

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: P640999

Luminaire Tested: GWS-SA5F-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 18052.7 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

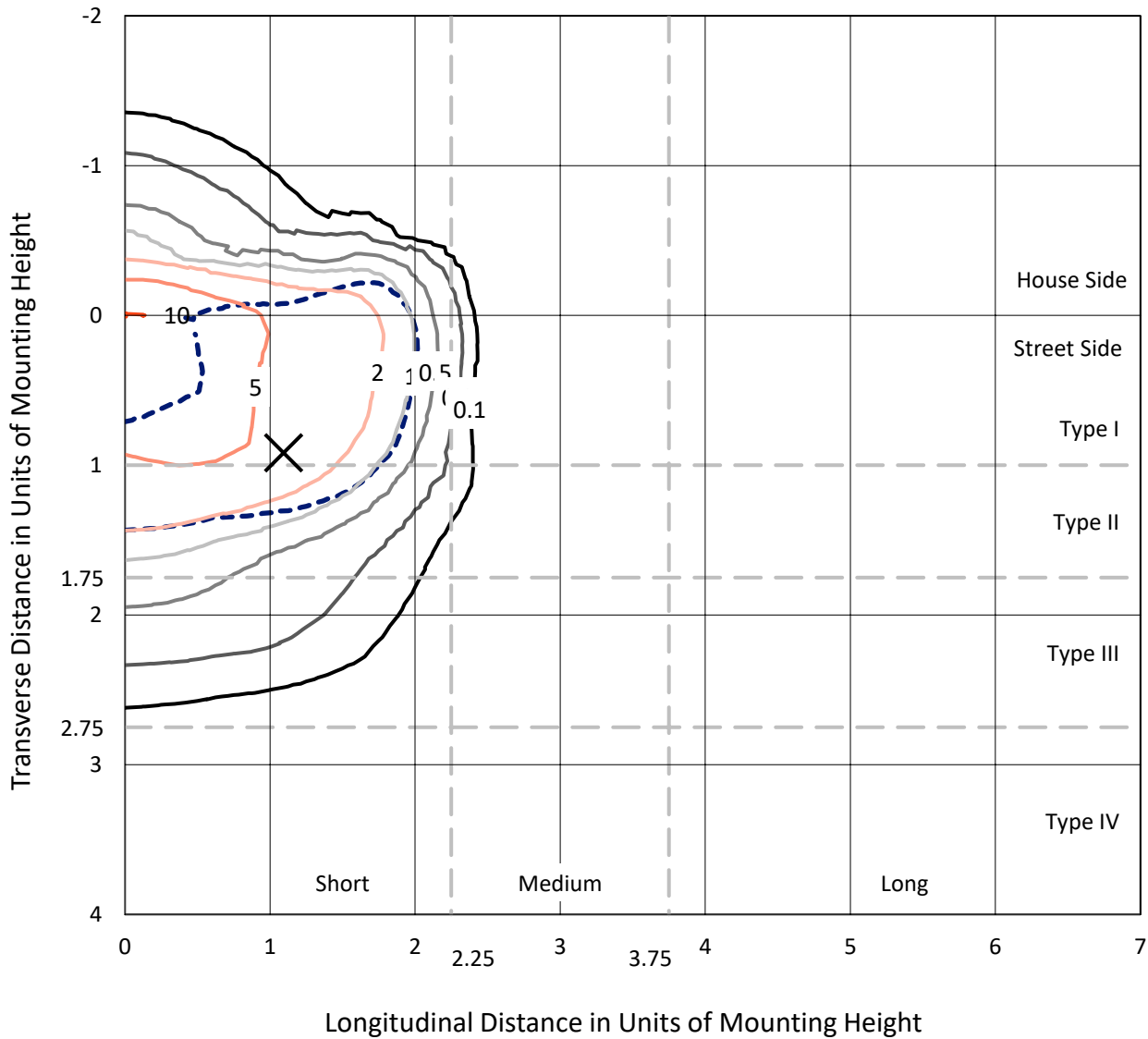
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

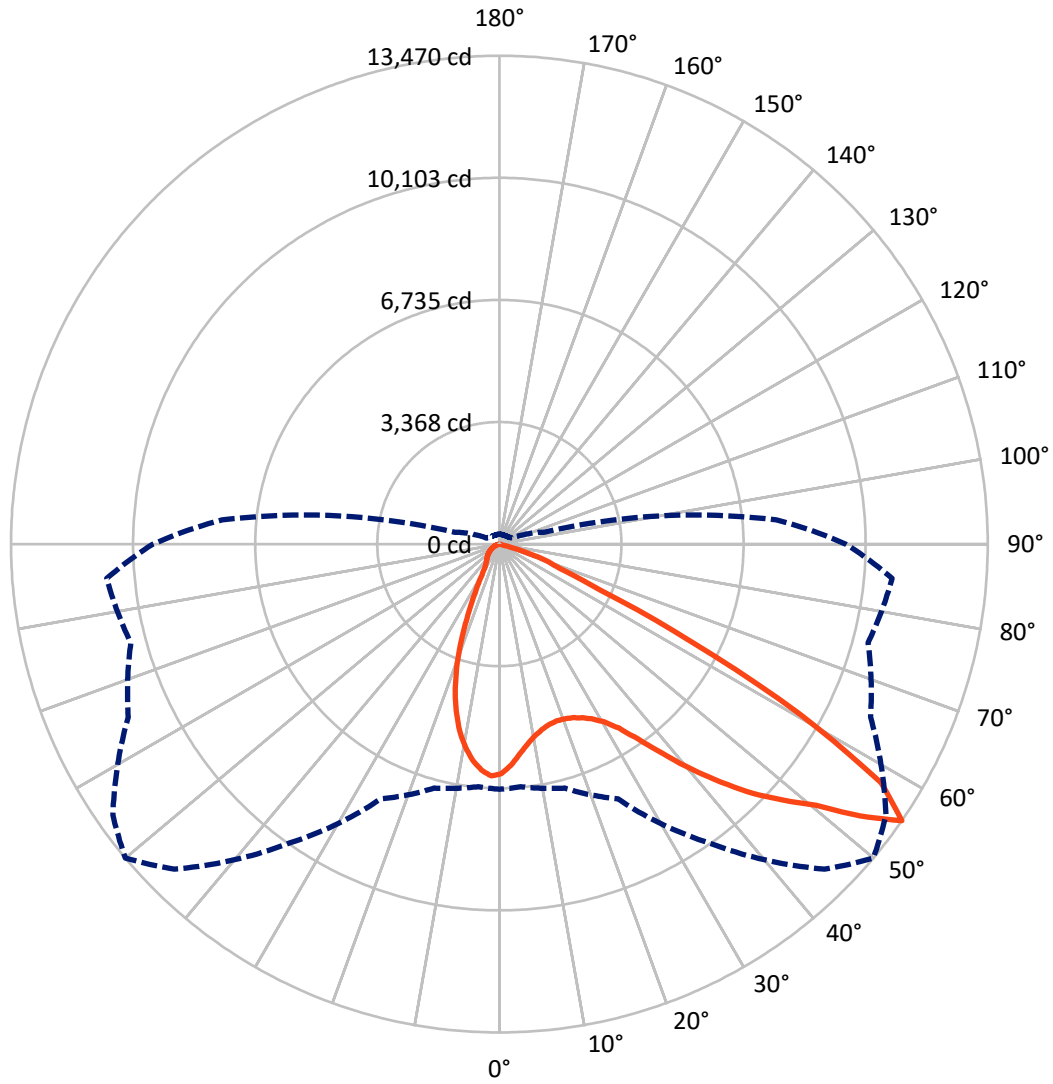
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3557.2	0.0	3557.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	14495.5	0.0	14495.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	18052.7	0.0	18052.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.2	3.1
10°-20°	1368.8	7.6
20°-30°	1930.8	10.7
30°-40°	2857.2	15.8
40°-50°	4122.0	22.8
50°-60°	4862.2	26.9
60°-70°	2168.9	12.0
70°-80°	186.5	1.0
80°-90°	0.1	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°	18052.7	100.0
0°-180°	18052.7	100.0

Coefficient of Utilization



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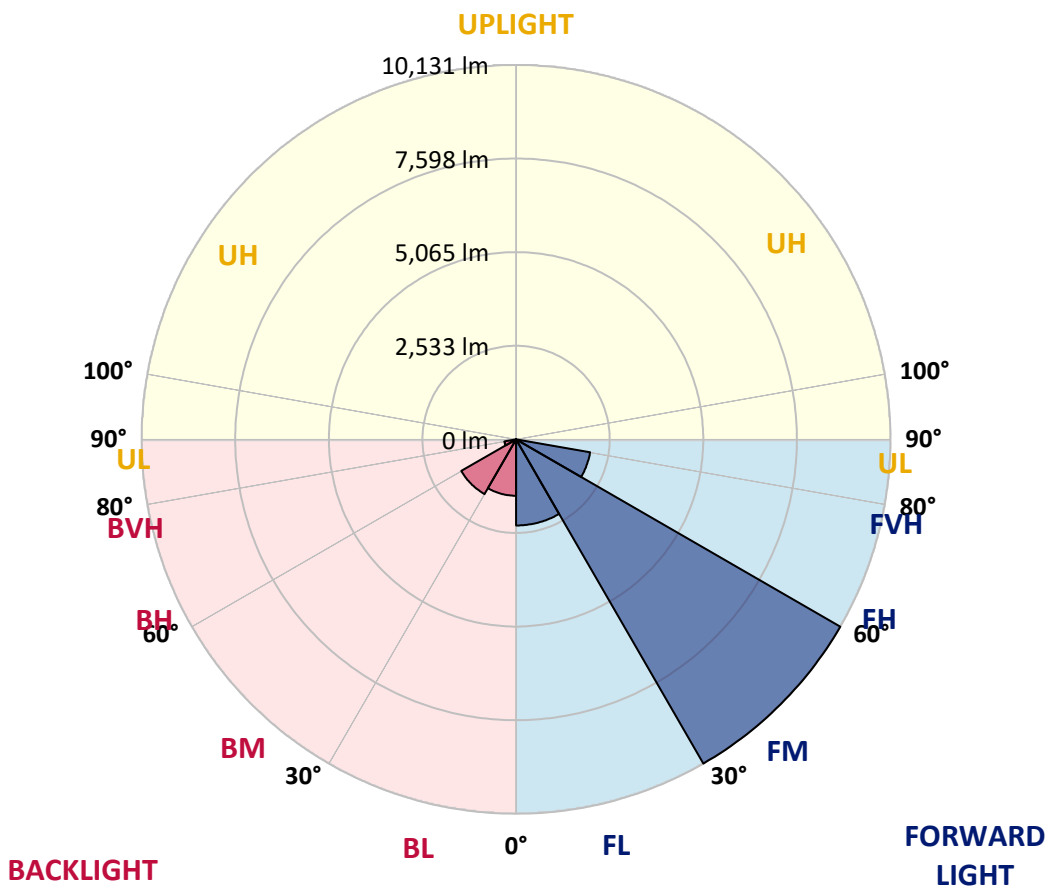
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.7	12.9			
FM (30°-60°)	10130.6	56.1			
FH (60°-80°)	2034.2	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1525.2	8.4	B3/2500		
BM (30°-60°)	1710.8	9.5	B2/2500		
BH (60°-80°)	321.2	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9
2.5°	5884.3	5888.7	5890.9	5950.4	5972.5	6060.6	6106.9	6131.1	6195.0	6270.0	6331.7
5°	5489.8	5483.2	5494.2	5569.2	5617.6	5747.7	5818.2	5866.7	6007.7	6184.0	6331.7
7.5°	5146.0	5159.2	5172.5	5254.0	5326.7	5467.8	5569.2	5641.9	5838.0	6100.3	6349.3
10°	4903.6	4903.6	4923.4	5016.0	5101.9	5276.0	5377.4	5470.0	5703.6	6025.4	6369.2
12.5°	4725.1	4727.3	4751.5	4857.3	4956.5	5137.2	5243.0	5333.3	5591.2	5950.4	6373.6
15°	4641.3	4634.7	4654.6	4766.9	4877.1	5046.8	5157.0	5245.2	5511.9	5908.5	6395.6
17.5°	4619.3	4614.9	4630.3	4740.5	4852.9	5018.2	5126.2	5214.3	5500.8	5921.8	6461.7
20°	4683.2	4674.4	4667.8	4762.5	4868.3	5031.4	5143.8	5243.0	5553.7	5994.5	6563.1
22.5°	4835.3	4835.3	4819.8	4866.1	4936.6	5084.3	5201.1	5331.1	5692.6	6140.0	6713.0
25°	5115.2	5093.1	5064.5	5084.3	5075.5	5168.0	5306.9	5487.6	5954.8	6380.2	6895.9
27.5°	5434.7	5454.6	5406.1	5408.3	5331.1	5298.1	5459.0	5732.2	6344.9	6719.6	7166.9
30°	5868.9	5853.4	5855.7	5849.0	5670.5	5514.1	5688.2	6051.8	6836.4	7237.5	7519.6
32.5°	6208.3	6230.3	6303.0	6344.9	6111.3	5860.1	6045.2	6486.0	7396.2	7828.1	7951.5
35°	6567.5	6607.2	6754.8	6891.5	6695.3	6406.6	6605.0	7061.2	7922.9	8412.1	8447.4
37.5°	6946.6	7025.9	7202.2	7442.4	7411.6	7155.9	7336.6	7737.7	8337.2	8764.7	8857.3
40°	7380.7	7457.9	7746.6	8092.6	8165.3	8108.0	8167.5	8401.1	8610.5	8780.2	9033.6
42.5°	7856.8	7962.5	8328.4	8791.2	9064.5	9115.2	8976.3	8952.1	8729.5	8603.9	8996.2
45°	8418.7	8542.2	8956.5	9555.9	9990.1	10058.4	9818.2	9507.4	8804.4	8473.8	8883.8
47.5°	9049.0	9165.8	9578.0	10298.6	10944.4	10970.8	10552.1	10051.8	9027.0	8623.7	8969.7
50°	9260.6	9333.3	9690.4	10536.7	11726.7	11929.5	11323.4	10664.5	9474.4	9064.5	9388.4
52.5°	8533.3	8562.0	8872.7	9727.8	11568.1	12870.5	12449.6	11579.1	10270.0	9736.6	10034.2
55°	6761.4	6715.2	6966.4	7751.0	10054.0	12678.8	13470.0	13016.0	11294.8	10525.6	10873.8
57.5°	4729.5	4674.4	4617.1	5148.2	7501.9	10748.2	12412.1	13216.5	12271.1	11308.0	11779.6
60°	3887.6	3834.7	3557.0	3312.4	4535.5	7717.9	9533.9	11047.9	12191.7	11268.3	11751.0
62.5°	3358.7	3327.8	3215.4	2882.6	2668.9	4405.5	5970.3	7420.4	9355.4	8848.5	8874.9
65°	2638.0	2629.2	2706.3	2741.6	2360.3	2437.5	3045.7	3856.8	5057.9	4769.2	4522.3
67.5°	1802.8	1782.9	1928.4	2371.4	2270.0	1924.0	1782.9	1798.3	2188.4	1337.7	1062.3
70°	1146.0	1099.7	1101.9	1470.0	1846.8	1518.5	1375.2	1209.9	1088.7	198.3	224.8
72.5°	733.9	705.2	606.1	663.4	855.1	740.5	747.1	643.5	429.8	105.8	123.4
75°	308.5	284.3	218.2	174.1	171.9	108.0	94.8	88.2	59.5	59.5	63.9
77.5°	2.2	0.0	0.0	2.2	4.4	2.2	2.2	4.4	8.8	13.2	15.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9	6333.9
2.5°	6369.2	6316.3	6375.8	6397.8	6395.6	6397.8	6333.9	6289.8	6287.6	6232.5	6206.1
5°	6393.4	6351.5	6395.6	6366.9	6298.6	6212.7	6098.1	5998.9	5954.8	5890.9	5860.1
7.5°	6439.7	6395.6	6389.0	6274.4	6104.7	5924.0	5721.2	5540.5	5443.5	5326.7	5333.3
10°	6472.7	6422.0	6336.1	6102.5	5820.4	5531.7	5229.8	4960.9	4791.2	4634.7	4608.3
12.5°	6486.0	6411.0	6210.5	5857.9	5461.2	5084.3	4641.3	4257.9	3993.4	3788.4	3759.8
15°	6510.2	6389.0	6049.6	5562.5	5018.2	4484.9	3920.7	3396.1	3045.7	2809.9	2829.8
17.5°	6547.7	6364.7	5868.9	5232.0	4542.2	3788.4	3025.9	2424.2	2102.5	1965.8	1968.0
20°	6600.6	6336.1	5670.5	4868.3	3971.4	3001.7	2115.7	1661.7	1571.4	1566.9	1560.3
22.5°	6671.1	6307.4	5459.0	4469.4	3294.8	2102.5	1408.3	1267.2	1304.7	1377.4	1390.6
25°	6754.8	6272.2	5223.1	4019.8	2556.5	1379.6	1055.6	1033.6	1124.0	1220.9	1243.0
27.5°	6884.9	6254.6	4954.3	3508.5	1793.9	989.5	863.9	877.1	958.7	1040.2	1060.1
30°	7105.2	6287.6	4661.2	2935.5	1152.6	789.0	749.3	769.1	813.2	855.1	872.7
32.5°	7405.0	6384.6	4376.9	2309.6	822.0	685.4	676.6	687.6	705.2	729.5	736.1
35°	7755.4	6552.1	4083.8	1652.9	678.8	625.9	617.1	617.1	625.9	630.3	632.5
37.5°	8044.1	6728.4	3808.3	1099.7	608.3	579.6	566.4	559.8	557.6	562.0	564.2
40°	8169.7	6801.1	3508.5	800.0	557.6	537.7	517.9	498.1	498.1	513.5	515.7
42.5°	8081.6	6719.6	3162.5	661.2	522.3	493.7	462.8	445.2	454.0	469.4	473.8
45°	7894.2	6519.0	2781.3	584.0	487.1	449.6	414.3	403.3	412.1	432.0	436.4
47.5°	7863.4	6386.8	2325.1	533.3	449.6	412.1	374.7	363.6	374.7	390.1	394.5
50°	8169.7	6501.4	1818.2	489.3	414.3	372.5	341.6	330.6	337.2	346.0	350.4
52.5°	8729.5	6926.7	1467.8	447.4	372.5	332.8	312.9	299.7	299.7	308.5	310.7
55°	9555.9	7669.4	1267.2	398.9	324.0	301.9	284.3	271.1	271.1	275.5	277.7
57.5°	10508.0	8568.6	1313.5	335.0	284.3	273.3	257.9	246.8	251.2	251.2	251.2
60°	10375.8	8502.5	1406.1	282.1	251.2	246.8	233.6	229.2	240.2	231.4	227.0
62.5°	7643.0	5873.3	736.1	231.4	216.0	211.6	202.8	211.6	227.0	202.8	193.9
65°	3711.3	2843.0	295.3	189.5	182.9	178.5	174.1	187.3	196.1	158.7	149.9
67.5°	872.7	709.6	191.7	160.9	152.1	143.3	147.7	149.9	143.3	108.0	103.6
70°	227.0	222.6	149.9	134.4	121.2	112.4	112.4	110.2	94.8	68.3	63.9
72.5°	123.4	121.2	108.0	101.4	83.7	74.9	77.1	68.3	52.9	39.7	37.5
75°	61.7	66.1	61.7	57.3	46.3	41.9	41.9	37.5	26.4	15.4	15.4
77.5°	13.2	15.4	15.4	13.2	11.0	8.8	8.8	11.0	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)