

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: P632799

Luminaire Tested: GWS-SA2D-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632799  
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-SA2D-740-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

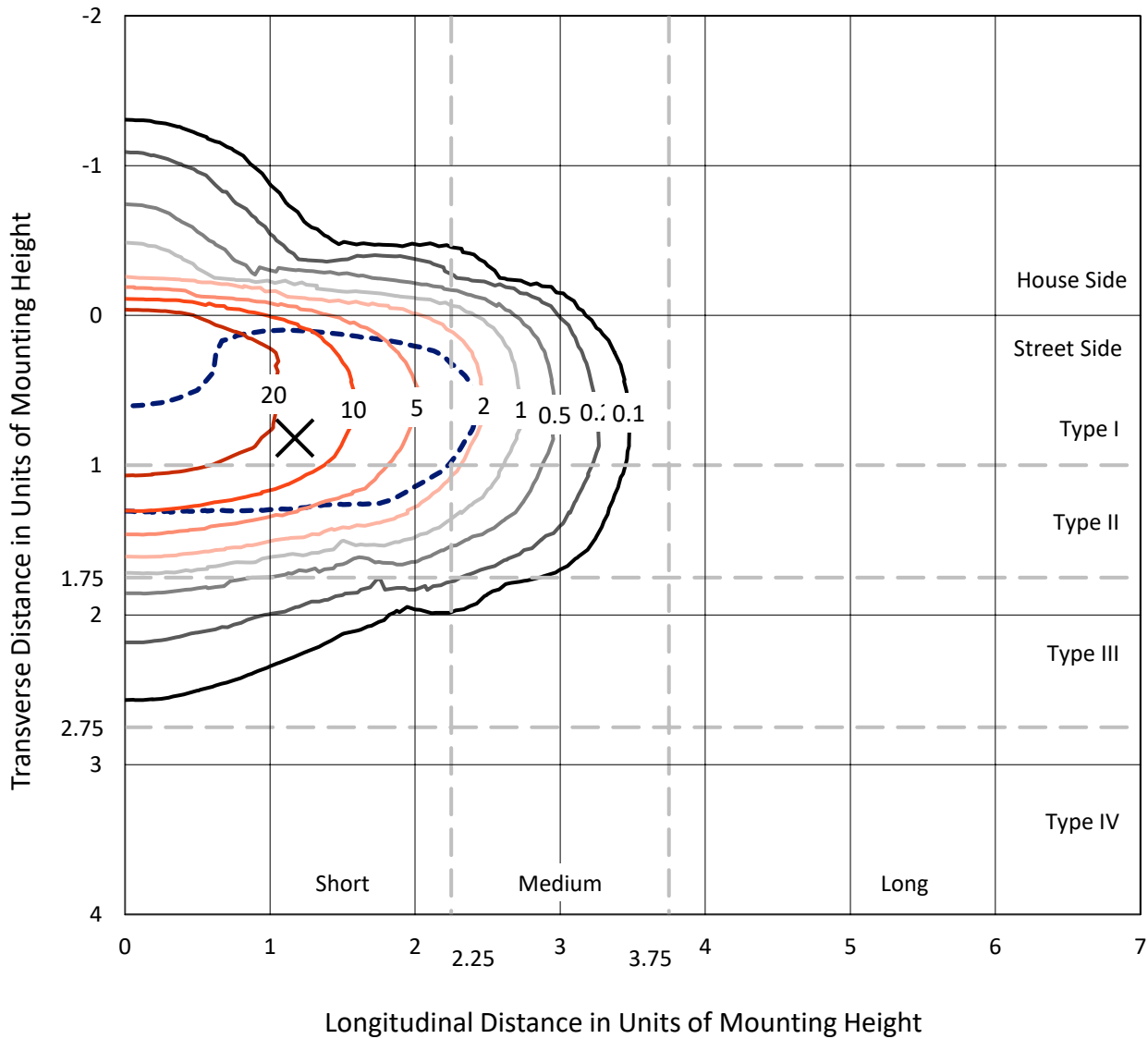
Lumens per Lamp: N/A  
Luminaire Lumens: 9791.5 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

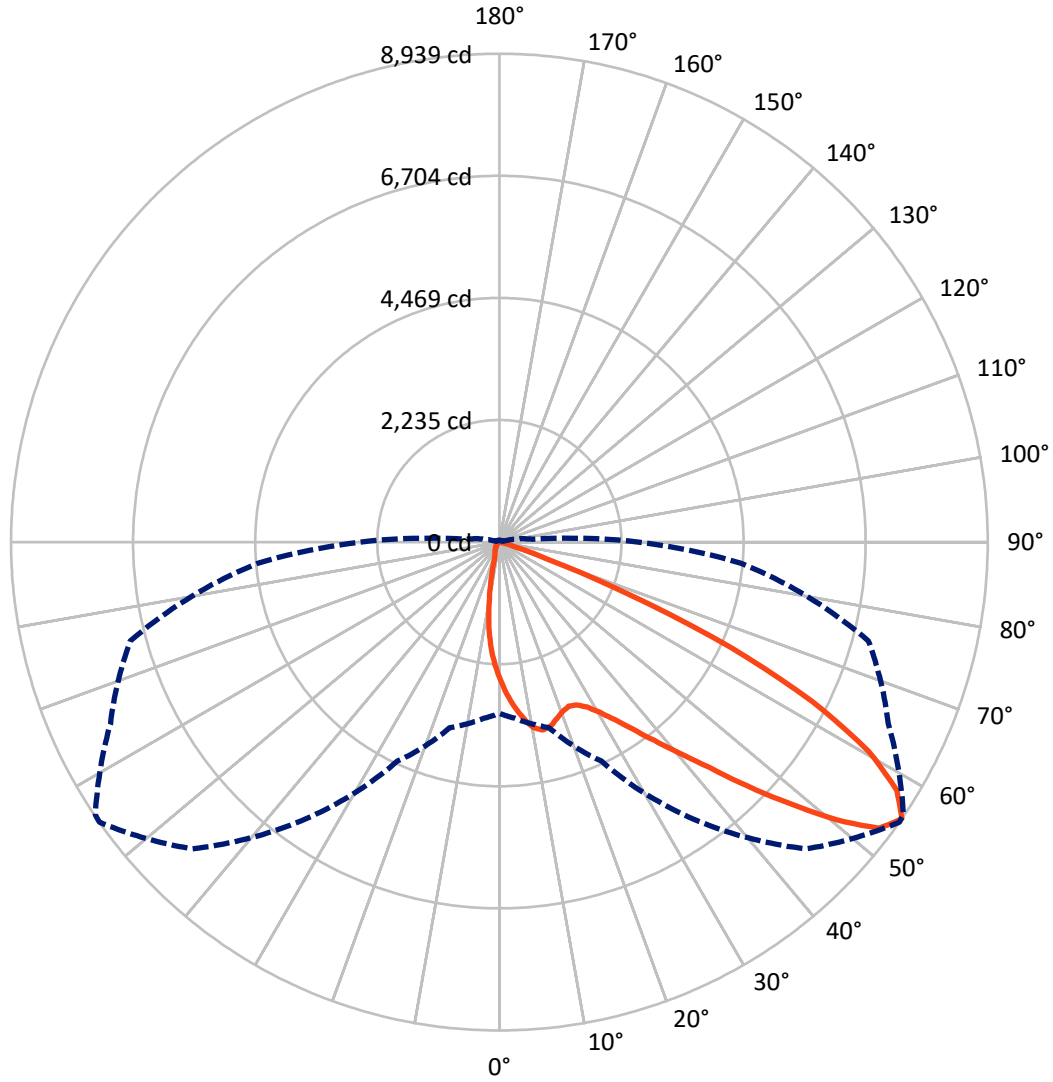
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.1 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
<b>House Side</b>	Lumens	604.2	0.0	604.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	9187.3	0.0	9187.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	9791.5	0.0	9791.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.5	2.3
10°-20°	539.0	5.5
20°-30°	897.6	9.2
30°-40°	1529.5	15.6
40°-50°	2496.7	25.5
50°-60°	2613.9	26.7
60°-70°	1318.4	13.5
70°-80°	166.5	1.7
80°-90°	6.3	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°	9791.5	100.0
0°-180°	9791.5	100.0

**Coefficient of Utilization**

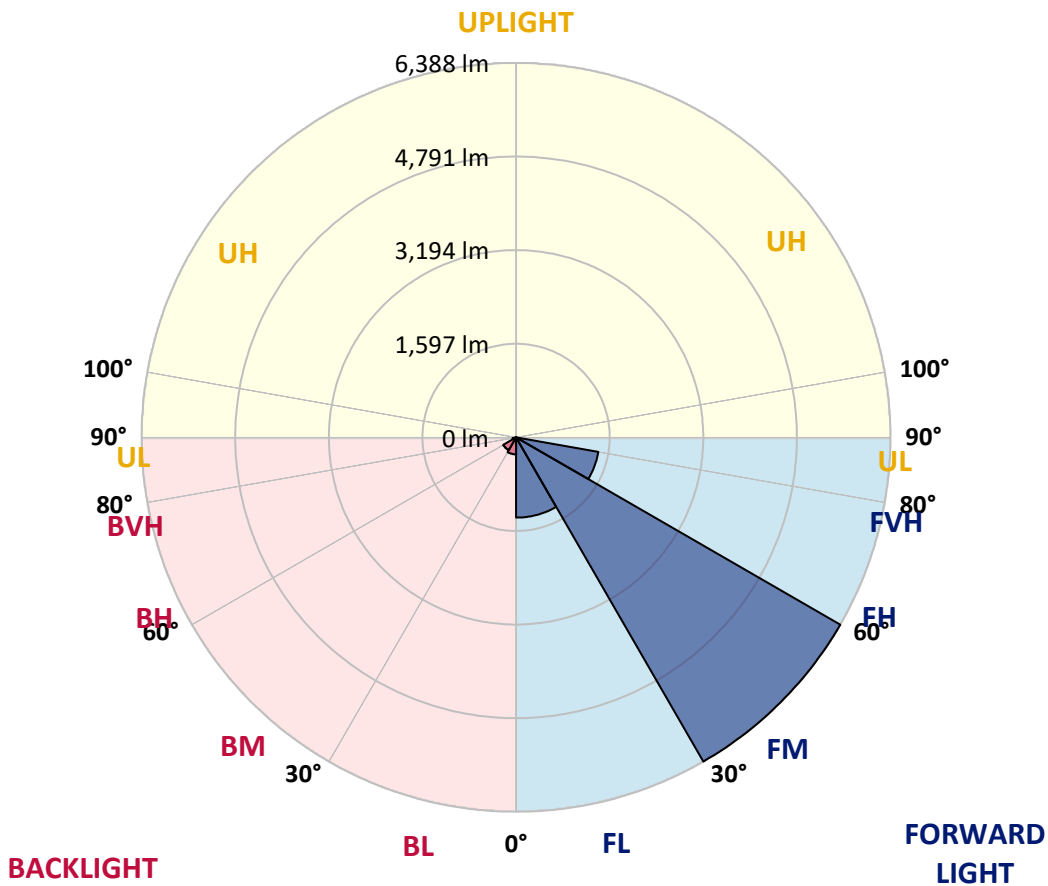


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.7	14.0			
FM (30°-60°)	6387.5	65.2			
FH (60°-80°)	1424.3	14.5			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	290.4	3.0	B1/500		
BM (30°-60°)	252.6	2.6	B1/1000		
BH (60°-80°)	60.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6
2.5°	2948.9	2934.7	2956.4	2931.3	2888.6	2852.6	2805.8	2789.0	2713.7	2642.6	2573.9
5°	3307.2	3311.4	3304.7	3269.5	3209.2	3142.3	3047.7	3026.8	2895.3	2759.7	2613.3
7.5°	3395.9	3393.4	3407.6	3421.0	3411.0	3377.5	3274.5	3253.6	3090.4	2887.0	2673.5
10°	3122.2	3123.9	3153.1	3243.5	3355.7	3472.1	3456.2	3444.4	3284.6	3030.9	2740.5
12.5°	2735.5	2750.5	2781.5	2910.4	3100.4	3364.9	3529.0	3540.7	3462.9	3189.1	2819.2
15°	2568.1	2571.4	2596.5	2674.4	2815.8	3142.3	3498.0	3530.7	3611.8	3348.2	2904.5
17.5°	2563.9	2568.1	2578.9	2613.3	2705.3	2967.3	3398.4	3455.3	3724.0	3518.9	3006.7
20°	2721.2	2718.7	2711.2	2692.8	2733.0	2909.6	3306.3	3369.1	3785.1	3685.5	3109.6
22.5°	3006.7	3003.3	2969.8	2893.7	2861.0	2962.3	3261.1	3318.0	3821.9	3833.7	3194.2
25°	3335.6	3359.1	3296.3	3180.8	3100.4	3097.1	3301.3	3341.5	3853.8	3965.1	3251.9
27.5°	3696.4	3703.9	3650.4	3520.6	3404.3	3313.0	3417.7	3447.8	3888.9	4082.3	3284.6
30°	4092.3	4089.8	4028.7	3878.0	3736.6	3605.2	3613.5	3625.2	3970.9	4216.2	3320.6
32.5°	4587.0	4597.9	4489.1	4284.0	4114.1	3932.4	3869.7	3871.3	4119.1	4388.6	3375.0
35°	5259.2	5232.4	5088.4	4796.3	4506.7	4310.8	4203.6	4194.4	4347.6	4620.5	3469.6
37.5°	5899.5	5902.0	5751.3	5429.9	5064.1	4755.3	4603.7	4578.6	4669.0	4941.9	3626.9
40°	6344.0	6352.3	6289.6	6121.3	5733.8	5296.8	5074.2	5048.2	5085.9	5348.7	3832.8
42.5°	6579.2	6602.6	6620.2	6659.5	6365.7	5973.2	5630.8	5628.3	5588.9	5812.4	4071.4
45°	6588.4	6623.5	6730.7	6999.4	7032.9	6744.9	6372.4	6316.3	6164.8	6308.8	4284.8
47.5°	6224.3	6305.5	6533.1	7065.5	7417.1	7512.5	7143.3	7109.0	6683.8	6701.4	4444.7
50°	5375.5	5460.0	5879.4	6726.5	7514.2	8121.8	7989.6	7918.4	7117.4	6960.9	4521.7
52.5°	4505.0	4582.0	4866.6	5919.6	7111.5	8313.5	8702.8	8618.2	7506.6	7051.3	4489.9
55°	3134.7	3237.7	3515.6	4424.6	6184.1	7940.2	8938.8	8921.2	7854.0	6994.3	4440.5
57.5°	1536.8	1638.9	1916.0	2727.9	4581.1	6932.4	8578.0	8670.9	8061.6	6933.2	4400.3
60°	642.0	683.9	779.3	1197.0	2563.0	5239.1	7763.6	7892.5	7934.3	6850.4	4396.2
62.5°	372.5	379.2	389.2	496.4	996.9	3003.3	6440.2	6623.5	7265.6	6740.7	4330.0
65°	281.2	283.8	279.6	304.7	411.8	1139.2	4653.1	4902.6	6064.4	6312.2	4068.9
67.5°	231.0	231.0	220.1	225.2	258.6	426.9	2568.9	2917.1	4487.4	5188.0	3359.9
70°	184.1	188.3	183.3	176.6	185.0	236.0	914.1	1133.4	2613.3	3063.6	1959.5
72.5°	139.8	139.8	148.2	143.1	137.3	148.2	318.9	358.3	1048.8	1277.3	707.3
75°	108.0	111.3	117.2	112.2	103.8	87.9	153.2	162.4	316.4	297.2	158.2
77.5°	55.2	56.1	74.5	82.0	77.0	53.6	67.0	73.7	103.0	92.1	58.6
80°	33.5	35.2	41.9	64.5	51.1	28.5	27.6	29.3	48.5	41.9	24.3
82.5°	14.2	15.1	23.4	23.4	20.9	10.9	10.9	10.9	23.4	21.8	10.0
85°	0.0	0.0	4.2	3.3	3.3	4.2	4.2	4.2	5.9	8.4	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	2.5
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°	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6
2.5°	2529.6	2476.0	2404.0	2338.7	2250.8	2201.4	2132.8	2076.7	2029.0	2013.9	2007.2
5°	2530.4	2438.3	2284.3	2130.3	1941.1	1792.1	1638.9	1517.6	1418.0	1386.1	1377.8
7.5°	2547.1	2411.5	2162.1	1882.5	1566.1	1305.0	1071.4	862.2	765.1	732.4	725.7
10°	2569.7	2388.9	2020.6	1585.4	1130.8	795.2	563.3	429.4	365.8	330.6	335.7
12.5°	2599.0	2370.5	1864.1	1263.9	748.3	436.9	309.7	259.5	246.1	239.4	236.0
15°	2638.4	2348.7	1669.9	945.0	458.7	281.2	238.6	225.2	220.1	216.8	216.0
17.5°	2678.5	2323.6	1472.4	664.6	304.7	233.5	214.3	207.6	204.2	201.7	200.9
20°	2721.2	2280.9	1240.5	457.9	240.2	210.1	197.5	190.0	185.8	181.6	180.8
22.5°	2739.6	2212.3	1018.7	320.6	213.4	193.4	177.5	168.2	163.2	159.9	159.9
25°	2722.1	2101.0	789.3	243.6	194.2	174.9	159.0	149.0	144.8	141.5	141.5
27.5°	2675.2	1957.8	575.9	201.7	173.3	155.7	140.6	131.4	128.1	126.4	126.4
30°	2623.3	1777.0	406.0	173.3	149.8	135.6	123.0	117.2	116.3	114.7	114.7
32.5°	2578.9	1608.0	279.6	152.3	132.3	118.0	109.7	107.1	108.0	106.3	107.1
35°	2554.7	1442.2	207.6	135.6	118.0	104.6	100.4	100.4	100.4	99.6	99.6
37.5°	2564.7	1279.0	169.1	123.9	105.5	95.4	91.2	92.9	94.6	94.6	94.6
40°	2614.9	1134.2	149.8	113.0	94.6	87.1	83.7	86.2	88.7	90.4	90.4
42.5°	2678.5	1017.0	135.6	103.8	87.1	78.7	77.0	79.5	82.0	83.7	83.7
45°	2718.7	899.0	121.4	92.1	79.5	69.5	69.5	72.8	72.0	72.8	72.8
47.5°	2737.1	805.2	107.1	79.5	67.8	60.3	61.1	62.8	61.1	62.8	62.8
50°	2691.9	710.7	94.6	66.1	56.1	52.7	54.4	53.6	53.6	56.9	56.9
52.5°	2609.1	640.3	83.7	56.1	47.7	46.9	48.5	45.2	46.0	46.0	45.2
55°	2548.0	600.2	74.5	48.5	41.0	41.9	41.0	35.2	31.8	28.5	27.6
57.5°	2517.8	584.3	67.8	43.5	36.8	36.8	33.5	24.3	18.4	14.2	12.6
60°	2511.1	565.0	61.1	37.7	32.6	31.0	24.3	14.2	9.2	6.7	5.9
62.5°	2447.5	518.1	55.2	30.1	28.5	25.1	15.1	8.4	5.0	3.3	2.5
65°	2239.1	426.1	49.4	23.4	21.8	18.4	9.2	5.0	2.5	0.8	0.0
67.5°	1781.2	302.2	43.5	17.6	15.1	11.7	5.9	3.3	0.8	0.0	0.0
70°	1027.1	163.2	36.0	12.6	10.0	7.5	4.2	1.7	0.0	0.0	0.0
72.5°	343.2	76.2	27.6	8.4	7.5	5.9	2.5	0.8	0.0	0.0	0.0
75°	75.3	45.2	18.4	5.9	5.0	4.2	1.7	0.0	0.0	0.0	0.0
77.5°	28.5	31.8	9.2	4.2	3.3	2.5	0.8	0.0	0.0	0.0	0.0
80°	10.9	20.9	4.2	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	8.4	2.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	4.2	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	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)