

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: P641003

Luminaire Tested: GWS-SA5F-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-722-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

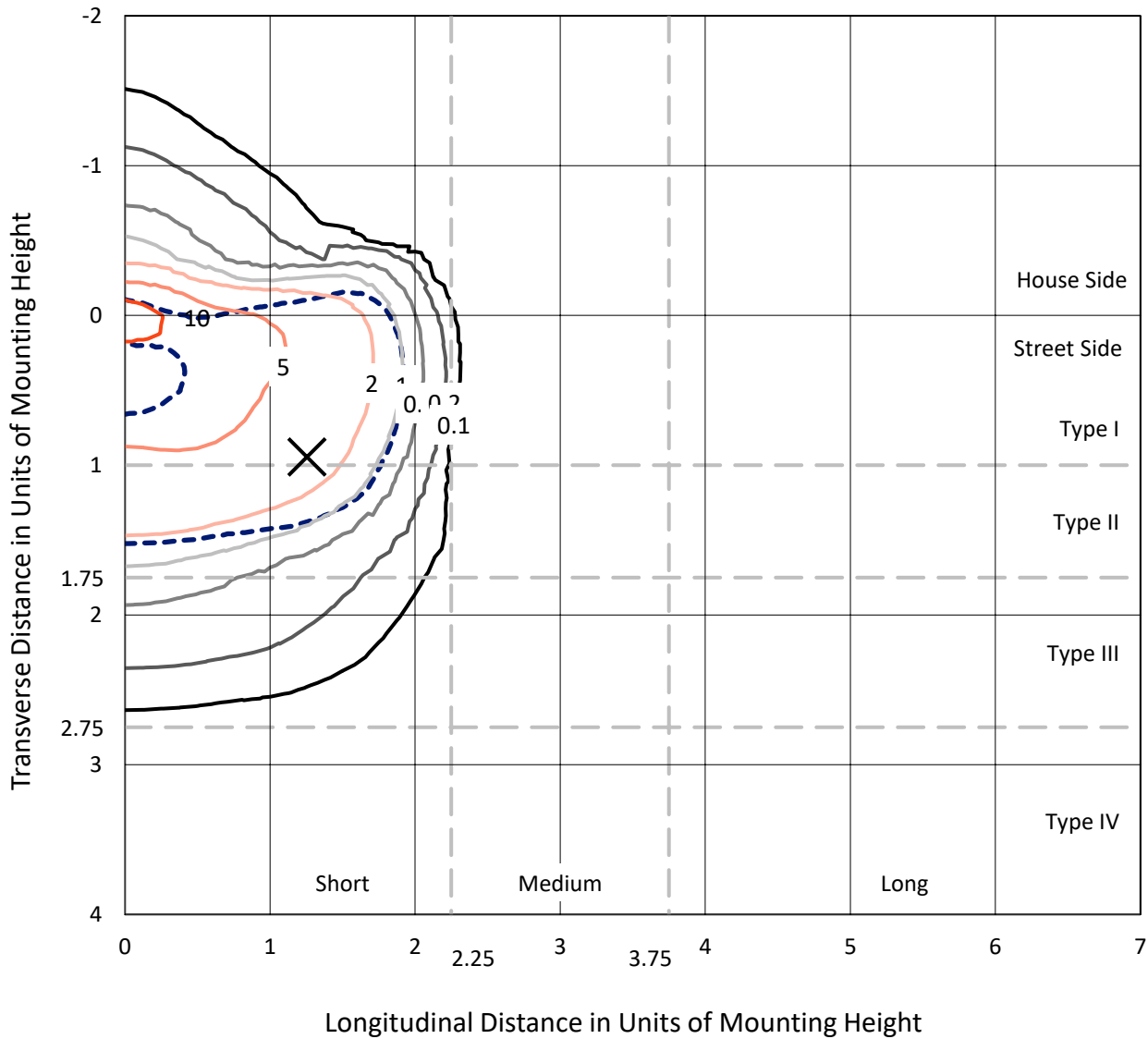
Lumens per Lamp: N/A  
Luminaire Lumens: 17982.2 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

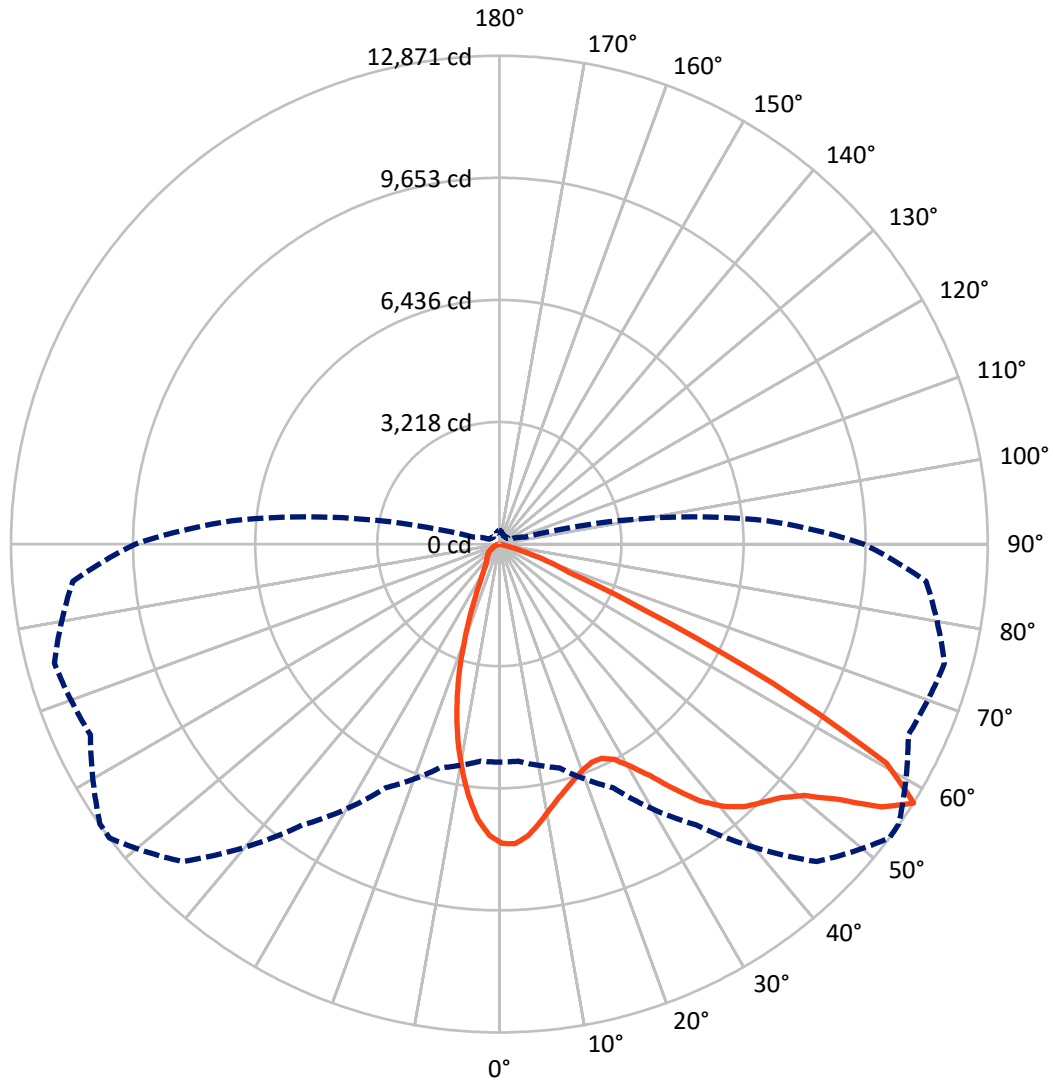
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2970.4	0.0	2970.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15011.8	0.0	15011.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17982.2	0.0	17982.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.9	3.8
10°-20°	1481.6	8.2
20°-30°	1930.2	10.7
30°-40°	2799.7	15.6
40°-50°	4039.8	22.5
50°-60°	4885.8	27.2
60°-70°	1991.3	11.1
70°-80°	178.9	1.0
80°-90°	0.0	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°	17982.2	100.0
0°-180°	17982.2	100.0

**Coefficient of Utilization**

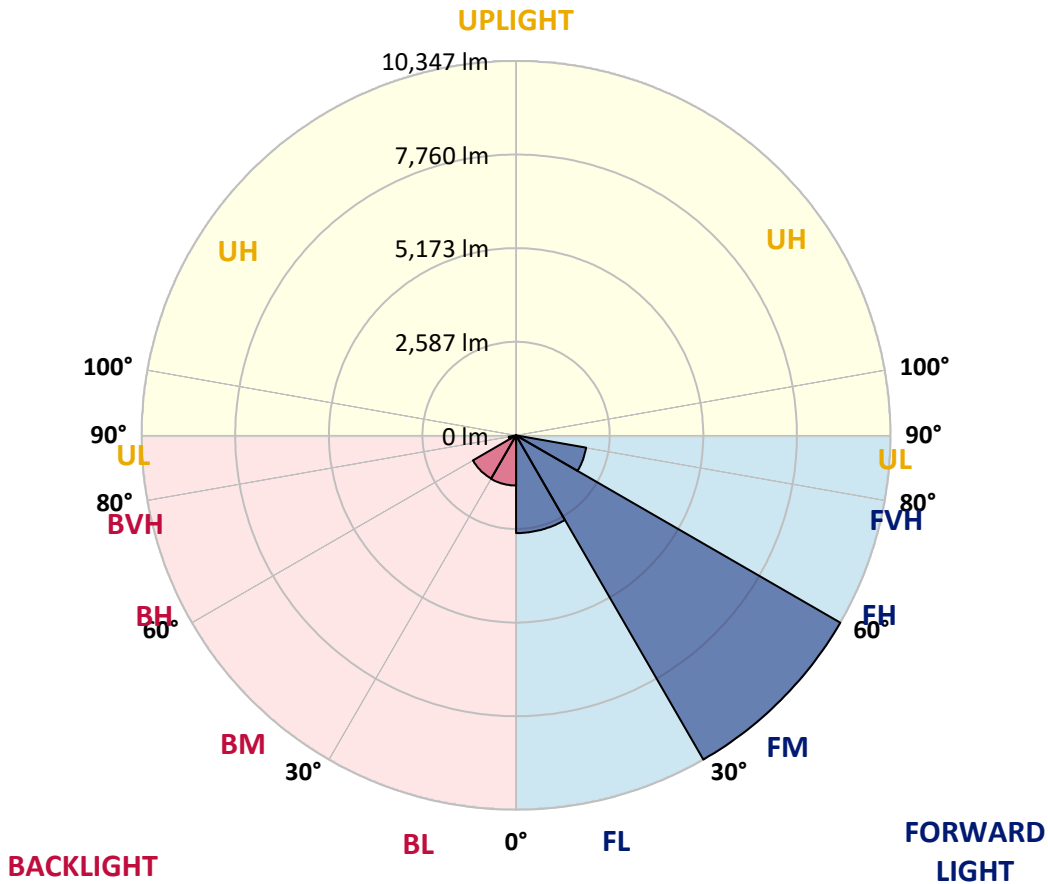


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2700.3	15.0			
FM (30°-60°)	10346.6	57.5			
FH (60°-80°)	1964.8	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1386.3	7.7	B3/2500		
BM (30°-60°)	1378.7	7.7	B2/2500		
BH (60°-80°)	205.3	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0
2.5°	7777.8	7795.5	7826.3	7866.0	7892.4	7905.6	7905.6	7943.1	7918.9	7899.0	7877.0
5°	7445.0	7462.7	7504.5	7568.4	7632.4	7678.6	7731.5	7771.2	7786.6	7786.6	7749.2
7.5°	6975.6	6999.8	7026.3	7114.4	7253.3	7356.9	7447.2	7504.5	7588.3	7614.7	7561.8
10°	6470.9	6495.1	6554.6	6675.8	6834.5	6988.8	7143.1	7215.8	7359.1	7434.0	7374.5
12.5°	6043.3	6054.3	6133.7	6279.1	6481.9	6693.5	6880.8	6955.7	7158.5	7270.9	7200.4
15°	5690.7	5697.3	5776.6	5937.5	6171.1	6431.2	6667.0	6744.2	6993.2	7162.9	7057.1
17.5°	5424.0	5426.2	5494.5	5668.6	5913.3	6202.0	6481.9	6576.7	6898.4	7103.4	6944.7
20°	5289.5	5282.9	5331.4	5483.5	5714.9	6003.6	6334.2	6451.0	6845.5	7094.6	6858.8
22.5°	5291.7	5276.3	5296.1	5404.1	5600.3	5871.4	6241.7	6373.9	6849.9	7132.1	6786.0
25°	5417.4	5395.3	5399.7	5457.0	5595.9	5842.7	6254.9	6395.9	6938.1	7257.7	6759.6
27.5°	5628.9	5604.7	5604.7	5633.4	5708.3	5933.1	6420.2	6581.1	7173.9	7502.3	6814.7
30°	5902.2	5878.0	5869.2	5897.8	5959.5	6166.7	6788.2	6955.7	7577.3	7903.4	6991.0
32.5°	6215.2	6186.6	6202.0	6241.7	6301.2	6587.7	7262.1	7484.7	8082.0	8443.4	7308.4
35°	6545.8	6521.6	6592.1	6678.0	6770.6	7171.7	7916.7	8110.6	8701.3	9115.6	7793.2
37.5°	6861.0	6849.9	6997.6	7178.3	7370.1	7872.6	8582.3	8732.1	9232.4	9847.3	8386.1
40°	7176.1	7173.9	7427.4	7744.8	8051.1	8571.2	9087.0	9210.4	9556.4	10416.0	8954.7
42.5°	7528.8	7528.8	7879.2	8302.4	8710.1	9161.9	9457.2	9512.3	9701.9	10744.4	9382.3
45°	7866.0	7885.8	8291.3	8782.8	9265.5	9622.5	9712.9	9717.3	9761.4	10938.3	9737.2
47.5°	8132.7	8150.3	8635.2	9201.6	9721.7	9973.0	9986.2	9966.4	9917.9	11123.4	10010.4
50°	8348.6	8375.1	8882.0	9481.5	10034.7	10310.2	10411.6	10391.7	10268.3	11321.8	10202.2
52.5°	8454.4	8491.9	8968.0	9620.3	10382.9	10887.6	11169.7	11216.0	10792.9	11432.0	10385.1
55°	7608.1	7663.2	8101.8	8994.4	10576.9	11780.2	12223.2	12214.4	11361.5	11760.4	10830.3
57.5°	5745.8	5741.3	6105.0	7081.4	9034.1	11830.9	12871.2	12853.6	11892.6	12141.7	11286.5
60°	3912.1	3885.6	3982.6	4454.2	6316.6	9638.0	11714.1	11952.1	11515.8	11216.0	9582.9
62.5°	3220.0	3195.8	3164.9	3034.9	3627.7	6003.6	8093.0	8454.4	8397.1	7795.5	6010.2
65°	2636.0	2655.8	2741.7	2686.6	2523.5	3078.9	4200.8	4414.6	4035.5	3396.3	2100.4
67.5°	1943.9	1952.7	2065.1	2356.0	2267.9	2049.7	1977.0	2012.2	1179.1	542.2	350.4
70°	1148.3	1154.9	1258.5	1648.6	1840.3	1573.6	1335.6	1315.8	467.2	145.5	158.7
72.5°	650.2	636.9	656.8	784.6	1002.8	835.3	687.6	625.9	141.1	81.5	81.5
75°	308.6	299.7	257.9	242.4	220.4	141.1	88.2	74.9	35.3	33.1	33.1
77.5°	2.2	6.6	4.4	6.6	6.6	4.4	2.2	2.2	6.6	6.6	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0	7888.0
2.5°	7837.3	7771.2	7755.8	7751.4	7689.7	7623.5	7555.2	7528.8	7489.1	7464.9	7484.7
5°	7689.7	7594.9	7511.1	7434.0	7297.4	7147.5	7017.4	6933.7	6854.4	6801.5	6814.7
7.5°	7480.3	7356.9	7165.1	6969.0	6717.7	6492.9	6241.7	6087.4	5944.1	5864.8	5902.2
10°	7257.7	7094.6	6788.2	6455.4	6060.9	5708.3	5349.0	5055.9	4886.2	4725.3	4742.9
12.5°	7039.5	6823.5	6365.1	5860.4	5362.3	4842.1	4300.0	3894.4	3616.7	3416.2	3385.3
15°	6836.7	6559.0	5952.9	5287.3	4608.5	3916.5	3224.4	2644.8	2323.0	2124.6	2111.4
17.5°	6656.0	6312.2	5525.4	4687.8	3837.1	2951.1	2155.5	1721.3	1536.2	1450.2	1441.4
20°	6481.9	6063.1	5089.0	4079.6	2995.2	2071.7	1487.7	1287.1	1227.6	1192.3	1196.8
22.5°	6314.4	5792.0	4630.5	3405.1	2245.8	1454.6	1152.7	1075.5	1068.9	1073.3	1075.5
25°	6173.3	5543.0	4158.9	2755.0	1602.3	1108.6	963.1	941.1	960.9	989.6	994.0
27.5°	6100.6	5340.2	3698.3	2100.4	1159.3	901.4	835.3	844.1	879.4	910.2	914.6
30°	6120.4	5188.2	3222.2	1522.9	892.6	760.4	738.3	756.0	791.2	819.9	824.3
32.5°	6261.5	5111.0	2735.1	1108.6	733.9	663.4	654.6	667.8	698.7	720.7	722.9
35°	6541.4	5128.6	2272.3	848.5	630.3	590.7	588.5	597.3	612.7	628.1	630.3
37.5°	6953.5	5271.9	1816.1	705.3	570.8	542.2	533.4	533.4	544.4	551.0	555.4
40°	7396.5	5487.9	1454.6	623.7	529.0	498.1	480.5	473.9	482.7	491.5	493.7
42.5°	7762.4	5703.9	1181.3	566.4	495.9	454.0	432.0	427.6	438.6	454.0	458.4
45°	8042.3	5871.4	985.2	520.1	458.4	412.1	387.9	387.9	407.7	434.2	438.6
47.5°	8298.0	6005.8	839.7	478.3	423.2	374.7	350.4	354.8	387.9	423.2	429.8
50°	8472.1	6113.8	731.7	440.8	394.5	343.8	321.8	330.6	370.3	412.1	418.8
52.5°	8659.4	6246.1	661.2	407.7	368.1	319.6	299.7	306.4	350.4	396.7	405.5
55°	9177.3	6689.1	659.0	363.7	321.8	286.5	277.7	279.9	324.0	376.9	387.9
57.5°	9600.5	7079.2	703.1	306.4	268.9	251.3	246.8	249.0	288.7	348.2	361.5
60°	7943.1	5501.1	581.8	253.5	224.8	220.4	213.8	218.2	255.7	308.6	319.6
62.5°	4701.1	3145.1	277.7	193.9	191.7	187.3	180.7	189.5	224.8	271.1	277.7
65°	1606.7	932.3	176.3	158.7	163.1	156.5	149.9	158.7	189.5	216.0	218.2
67.5°	308.6	246.8	141.1	132.2	134.4	121.2	119.0	127.8	145.5	149.9	147.7
70°	160.9	143.3	108.0	108.0	103.6	86.0	86.0	94.8	94.8	88.2	86.0
72.5°	83.8	79.3	70.5	79.3	66.1	52.9	52.9	57.3	52.9	44.1	44.1
75°	33.1	33.1	30.9	39.7	28.7	24.2	22.0	26.4	19.8	15.4	15.4
77.5°	8.8	8.8	8.8	11.0	6.6	6.6	4.4	4.4	2.2	0.0	0.0
80°	0.0	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)