

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: P633798

Luminaire Tested: GWS-SA2F-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633798
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-SA2F-740-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9488.5 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

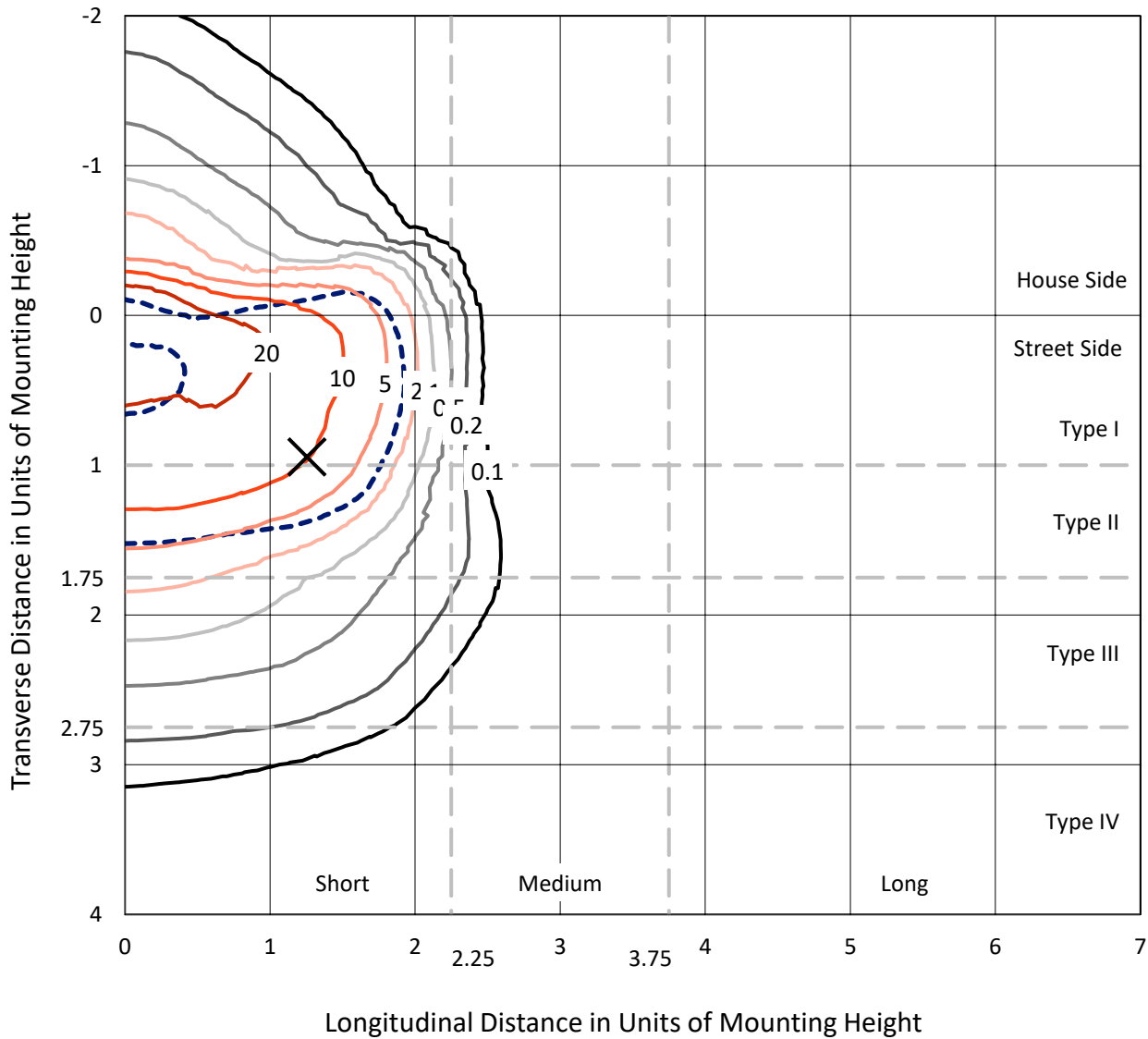
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

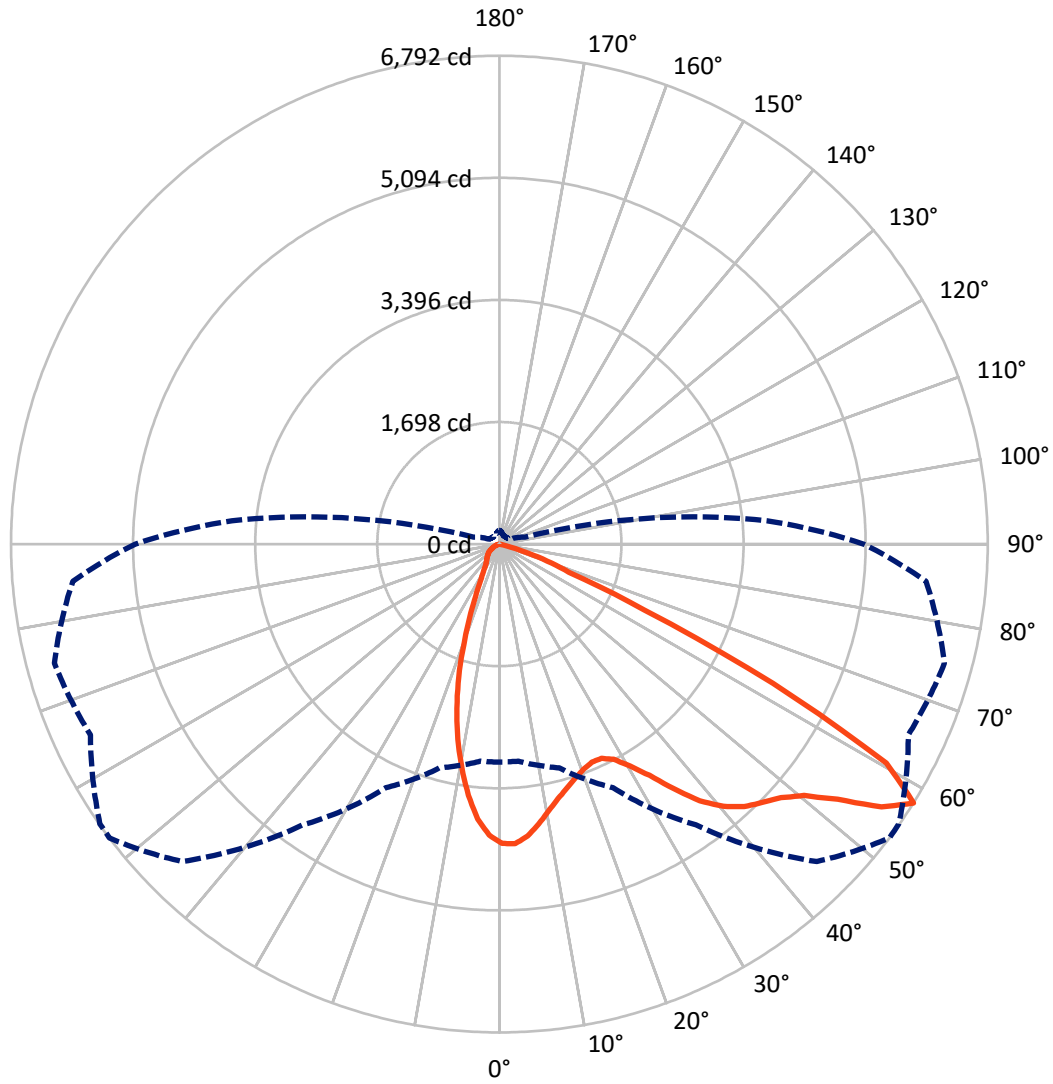
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 41.6 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	1567.4	0.0	1567.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7921.1	0.0	7921.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	9488.5	0.0	9488.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	3.8
10°-20°	781.8	8.2
20°-30°	1018.5	10.7
30°-40°	1477.3	15.6
40°-50°	2131.6	22.5
50°-60°	2578.0	27.2
60°-70°	1050.7	11.1
70°-80°	94.4	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°	9488.5	100.0
0°-180°	9488.5	100.0

Coefficient of Utilization



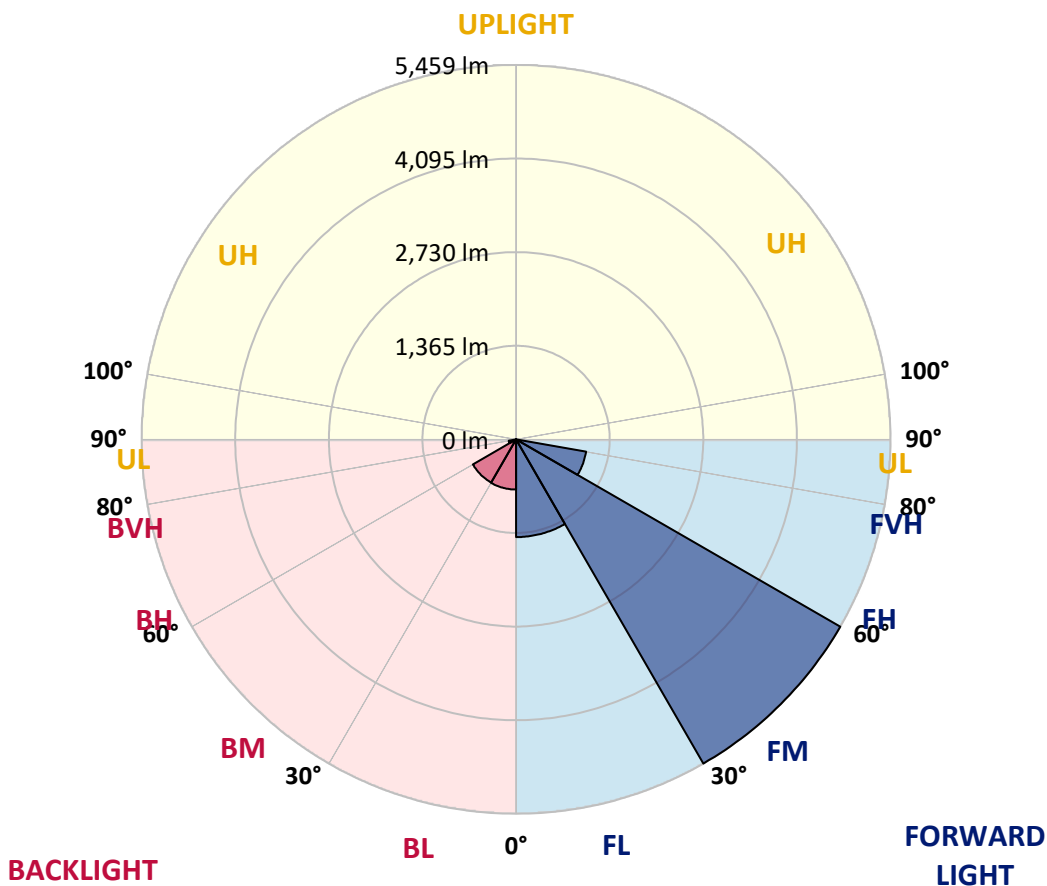
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.9	15.0			
FM (30°-60°)	5459.5	57.5			
FH (60°-80°)	1036.8	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	731.5	7.7	B2/1000		
BM (30°-60°)	727.5	7.7	B1/1000		
BH (60°-80°)	108.4	1.1	B0/110		G0/110
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: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2
2.5°	4104.0	4113.4	4129.6	4150.6	4164.5	4171.5	4171.5	4191.3	4178.5	4168.0	4156.4
5°	3928.4	3937.7	3959.8	3993.6	4027.3	4051.7	4079.6	4100.6	4108.7	4108.7	4088.9
7.5°	3680.7	3693.5	3707.5	3754.0	3827.3	3881.9	3929.6	3959.8	4004.0	4018.0	3990.1
10°	3414.4	3427.2	3458.6	3522.6	3606.3	3687.7	3769.1	3807.5	3883.1	3922.6	3891.2
12.5°	3188.8	3194.6	3236.5	3313.2	3420.2	3531.9	3630.7	3670.3	3777.3	3836.6	3799.4
15°	3002.7	3006.2	3048.1	3133.0	3256.3	3393.5	3517.9	3558.6	3690.0	3779.6	3723.8
17.5°	2862.0	2863.2	2899.2	2991.1	3120.2	3272.5	3420.2	3470.2	3640.0	3748.2	3664.5
20°	2791.1	2787.6	2813.2	2893.4	3015.5	3167.9	3342.3	3404.0	3612.1	3743.5	3619.1
22.5°	2792.2	2784.1	2794.6	2851.6	2955.1	3098.1	3293.5	3363.3	3614.4	3763.3	3580.7
25°	2858.5	2846.9	2849.2	2879.5	2952.7	3083.0	3300.5	3374.9	3661.0	3829.6	3566.8
27.5°	2970.2	2957.4	2957.4	2972.5	3012.0	3130.7	3387.7	3472.6	3785.4	3958.7	3595.8
30°	3114.4	3101.6	3096.9	3112.1	3144.6	3253.9	3581.9	3670.3	3998.2	4170.3	3688.9
32.5°	3279.5	3264.4	3272.5	3293.5	3324.9	3476.1	3831.9	3949.4	4264.5	4455.3	3856.3
35°	3454.0	3441.2	3478.4	3523.7	3572.6	3784.2	4177.3	4279.7	4591.3	4810.0	4112.2
37.5°	3620.3	3614.4	3692.4	3787.7	3888.9	4154.1	4528.5	4607.6	4871.6	5196.1	4425.0
40°	3786.6	3785.4	3919.1	4086.6	4248.3	4522.7	4794.8	4860.0	5042.5	5496.1	4725.1
42.5°	3972.6	3972.6	4157.5	4380.8	4596.0	4834.4	4990.2	5019.3	5119.3	5669.4	4950.7
45°	4150.6	4161.0	4375.0	4634.4	4889.0	5077.4	5125.1	5127.4	5150.7	5771.7	5137.9
47.5°	4291.3	4300.6	4556.4	4855.3	5129.8	5262.3	5269.3	5258.9	5233.3	5869.4	5282.1
50°	4405.3	4419.2	4686.7	5003.0	5294.9	5440.3	5493.8	5483.3	5418.2	5974.1	5383.3
52.5°	4461.1	4480.8	4732.0	5076.3	5478.7	5745.0	5893.8	5918.3	5695.0	6032.2	5479.8
55°	4014.5	4043.6	4275.0	4746.0	5581.0	6216.0	6449.7	6445.1	5995.0	6205.5	5714.7
57.5°	3031.8	3029.5	3221.4	3736.6	4766.9	6242.7	6791.6	6782.3	6275.3	6406.7	5955.5
60°	2064.2	2050.3	2101.5	2350.3	3333.0	5085.6	6181.1	6306.7	6076.4	5918.3	5056.5
62.5°	1699.1	1686.3	1670.0	1601.4	1914.2	3167.9	4270.4	4461.1	4430.8	4113.4	3171.4
65°	1390.9	1401.4	1446.7	1417.6	1331.6	1624.6	2216.6	2329.4	2129.4	1792.1	1108.3
67.5°	1025.7	1030.4	1089.7	1243.2	1196.7	1081.5	1043.2	1061.8	622.2	286.1	184.9
70°	605.9	609.4	664.0	869.9	971.1	830.3	704.7	694.3	246.5	76.8	83.7
72.5°	343.1	336.1	346.6	414.0	529.1	440.8	362.8	330.3	74.4	43.0	43.0
75°	162.8	158.2	136.1	127.9	116.3	74.4	46.5	39.5	18.6	17.4	17.4
77.5°	1.2	3.5	2.3	3.5	3.5	2.3	1.2	1.2	3.5	3.5	4.7
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°	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2	4162.2
2.5°	4135.4	4100.6	4092.4	4090.1	4057.5	4022.6	3986.6	3972.6	3951.7	3938.9	3949.4
5°	4057.5	4007.5	3963.3	3922.6	3850.5	3771.4	3702.8	3658.6	3616.8	3588.9	3595.8
7.5°	3947.1	3881.9	3780.7	3677.2	3544.7	3426.0	3293.5	3212.1	3136.5	3094.6	3114.4
10°	3829.6	3743.5	3581.9	3406.3	3198.1	3012.0	2822.5	2667.8	2578.3	2493.4	2502.7
12.5°	3714.5	3600.5	3358.6	3092.3	2829.5	2555.0	2268.9	2054.9	1908.4	1802.6	1786.3
15°	3607.5	3460.9	3141.1	2789.9	2431.7	2066.6	1701.4	1395.5	1225.7	1121.1	1114.1
17.5°	3512.1	3330.7	2915.5	2473.6	2024.7	1557.2	1137.4	908.3	810.6	765.2	760.6
20°	3420.2	3199.3	2685.3	2152.6	1580.4	1093.2	785.0	679.2	647.8	629.2	631.5
22.5°	3331.9	3056.2	2443.4	1796.8	1185.0	767.5	608.2	567.5	564.0	566.4	567.5
25°	3257.4	2924.8	2194.5	1453.7	845.5	585.0	508.2	496.6	507.0	522.2	524.5
27.5°	3219.0	2817.8	1951.4	1108.3	611.7	475.6	440.8	445.4	464.0	480.3	482.6
30°	3229.5	2737.6	1700.2	803.6	471.0	401.2	389.6	398.9	417.5	432.6	434.9
32.5°	3303.9	2696.9	1443.2	585.0	387.3	350.0	345.4	352.4	368.7	380.3	381.4
35°	3451.6	2706.2	1199.0	447.7	332.6	311.7	310.5	315.2	323.3	331.4	332.6
37.5°	3669.1	2781.8	958.3	372.1	301.2	286.1	281.4	281.4	287.2	290.7	293.1
40°	3902.9	2895.7	767.5	329.1	279.1	262.8	253.5	250.0	254.7	259.3	260.5
42.5°	4095.9	3009.7	623.3	298.9	261.7	239.6	227.9	225.6	231.4	239.6	241.9
45°	4243.6	3098.1	519.8	274.5	241.9	217.5	204.7	204.7	215.1	229.1	231.4
47.5°	4378.5	3169.0	443.1	252.4	223.3	197.7	184.9	187.2	204.7	223.3	226.8
50°	4470.4	3226.0	386.1	232.6	208.2	181.4	169.8	174.4	195.4	217.5	221.0
52.5°	4569.2	3295.8	348.9	215.1	194.2	168.6	158.2	161.7	184.9	209.3	214.0
55°	4842.5	3529.6	347.7	191.9	169.8	151.2	146.5	147.7	171.0	198.9	204.7
57.5°	5065.8	3735.4	371.0	161.7	141.9	132.6	130.3	131.4	152.3	183.7	190.7
60°	4191.3	2902.7	307.0	133.7	118.6	116.3	112.8	115.1	134.9	162.8	168.6
62.5°	2480.6	1659.5	146.5	102.3	101.2	98.9	95.4	100.0	118.6	143.0	146.5
65°	847.8	491.9	93.0	83.7	86.1	82.6	79.1	83.7	100.0	114.0	115.1
67.5°	162.8	130.3	74.4	69.8	70.9	64.0	62.8	67.5	76.8	79.1	77.9
70°	84.9	75.6	57.0	57.0	54.7	45.4	45.4	50.0	50.0	46.5	45.4
72.5°	44.2	41.9	37.2	41.9	34.9	27.9	27.9	30.2	27.9	23.3	23.3
75°	17.4	17.4	16.3	20.9	15.1	12.8	11.6	14.0	10.5	8.1	8.1
77.5°	4.7	4.7	4.7	5.8	3.5	3.5	2.3	2.3	1.2	0.0	0.0
80°	0.0	1.2	0.0	1.2	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)