

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: P638194

Luminaire Tested: GWS-SA4E-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638194
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-SA4E-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17723.3 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

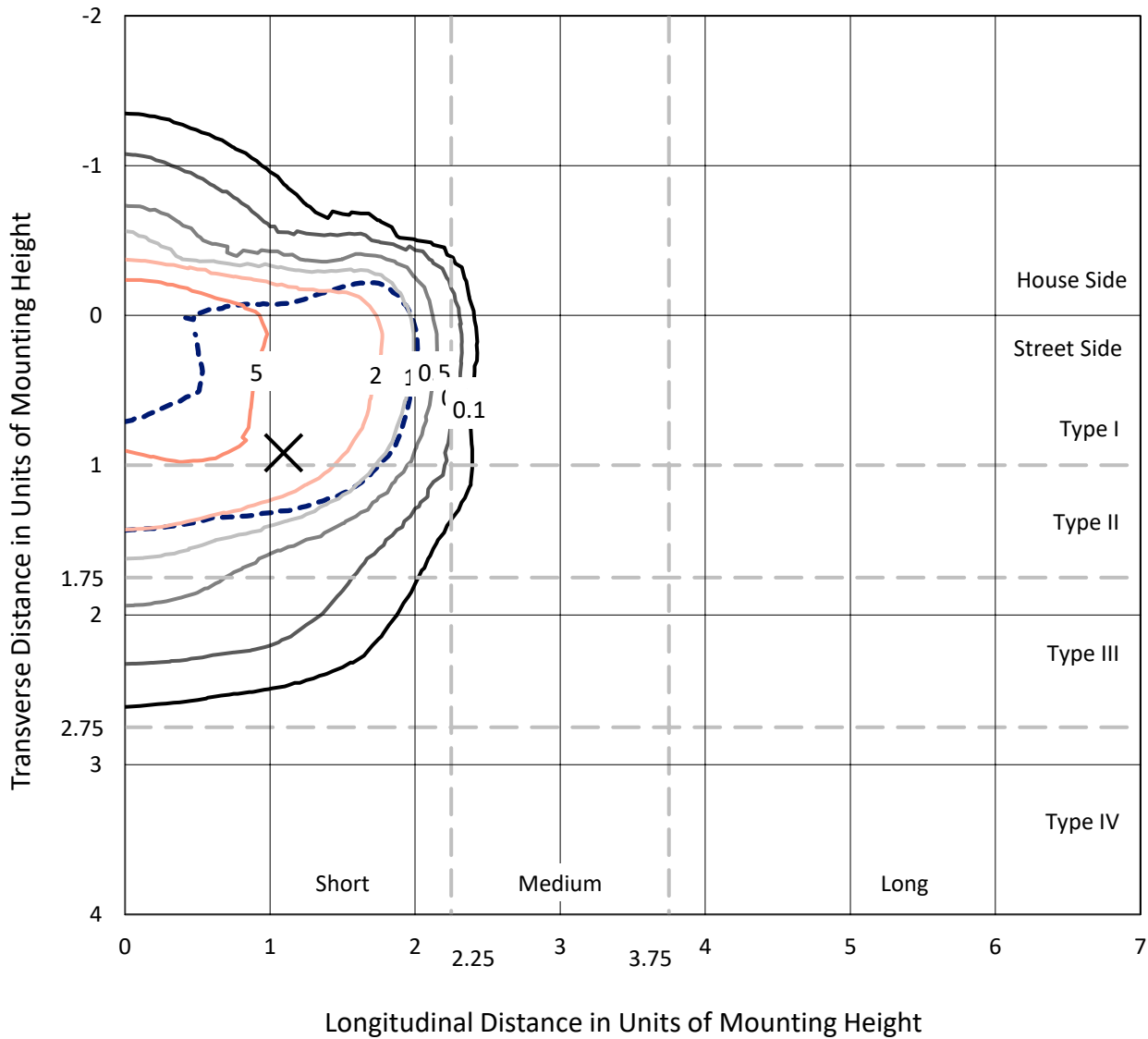
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

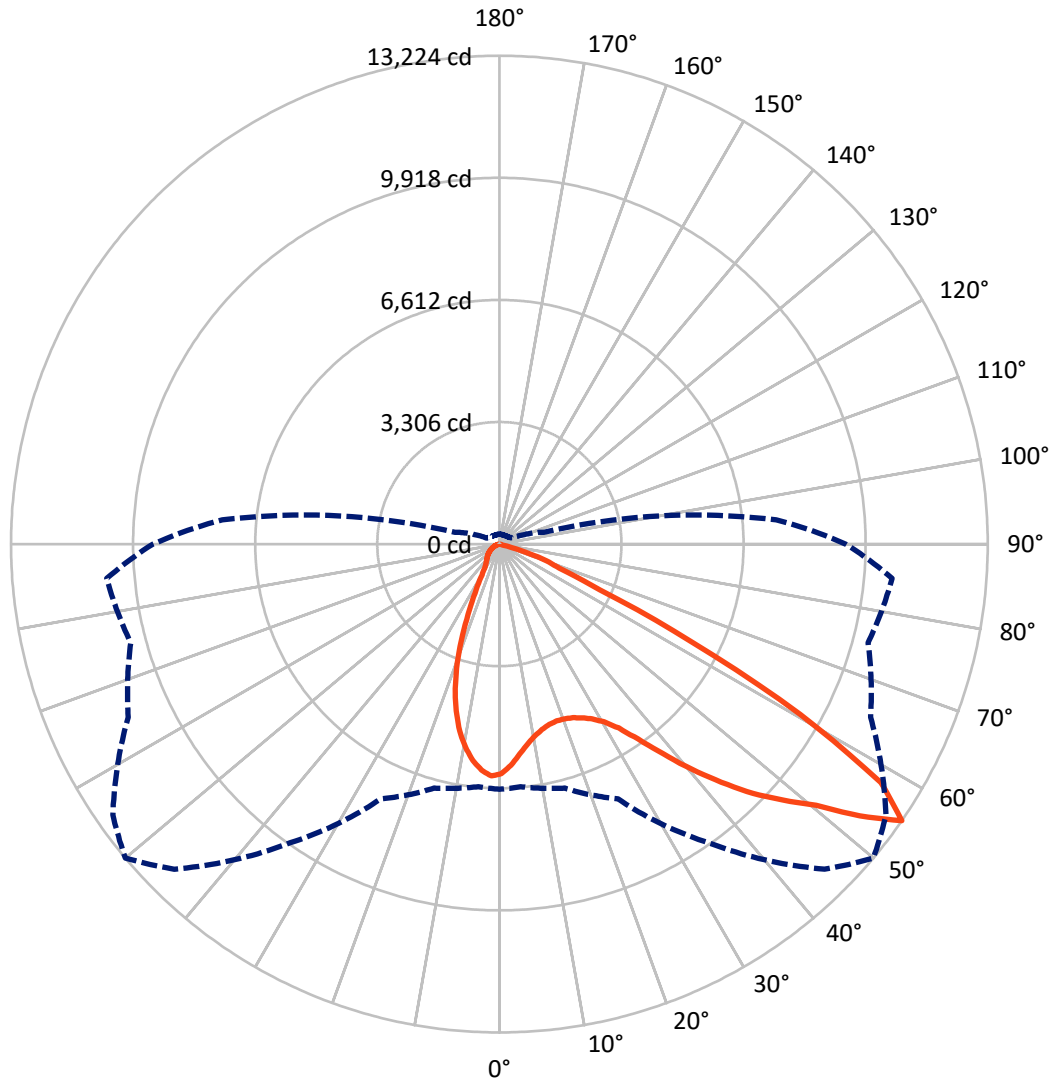
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	3492.3	0.0	3492.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	14231.0	0.0	14231.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	17723.3	0.0	17723.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.1	3.1
10°-20°	1343.9	7.6
20°-30°	1895.6	10.7
30°-40°	2805.0	15.8
40°-50°	4046.8	22.8
50°-60°	4773.5	26.9
60°-70°	2129.4	12.0
70°-80°	183.1	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°	17723.3	100.0
0°-180°	17723.3	100.0

Coefficient of Utilization



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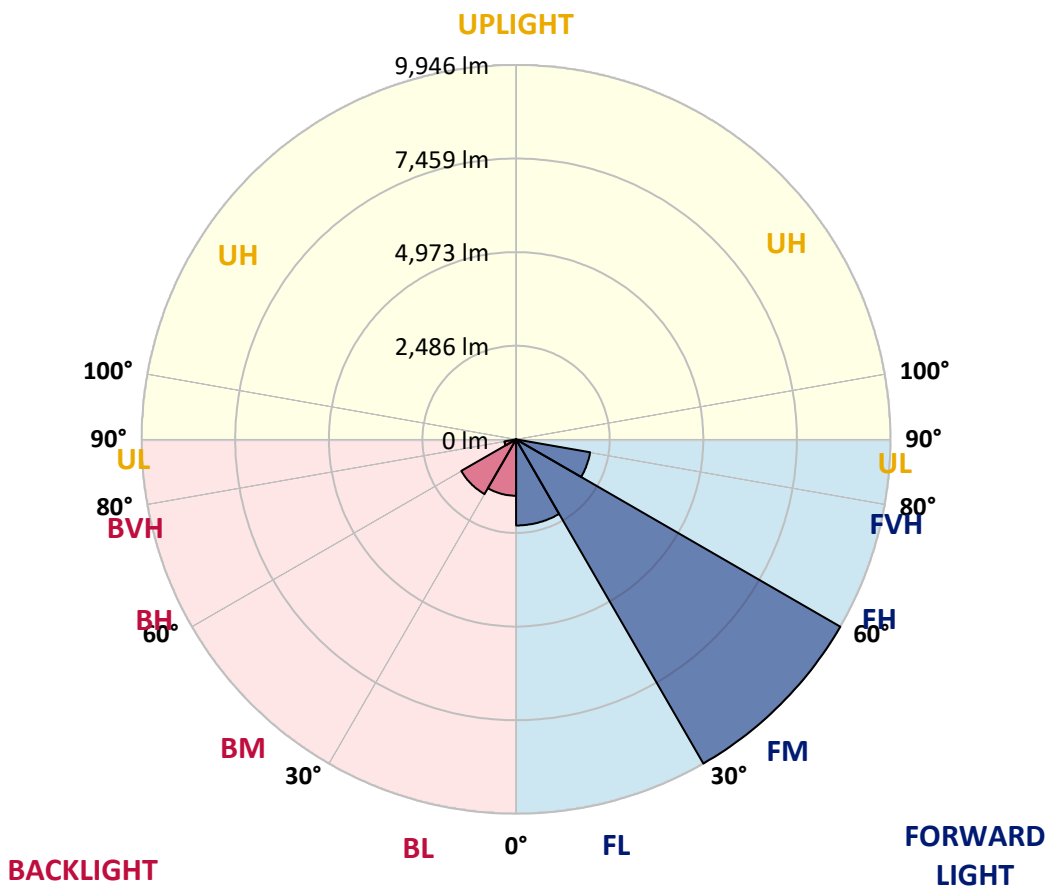
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2288.1	12.9			
FM (30°-60°)	9945.7	56.1			
FH (60°-80°)	1997.1	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1497.4	8.4	B3/2500		
BM (30°-60°)	1679.6	9.5	B2/2500		
BH (60°-80°)	315.3	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°	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3
2.5°	5776.9	5781.3	5783.4	5841.8	5863.5	5950.0	5995.5	6019.3	6082.0	6155.6	6216.2
5°	5389.6	5383.2	5394.0	5467.5	5515.1	5642.8	5712.0	5759.6	5898.1	6071.2	6216.2
7.5°	5052.1	5065.1	5078.1	5158.1	5229.5	5368.0	5467.5	5538.9	5731.5	5989.0	6233.5
10°	4814.1	4814.1	4833.6	4924.5	5008.8	5179.8	5279.3	5370.2	5599.5	5915.4	6252.9
12.5°	4638.9	4641.0	4664.8	4768.7	4866.0	5043.5	5147.3	5236.0	5489.2	5841.8	6257.3
15°	4556.6	4550.1	4569.6	4680.0	4788.1	4954.7	5062.9	5149.5	5411.3	5800.7	6278.9
17.5°	4535.0	4530.7	4545.8	4654.0	4764.3	4926.6	5032.6	5119.2	5400.5	5813.7	6343.8
20°	4597.7	4589.1	4582.6	4675.6	4779.5	4939.6	5050.0	5147.3	5452.4	5885.1	6443.3
22.5°	4747.0	4747.0	4731.9	4777.3	4846.6	4991.5	5106.2	5233.9	5588.7	6027.9	6590.5
25°	5021.8	5000.2	4972.1	4991.5	4982.9	5073.8	5210.1	5387.5	5846.2	6263.8	6770.0
27.5°	5335.6	5355.0	5307.4	5309.6	5233.9	5201.4	5359.4	5627.6	6229.1	6597.0	7036.2
30°	5761.8	5746.6	5748.8	5742.3	5567.1	5413.4	5584.4	5941.4	6711.6	7105.4	7382.4
32.5°	6095.0	6116.6	6188.0	6229.1	5999.8	5753.1	5934.9	6367.6	7261.2	7685.3	7806.4
35°	6447.7	6486.6	6631.6	6765.7	6573.2	6289.7	6484.4	6932.3	7778.3	8258.6	8293.3
37.5°	6819.8	6897.7	7070.8	7306.6	7276.3	7025.4	7202.8	7596.6	8185.1	8604.8	8695.7
40°	7246.1	7321.8	7605.2	7944.9	8016.3	7960.1	8018.5	8247.8	8453.4	8620.0	8868.8
42.5°	7713.4	7817.3	8176.4	8630.8	8899.1	8948.8	8812.5	8788.7	8570.2	8446.9	8832.0
45°	8265.1	8386.3	8793.1	9381.6	9807.8	9874.9	9639.0	9334.0	8643.8	8319.2	8721.7
47.5°	8883.9	8998.6	9403.2	10110.7	10744.7	10770.6	10359.5	9868.4	8862.3	8466.3	8806.0
50°	9091.6	9163.0	9513.6	10344.4	11512.8	11711.8	11116.8	10469.9	9301.5	8899.1	9217.1
52.5°	8377.6	8405.8	8710.8	9550.3	11357.0	12635.7	12222.4	11367.8	10082.6	9559.0	9851.1
55°	6638.1	6592.6	6839.3	7609.5	9870.6	12447.5	13224.2	12778.5	11088.7	10333.6	10675.4
57.5°	4643.2	4589.1	4532.8	5054.3	7365.1	10552.1	12185.7	12975.4	12047.2	11101.7	11564.7
60°	3816.7	3764.7	3492.1	3252.0	4452.8	7577.1	9359.9	10846.4	11969.3	11062.7	11536.6
62.5°	3297.4	3267.1	3156.8	2830.0	2620.2	4325.1	5861.3	7285.0	9184.7	8687.0	8713.0
65°	2589.9	2581.2	2657.0	2691.6	2317.3	2393.0	2990.2	3786.4	4965.6	4682.1	4439.8
67.5°	1769.9	1750.4	1893.2	2328.1	2228.6	1888.9	1750.4	1765.5	2148.5	1313.3	1042.9
70°	1125.1	1079.7	1081.8	1443.2	1813.1	1490.8	1350.1	1187.8	1068.8	194.7	220.7
72.5°	720.5	692.4	595.0	651.3	839.5	727.0	733.5	631.8	421.9	103.9	121.2
75°	302.9	279.1	214.2	170.9	168.8	106.0	93.0	86.5	58.4	58.4	62.7
77.5°	2.2	0.0	0.0	2.2	4.3	2.2	2.2	4.3	8.7	13.0	15.1
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°	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3	6218.3
2.5°	6252.9	6201.0	6259.4	6281.1	6278.9	6281.1	6218.3	6175.0	6172.9	6118.8	6092.8
5°	6276.7	6235.6	6278.9	6250.8	6183.7	6099.3	5986.8	5889.4	5846.2	5783.4	5753.1
7.5°	6322.2	6278.9	6272.4	6159.9	5993.3	5815.9	5616.8	5439.4	5344.2	5229.5	5236.0
10°	6354.6	6304.9	6220.5	5991.1	5714.2	5430.8	5134.3	4870.4	4703.8	4550.1	4524.2
12.5°	6367.6	6294.0	6097.2	5751.0	5361.5	4991.5	4556.6	4180.2	3920.5	3719.3	3691.2
15°	6391.4	6272.4	5939.2	5461.0	4926.6	4403.0	3849.1	3334.2	2990.2	2758.6	2778.1
17.5°	6428.2	6248.6	5761.8	5136.5	4459.3	3719.3	2970.7	2380.0	2064.1	1930.0	1932.1
20°	6480.1	6220.5	5567.1	4779.5	3898.9	2946.9	2077.1	1631.4	1542.7	1538.4	1531.9
22.5°	6549.4	6192.4	5359.4	4387.9	3234.7	2064.1	1382.6	1244.1	1280.9	1352.3	1365.3
25°	6631.6	6157.7	5127.8	3946.5	2509.8	1354.4	1036.4	1014.8	1103.5	1198.7	1220.3
27.5°	6759.2	6140.4	4863.9	3444.5	1761.2	971.5	848.1	861.1	941.2	1021.2	1040.7
30°	6975.6	6172.9	4576.1	2882.0	1131.6	774.6	735.6	755.1	798.4	839.5	856.8
32.5°	7269.9	6268.1	4297.0	2267.5	807.0	672.9	664.2	675.1	692.4	716.2	722.7
35°	7613.9	6432.5	4009.2	1622.7	666.4	614.5	605.8	605.8	614.5	618.8	621.0
37.5°	7897.3	6605.6	3738.8	1079.7	597.2	569.0	556.1	549.6	547.4	551.7	553.9
40°	8020.6	6677.0	3444.5	785.4	547.4	527.9	508.5	489.0	489.0	504.1	506.3
42.5°	7934.1	6597.0	3104.8	649.1	512.8	484.7	454.4	437.1	445.7	460.9	465.2
45°	7750.2	6400.1	2730.5	573.4	478.2	441.4	406.8	395.9	404.6	424.1	428.4
47.5°	7719.9	6270.2	2282.6	523.6	441.4	404.6	367.8	357.0	367.8	383.0	387.3
50°	8020.6	6382.8	1785.0	480.3	406.8	365.7	335.4	324.5	331.0	339.7	344.0
52.5°	8570.2	6800.3	1441.0	439.2	365.7	326.7	307.2	294.3	294.3	302.9	305.1
55°	9381.6	7529.5	1244.1	391.6	318.1	296.4	279.1	266.1	266.1	270.5	272.6
57.5°	10316.3	8412.3	1289.5	328.9	279.1	268.3	253.1	242.3	246.7	246.7	246.7
60°	10186.4	8347.3	1380.4	276.9	246.7	242.3	229.3	225.0	235.8	227.2	222.9
62.5°	7503.5	5766.1	722.7	227.2	212.0	207.7	199.1	207.7	222.9	199.1	190.4
65°	3643.6	2791.1	289.9	186.1	179.6	175.3	170.9	183.9	192.6	155.8	147.1
67.5°	856.8	696.7	188.2	157.9	149.3	140.6	145.0	147.1	140.6	106.0	101.7
70°	222.9	218.5	147.1	132.0	119.0	110.3	110.3	108.2	93.0	67.1	62.7
72.5°	121.2	119.0	106.0	99.5	82.2	73.6	75.7	67.1	51.9	38.9	36.8
75°	60.6	64.9	60.6	56.3	45.4	41.1	41.1	36.8	26.0	15.1	15.1
77.5°	13.0	15.1	15.1	13.0	10.8	8.7	8.7	10.8	4.3	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)