

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: P641323

Luminaire Tested: GWS-SA5F-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38201.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 310.3
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

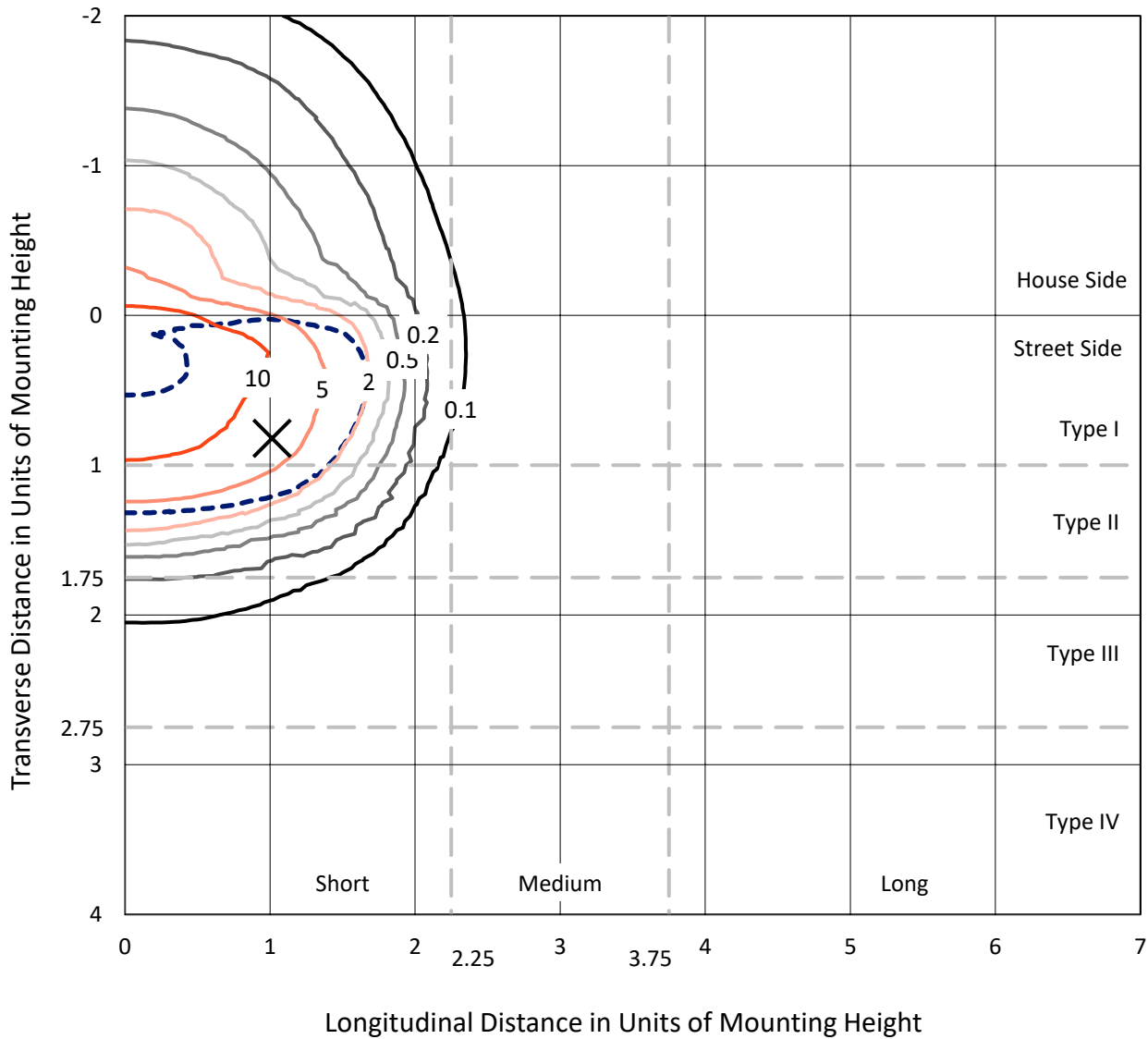


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Iso-Footcandle Lines of Horizontal Illumination

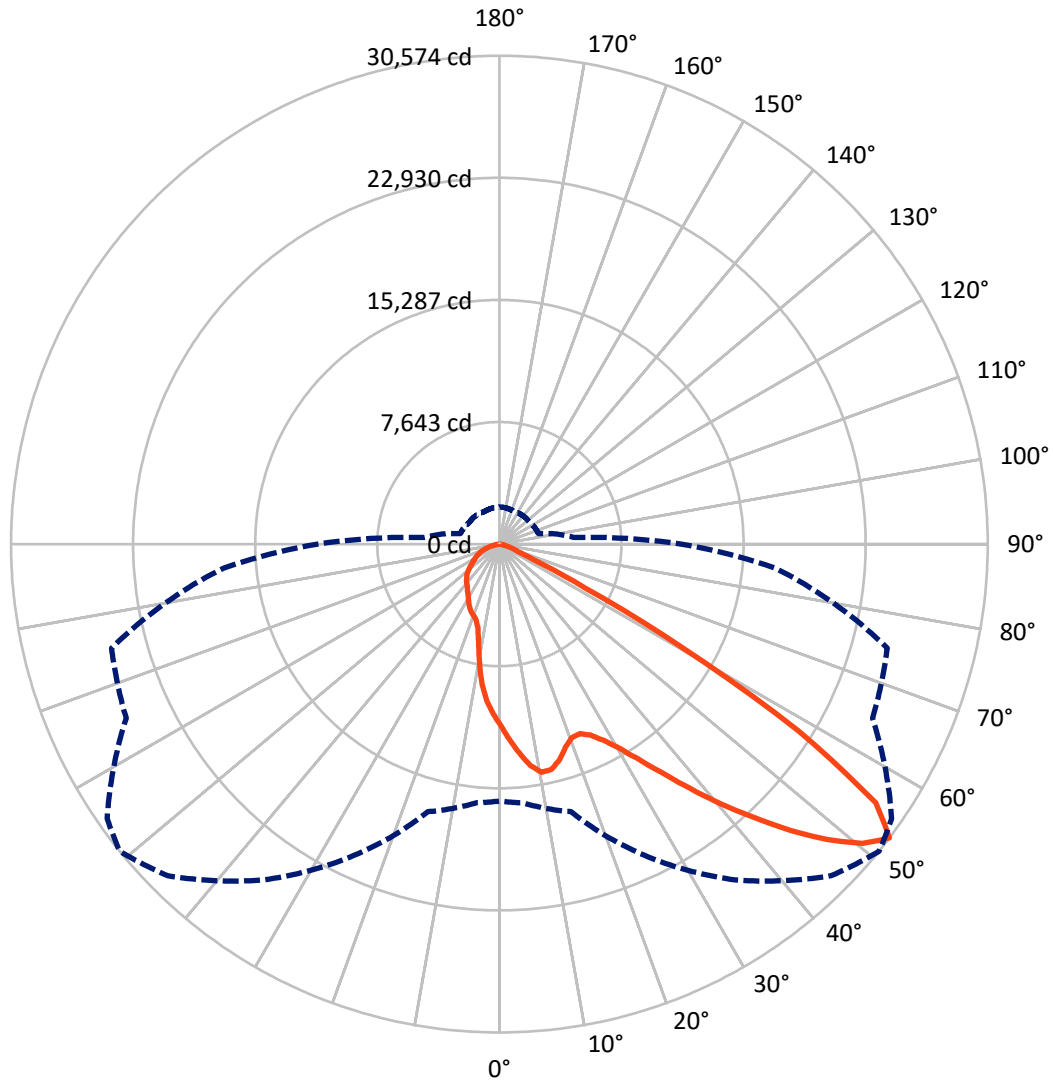
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7443.3	0.0	7443.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	30758.6	0.0	30758.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	38201.9	0.0	38201.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.4	2.8
10°-20°	2758.0	7.2
20°-30°	4484.2	11.7
30°-40°	7106.5	18.6
40°-50°	10718.1	28.1
50°-60°	9272.0	24.3
60°-70°	2102.0	5.5
70°-80°	619.8	1.6
80°-90°	79.8	0.2
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°	38201.9	100.0
0°-180°	38201.9	100.0

Coefficient of Utilization



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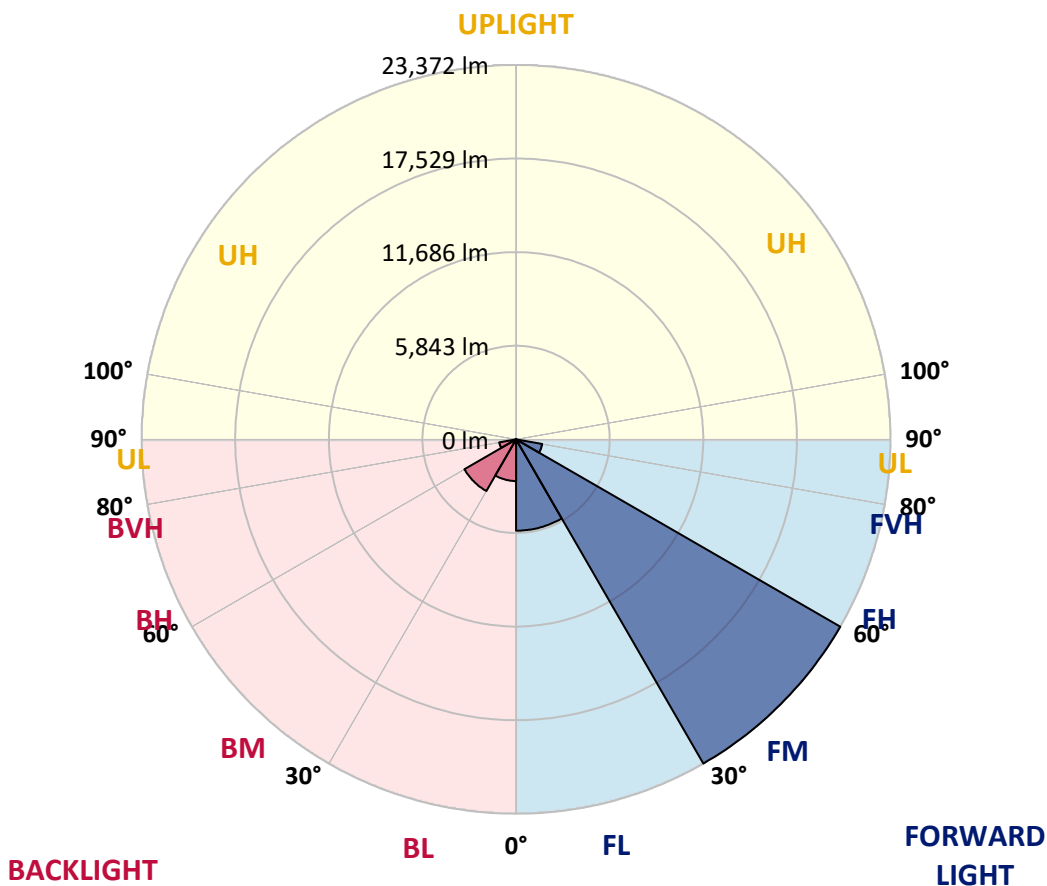
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5701.7	14.9			
FM (30°-60°)	23372.5	61.2			
FH (60°-80°)	1654.3	4.3			G1/1800
FVH (80°-90°)	30.1	0.1			G1/100
BL (0°-30°)	2601.9	6.8	B4/5000		
BM (30°-60°)	3724.1	9.7	B3/5000		
BH (60°-80°)	1067.6	2.8	B3/2500		G3/2500
BVH (80°-90°)	49.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6
2.5°	12675.7	12748.1	12636.4	12594.2	12524.8	12404.0	12265.1	12225.9	11927.0	11730.8	11510.5
5°	13949.6	13988.8	13898.3	13807.7	13635.6	13421.3	13152.6	13095.3	12551.9	12102.1	11634.2
7.5°	14233.4	14218.3	14296.8	14348.1	14326.9	14242.4	14003.9	13892.2	13243.2	12530.8	11839.5
10°	13110.4	13025.9	13315.7	13659.8	14073.4	14550.3	14523.2	14514.1	13949.6	13107.4	12102.1
12.5°	11622.1	11579.9	11815.3	12247.0	13028.9	14085.4	14480.9	14788.8	14586.6	13656.8	12394.9
15°	10770.9	10755.8	10915.8	11226.7	11848.6	13182.8	14028.1	14637.9	15132.9	14245.4	12705.9
17.5°	10616.9	10626.0	10680.3	10858.4	11305.2	12404.0	13382.1	14233.4	15558.6	14891.4	13095.3
20°	11066.7	11127.1	11033.5	11060.7	11302.2	12123.3	12941.3	13825.8	15830.3	15540.5	13514.9
22.5°	12065.9	12044.8	11839.5	11718.7	11721.8	12295.3	12893.0	13635.6	16008.4	16171.4	13895.3
25°	13197.9	13173.8	12929.3	12660.6	12491.5	12763.2	13240.2	13837.9	16168.4	16748.0	14200.2
27.5°	14535.2	14459.8	14188.1	13843.9	13469.6	13587.3	13910.4	14384.3	16415.9	17315.5	14402.4
30°	15830.3	15917.8	15528.4	15120.9	14725.4	14653.0	14840.1	15268.8	16920.0	17979.6	14643.9
32.5°	17547.9	17517.7	17086.1	16554.8	15990.3	15935.9	16083.8	16476.3	17825.7	18897.3	15012.2
35°	19627.8	19633.9	19021.1	18302.6	17499.6	17354.7	17602.3	17982.6	19175.0	20141.0	15594.8
37.5°	21789.3	21780.2	21245.9	20430.8	19335.0	19129.8	19413.5	19697.3	20862.5	21834.5	16500.4
40°	23304.7	23365.0	23114.5	22685.8	21647.4	21146.3	21396.8	21593.0	22697.9	23826.9	17692.8
42.5°	24165.0	24255.6	24309.9	24566.5	24020.1	23485.8	23395.2	23497.9	24337.1	25677.4	18812.8
45°	24349.2	24469.9	24865.4	25816.3	26027.6	25876.6	25580.8	25333.3	25559.7	26990.6	19546.3
47.5°	23537.1	23748.4	24593.7	26257.0	27491.7	27965.6	27636.6	27259.2	26266.1	27328.7	19470.9
50°	20319.1	20566.7	22471.5	25357.4	27700.0	29426.7	29456.9	28898.4	26181.5	26353.6	18523.0
52.5°	16086.9	16255.9	17345.7	21496.4	25656.3	29366.3	30573.8	29976.1	25774.0	25134.0	17336.6
55°	9614.7	9886.4	10903.7	14182.0	19987.1	26027.6	28599.5	28889.3	25574.8	24110.7	16527.6
57.5°	3245.1	3378.0	4350.0	6263.9	11779.1	19057.3	22097.2	23274.5	23217.1	22547.0	14948.8
60°	1545.6	1575.8	1772.0	2375.7	4715.3	9958.8	13080.2	14438.6	15676.3	15800.1	9300.7
62.5°	1177.3	1195.4	1295.0	1424.8	1895.8	4196.0	5995.2	7033.7	7513.6	6448.0	3387.0
65°	984.1	999.2	1074.7	1156.2	1289.0	1817.3	2300.3	2653.5	2390.8	1862.6	1615.0
67.5°	821.1	833.2	890.5	978.1	1068.6	1216.6	1276.9	1313.2	1376.5	1545.6	1485.2
70°	643.0	655.1	715.4	790.9	878.5	914.7	972.0	1008.3	1135.0	1352.4	1346.4
72.5°	495.1	510.2	543.4	591.7	664.1	700.3	763.7	806.0	878.5	1053.5	1126.0
75°	362.2	371.3	401.5	416.6	425.6	416.6	480.0	528.3	624.9	691.3	709.4
77.5°	147.9	166.0	160.0	160.0	190.2	229.4	262.6	292.8	359.2	398.5	401.5
80°	60.4	66.4	78.5	87.5	105.7	135.8	157.0	169.0	199.2	223.4	241.5
82.5°	36.2	39.2	45.3	48.3	60.4	78.5	90.6	99.6	123.8	147.9	157.0
85°	18.1	18.1	21.1	24.1	30.2	36.2	42.3	48.3	63.4	78.5	87.5
87.5°	3.0	3.0	3.0	6.0	9.1	12.1	15.1	18.1	21.1	24.1	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°	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6	11374.6
2.5°	11380.6	11217.6	11027.5	10876.5	10701.4	10571.6	10387.5	10272.8	10164.1	10073.5	10007.1
5°	11392.7	11118.0	10722.6	10372.4	10010.1	9666.0	9312.8	9026.0	8769.4	8555.1	8537.0
7.5°	11462.2	11066.7	10447.9	9835.1	9128.7	8446.4	7764.2	7208.8	6786.1	6565.8	6520.5
10°	11579.9	11060.7	10167.1	9189.0	7984.6	6885.7	6076.7	5654.1	5409.6	5322.0	5291.9
12.5°	11703.7	11045.6	9807.9	8277.4	6605.0	5642.0	5198.3	5147.0	5192.2	5198.3	5195.3
15°	11854.6	11036.5	9355.1	7208.8	5596.7	5065.4	5095.6	5204.3	5310.0	5334.1	5334.1
17.5°	12038.7	11015.4	8739.3	6164.3	4965.8	4953.8	5113.7	5258.6	5358.3	5376.4	5376.4
20°	12231.9	10961.0	7981.5	5313.0	4709.2	4884.3	5056.4	5168.1	5237.5	5261.7	5264.7
22.5°	12364.8	10816.1	7109.1	4682.1	4549.2	4751.5	4875.3	4990.0	4990.0	4929.6	4911.5
25°	12391.9	10505.2	6164.3	4250.4	4359.1	4546.2	4673.0	4606.6	4482.8	4434.5	4431.5
27.5°	12292.3	10052.4	5231.5	3942.5	4129.6	4316.8	4295.7	4199.1	4144.7	4096.4	4114.5
30°	12171.6	9509.0	4422.5	3688.9	3864.0	4048.1	3975.7	3942.5	3903.2	3848.9	3861.0
32.5°	12090.1	8902.3	3800.6	3492.7	3685.9	3716.1	3767.4	3764.4	3728.1	3625.5	3619.5
35°	12114.2	8289.5	3384.0	3332.7	3538.0	3525.9	3622.5	3604.4	3353.8	3211.9	3202.9
37.5°	12307.4	7700.8	3139.5	3205.9	3302.5	3378.0	3462.5	3245.1	3157.6	3067.0	3073.1
40°	12675.7	7154.4	3006.7	3136.5	3160.6	3272.3	3076.1	3073.1	3033.8	2952.3	2949.3
42.5°	13092.3	6692.5	2916.1	3103.3	3070.1	3091.2	2882.9	2907.0	2904.0	2852.7	2837.6
45°	13345.8	6266.9	2843.7	2979.5	2988.6	2777.2	2713.8	2741.0	2756.1	2728.9	2725.9
47.5°	13083.2	5777.9	2768.2	2789.3	2867.8	2635.4	2556.9	2559.9	2587.1	2590.1	2578.0
50°	12346.6	5231.5	2677.6	2626.3	2575.0	2487.4	2415.0	2399.9	2427.1	2454.2	2463.3
52.5°	11395.7	4709.2	2526.7	2448.2	2327.4	2327.4	2294.2	2245.9	2282.2	2318.4	2330.5
55°	10698.4	4322.8	2312.4	2224.8	2092.0	2137.3	2131.2	2089.0	2137.3	2164.4	2173.5
57.5°	9270.5	3474.6	2034.6	2007.5	1895.8	1950.1	1962.2	1907.8	1883.7	1889.7	1898.8
60°	5503.2	2242.9	1835.4	1832.4	1732.8	1796.2	1832.4	1778.0	1705.6	1714.6	1726.7
62.5°	2469.3	1714.6	1584.8	1572.8	1569.7	1651.3	1690.5	1639.2	1536.5	1545.6	1557.7
65°	1554.7	1482.2	1376.5	1376.5	1424.8	1494.3	1524.5	1482.2	1364.5	1349.4	1361.5
67.5°	1443.0	1379.6	1270.9	1249.8	1273.9	1331.3	1334.3	1252.8	1183.3	1171.3	1171.3
70°	1295.0	1246.7	1141.1	1098.8	1089.8	1086.7	1077.7	1056.6	1011.3	999.2	1005.2
72.5°	1071.7	1038.4	972.0	926.8	902.6	899.6	863.4	845.2	806.0	800.0	796.9
75°	709.4	718.5	718.5	712.4	691.3	682.2	643.0	624.9	579.6	561.5	558.5
77.5°	419.6	428.7	440.7	443.8	440.7	440.7	404.5	383.4	338.1	313.9	307.9
80°	256.6	262.6	268.7	277.7	265.6	256.6	223.4	202.3	181.1	166.0	163.0
82.5°	166.0	172.1	175.1	181.1	175.1	163.0	135.8	123.8	108.7	96.6	93.6
85°	93.6	96.6	102.6	102.6	93.6	84.5	69.4	60.4	51.3	45.3	45.3
87.5°	33.2	33.2	33.2	36.2	30.2	27.2	18.1	12.1	9.1	9.1	9.1
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)