

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: P638304

Luminaire Tested: GWS-SA4E-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638304
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18381.3 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

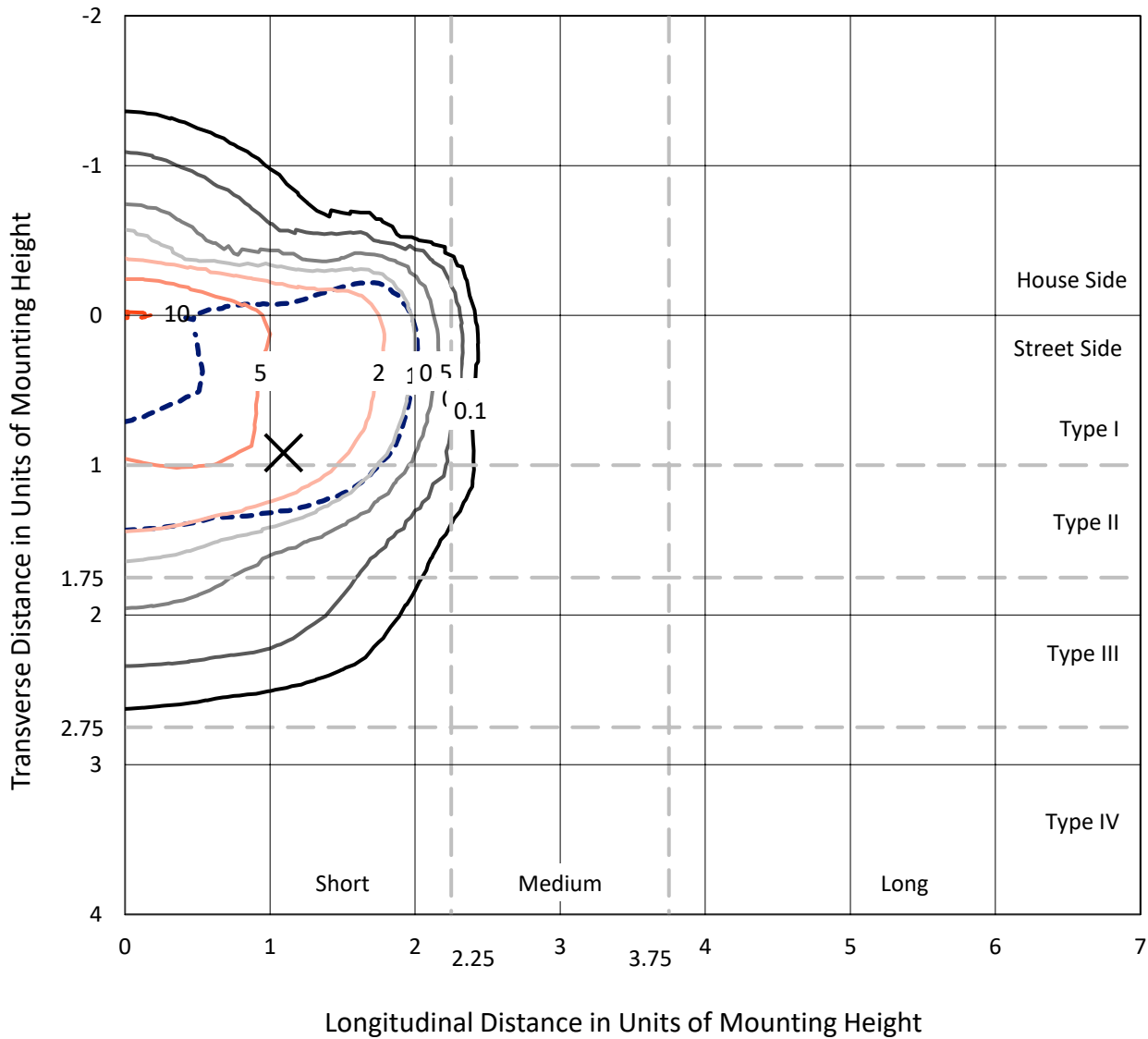
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

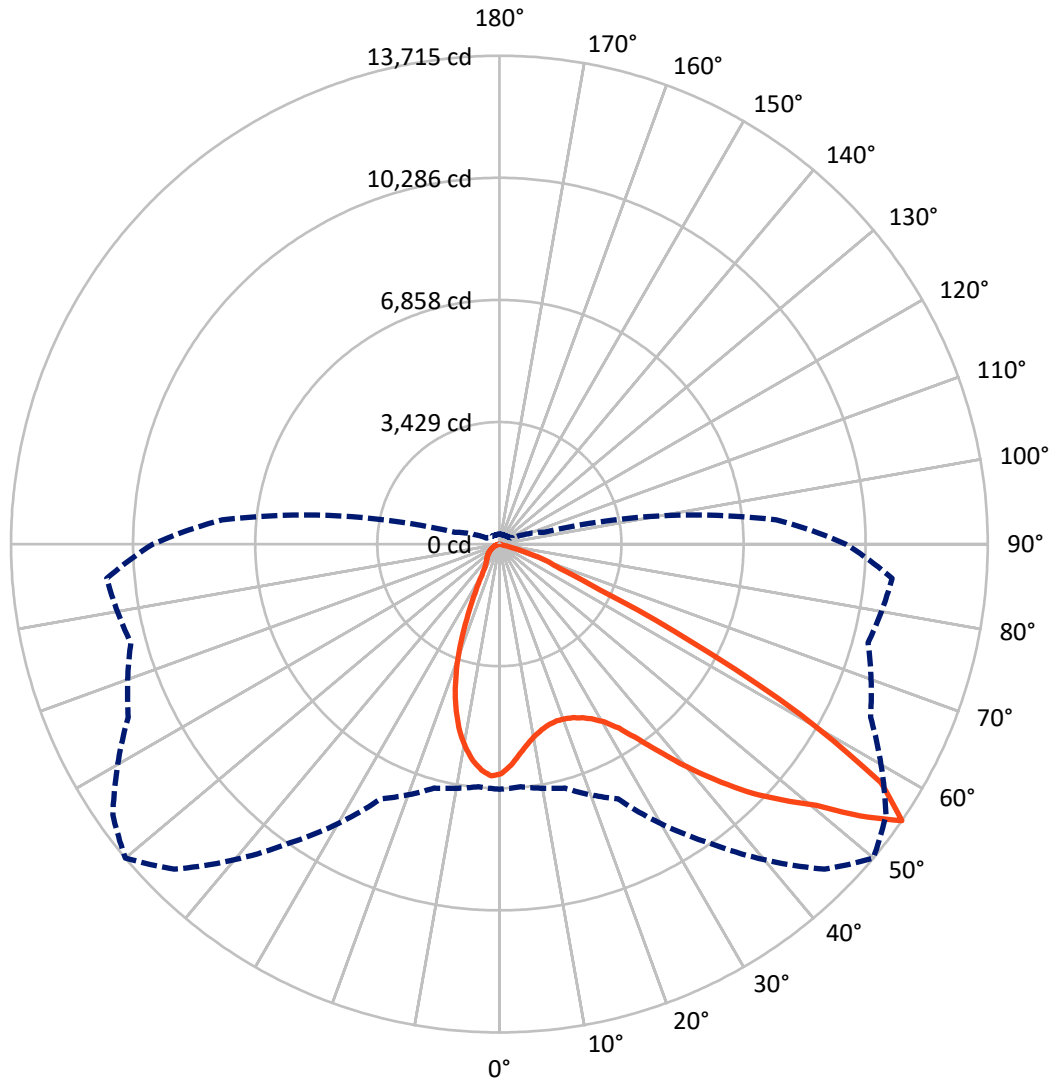
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	3622.0	0.0	3622.0
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	14759.3	0.0	14759.3
	% Fixture	80.3	0.0	80.3
Total	Lumens	18381.3	0.0	18381.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.4	3.1
10°-20°	1393.8	7.6
20°-30°	1965.9	10.7
30°-40°	2909.2	15.8
40°-50°	4197.0	22.8
50°-60°	4950.7	26.9
60°-70°	2208.4	12.0
70°-80°	189.9	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°	18381.3	100.0
0°-180°	18381.3	100.0

Coefficient of Utilization

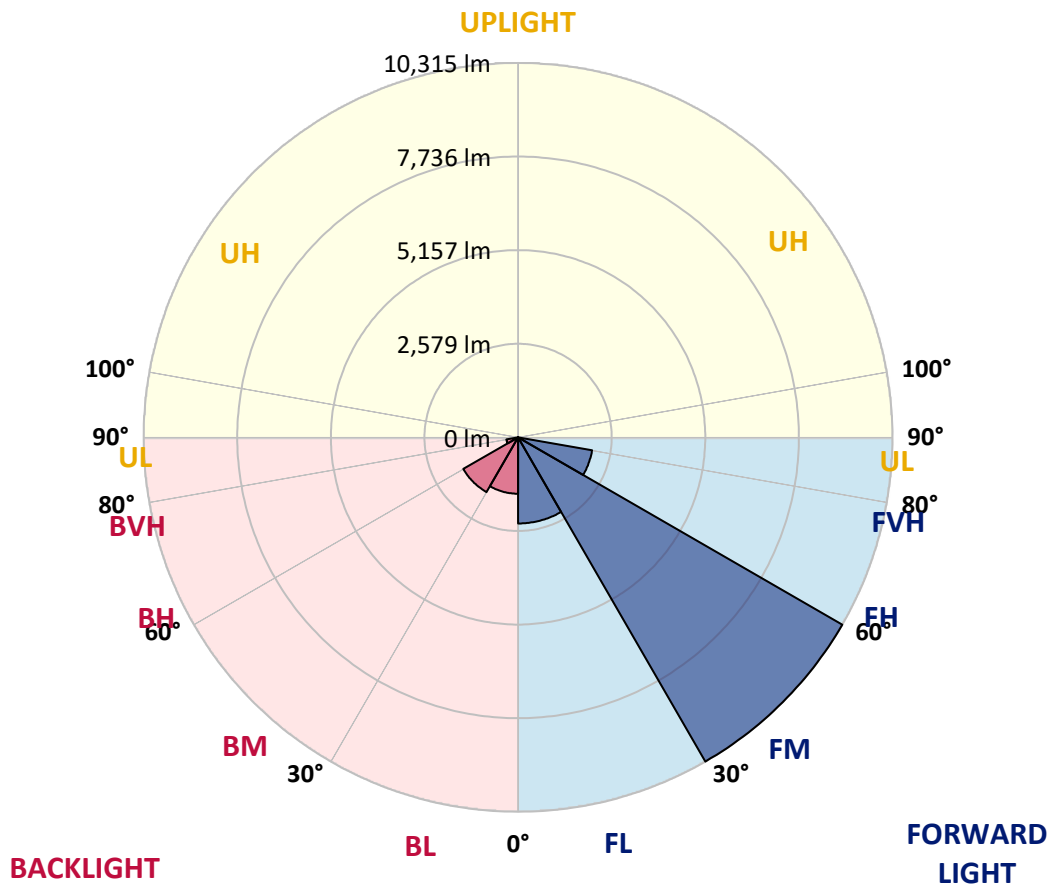


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.1	12.9			
FM (30°-60°)	10315.0	56.1			
FH (60°-80°)	2071.2	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1553.0	8.4	B3/2500		
BM (30°-60°)	1741.9	9.5	B2/2500		
BH (60°-80°)	327.0	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°	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2
2.5°	5991.4	5995.9	5998.1	6058.7	6081.2	6170.9	6218.1	6242.7	6307.8	6384.1	6446.9
5°	5589.7	5583.0	5594.2	5670.5	5719.9	5852.3	5924.1	5973.5	6117.1	6296.6	6446.9
7.5°	5239.7	5253.1	5266.6	5349.6	5423.7	5567.3	5670.5	5744.6	5944.3	6211.3	6464.9
10°	4992.8	4992.8	5013.0	5107.3	5194.8	5372.1	5475.3	5569.5	5807.4	6135.0	6485.1
12.5°	4811.1	4813.3	4838.0	4945.7	5046.7	5230.7	5338.4	5430.4	5693.0	6058.7	6489.6
15°	4725.8	4719.1	4739.3	4853.7	4965.9	5138.7	5250.9	5340.7	5612.2	6016.1	6512.0
17.5°	4703.4	4698.9	4714.6	4826.8	4941.2	5109.5	5219.5	5309.2	5601.0	6029.6	6579.3
20°	4768.4	4759.5	4752.7	4849.2	4956.9	5123.0	5237.4	5338.4	5654.8	6103.6	6682.6
22.5°	4923.3	4923.3	4907.6	4954.7	5026.5	5176.8	5295.8	5428.2	5796.2	6251.7	6835.1
25°	5208.3	5185.8	5156.7	5176.8	5167.9	5262.1	5403.5	5587.5	6063.2	6496.3	7021.4
27.5°	5533.6	5553.8	5504.5	5506.7	5428.2	5394.5	5558.3	5836.6	6460.4	6841.9	7297.4
30°	5975.7	5960.0	5962.2	5955.5	5773.7	5614.4	5791.7	6162.0	6960.8	7369.2	7656.4
32.5°	6321.3	6343.7	6417.8	6460.4	6222.5	5966.7	6155.2	6604.0	7530.8	7970.6	8096.3
35°	6687.0	6727.4	6877.8	7016.9	6817.2	6523.2	6725.2	7189.7	8067.1	8565.2	8601.2
37.5°	7073.0	7153.8	7333.3	7577.9	7546.5	7286.2	7470.2	7878.6	8489.0	8924.3	9018.5
40°	7515.1	7593.6	7887.6	8239.9	8313.9	8255.6	8316.2	8554.0	8767.2	8940.0	9198.1
42.5°	7999.8	8107.5	8480.0	8951.2	9229.5	9281.1	9139.7	9115.0	8888.4	8760.5	9159.9
45°	8572.0	8697.6	9119.5	9729.9	10171.9	10241.5	9996.9	9680.5	8964.7	8628.1	9045.5
47.5°	9213.8	9332.7	9752.3	10486.1	11143.6	11170.5	10744.1	10234.8	9191.3	8780.7	9133.0
50°	9429.2	9503.2	9866.8	10728.4	11940.2	12146.6	11529.5	10858.6	9646.8	9229.5	9559.3
52.5°	8688.7	8717.8	9034.2	9904.9	11778.6	13104.8	12676.2	11789.8	10456.9	9913.9	10216.8
55°	6884.5	6837.4	7093.2	7892.1	10237.0	12909.6	13715.2	13252.9	11500.4	10717.2	11071.8
57.5°	4815.6	4759.5	4701.1	5241.9	7638.5	10943.9	12638.1	13457.1	12494.4	11513.8	11994.0
60°	3958.4	3904.5	3621.8	3372.7	4618.1	7858.4	9707.4	11249.0	12413.7	11473.4	11964.9
62.5°	3419.8	3388.4	3274.0	2935.1	2717.5	4485.7	6078.9	7555.5	9525.7	9009.6	9036.5
65°	2686.0	2677.1	2755.6	2791.5	2403.3	2481.8	3101.2	3927.0	5149.9	4856.0	4604.6
67.5°	1835.6	1815.4	1963.5	2414.5	2311.3	1959.0	1815.4	1831.1	2228.3	1362.1	1081.6
70°	1166.9	1119.7	1122.0	1496.7	1880.5	1546.1	1400.2	1231.9	1108.5	202.0	228.9
72.5°	747.2	718.1	617.1	675.4	870.7	754.0	760.7	655.2	437.6	107.7	125.7
75°	314.2	289.5	222.2	177.3	175.0	110.0	96.5	89.8	60.6	60.6	65.1
77.5°	2.2	0.0	0.0	2.2	4.5	2.2	2.2	4.5	9.0	13.5	15.7
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°	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2	6449.2
2.5°	6485.1	6431.2	6491.8	6514.3	6512.0	6514.3	6449.2	6404.3	6402.1	6346.0	6319.0
5°	6509.8	6467.1	6512.0	6482.8	6413.3	6325.8	6209.1	6108.1	6063.2	5998.1	5966.7
7.5°	6556.9	6512.0	6505.3	6388.6	6215.8	6031.8	5825.4	5641.4	5542.6	5423.7	5430.4
10°	6590.6	6538.9	6451.4	6213.6	5926.3	5632.4	5325.0	5051.2	4878.4	4719.1	4692.2
12.5°	6604.0	6527.7	6323.5	5964.5	5560.6	5176.8	4725.8	4335.4	4066.1	3857.4	3828.2
15°	6628.7	6505.3	6159.7	5663.8	5109.5	4566.5	3992.0	3458.0	3101.2	2861.1	2881.3
17.5°	6666.8	6480.6	5975.7	5327.2	4624.8	3857.4	3081.0	2468.4	2140.8	2001.6	2003.9
20°	6720.7	6451.4	5773.7	4956.9	4043.6	3056.3	2154.2	1692.0	1600.0	1595.5	1588.7
22.5°	6792.5	6422.3	5558.3	4550.8	3354.7	2140.8	1433.9	1290.3	1328.4	1402.5	1415.9
25°	6877.8	6386.4	5318.2	4093.0	2603.0	1404.7	1074.9	1052.4	1144.4	1243.2	1265.6
27.5°	7010.2	6368.4	5044.5	3572.4	1826.6	1007.5	879.6	893.1	976.1	1059.2	1079.4
30°	7234.6	6402.1	4746.0	2989.0	1173.6	803.3	763.0	783.1	828.0	870.7	888.6
32.5°	7539.8	6500.8	4456.5	2351.7	837.0	697.9	688.9	700.1	718.1	742.8	749.5
35°	7896.5	6671.3	4158.1	1683.0	691.1	637.3	628.3	628.3	637.3	641.8	644.0
37.5°	8190.5	6850.9	3877.6	1119.7	619.3	590.2	576.7	570.0	567.7	572.2	574.5
40°	8318.4	6924.9	3572.4	814.6	567.7	547.5	527.3	507.1	507.1	522.8	525.1
42.5°	8228.7	6841.9	3220.1	673.2	531.8	502.7	471.2	453.3	462.3	478.0	482.5
45°	8037.9	6637.7	2831.9	594.7	495.9	457.8	421.9	410.6	419.6	439.8	444.3
47.5°	8006.5	6503.0	2367.4	543.0	457.8	419.6	381.5	370.3	381.5	397.2	401.7
50°	8318.4	6619.7	1851.3	498.2	421.9	379.2	347.8	336.6	343.3	352.3	356.8
52.5°	8888.4	7052.8	1494.5	455.5	379.2	338.8	318.6	305.2	305.2	314.2	316.4
55°	9729.9	7809.0	1290.3	406.2	329.9	307.4	289.5	276.0	276.0	280.5	282.7
57.5°	10699.3	8724.6	1337.4	341.1	289.5	278.3	262.5	251.3	255.8	255.8	255.8
60°	10564.6	8657.3	1431.7	287.2	255.8	251.3	237.9	233.4	244.6	235.6	231.1
62.5°	7782.1	5980.2	749.5	235.6	219.9	215.4	206.4	215.4	231.1	206.4	197.5
65°	3778.9	2894.7	300.7	193.0	186.2	181.8	177.3	190.7	199.7	161.6	152.6
67.5°	888.6	722.6	195.2	163.8	154.8	145.9	150.3	152.6	145.9	110.0	105.5
70°	231.1	226.6	152.6	136.9	123.4	114.4	114.4	112.2	96.5	69.6	65.1
72.5°	125.7	123.4	110.0	103.2	85.3	76.3	78.5	69.6	53.9	40.4	38.1
75°	62.8	67.3	62.8	58.3	47.1	42.6	42.6	38.1	26.9	15.7	15.7
77.5°	13.5	15.7	15.7	13.5	11.2	9.0	9.0	11.2	4.5	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)