

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: P640719

Luminaire Tested: GWS-SA5E-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31481.4 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

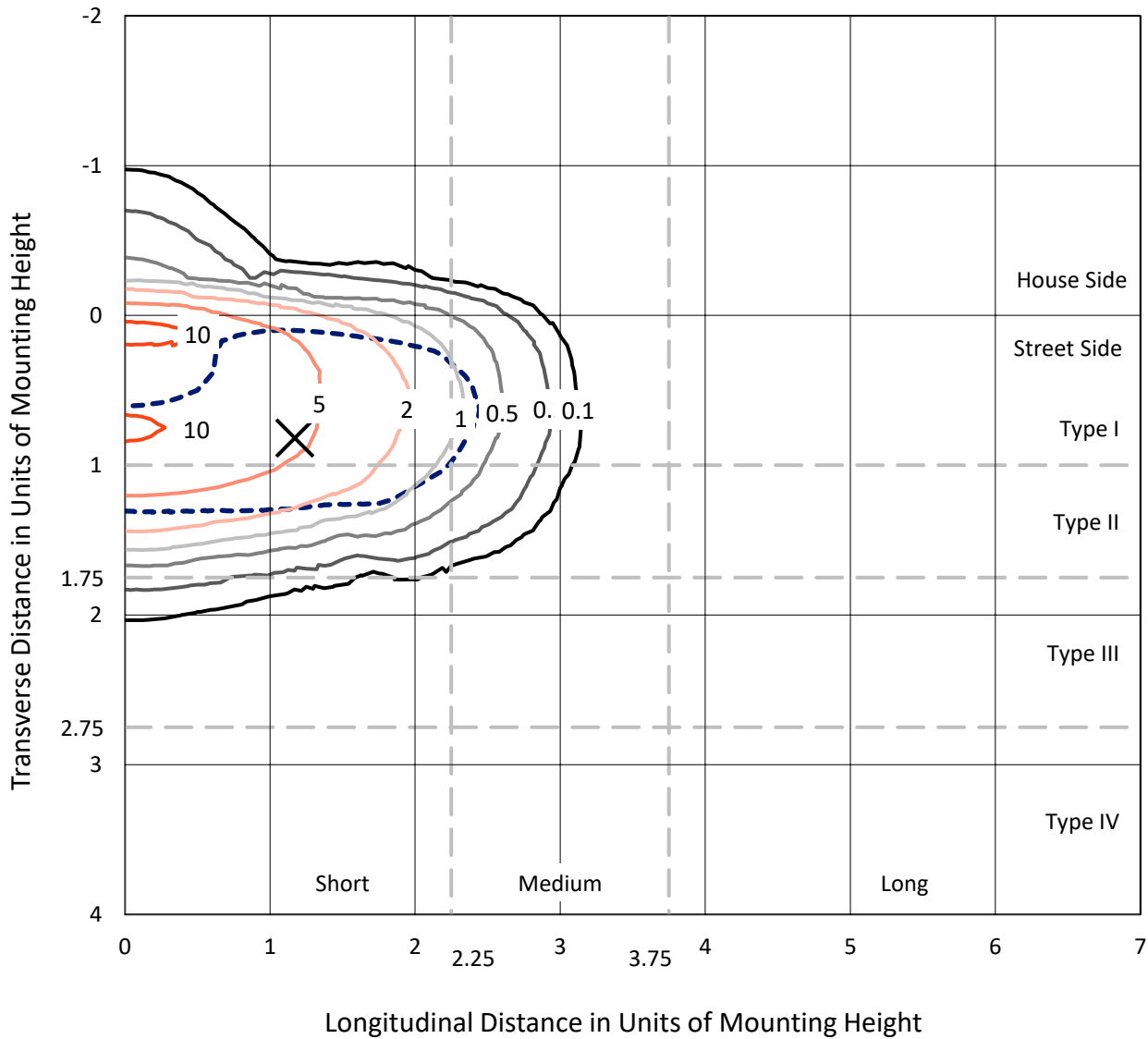
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

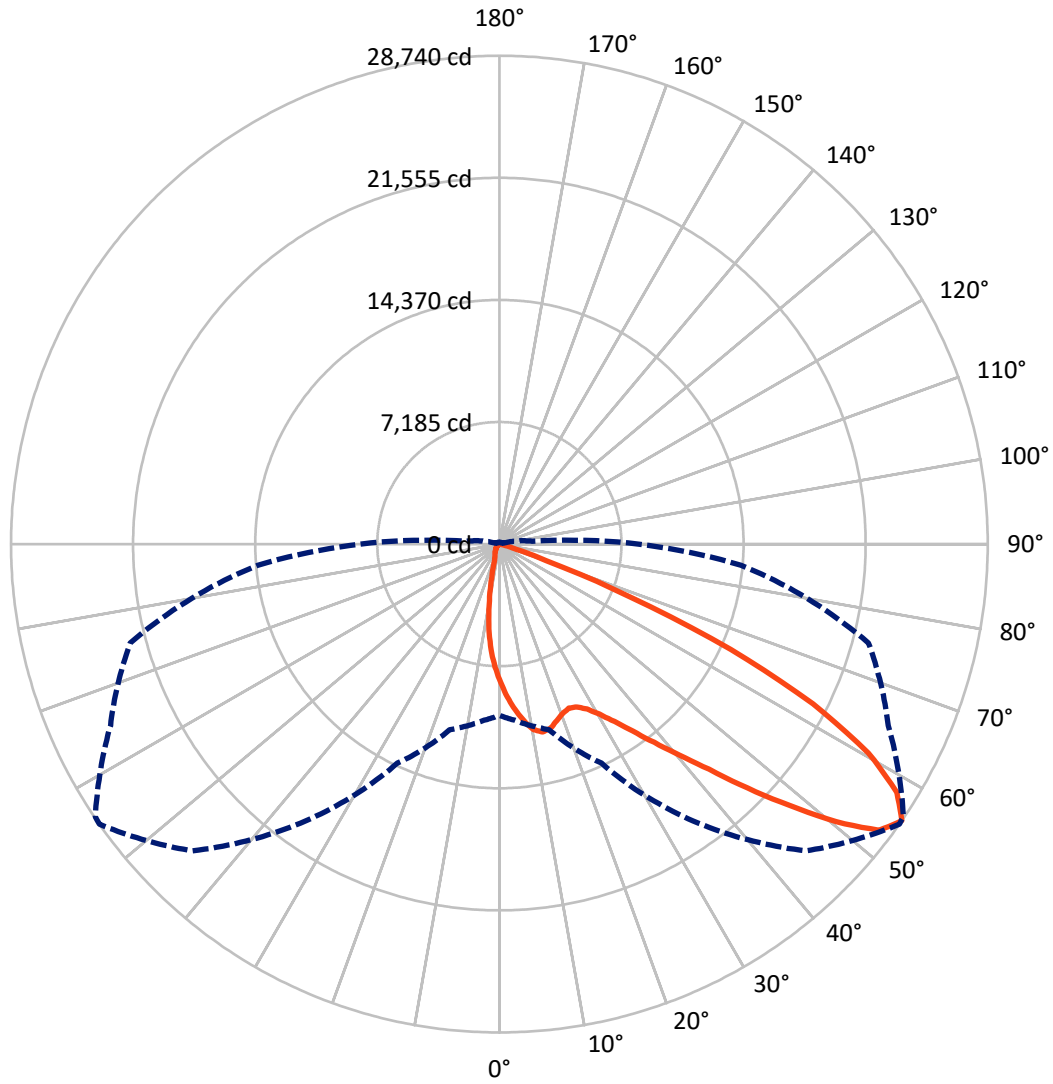
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.5	0.0	1942.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	29538.9	0.0	29538.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	31481.4	0.0	31481.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.8	2.3
10°-20°	1732.9	5.5
20°-30°	2885.9	9.2
30°-40°	4917.7	15.6
40°-50°	8027.3	25.5
50°-60°	8404.2	26.7
60°-70°	4238.9	13.5
70°-80°	535.4	1.7
80°-90°	20.3	0.1
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°	31481.4	100.0
0°-180°	31481.4	100.0

Coefficient of Utilization



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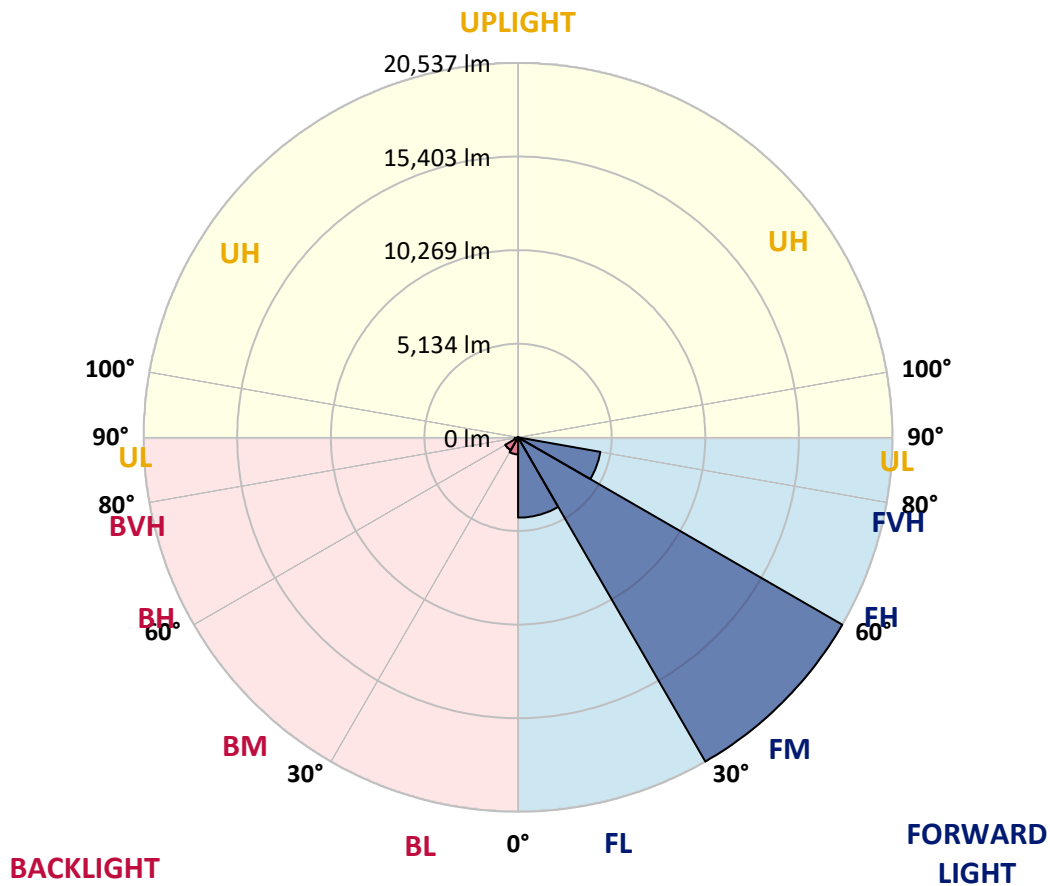
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4403.8	14.0			
FM (30°-60°)	20537.1	65.2			
FH (60°-80°)	4579.5	14.5			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	933.7	3.0	B2/1000		
BM (30°-60°)	812.2	2.6	B1/1000		
BH (60°-80°)	194.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9
2.5°	9481.3	9435.5	9505.5	9424.7	9287.5	9171.8	9021.1	8967.2	8725.0	8496.3	8275.6
5°	10633.1	10646.6	10625.0	10512.0	10318.2	10102.9	9798.8	9731.6	9309.0	8873.0	8402.1
7.5°	10918.4	10910.3	10956.1	10999.1	10966.8	10859.2	10528.2	10460.9	9936.1	9282.1	8595.8
10°	10038.4	10043.7	10137.9	10428.6	10789.2	11163.3	11112.2	11074.5	10560.5	9745.0	8811.1
12.5°	8795.0	8843.4	8943.0	9357.5	9968.4	10818.8	11346.3	11384.0	11133.7	10253.7	9064.1
15°	8256.7	8267.5	8348.2	8598.5	9053.4	10102.9	11246.7	11351.7	11612.7	10765.0	9338.6
17.5°	8243.3	8256.7	8291.7	8402.1	8698.1	9540.5	10926.5	11109.5	11973.4	11314.0	9667.0
20°	8749.2	8741.2	8717.0	8657.7	8786.9	9354.8	10630.4	10832.3	12169.8	11849.6	9998.0
22.5°	9667.0	9656.2	9548.5	9303.6	9198.7	9524.3	10485.1	10668.1	12288.2	12325.9	10269.8
25°	10724.6	10800.0	10598.1	10226.7	9968.4	9957.6	10614.3	10743.5	12390.5	12748.4	10455.5
27.5°	11884.5	11908.8	11736.5	11319.4	10945.3	10652.0	10988.4	11085.2	12503.5	13125.2	10560.5
30°	13157.5	13149.4	12953.0	12468.5	12013.7	11591.2	11618.1	11655.8	12767.3	13555.8	10676.2
32.5°	14748.0	14783.0	14433.2	13773.8	13227.5	12643.5	12441.6	12447.0	13243.6	14110.2	10851.1
35°	16909.1	16823.0	16360.1	15420.8	14489.7	13859.9	13515.4	13485.8	13978.3	14855.7	11155.2
37.5°	18967.9	18976.0	18491.6	17458.1	16282.0	15289.0	14801.9	14721.1	15011.8	15889.1	11661.2
40°	20397.0	20423.9	20222.0	19681.1	18435.0	17030.2	16314.3	16230.9	16352.0	17197.1	12323.2
42.5°	21153.2	21228.6	21285.1	21411.6	20466.9	19204.7	18104.0	18095.9	17969.5	18688.0	13090.2
45°	21182.8	21295.8	21640.3	22504.2	22611.9	21686.1	20488.5	20308.2	19821.0	20283.9	13776.5
47.5°	20012.1	20273.2	21005.2	22716.8	23847.1	24153.9	22967.1	22856.8	21489.6	21546.1	14290.5
50°	17283.2	17555.0	18903.3	21626.9	24159.3	26113.2	25688.0	25459.2	22883.7	22380.4	14538.1
52.5°	14484.3	14731.9	15646.9	19032.5	22864.8	26729.5	27980.9	27709.1	24135.1	22671.1	14435.9
55°	10078.7	10409.7	11303.2	14225.9	19882.9	25529.2	28739.8	28683.3	25252.0	22488.1	14277.1
57.5°	4941.1	5269.5	6160.3	8770.8	14729.2	22288.9	27579.9	27878.6	25919.4	22291.6	14147.9
60°	2064.2	2198.7	2505.6	3848.5	8240.6	16844.5	24961.3	25375.8	25510.3	22025.2	14134.4
62.5°	1197.6	1219.1	1251.4	1595.9	3205.3	9656.2	20706.5	21295.8	23360.0	21672.6	13921.8
65°	904.3	912.3	898.9	979.6	1324.1	3662.8	14960.6	15762.6	19498.1	20294.7	13082.2
67.5°	742.8	742.8	707.8	723.9	831.6	1372.5	8259.4	9379.0	14427.8	16680.4	10802.7
70°	592.1	605.5	589.4	567.9	594.8	758.9	2938.8	3643.9	8402.1	9850.0	6300.2
72.5°	449.4	449.4	476.4	460.2	441.4	476.4	1025.4	1151.9	3372.1	4106.8	2274.1
75°	347.2	357.9	376.8	360.6	333.7	282.6	492.5	522.1	1017.3	955.4	508.6
77.5°	177.6	180.3	239.5	263.7	247.6	172.2	215.3	236.8	331.0	296.0	188.4
80°	107.6	113.0	134.6	207.2	164.2	91.5	88.8	94.2	156.1	134.6	78.0
82.5°	45.8	48.4	75.4	75.4	67.3	35.0	35.0	35.0	75.4	70.0	32.3
85°	0.0	0.0	13.5	10.8	10.8	13.5	13.5	13.5	18.8	26.9	16.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.1	8.1
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°	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9	8132.9
2.5°	8132.9	7960.7	7729.3	7519.3	7236.8	7078.0	6857.3	6677.0	6523.6	6475.1	6453.6
5°	8135.6	7839.6	7344.4	6849.2	6241.0	5762.0	5269.5	4879.2	4559.0	4456.7	4429.8
7.5°	8189.5	7753.5	6951.5	6052.6	5035.3	4195.7	3444.8	2772.0	2459.8	2354.8	2333.3
10°	8262.1	7680.8	6496.7	5097.2	3635.9	2556.7	1811.2	1380.6	1176.1	1063.0	1079.2
12.5°	8356.3	7621.6	5993.4	4063.8	2406.0	1404.8	995.8	834.3	791.2	769.7	758.9
15°	8482.8	7551.6	5369.0	3038.4	1474.8	904.3	767.0	723.9	707.8	697.0	694.3
17.5°	8612.0	7470.9	4733.9	2136.9	979.6	750.9	689.0	667.4	656.7	648.6	645.9
20°	8749.2	7333.6	3988.4	1472.1	772.4	675.5	635.1	610.9	597.5	584.0	581.3
22.5°	8808.5	7113.0	3275.2	1030.7	686.3	621.7	570.5	540.9	524.8	514.0	514.0
25°	8751.9	6755.0	2537.8	783.2	624.4	562.5	511.3	479.0	465.6	454.8	454.8
27.5°	8601.2	6294.8	1851.6	648.6	557.1	500.6	452.1	422.5	411.8	406.4	406.4
30°	8434.4	5713.5	1305.3	557.1	481.7	436.0	395.6	376.8	374.1	368.7	368.7
32.5°	8291.7	5169.9	898.9	489.8	425.2	379.5	352.6	344.5	347.2	341.8	344.5
35°	8213.7	4637.0	667.4	436.0	379.5	336.4	322.9	322.9	322.9	320.3	320.3
37.5°	8246.0	4112.2	543.6	398.3	339.1	306.8	293.3	298.7	304.1	304.1	304.1
40°	8407.5	3646.6	481.7	363.3	304.1	279.9	269.1	277.2	285.3	290.7	290.7
42.5°	8612.0	3269.9	436.0	333.7	279.9	253.0	247.6	255.7	263.7	269.1	269.1
45°	8741.2	2890.4	390.2	296.0	255.7	223.4	223.4	234.1	231.4	234.1	234.1
47.5°	8800.4	2589.0	344.5	255.7	218.0	193.8	196.5	201.8	196.5	201.8	201.8
50°	8655.1	2284.9	304.1	212.6	180.3	169.5	174.9	172.2	172.2	183.0	183.0
52.5°	8388.6	2058.8	269.1	180.3	153.4	150.7	156.1	145.3	148.0	148.0	145.3
55°	8192.2	1929.6	239.5	156.1	131.9	134.6	131.9	113.0	102.3	91.5	88.8
57.5°	8095.3	1878.5	218.0	139.9	118.4	118.4	107.6	78.0	59.2	45.8	40.4
60°	8073.7	1816.6	196.5	121.1	105.0	99.6	78.0	45.8	29.6	21.5	18.8
62.5°	7869.2	1665.9	177.6	96.9	91.5	80.7	48.4	26.9	16.1	10.8	8.1
65°	7199.1	1369.8	158.8	75.4	70.0	59.2	29.6	16.1	8.1	2.7	0.0
67.5°	5727.0	971.5	139.9	56.5	48.4	37.7	18.8	10.8	2.7	0.0	0.0
70°	3302.2	524.8	115.7	40.4	32.3	24.2	13.5	5.4	0.0	0.0	0.0
72.5°	1103.4	244.9	88.8	26.9	24.2	18.8	8.1	2.7	0.0	0.0	0.0
75°	242.2	145.3	59.2	18.8	16.1	13.5	5.4	0.0	0.0	0.0	0.0
77.5°	91.5	102.3	29.6	13.5	10.8	8.1	2.7	0.0	0.0	0.0	0.0
80°	35.0	67.3	13.5	8.1	8.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	18.8	26.9	8.1	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	13.5	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	2.7	2.7	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)