

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: P641223

Luminaire Tested: GWS-SA5F-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641223
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24412.6 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

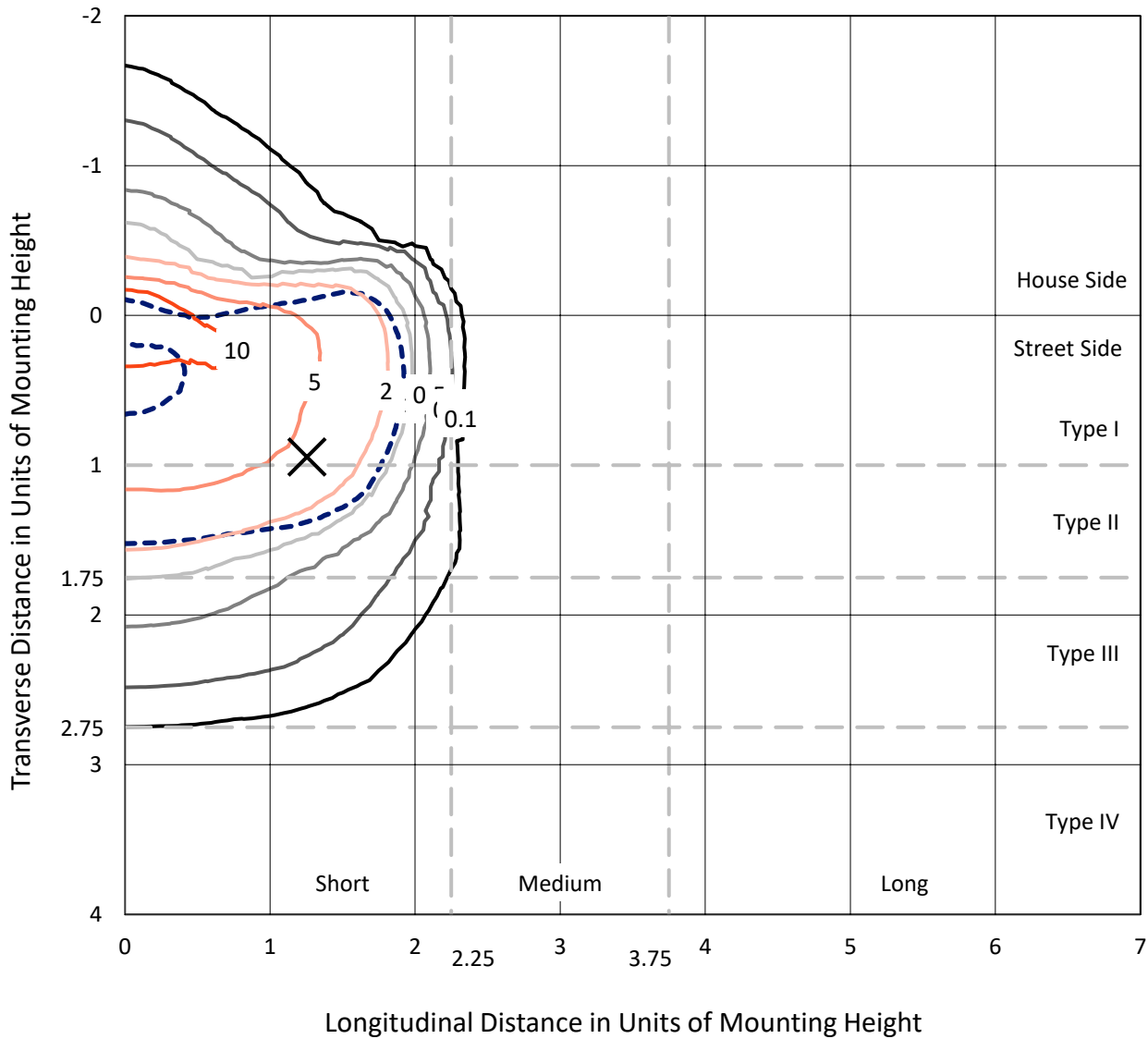
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

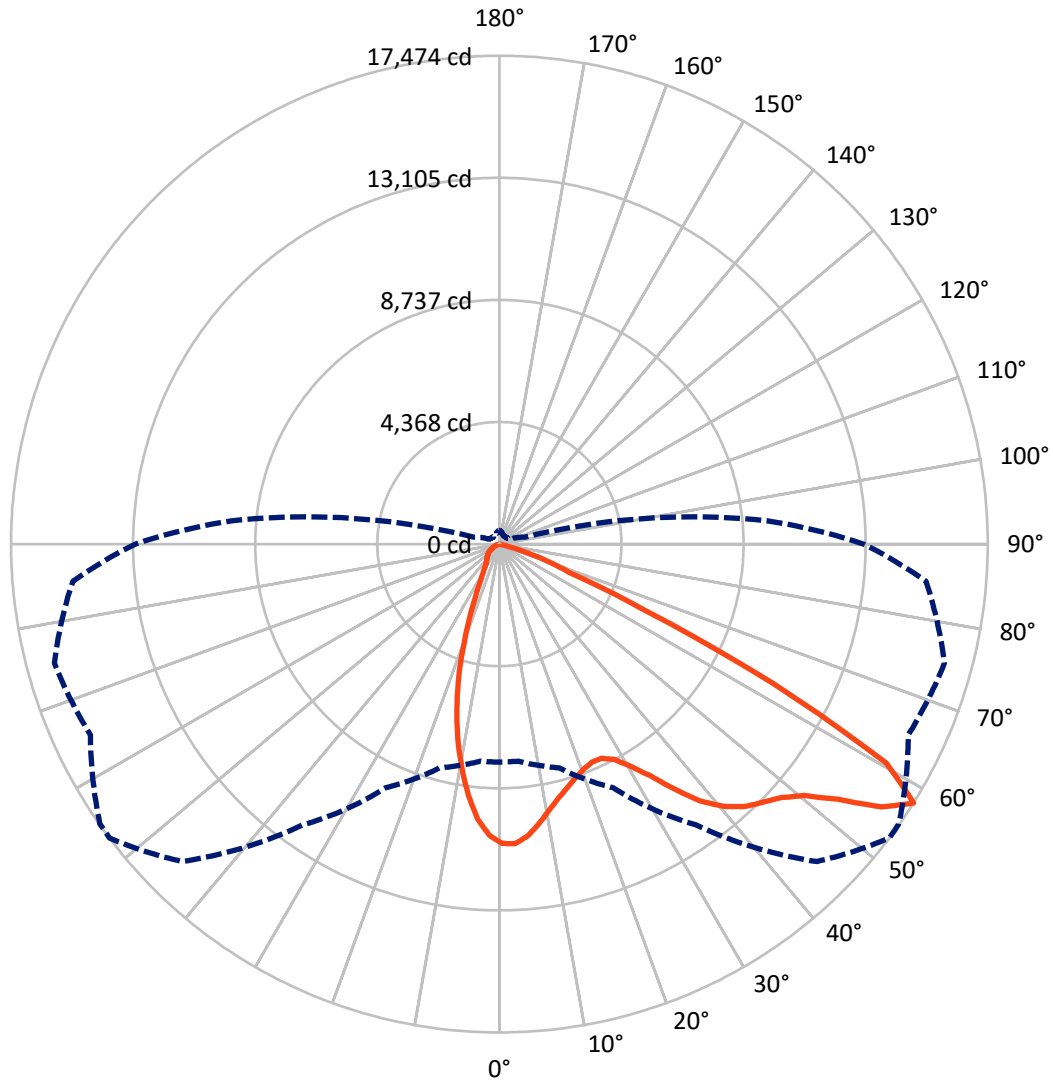
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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
House Side	Lumens	4032.6	0.0	4032.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20380.0	0.0	20380.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	24412.6	0.0	24412.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.2	3.8
10°-20°	2011.4	8.2
20°-30°	2620.4	10.7
30°-40°	3800.9	15.6
40°-50°	5484.4	22.5
50°-60°	6632.9	27.2
60°-70°	2703.3	11.1
70°-80°	242.9	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°	24412.6	100.0
0°-180°	24412.6	100.0

Coefficient of Utilization



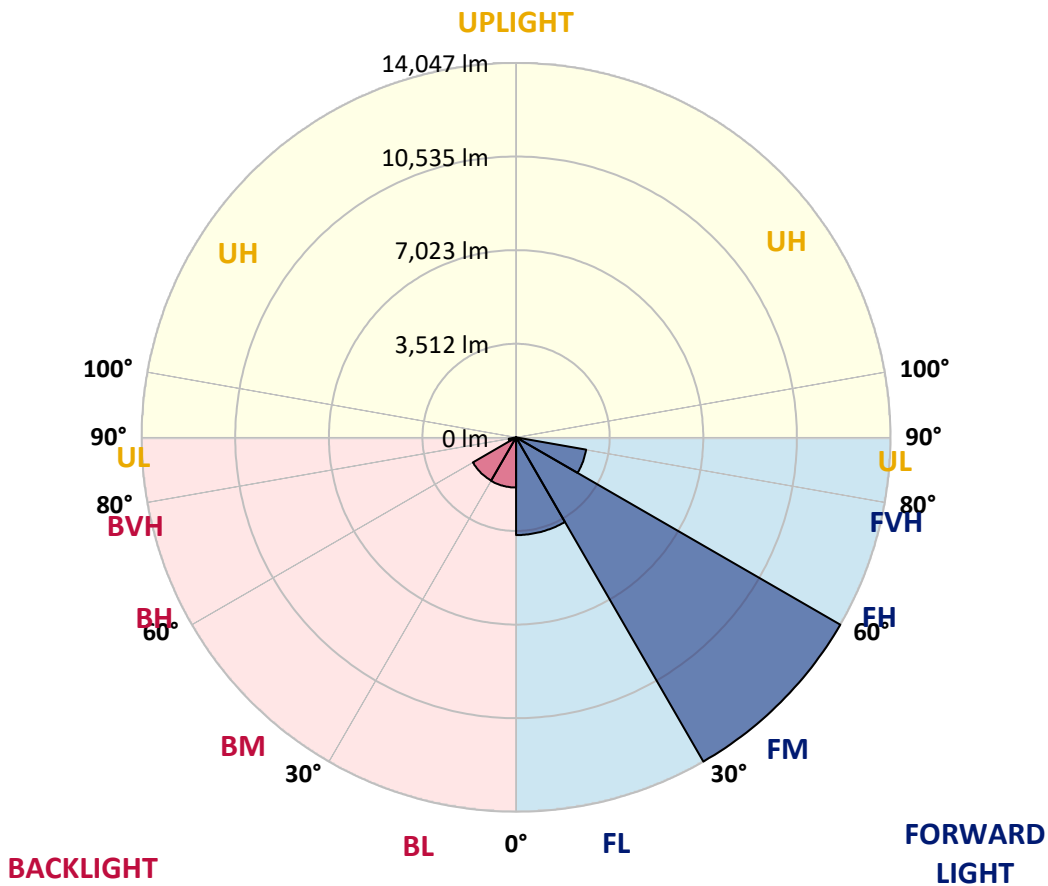
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3666.0	15.0			
FM (30°-60°)	14046.5	57.5			
FH (60°-80°)	2667.5	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1882.1	7.7	B3/2500		
BM (30°-60°)	1871.8	7.7	B2/2500		
BH (60°-80°)	278.8	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°	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8
2.5°	10559.2	10583.1	10625.0	10678.8	10714.7	10732.7	10732.7	10783.6	10750.6	10723.7	10693.8
5°	10107.3	10131.3	10188.1	10274.9	10361.7	10424.5	10496.3	10550.2	10571.1	10571.1	10520.3
7.5°	9470.0	9502.9	9538.8	9658.5	9847.0	9987.7	10110.3	10188.1	10301.8	10337.7	10265.9
10°	8784.8	8817.7	8898.5	9063.1	9278.5	9488.0	9697.4	9796.2	9990.7	10092.4	10011.6
12.5°	8204.4	8219.3	8327.0	8524.5	8799.8	9087.0	9341.4	9443.1	9718.4	9871.0	9775.2
15°	7725.6	7734.6	7842.3	8060.7	8377.9	8731.0	9051.1	9155.9	9494.0	9724.4	9580.7
17.5°	7363.6	7366.6	7459.3	7695.7	8027.8	8419.8	8799.8	8928.5	9365.3	9643.6	9428.1
20°	7181.1	7172.1	7237.9	7444.4	7758.5	8150.5	8599.3	8757.9	9293.5	9631.6	9311.4
22.5°	7184.1	7163.1	7190.0	7336.7	7602.9	7971.0	8473.7	8653.2	9299.5	9682.5	9212.7
25°	7354.6	7324.7	7330.7	7408.5	7597.0	7932.1	8491.6	8683.1	9419.2	9853.0	9176.8
27.5°	7641.8	7608.9	7608.9	7647.8	7749.6	8054.8	8716.0	8934.4	9739.3	10185.1	9251.6
30°	8012.9	7980.0	7968.0	8006.9	8090.7	8371.9	9215.7	9443.1	10286.9	10729.7	9491.0
32.5°	8437.7	8398.8	8419.8	8473.7	8554.4	8943.4	9859.0	10161.2	10972.1	11462.8	9921.8
35°	8886.6	8853.7	8949.4	9066.1	9191.8	9736.3	10747.7	11011.0	11812.8	12375.4	10580.1
37.5°	9314.4	9299.5	9499.9	9745.3	10005.6	10687.8	11651.3	11854.7	12533.9	13368.7	11385.0
40°	9742.3	9739.3	10083.4	10514.3	10930.2	11636.3	12336.5	12504.0	12973.8	14140.7	12156.9
42.5°	10221.0	10221.0	10696.8	11271.3	11824.8	12438.2	12839.1	12913.9	13171.3	14586.5	12737.4
45°	10678.8	10705.8	11256.3	11923.6	12578.8	13063.5	13186.2	13192.2	13252.1	14849.8	13219.1
47.5°	11040.9	11064.8	11723.1	12492.1	13198.2	13539.3	13557.2	13530.3	13464.5	15101.2	13590.2
50°	11334.1	11370.0	12058.2	12872.1	13623.1	13997.1	14134.7	14107.8	13940.2	15370.5	13850.5
52.5°	11477.7	11528.6	12174.9	13060.6	14095.8	14781.0	15164.0	15226.8	14652.4	15520.1	14098.8
55°	10328.8	10403.6	10999.0	12210.8	14359.1	15992.8	16594.2	16582.3	15424.3	15965.9	14703.2
57.5°	7800.4	7794.4	8288.1	9613.6	12264.7	16061.6	17473.9	17450.0	16145.4	16483.5	15322.6
60°	5311.0	5275.1	5406.7	6047.1	8575.4	13084.5	15903.1	16226.2	15633.8	15226.8	13009.7
62.5°	4371.5	4338.6	4296.7	4120.1	4925.0	8150.5	10987.0	11477.7	11399.9	10583.1	8159.5
65°	3578.6	3605.5	3722.2	3647.4	3426.0	4180.0	5703.0	5993.2	5478.6	4610.8	2851.5
67.5°	2639.0	2651.0	2803.6	3198.6	3078.9	2782.7	2683.9	2731.8	1600.8	736.1	475.7
70°	1558.9	1567.9	1708.5	2238.1	2498.4	2136.4	1813.2	1786.3	634.3	197.5	215.4
72.5°	882.7	864.7	891.6	1065.2	1361.4	1134.0	933.5	849.8	191.5	110.7	110.7
75°	418.9	406.9	350.1	329.1	299.2	191.5	119.7	101.7	47.9	44.9	44.9
77.5°	3.0	9.0	6.0	9.0	9.0	6.0	3.0	3.0	9.0	9.0	12.0
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°	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8	10708.8
2.5°	10639.9	10550.2	10529.2	10523.2	10439.5	10349.7	10256.9	10221.0	10167.2	10134.3	10161.2
5°	10439.5	10310.8	10197.1	10092.4	9906.9	9703.4	9526.9	9413.2	9305.5	9233.6	9251.6
7.5°	10155.2	9987.7	9727.3	9461.0	9119.9	8814.8	8473.7	8264.2	8069.7	7962.0	8012.9
10°	9853.0	9631.6	9215.7	8763.9	8228.3	7749.6	7261.8	6863.9	6633.5	6415.1	6439.0
12.5°	9556.8	9263.6	8641.2	7956.0	7279.8	6573.7	5837.6	5287.1	4910.1	4637.8	4595.9
15°	9281.5	8904.5	8081.7	7178.1	6256.5	5317.0	4377.5	3590.5	3153.7	2884.4	2866.4
17.5°	9036.2	8569.4	7501.2	6364.2	5209.3	4006.4	2926.3	2336.8	2085.5	1968.8	1956.8
20°	8799.8	8231.3	6908.8	5538.4	4066.3	2812.6	2019.7	1747.4	1666.6	1618.7	1624.7
22.5°	8572.4	7863.3	6286.4	4622.8	3049.0	1974.8	1564.9	1460.1	1451.2	1457.2	1460.1
25°	8380.9	7525.2	5646.1	3740.1	2175.3	1505.0	1307.6	1277.6	1304.6	1343.5	1349.4
27.5°	8282.2	7249.9	5020.8	2851.5	1573.8	1223.8	1134.0	1146.0	1193.9	1235.7	1241.7
30°	8309.1	7043.4	4374.5	2067.5	1211.8	1032.3	1002.4	1026.3	1074.2	1113.1	1119.0
32.5°	8500.6	6938.7	3713.2	1505.0	996.4	900.6	888.7	906.6	948.5	978.4	981.4
35°	8880.6	6962.6	3084.9	1152.0	855.7	801.9	798.9	810.9	831.8	852.8	855.7
37.5°	9440.1	7157.1	2465.5	957.5	775.0	736.1	724.1	724.1	739.1	748.0	754.0
40°	10041.5	7450.4	1974.8	846.8	718.1	676.2	652.3	643.3	655.3	667.2	670.2
42.5°	10538.2	7743.6	1603.8	769.0	673.2	616.4	586.5	580.5	595.4	616.4	622.4
45°	10918.2	7971.0	1337.5	706.1	622.4	559.5	526.6	526.6	553.5	589.4	595.4
47.5°	11265.3	8153.5	1140.0	649.3	574.5	508.7	475.7	481.7	526.6	574.5	583.5
50°	11501.7	8300.1	993.4	598.4	535.6	466.8	436.8	448.8	502.7	559.5	568.5
52.5°	11756.0	8479.6	897.6	553.5	499.7	433.9	406.9	415.9	475.7	538.6	550.5
55°	12459.1	9081.1	894.6	493.7	436.8	389.0	377.0	380.0	439.8	511.7	526.6
57.5°	13033.6	9610.7	954.5	415.9	365.0	341.1	335.1	338.1	392.0	472.8	490.7
60°	10783.6	7468.3	789.9	344.1	305.2	299.2	290.2	296.2	347.1	418.9	433.9
62.5°	6382.2	4269.7	377.0	263.3	260.3	254.3	245.4	257.3	305.2	368.0	377.0
65°	2181.2	1265.7	239.4	215.4	221.4	212.4	203.5	215.4	257.3	293.2	296.2
67.5°	418.9	335.1	191.5	179.5	182.5	164.6	161.6	173.5	197.5	203.5	200.5
70°	218.4	194.5	146.6	146.6	140.6	116.7	116.7	128.7	128.7	119.7	116.7
72.5°	113.7	107.7	95.7	107.7	89.8	71.8	71.8	77.8	71.8	59.8	59.8
75°	44.9	44.9	41.9	53.9	38.9	32.9	29.9	35.9	26.9	20.9	20.9
77.5°	12.0	12.0	12.0	15.0	9.0	9.0	6.0	6.0	3.0	0.0	0.0
80°	0.0	3.0	0.0	3.0	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

(END OF REPORT)