	16.2	9.7	9.7
80°	9.7	9.7	9.7	9.7	9.7	6.5	6.5	3.2	3.2	0.0	0.0
82.5°	9.7	9.7	9.7	9.7	6.5	6.5	3.2	3.2	0.0	0.0	0.0
85°	9.7	9.7	9.7	9.7	6.5	6.5	3.2	3.2	0.0	0.0	0.0
87.5°	9.7	9.7	9.7	9.7	6.5	6.5	3.2	3.2	0.0	0.0	0.0
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)