

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: P639188

Luminaire Tested: GWS-SA5B-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639188
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-SA5B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10243 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

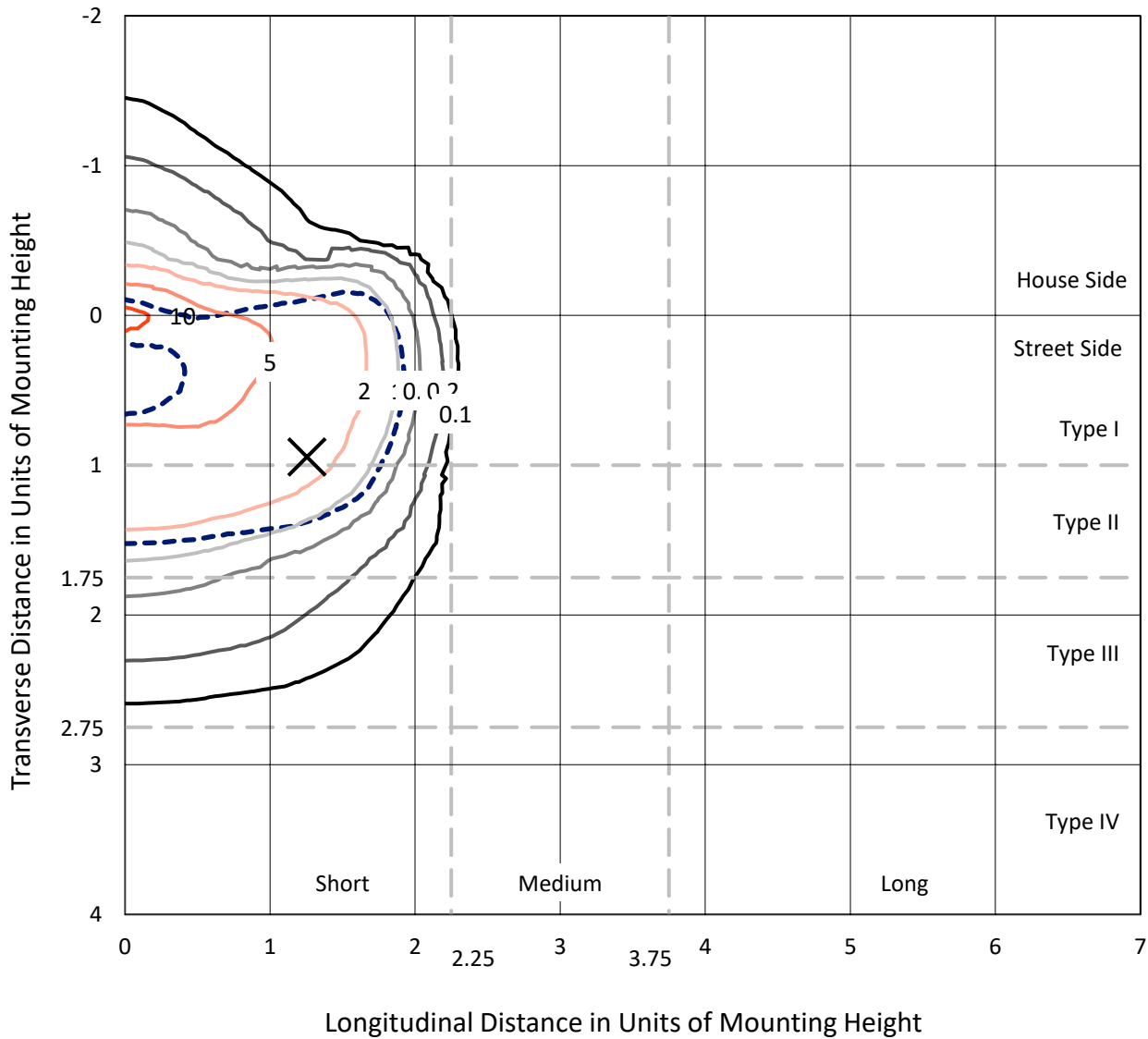
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

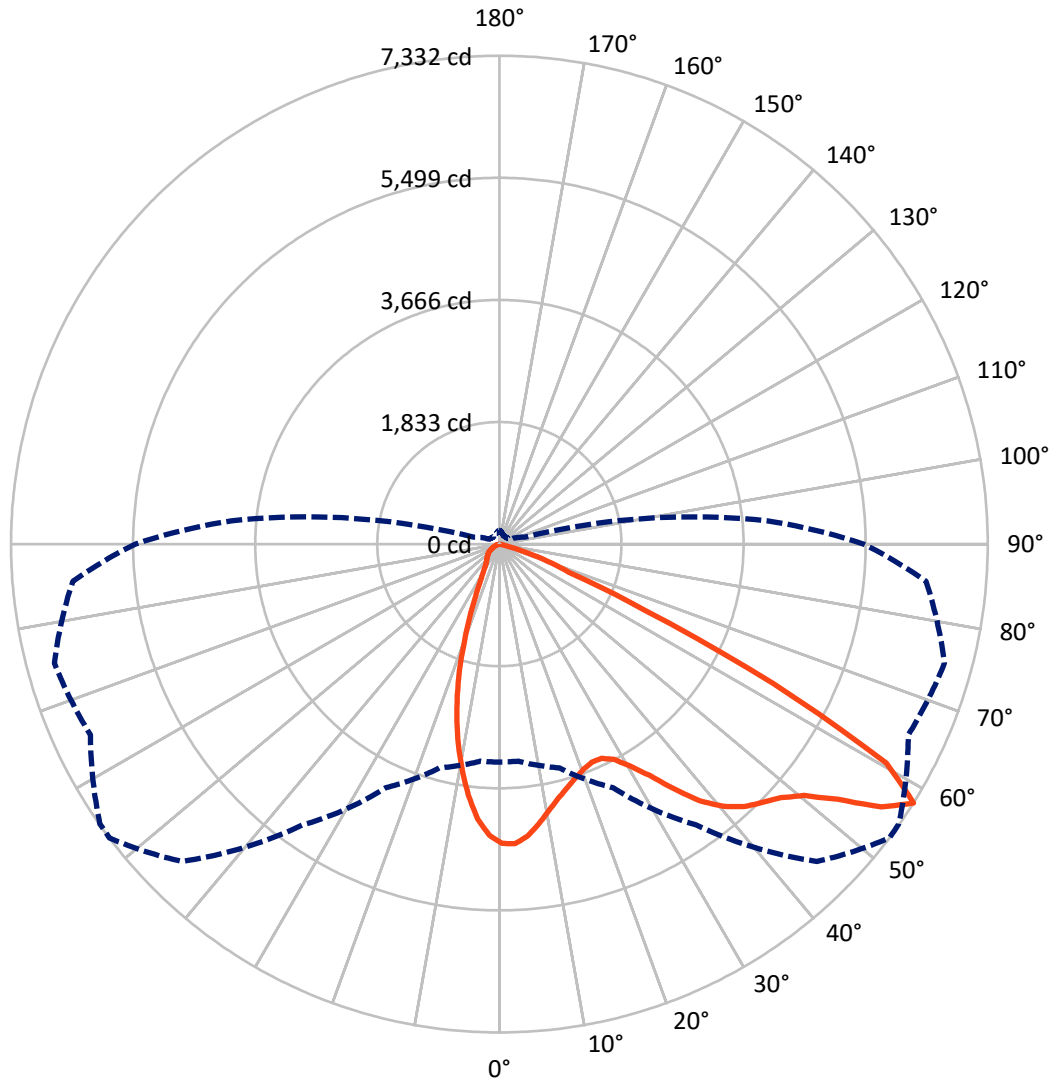
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 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	1692.0	0.0	1692.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8551.0	0.0	8551.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	10243.0	0.0	10243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	3.8
10°-20°	844.0	8.2
20°-30°	1099.5	10.7
30°-40°	1594.8	15.6
40°-50°	2301.1	22.5
50°-60°	2783.0	27.2
60°-70°	1134.3	11.1
70°-80°	101.9	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°	10243.0	100.0
0°-180°	10243.0	100.0

Coefficient of Utilization



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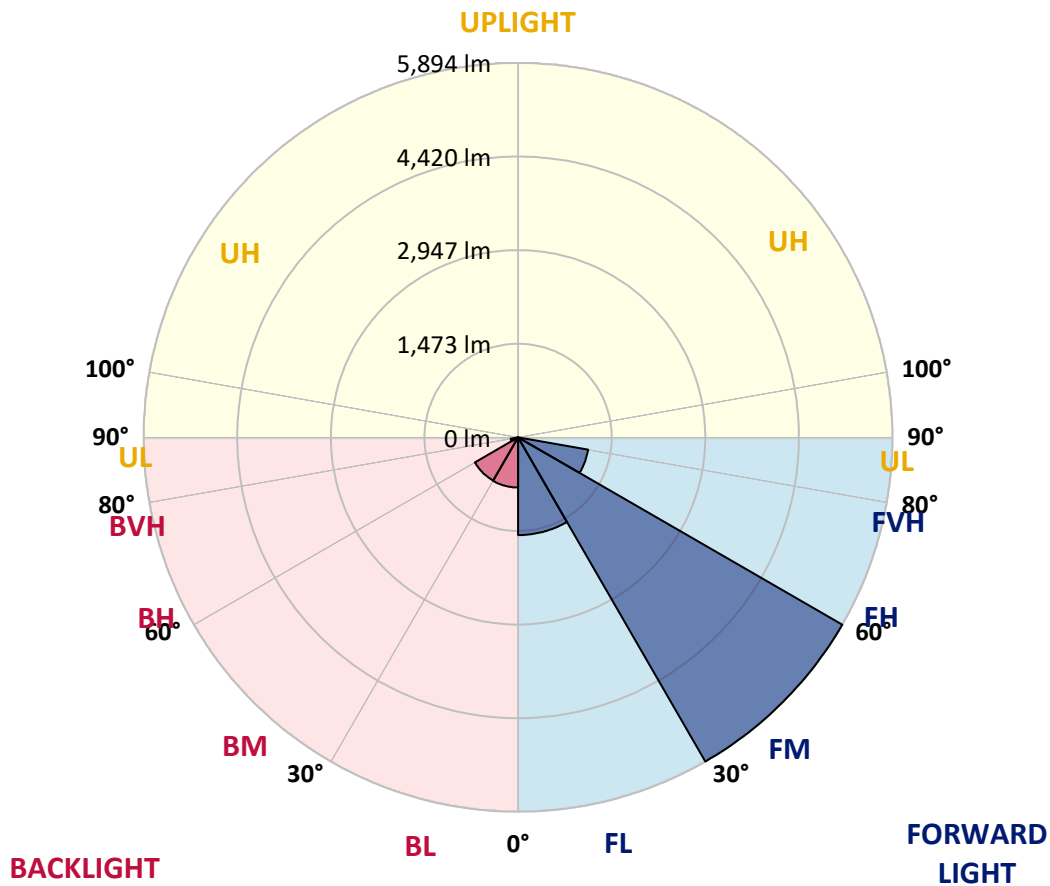
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.2	15.0			
FM (30°-60°)	5893.6	57.5			
FH (60°-80°)	1119.2	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	789.7	7.7	B2/1000		
BM (30°-60°)	785.3	7.7	B1/1000		
BH (60°-80°)	117.0	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: 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°	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2
2.5°	4430.4	4440.4	4458.0	4480.6	4495.7	4503.2	4503.2	4524.5	4510.7	4499.4	4486.9
5°	4240.8	4250.9	4274.7	4311.1	4347.5	4373.9	4404.0	4426.6	4435.4	4435.4	4414.1
7.5°	3973.4	3987.2	4002.3	4052.5	4131.6	4190.6	4242.1	4274.7	4322.4	4337.5	4307.4
10°	3685.9	3699.7	3733.6	3802.7	3893.1	3981.0	4068.8	4110.3	4191.9	4234.5	4200.6
12.5°	3442.4	3448.7	3493.8	3576.7	3692.2	3812.7	3919.4	3962.1	4077.6	4141.6	4101.5
15°	3241.5	3245.3	3290.5	3382.1	3515.2	3663.3	3797.7	3841.6	3983.5	4080.1	4019.9
17.5°	3089.6	3090.9	3129.8	3229.0	3368.3	3532.8	3692.2	3746.2	3929.5	4046.2	3955.8
20°	3013.0	3009.3	3036.9	3123.5	3255.3	3419.8	3608.1	3674.6	3899.3	4041.2	3906.9
22.5°	3014.3	3005.5	3016.8	3078.3	3190.0	3344.5	3555.4	3630.7	3901.9	4062.6	3865.5
25°	3085.8	3073.3	3075.8	3108.4	3187.5	3328.1	3562.9	3643.2	3952.1	4134.1	3850.4
27.5°	3206.4	3192.5	3192.5	3208.9	3251.5	3379.6	3657.1	3748.7	4086.4	4273.5	3881.8
30°	3362.0	3348.2	3343.2	3359.5	3394.7	3512.7	3866.7	3962.1	4316.1	4502.0	3982.2
32.5°	3540.3	3524.0	3532.8	3555.4	3589.3	3752.5	4136.6	4263.4	4603.6	4809.5	4163.0
35°	3728.6	3714.8	3755.0	3803.9	3856.7	4085.2	4509.5	4620.0	4956.4	5192.4	4439.2
37.5°	3908.1	3901.9	3986.0	4088.9	4198.1	4484.4	4888.6	4974.0	5259.0	5609.2	4776.9
40°	4087.7	4086.4	4230.8	4411.6	4586.1	4882.3	5176.1	5246.4	5443.5	5933.1	5100.8
42.5°	4288.5	4288.5	4488.1	4729.2	4961.4	5218.8	5387.0	5418.4	5526.4	6120.2	5344.3
45°	4480.6	4491.9	4722.9	5002.9	5277.8	5481.2	5532.7	5535.2	5560.3	6230.7	5546.5
47.5°	4632.5	4642.6	4918.8	5241.4	5537.7	5680.8	5688.3	5677.0	5649.4	6336.1	5702.1
50°	4755.5	4770.6	5059.4	5400.8	5715.9	5872.9	5930.6	5919.3	5849.0	6449.1	5811.4
52.5°	4815.8	4837.2	5108.3	5479.9	5914.3	6201.8	6362.5	6388.9	6147.8	6511.9	5915.6
55°	4333.7	4365.1	4614.9	5123.4	6024.8	6710.2	6962.6	6957.6	6471.7	6698.9	6169.2
57.5°	3272.9	3270.4	3477.5	4033.7	5146.0	6739.1	7331.7	7321.6	6774.3	6916.1	6429.0
60°	2228.4	2213.3	2268.6	2537.2	3598.0	5490.0	6672.6	6808.2	6559.6	6388.9	5458.6
62.5°	1834.2	1820.4	1802.8	1728.7	2066.4	3419.8	4609.9	4815.8	4783.2	4440.4	3423.5
65°	1501.5	1512.8	1561.7	1530.4	1437.5	1753.8	2392.8	2514.6	2298.7	1934.6	1196.4
67.5°	1107.3	1112.3	1176.3	1342.0	1291.8	1167.5	1126.1	1146.2	671.7	308.8	199.6
70°	654.1	657.8	716.8	939.1	1048.3	896.4	760.8	749.5	266.1	82.9	90.4
72.5°	370.4	362.8	374.1	446.9	571.2	475.8	391.7	356.5	80.3	46.5	46.5
75°	175.8	170.7	146.9	138.1	125.5	80.3	50.2	42.7	20.1	18.8	18.8
77.5°	1.3	3.8	2.5	3.8	3.8	2.5	1.3	1.3	3.8	3.8	5.0
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°	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2
2.5°	4464.3	4426.6	4417.8	4415.3	4380.2	4342.5	4303.6	4288.5	4265.9	4252.1	4263.4
5°	4380.2	4326.2	4278.5	4234.5	4156.7	4071.3	3997.3	3949.6	3904.4	3874.2	3881.8
7.5°	4260.9	4190.6	4081.4	3969.7	3826.5	3698.5	3555.4	3467.5	3385.9	3340.7	3362.0
10°	4134.1	4041.2	3866.7	3677.1	3452.4	3251.5	3046.9	2879.9	2783.3	2691.6	2701.7
12.5°	4009.8	3886.8	3625.7	3338.2	3054.4	2758.2	2449.3	2218.3	2060.2	1945.9	1928.3
15°	3894.3	3736.1	3390.9	3011.8	2625.1	2230.9	1836.7	1506.5	1323.2	1210.2	1202.7
17.5°	3791.4	3595.5	3147.3	2670.3	2185.7	1681.0	1227.8	980.5	875.0	826.1	821.0
20°	3692.2	3453.7	2898.8	2323.8	1706.1	1180.1	847.4	733.2	699.3	679.2	681.7
22.5°	3596.8	3299.3	2637.6	1939.6	1279.3	828.6	656.6	612.6	608.9	611.4	612.6
25°	3516.4	3157.4	2369.0	1569.3	912.7	631.5	548.6	536.1	547.4	563.7	566.2
27.5°	3475.0	3041.9	2106.6	1196.4	660.4	513.5	475.8	480.8	500.9	518.5	521.0
30°	3486.3	2955.3	1835.4	867.5	508.4	433.1	420.6	430.6	450.7	467.0	469.5
32.5°	3566.7	2911.3	1558.0	631.5	418.1	377.9	372.9	380.4	398.0	410.5	411.8
35°	3726.1	2921.4	1294.3	483.3	359.1	336.5	335.2	340.2	349.0	357.8	359.1
37.5°	3960.9	3003.0	1034.5	401.7	325.2	308.8	303.8	303.8	310.1	313.9	316.4
40°	4213.2	3126.0	828.6	355.3	301.3	283.7	273.7	269.9	274.9	280.0	281.2
42.5°	4421.6	3249.0	672.9	322.6	282.5	258.6	246.1	243.6	249.8	258.6	261.1
45°	4581.0	3344.5	561.2	296.3	261.1	234.8	221.0	221.0	232.3	247.3	249.8
47.5°	4726.7	3421.0	478.3	272.4	241.0	213.4	199.6	202.1	221.0	241.0	244.8
50°	4825.9	3482.5	416.8	251.1	224.7	195.8	183.3	188.3	210.9	234.8	238.5
52.5°	4932.6	3557.9	376.6	232.3	209.7	182.0	170.7	174.5	199.6	226.0	231.0
55°	5227.6	3810.2	375.4	207.1	183.3	163.2	158.2	159.4	184.5	214.7	221.0
57.5°	5468.6	4032.4	400.5	174.5	153.2	143.1	140.6	141.9	164.5	198.4	205.9
60°	4524.5	3133.5	331.4	144.4	128.1	125.5	121.8	124.3	145.6	175.8	182.0
62.5°	2677.8	1791.5	158.2	110.5	109.2	106.7	102.9	108.0	128.1	154.4	158.2
65°	915.2	531.0	100.4	90.4	92.9	89.1	85.4	90.4	108.0	123.0	124.3
67.5°	175.8	140.6	80.3	75.3	76.6	69.0	67.8	72.8	82.9	85.4	84.1
70°	91.6	81.6	61.5	61.5	59.0	49.0	49.0	54.0	54.0	50.2	49.0
72.5°	47.7	45.2	40.2	45.2	37.7	30.1	30.1	32.6	30.1	25.1	25.1
75°	18.8	18.8	17.6	22.6	16.3	13.8	12.6	15.1	11.3	8.8	8.8
77.5°	5.0	5.0	5.0	6.3	3.8	3.8	2.5	2.5	1.3	0.0	0.0
80°	0.0	1.3	0.0	1.3	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)