

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: P641350

Luminaire Tested: GWS-SA5F-760-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

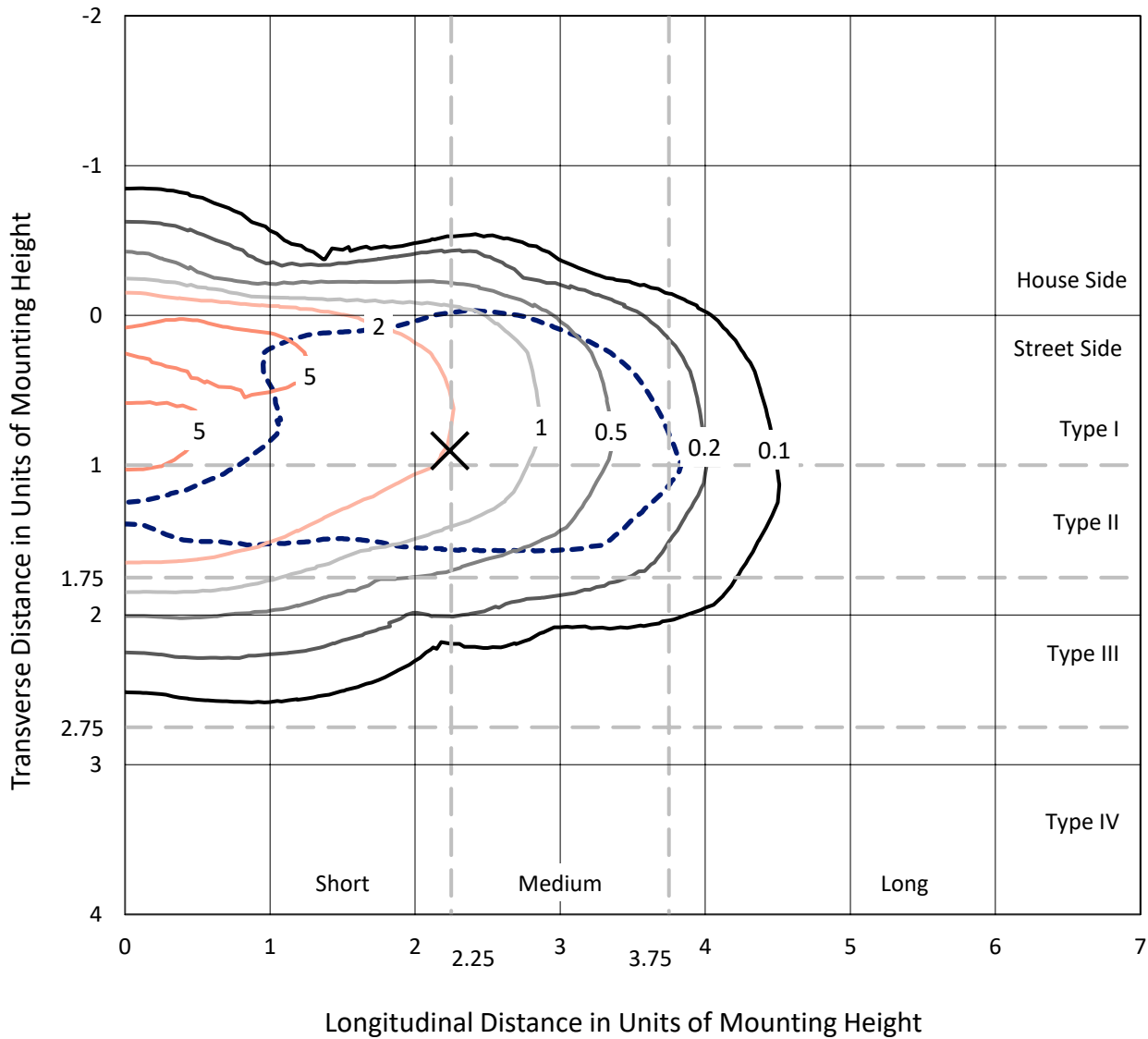
Lumens per Lamp: N/A  
Luminaire Lumens: 31542.6 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

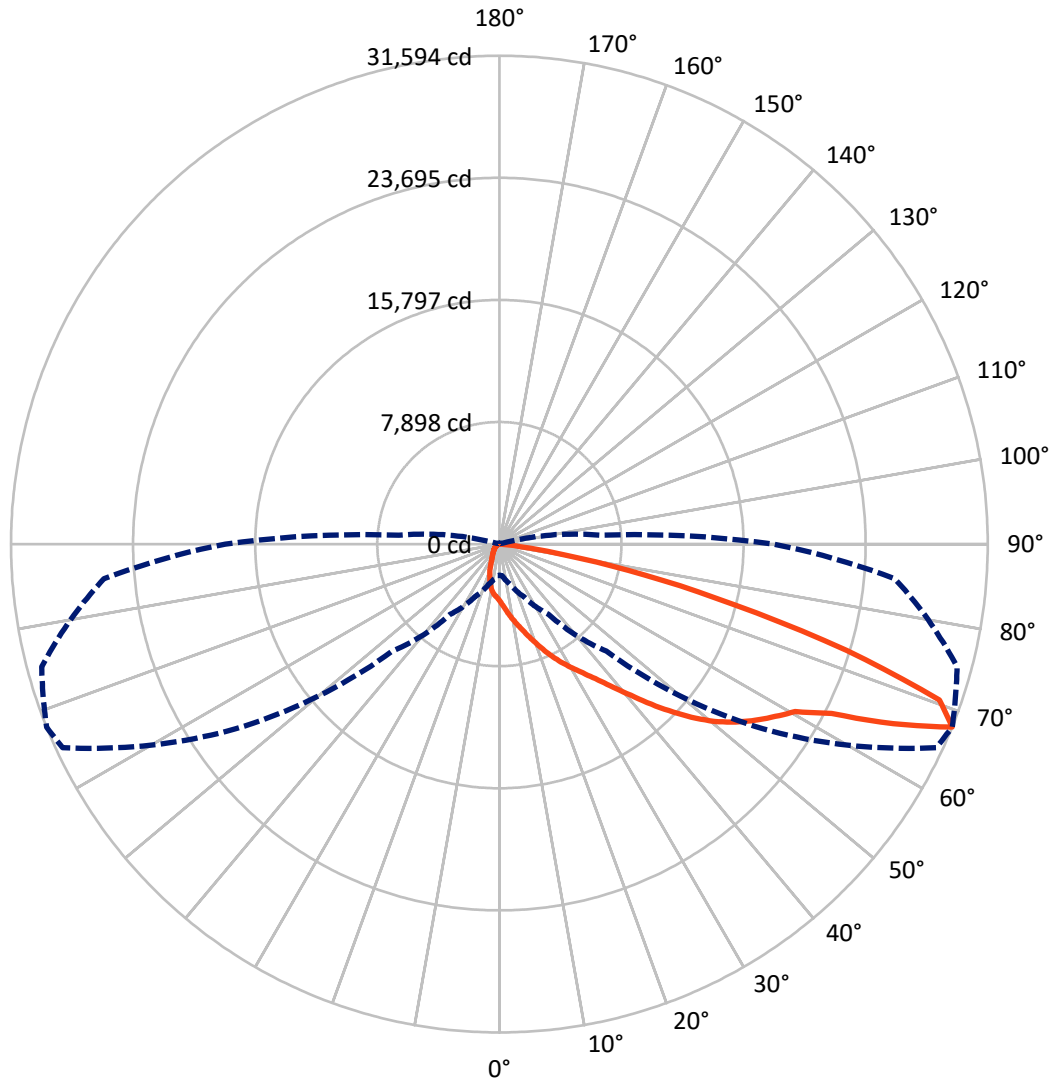
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2277.7	0.0	2277.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	29264.8	0.0	29264.8
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	31542.6	0.0	31542.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.0	1.1
10°-20°	1028.1	3.3
20°-30°	1766.8	5.6
30°-40°	3071.8	9.7
40°-50°	5359.9	17.0
50°-60°	8084.2	25.6
60°-70°	8106.3	25.7
70°-80°	3576.5	11.3
80°-90°	191.1	0.6
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°	31542.6	100.0
0°-180°	31542.6	100.0

**Coefficient of Utilization**



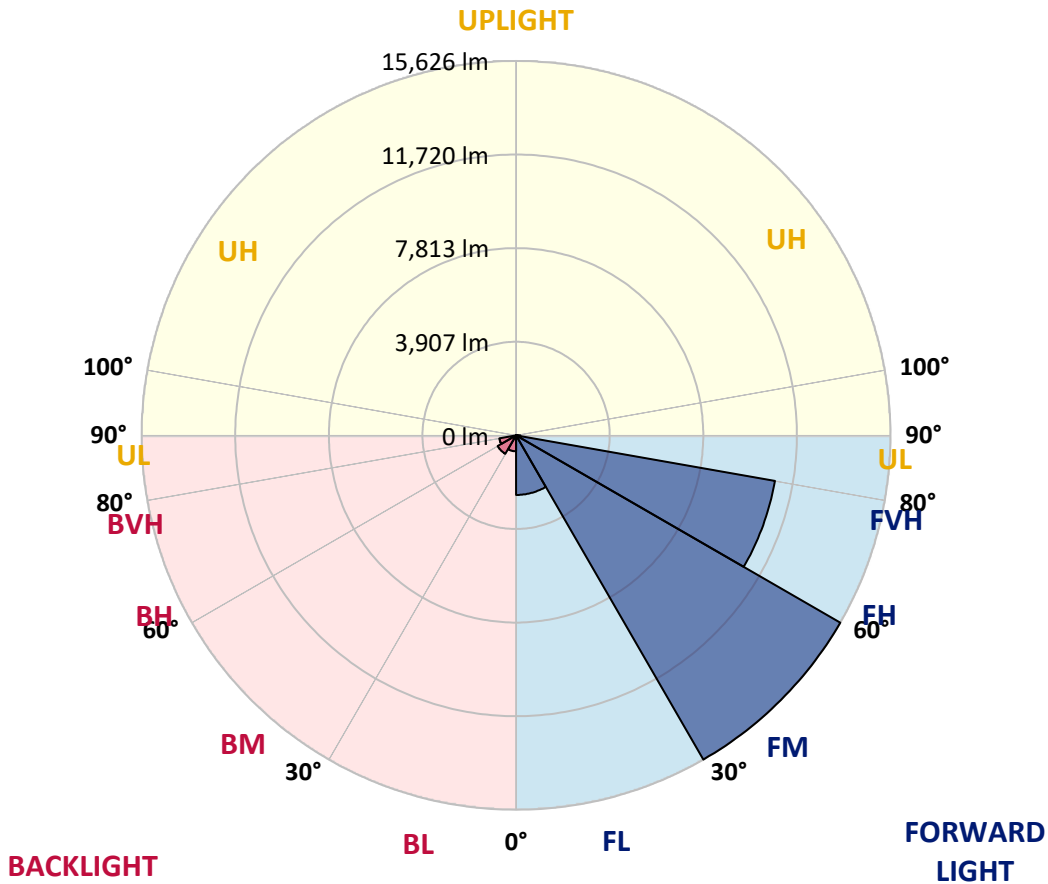
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.5	7.9			
FM (30°-60°)	15626.1	49.5			
FH (60°-80°)	10972.0	34.8			G4/12000
FVH (80°-90°)	180.3	0.6			G2/225
BL (0°-30°)	666.4	2.1	B2/1000		
BM (30°-60°)	889.7	2.8	B1/1000		
BH (60°-80°)	710.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8
2.5°	4274.5	4301.7	4274.5	4280.5	4202.1	4165.8	4087.3	3978.7	3951.5	3882.1	3776.4
5°	4796.7	4820.9	4793.7	4787.7	4697.1	4630.7	4500.9	4313.7	4259.4	4123.6	3915.3
7.5°	5080.5	5095.6	5104.6	5119.7	5086.5	5032.2	4914.5	4682.0	4624.7	4404.3	4111.5
10°	5110.7	5122.8	5168.0	5258.6	5325.0	5358.2	5291.8	5077.5	4986.9	4772.6	4353.0
12.5°	5026.2	5044.3	5116.7	5267.7	5451.8	5620.8	5663.1	5475.9	5394.4	5119.7	4636.7
15°	4914.5	4929.6	5029.2	5234.5	5512.2	5823.1	5998.2	5916.7	5826.1	5539.3	4950.7
17.5°	4742.4	4763.5	4902.4	5180.1	5539.3	5983.1	6360.4	6387.6	6324.2	6013.3	5297.8
20°	4645.8	4660.9	4784.7	5071.4	5521.2	6100.8	6698.5	6955.1	6885.7	6559.7	5696.3
22.5°	4727.3	4739.4	4820.9	5044.3	5460.9	6167.2	7012.5	7522.6	7483.4	7145.3	6115.9
25°	5156.0	5195.2	5146.9	5186.2	5488.0	6203.5	7266.0	8090.2	8099.2	7758.1	6550.6
27.5°	6025.4	5974.0	5859.3	5663.1	5699.3	6300.1	7483.4	8624.5	8703.0	8355.8	6937.0
30°	6909.8	6879.6	6810.2	6505.3	6251.8	6514.4	7667.5	9170.9	9294.6	8944.5	7281.1
32.5°	7903.0	7933.2	7809.4	7444.1	7012.5	6949.1	7857.7	9690.1	9922.5	9611.6	7685.6
35°	9089.3	9098.4	8853.9	8449.4	7960.3	7667.5	8198.8	10263.6	10692.3	10462.9	8226.0
37.5°	10245.5	10299.9	10167.0	9530.1	9095.4	8561.1	8763.3	11000.2	11603.9	11513.4	8905.2
40°	11268.9	11353.4	11311.1	10695.3	10124.8	9675.0	9638.8	11863.5	12705.8	12808.4	9801.8
42.5°	12083.9	12138.3	12171.5	11733.7	11229.6	10976.0	10719.5	12865.8	14006.8	14426.4	10900.6
45°	12944.2	12962.4	13031.8	12736.0	12295.2	12316.4	11996.4	14082.3	15377.3	16219.6	12162.4
47.5°	14040.0	14100.4	14067.2	13756.3	13357.8	13596.3	13315.5	15335.1	16729.7	18133.4	13454.4
50°	15374.3	15437.7	15407.5	15045.3	14601.5	14701.1	14526.1	16551.6	18033.8	19938.6	14529.1
52.5°	16062.6	16113.9	16488.2	16651.2	16418.8	15784.9	15558.5	17888.9	19135.6	21423.8	15516.2
55°	15730.5	15766.7	16581.8	17270.1	18121.3	17487.4	16596.9	18921.3	20107.7	22583.0	16249.7
57.5°	14354.0	14550.2	15658.1	16823.3	18613.4	19168.8	18281.3	20044.3	21043.5	23389.0	16971.2
60°	11531.5	11522.4	13110.3	15202.2	17653.4	19630.7	20660.1	21562.7	21982.3	24007.8	17937.2
62.5°	6372.5	6429.9	8543.0	11299.0	14984.9	18435.3	22444.1	24185.9	24122.5	25088.5	19449.6
65°	3172.7	3287.4	4434.5	6472.1	9970.8	15235.5	22752.0	28188.8	28007.6	27633.3	22573.9
67.5°	2013.5	2058.8	2692.7	3761.3	5542.4	9792.7	20835.2	31174.3	31593.9	30652.0	25674.2
70°	1304.1	1379.6	1871.6	2571.9	3344.7	5047.3	15262.6	29239.3	30202.2	30320.0	23742.2
72.5°	709.4	763.7	1195.4	1835.4	2415.0	2523.6	8573.1	21943.0	23491.6	25719.4	18574.1
75°	404.5	443.8	655.1	1246.7	1772.0	1536.5	3800.6	14689.1	15676.2	18381.0	13309.5
77.5°	244.5	277.7	368.3	606.8	1110.9	1026.4	1436.9	8941.4	9569.3	10967.0	6985.3
80°	111.7	132.8	232.4	335.1	606.8	486.0	549.4	4168.8	4304.7	4500.9	2312.3
82.5°	51.3	60.4	105.7	199.2	344.1	280.7	211.3	963.0	1355.4	1283.0	588.6
85°	6.0	6.0	39.2	81.5	96.6	72.4	87.5	217.3	274.7	386.4	169.0
87.5°	0.0	0.0	3.0	3.0	6.0	9.1	18.1	27.2	39.2	63.4	42.3
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°	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8	3670.8
2.5°	3728.1	3643.6	3568.1	3456.4	3381.0	3296.4	3239.1	3169.7	3142.5	3121.4	3091.2
5°	3812.6	3676.8	3492.7	3287.4	3118.3	2958.3	2810.4	2713.8	2629.3	2617.2	2575.0
7.5°	3951.5	3749.2	3438.3	3103.2	2816.5	2550.8	2342.5	2173.5	2089.0	2061.8	2013.5
10°	4135.6	3857.9	3356.8	2843.6	2430.1	2113.1	1877.6	1687.5	1554.6	1506.3	1470.1
12.5°	4340.9	3957.5	3227.0	2523.6	2052.7	1690.5	1391.6	1189.4	1104.8	1074.7	1047.5
15°	4576.4	4051.1	3021.7	2203.7	1684.4	1243.7	1032.4	944.9	908.6	899.6	890.5
17.5°	4802.8	4111.5	2777.2	1871.6	1295.0	966.0	866.4	833.2	824.1	815.1	809.0
20°	5059.4	4153.8	2490.4	1557.7	1005.2	818.1	769.8	745.6	727.5	709.4	706.4
22.5°	5322.0	4153.8	2179.5	1249.7	842.2	733.5	679.2	633.9	600.7	582.6	576.6
25°	5572.5	4096.4	1871.6	999.2	742.6	652.0	582.6	531.3	486.0	464.9	458.8
27.5°	5750.7	3948.5	1602.9	845.2	673.2	579.6	495.1	437.7	401.5	380.4	377.3
30°	5862.3	3728.1	1355.4	754.7	612.8	504.1	419.6	371.3	344.1	329.0	323.0
32.5°	5946.9	3456.4	1135.0	691.3	555.4	437.7	365.3	326.0	301.9	289.8	286.8
35°	6115.9	3199.8	972.0	633.9	495.1	383.4	320.0	289.8	271.7	256.6	253.6
37.5°	6351.4	2985.5	842.2	582.6	437.7	341.1	289.8	262.6	247.5	232.4	229.4
40°	6698.5	2849.7	745.6	531.3	386.4	307.9	265.6	241.5	220.4	205.3	202.3
42.5°	7232.8	2786.3	682.2	480.0	341.1	277.7	244.5	214.3	193.2	178.1	175.1
45°	7869.8	2819.5	627.9	428.7	310.9	256.6	217.3	187.2	166.0	150.9	147.9
47.5°	8552.0	2937.2	582.6	380.4	280.7	235.5	193.2	160.0	141.9	126.8	123.8
50°	9264.4	3130.4	543.4	335.1	256.6	211.3	166.0	138.9	120.7	108.7	105.7
52.5°	9883.3	3393.0	504.1	301.9	235.5	187.2	144.9	120.7	102.6	90.6	87.5
55°	10474.9	3640.6	473.9	271.7	211.3	163.0	126.8	102.6	87.5	75.5	72.4
57.5°	11117.9	3903.2	437.7	244.5	190.2	144.9	111.7	87.5	75.5	63.4	60.4
60°	12053.7	4292.6	383.4	223.4	166.0	126.8	96.6	78.5	66.4	51.3	48.3
62.5°	13403.1	5002.0	323.0	193.2	141.9	108.7	81.5	66.4	54.3	42.3	36.2
65°	15926.7	6209.5	265.6	160.0	114.7	90.6	69.4	54.3	42.3	30.2	27.2
67.5°	17744.0	6523.4	214.3	129.8	93.6	69.4	57.4	42.3	30.2	21.1	18.1
70°	15513.2	4685.0	166.0	105.7	78.5	54.3	45.3	33.2	21.1	15.1	12.1
72.5°	11688.5	3061.0	123.8	81.5	60.4	45.3	33.2	27.2	18.1	12.1	9.1
75°	8238.1	1769.0	90.6	60.4	42.3	33.2	27.2	21.1	15.1	9.1	9.1
77.5°	4223.2	730.5	63.4	42.3	30.2	21.1	18.1	12.1	12.1	9.1	6.0
80°	1283.0	241.5	36.2	27.2	21.1	15.1	9.1	9.1	9.1	6.0	3.0
82.5°	292.8	78.5	21.1	21.1	15.1	12.1	9.1	3.0	3.0	0.0	0.0
85°	75.5	24.1	18.1	15.1	15.1	12.1	6.0	3.0	0.0	0.0	0.0
87.5°	27.2	15.1	15.1	15.1	12.1	9.1	6.0	0.0	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)