

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: P637314

Luminaire Tested: GWS-SA4C-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637314
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-SA4C-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: 11659.5 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: B2 - U0 - G1

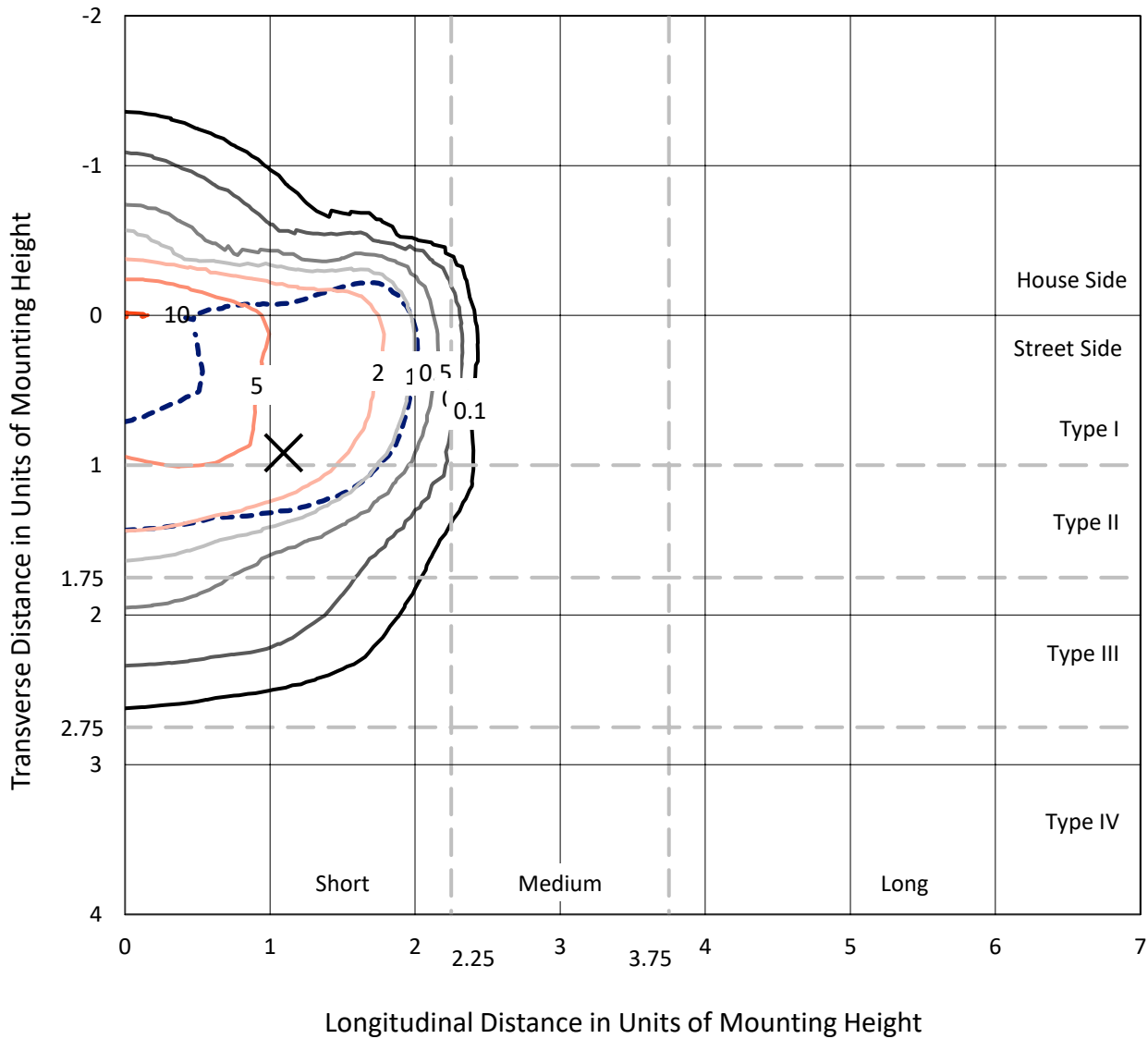
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

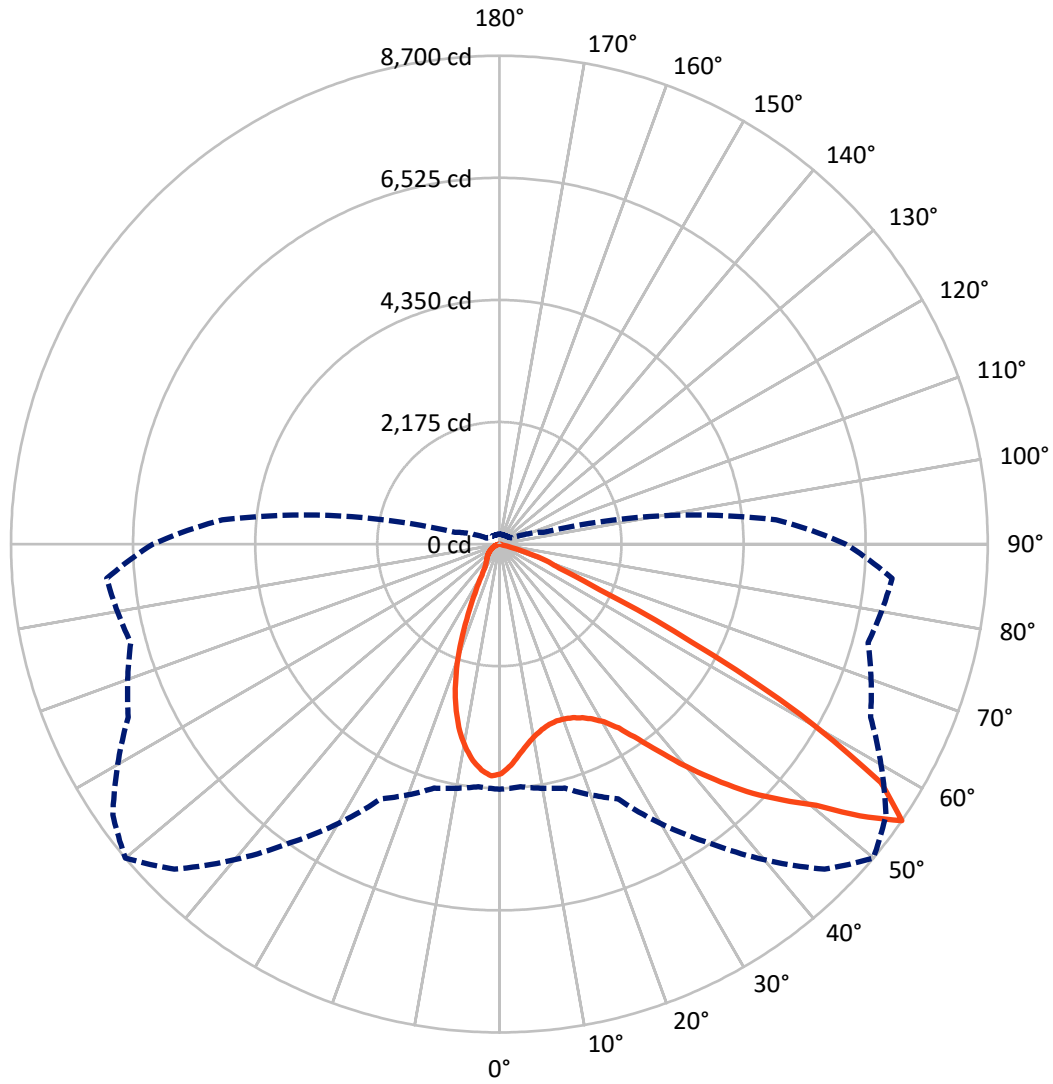
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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	2297.5	0.0	2297.5
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	9362.0	0.0	9362.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	11659.5	0.0	11659.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	3.1
10°-20°	884.1	7.6
20°-30°	1247.0	10.7
30°-40°	1845.3	15.8
40°-50°	2662.2	22.8
50°-60°	3140.3	26.9
60°-70°	1400.8	12.0
70°-80°	120.4	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°	11659.5	100.0
0°-180°	11659.5	100.0

Coefficient of Utilization



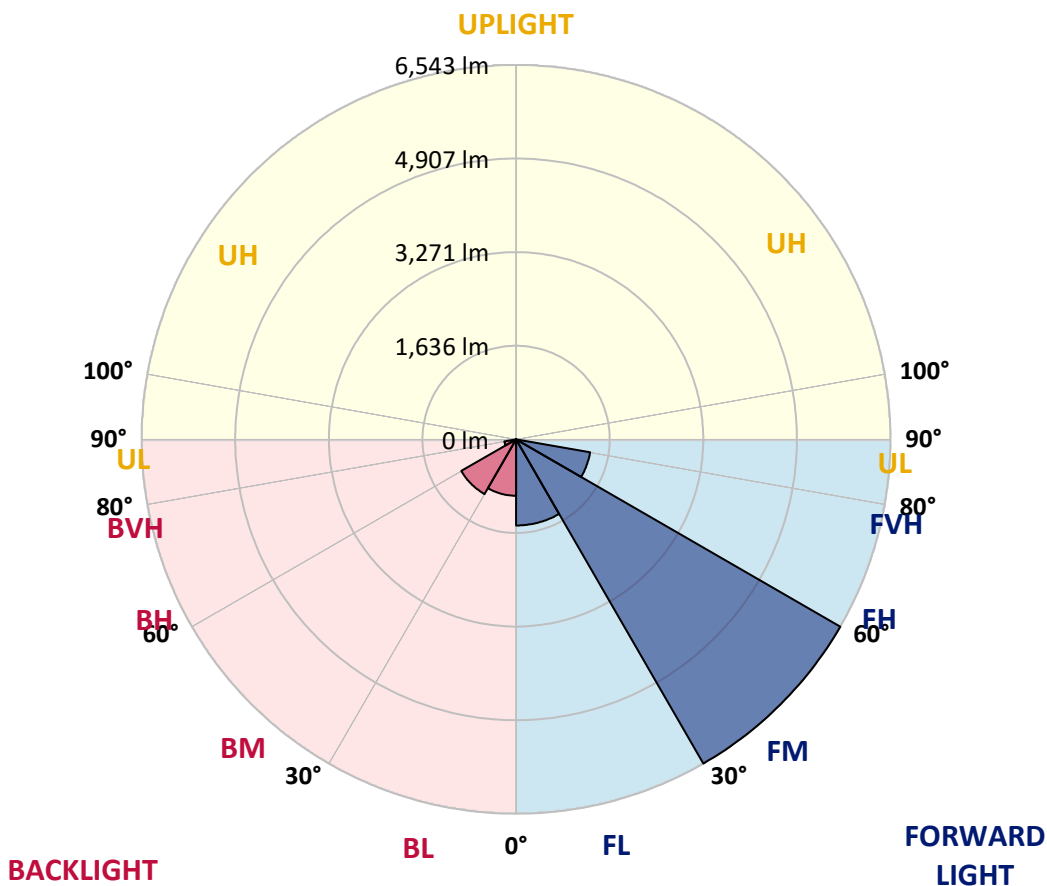
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.3	12.9			
FM (30°-60°)	6542.9	56.1			
FH (60°-80°)	1313.8	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	985.1	8.4	B2/1000		
BM (30°-60°)	1104.9	9.5	B2/2500		
BH (60°-80°)	207.4	1.8	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°	50°	55°	65°	75°	85°
0°	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8
2.5°	3800.4	3803.3	3804.7	3843.1	3857.4	3914.3	3944.2	3959.8	4001.1	4049.5	4089.4
5°	3545.6	3541.4	3548.5	3596.9	3628.2	3712.2	3757.7	3789.0	3880.1	3994.0	4089.4
7.5°	3323.6	3332.1	3340.7	3393.3	3440.3	3531.4	3596.9	3643.9	3770.5	3939.9	4100.8
10°	3167.0	3167.0	3179.8	3239.6	3295.1	3407.6	3473.1	3532.8	3683.7	3891.5	4113.6
12.5°	3051.7	3053.2	3068.8	3137.1	3201.2	3317.9	3386.2	3444.6	3611.1	3843.1	4116.4
15°	2997.6	2993.4	3006.2	3078.8	3149.9	3259.5	3330.7	3387.7	3559.9	3816.1	4130.7
17.5°	2983.4	2980.6	2990.5	3061.7	3134.3	3241.0	3310.8	3367.7	3552.8	3824.6	4173.4
20°	3024.7	3019.0	3014.7	3075.9	3144.3	3249.6	3322.2	3386.2	3586.9	3871.6	4238.8
22.5°	3122.9	3122.9	3112.9	3142.8	3188.4	3283.7	3359.2	3443.2	3676.6	3965.5	4335.6
25°	3303.7	3289.4	3270.9	3283.7	3278.0	3337.8	3427.5	3544.2	3846.0	4120.7	4453.8
27.5°	3510.1	3522.9	3491.6	3493.0	3443.2	3421.8	3525.7	3702.2	4097.9	4339.9	4628.8
30°	3790.5	3780.5	3781.9	3777.7	3662.4	3561.3	3673.7	3908.6	4415.3	4674.4	4856.6
32.5°	4009.7	4023.9	4070.9	4097.9	3947.0	3784.8	3904.3	4189.0	4776.9	5055.9	5135.6
35°	4241.7	4267.3	4362.7	4450.9	4324.2	4137.8	4265.9	4560.5	5117.1	5433.1	5455.8
37.5°	4486.5	4537.7	4651.6	4806.8	4786.8	4621.7	4738.4	4997.5	5384.7	5660.8	5720.6
40°	4766.9	4816.7	5003.2	5226.7	5273.6	5236.6	5275.1	5425.9	5561.2	5670.8	5834.4
42.5°	5074.4	5142.7	5379.0	5677.9	5854.4	5887.1	5797.4	5781.8	5638.0	5556.9	5810.2
45°	5437.3	5517.0	5784.6	6171.8	6452.2	6496.3	6341.2	6140.5	5686.4	5472.9	5737.7
47.5°	5844.4	5919.8	6186.0	6651.5	7068.5	7085.6	6815.2	6492.0	5830.2	5569.7	5793.2
50°	5981.1	6028.0	6258.6	6805.2	7573.8	7704.8	7313.3	6887.7	6119.1	5854.4	6063.6
52.5°	5511.3	5529.8	5730.5	6282.8	7471.3	8312.6	8040.7	7478.5	6633.0	6288.5	6480.7
55°	4366.9	4337.0	4499.3	5006.0	6493.5	8188.7	8699.7	8406.5	7294.8	6798.1	7023.0
57.5°	3054.6	3019.0	2982.0	3325.0	4845.2	6941.8	8016.5	8536.0	7925.4	7303.4	7608.0
60°	2510.8	2476.7	2297.3	2139.3	2929.3	4984.7	6157.6	7135.4	7874.2	7277.8	7589.5
62.5°	2169.2	2149.3	2076.7	1861.8	1723.7	2845.3	3855.9	4792.5	6042.3	5714.9	5732.0
65°	1703.8	1698.1	1747.9	1770.7	1524.4	1574.3	1967.1	2490.9	3266.7	3080.2	2920.8
67.5°	1164.3	1151.5	1245.5	1531.6	1466.1	1242.6	1151.5	1161.5	1413.4	864.0	686.1
70°	740.2	710.3	711.7	949.4	1192.8	980.7	888.2	781.4	703.2	128.1	145.2
72.5°	474.0	455.5	391.4	428.4	552.3	478.3	482.5	415.6	277.6	68.3	79.7
75°	199.3	183.6	140.9	112.4	111.0	69.7	61.2	56.9	38.4	38.4	41.3
77.5°	1.4	0.0	0.0	1.4	2.8	1.4	1.4	2.8	5.7	8.5	10.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8	4090.8
2.5°	4113.6	4079.4	4117.8	4132.1	4130.7	4132.1	4090.8	4062.3	4060.9	4025.3	4008.2
5°	4129.2	4102.2	4130.7	4112.2	4068.0	4012.5	3938.5	3874.4	3846.0	3804.7	3784.8
7.5°	4159.1	4130.7	4126.4	4052.4	3942.8	3826.1	3695.1	3578.4	3515.8	3440.3	3444.6
10°	4180.5	4147.7	4092.2	3941.3	3759.2	3572.7	3377.7	3204.0	3094.4	2993.4	2976.3
12.5°	4189.0	4140.6	4011.1	3783.4	3527.1	3283.7	2997.6	2750.0	2579.2	2446.8	2428.3
15°	4204.7	4126.4	3907.2	3592.6	3241.0	2896.6	2532.2	2193.4	1967.1	1814.8	1827.6
17.5°	4228.9	4110.7	3790.5	3379.1	2933.6	2446.8	1954.3	1565.7	1357.9	1269.7	1271.1
20°	4263.0	4092.2	3662.4	3144.3	2564.9	1938.6	1366.4	1073.2	1014.9	1012.0	1007.8
22.5°	4308.6	4073.7	3525.7	2886.6	2128.0	1357.9	909.5	818.4	842.6	889.6	898.2
25°	4362.7	4050.9	3373.4	2596.2	1651.1	891.0	681.8	667.6	725.9	788.6	802.8
27.5°	4446.6	4039.6	3199.8	2266.0	1158.6	639.1	558.0	566.5	619.2	671.8	684.6
30°	4589.0	4060.9	3010.5	1895.9	744.4	509.6	484.0	496.8	525.2	552.3	563.7
32.5°	4782.6	4123.5	2826.8	1491.7	530.9	442.7	437.0	444.1	455.5	471.1	475.4
35°	5008.9	4231.7	2637.5	1067.5	438.4	404.2	398.5	398.5	404.2	407.1	408.5
37.5°	5195.3	4345.6	2459.6	710.3	392.9	374.3	365.8	361.5	360.1	363.0	364.4
40°	5276.5	4392.6	2266.0	516.7	360.1	347.3	334.5	321.7	321.7	331.6	333.1
42.5°	5219.5	4339.9	2042.6	427.0	337.3	318.8	298.9	287.5	293.2	303.2	306.0
45°	5098.6	4210.4	1796.3	377.2	314.6	290.4	267.6	260.5	266.2	279.0	281.8
47.5°	5078.6	4125.0	1501.7	344.5	290.4	266.2	242.0	234.9	242.0	251.9	254.8
50°	5276.5	4199.0	1174.3	316.0	267.6	240.6	220.6	213.5	217.8	223.5	226.3
52.5°	5638.0	4473.7	948.0	288.9	240.6	214.9	202.1	193.6	193.6	199.3	200.7
55°	6171.8	4953.4	818.4	257.6	209.2	195.0	183.6	175.1	175.1	177.9	179.3
57.5°	6786.7	5534.1	848.3	216.4	183.6	176.5	166.5	159.4	162.3	162.3	162.3
60°	6701.3	5491.4	908.1	182.2	162.3	159.4	150.9	148.0	155.1	149.5	146.6
62.5°	4936.3	3793.3	475.4	149.5	139.5	136.6	131.0	136.6	146.6	131.0	125.3
65°	2397.0	1836.2	190.7	122.4	118.1	115.3	112.4	121.0	126.7	102.5	96.8
67.5°	563.7	458.3	123.8	103.9	98.2	92.5	95.4	96.8	92.5	69.7	66.9
70°	146.6	143.8	96.8	86.8	78.3	72.6	72.6	71.2	61.2	44.1	41.3
72.5°	79.7	78.3	69.7	65.5	54.1	48.4	49.8	44.1	34.2	25.6	24.2
75°	39.9	42.7	39.9	37.0	29.9	27.0	27.0	24.2	17.1	10.0	10.0
77.5°	8.5	10.0	10.0	8.5	7.1	5.7	5.7	7.1	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	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)