

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: P641337

Luminaire Tested: GWS-SA5F-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

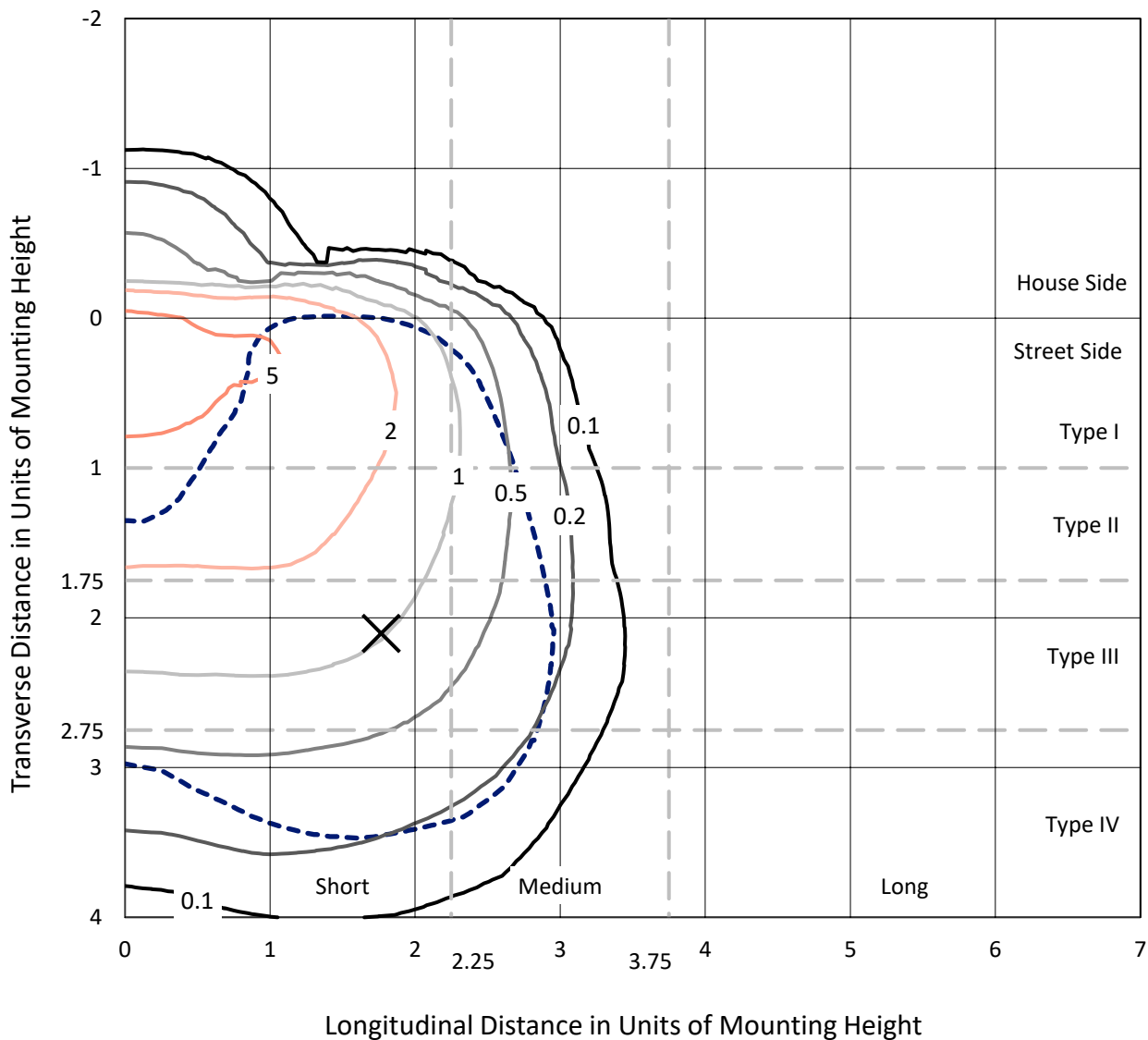
Lumens per Lamp: N/A  
Luminaire Lumens: 33178.8 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

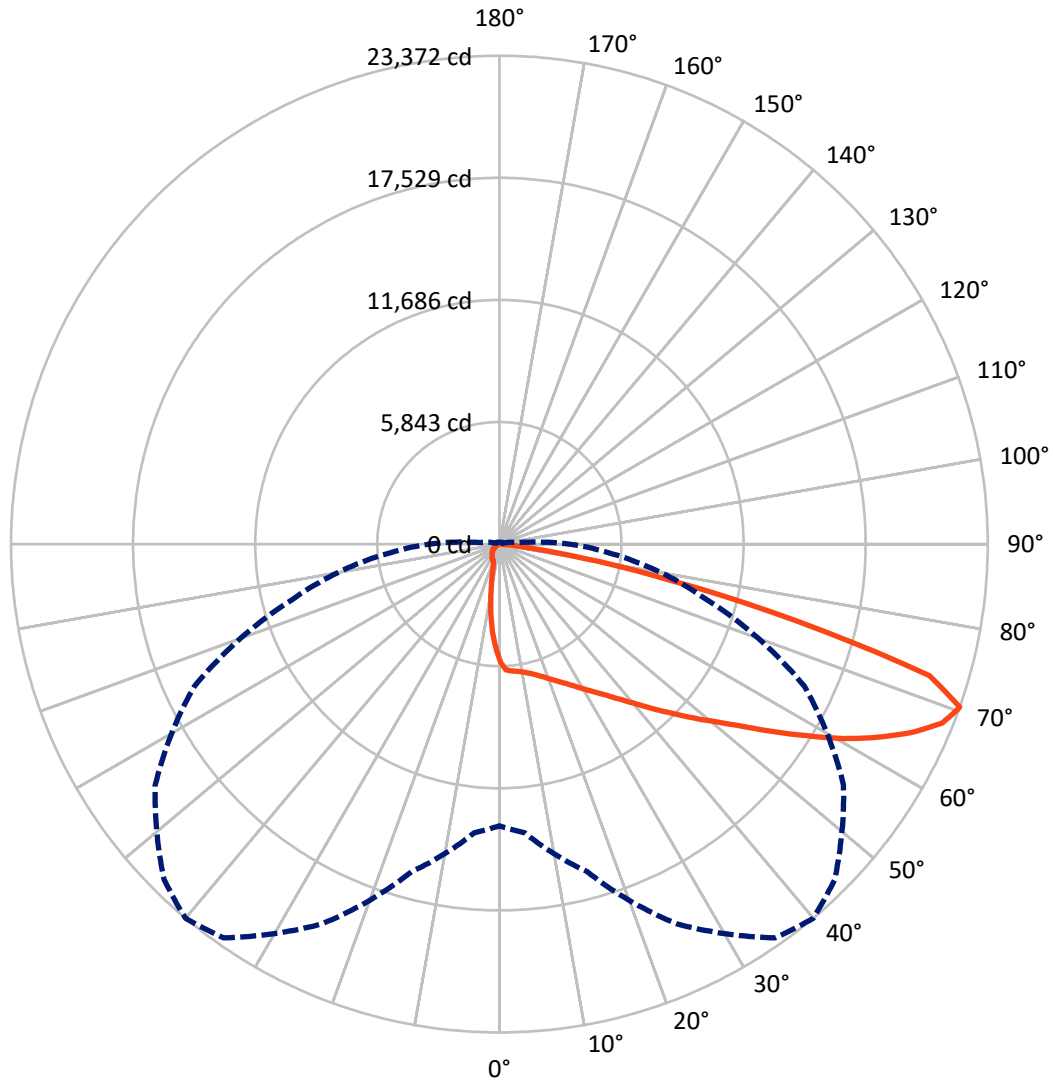
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2713.2	0.0	2713.2
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	30465.6	0.0	30465.6
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	33178.8	0.0	33178.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.9	1.4
10°-20°	1206.9	3.6
20°-30°	2019.9	6.1
30°-40°	3172.5	9.6
40°-50°	5018.2	15.1
50°-60°	7320.2	22.1
60°-70°	9074.4	27.4
70°-80°	4591.1	13.8
80°-90°	299.7	0.9
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°	33178.8	100.0
0°-180°	33178.8	100.0

**Coefficient of Utilization**



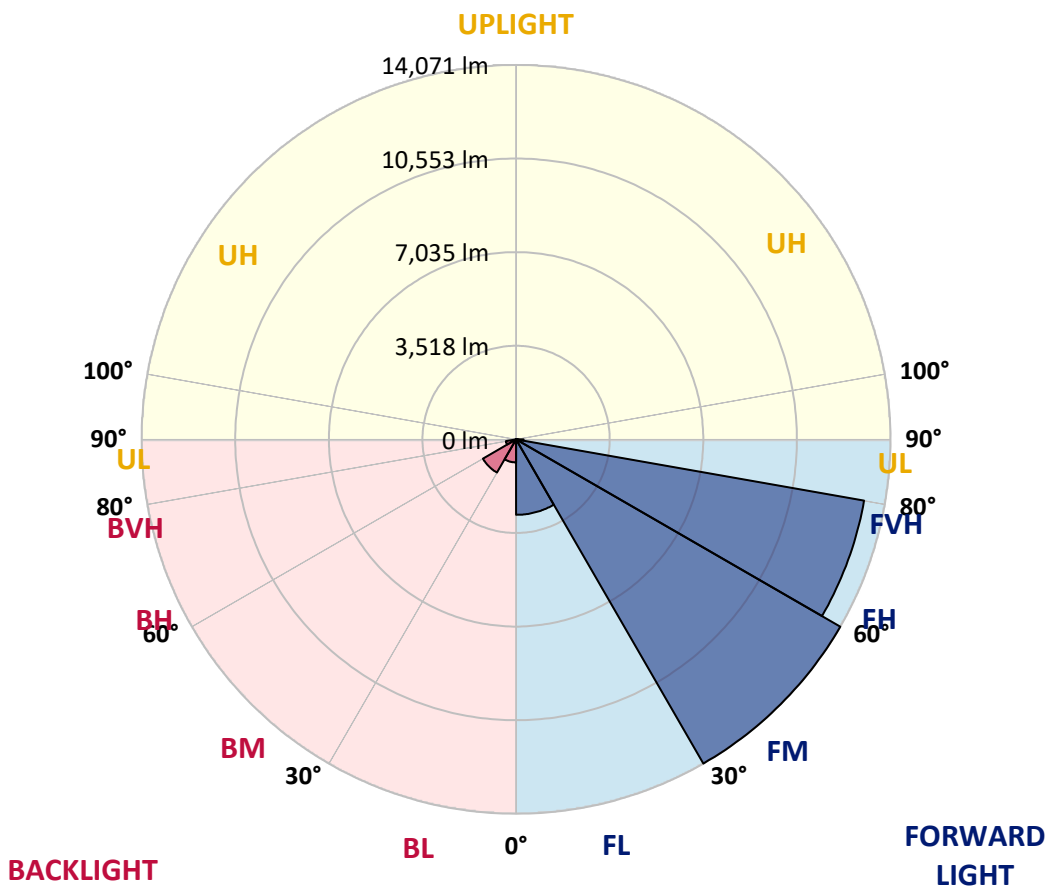
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2836.2	8.5			
FM (30°-60°)	14070.8	42.4			
FH (60°-80°)	13278.7	40.0			G5
FVH (80°-90°)	279.9	0.8			G3/500
BL (0°-30°)	866.4	2.6	B2/1000		
BM (30°-60°)	1440.1	4.3	B2/2500		
BH (60°-80°)	386.8	1.2	B1/500		G1/500
BVH (80°-90°)	19.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0
2.5°	6052.7	6073.8	6070.8	6079.8	6058.7	6025.5	6019.5	5974.2	5892.7	5790.0	5675.3
5°	6176.4	6200.6	6182.5	6173.4	6134.2	6098.0	6088.9	6040.6	5947.0	5808.2	5608.9
7.5°	6282.1	6288.1	6276.1	6254.9	6197.6	6149.3	6116.1	6049.7	5938.0	5799.1	5569.7
10°	6300.2	6297.2	6303.2	6306.3	6270.0	6227.8	6200.6	6110.0	5968.1	5820.2	5572.7
12.5°	6279.1	6279.1	6318.3	6363.6	6363.6	6342.5	6315.3	6233.8	6067.8	5892.7	5633.1
15°	6306.3	6315.3	6390.8	6475.3	6502.5	6481.3	6469.3	6384.7	6212.7	6019.5	5741.7
17.5°	6402.9	6411.9	6532.7	6659.5	6692.7	6668.5	6644.4	6559.8	6375.7	6164.4	5865.5
20°	6544.7	6568.9	6722.8	6885.9	6916.0	6885.9	6837.6	6719.8	6535.7	6321.3	5983.2
22.5°	6804.4	6819.4	6985.5	7157.6	7172.6	7124.3	7051.9	6888.9	6695.7	6487.4	6116.1
25°	7148.5	7169.6	7335.7	7501.7	7462.5	7390.0	7290.4	7106.2	6885.9	6683.6	6285.1
27.5°	7559.1	7583.2	7746.2	7891.1	7788.5	7704.0	7592.3	7362.8	7139.4	6955.3	6502.5
30°	8002.8	8023.9	8168.8	8298.7	8162.8	8063.2	7930.4	7694.9	7468.5	7329.6	6810.4
32.5°	8431.5	8428.5	8567.3	8673.0	8534.1	8455.6	8334.9	8096.4	7915.3	7854.9	7269.2
35°	8830.0	8830.0	8944.7	9050.3	8950.7	8908.5	8796.8	8606.6	8503.9	8576.4	7882.1
37.5°	9231.5	9210.3	9319.0	9436.7	9427.7	9430.7	9367.3	9276.7	9282.8	9539.4	8724.3
40°	9563.5	9554.5	9681.3	9835.2	9956.0	10052.6	10013.3	10046.5	10236.7	10716.7	9802.0
42.5°	9829.2	9850.3	10013.3	10257.9	10562.7	10759.0	10786.1	10922.0	11411.0	12153.7	11018.6
45°	10134.1	10137.1	10363.5	10737.8	11223.9	11534.8	11643.5	11993.7	12688.0	13644.9	12352.9
47.5°	10508.4	10472.2	10725.8	11251.0	11954.4	12413.3	12606.5	13044.2	14118.9	15100.0	13439.7
50°	10922.0	10855.6	11142.4	11857.8	12772.5	13346.1	13738.5	14378.5	15537.7	16295.4	14248.7
52.5°	11402.0	11338.6	11664.6	12555.2	13753.6	14451.0	14955.1	15601.1	16754.3	17207.1	14731.7
55°	12011.8	11948.4	12292.5	13391.4	14912.8	15818.5	16346.8	16890.1	17886.3	17880.3	15081.9
57.5°	12688.0	12600.4	13077.4	14447.9	16358.8	17300.7	17838.0	18103.7	18746.7	18402.5	15317.3
60°	13463.8	13385.3	14046.4	15706.8	18028.2	18900.6	19238.8	19130.1	19453.1	18710.5	15235.8
62.5°	14164.2	14127.9	14949.1	17041.1	19619.1	20355.7	20449.3	19975.3	19972.3	18716.5	14686.4
65°	14891.7	14961.1	16180.7	18577.6	21219.1	21714.2	21554.2	20814.6	20180.6	17976.9	13062.3
67.5°	15163.4	15365.6	16992.8	19966.3	22480.9	22867.3	22586.6	21234.2	19314.2	15489.4	9946.9
70°	13484.9	13865.3	16226.0	20044.8	23003.2	23371.5	22698.3	20105.1	16102.2	10260.9	5448.9
72.5°	10254.8	10698.6	13521.2	16413.2	20687.8	21527.0	20376.8	16380.0	10378.6	4495.0	1829.4
75°	5738.7	6218.7	10070.7	12358.9	13889.5	14656.2	14233.6	10508.4	4597.6	1174.3	546.4
77.5°	1941.1	2101.1	4685.2	7646.6	9168.1	8479.8	7178.7	5219.5	1690.5	446.8	289.8
80°	1150.2	1210.5	1744.9	3806.7	4824.0	3999.9	3157.7	1929.0	860.4	238.5	202.3
82.5°	344.1	407.5	963.0	1412.8	1889.8	1177.3	996.2	1101.9	446.8	129.8	169.1
85°	0.0	0.0	205.3	437.7	495.1	193.2	193.2	624.9	81.5	54.3	123.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	15.1	9.1	12.1	27.2
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°	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0	5630.0
2.5°	5593.8	5488.2	5364.4	5246.7	5135.0	4990.1	4920.6	4836.1	4763.7	4724.4	4745.5
5°	5482.1	5316.1	5062.5	4805.9	4546.3	4301.8	4081.4	3933.5	3800.7	3731.2	3746.3
7.5°	5385.5	5162.1	4766.7	4347.1	3930.5	3510.9	3169.7	2904.1	2698.8	2614.3	2599.2
10°	5343.3	5062.5	4504.0	3900.3	3260.3	2695.8	2212.8	1920.0	1711.7	1609.0	1627.1
12.5°	5364.4	5011.2	4280.6	3462.6	2632.4	1974.3	1512.4	1237.7	1089.8	1029.4	1014.3
15°	5424.8	4999.1	4081.4	3015.8	2031.6	1379.6	1044.5	932.8	902.6	896.6	896.6
17.5°	5494.2	5002.1	3876.1	2563.0	1542.6	1023.4	893.6	872.4	863.4	857.3	860.4
20°	5563.6	5002.1	3640.7	2104.1	1159.2	884.5	851.3	836.2	827.1	824.1	824.1
22.5°	5648.2	5002.1	3378.0	1678.4	929.8	839.2	812.1	803.0	793.9	790.9	787.9
25°	5750.8	5005.2	3088.2	1313.2	845.3	800.0	778.8	769.8	760.7	754.7	754.7
27.5°	5898.7	5029.3	2768.2	1023.4	797.0	763.8	745.6	736.6	727.5	718.5	718.5
30°	6113.1	5089.7	2409.0	845.3	751.7	724.5	706.4	700.4	691.3	682.2	679.2
32.5°	6433.0	5195.3	2037.7	757.7	709.4	682.2	661.1	655.1	646.0	637.0	633.9
35°	6879.8	5388.5	1675.4	703.4	655.1	627.9	615.8	612.8	600.7	591.7	591.7
37.5°	7534.9	5702.5	1328.3	649.0	609.8	588.7	573.6	567.5	555.5	546.4	543.4
40°	8334.9	6110.0	1032.4	606.8	567.5	546.4	531.3	522.3	507.2	495.1	489.0
42.5°	9355.2	6608.1	815.1	561.5	528.3	507.2	495.1	477.0	455.8	437.7	434.7
45°	10417.8	7121.3	673.2	519.2	492.1	474.0	458.9	434.7	404.5	383.4	377.3
47.5°	11232.9	7441.3	588.7	474.0	452.8	437.7	419.6	389.4	353.2	329.0	323.0
50°	11815.5	7489.6	525.3	431.7	419.6	404.5	377.3	341.1	301.9	277.7	271.7
52.5°	12102.3	7272.3	474.0	392.4	383.4	368.3	335.1	295.8	253.6	229.4	223.4
55°	12232.1	6861.7	425.6	359.2	347.2	329.0	292.8	250.6	208.3	187.2	181.1
57.5°	12180.8	6254.9	383.4	326.0	310.9	289.8	250.6	205.3	172.1	150.9	147.9
60°	11800.5	5403.6	341.1	292.8	274.7	250.6	211.3	169.1	138.9	123.8	120.8
62.5°	10979.3	4347.1	298.9	253.6	241.5	217.4	181.1	138.9	114.7	105.7	102.6
65°	9297.9	3073.1	256.6	214.3	208.3	184.1	150.9	114.7	99.6	93.6	90.6
67.5°	6683.6	1868.6	217.4	184.1	178.1	157.0	126.8	99.6	90.6	87.5	87.5
70°	3359.9	884.5	172.1	150.9	150.9	129.8	108.7	90.6	87.5	84.5	84.5
72.5°	1141.1	377.3	129.8	117.7	123.8	111.7	93.6	84.5	84.5	84.5	84.5
75°	389.4	199.2	90.6	84.5	90.6	90.6	81.5	81.5	84.5	84.5	84.5
77.5°	253.6	132.8	63.4	57.4	69.4	69.4	69.4	75.5	81.5	81.5	81.5
80°	208.3	72.5	42.3	39.2	51.3	51.3	57.4	69.4	75.5	75.5	75.5
82.5°	178.1	45.3	24.2	27.2	36.2	39.2	48.3	57.4	66.4	69.4	69.4
85°	120.8	24.2	18.1	21.1	24.2	30.2	39.2	48.3	54.3	60.4	60.4
87.5°	33.2	9.1	12.1	15.1	15.1	21.1	30.2	36.2	42.3	45.3	45.3
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)