

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: P639518

Luminaire Tested: GWS-SA5C-722-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639518  
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-SA5C-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

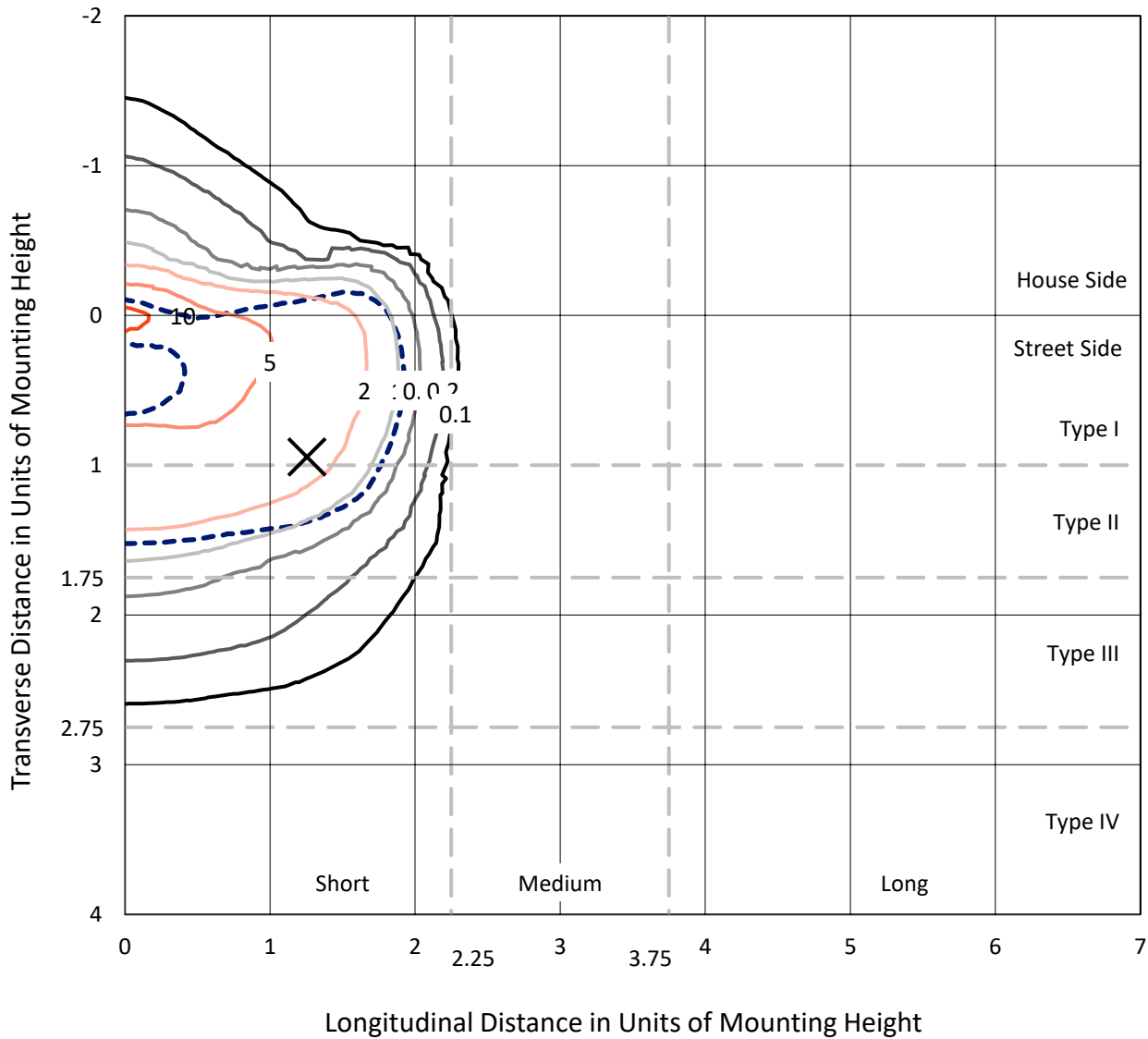
Lumens per Lamp: N/A  
Luminaire Lumens: 10259.2 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

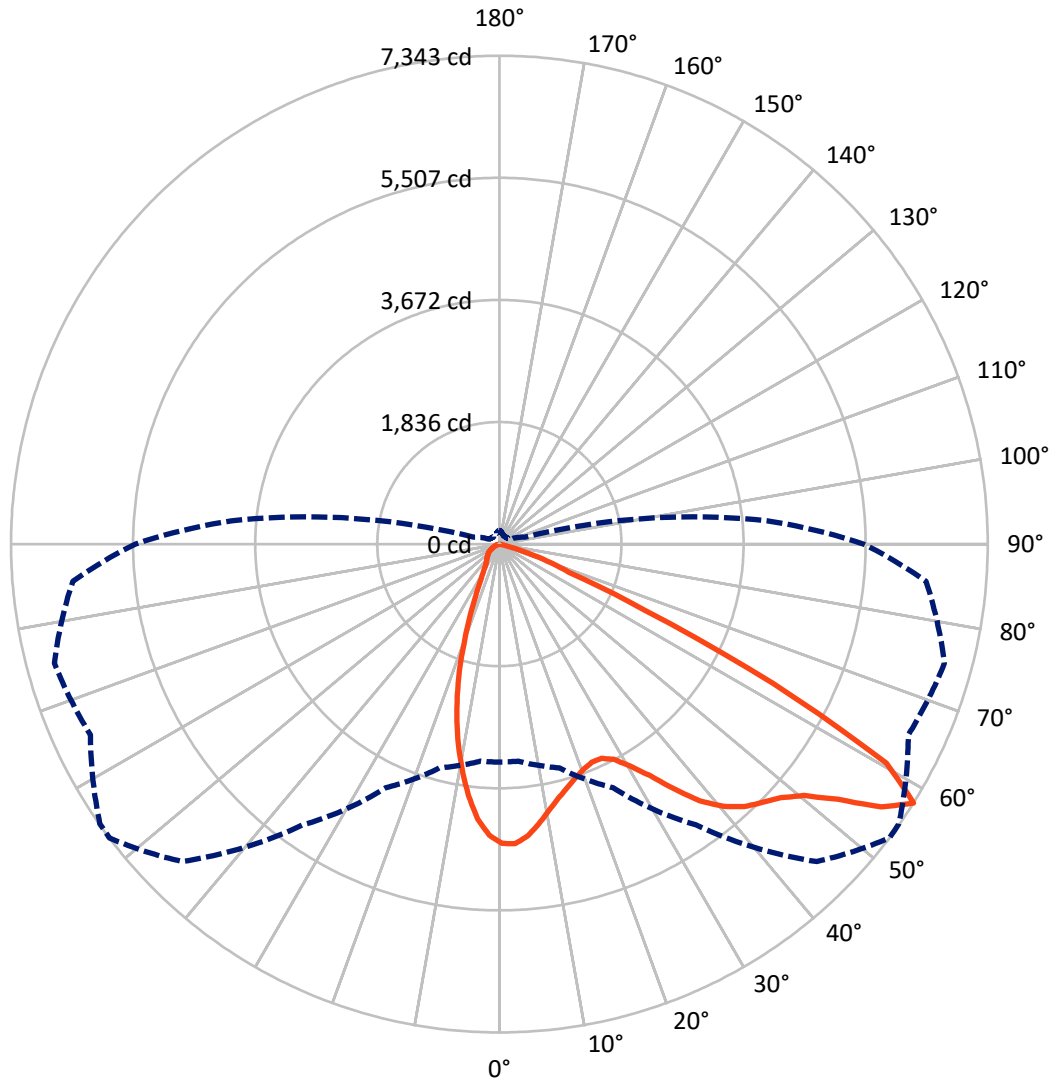
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	1694.7	0.0	1694.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8564.5	0.0	8564.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10259.2	0.0	10259.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.0	3.8
10°-20°	845.3	8.2
20°-30°	1101.2	10.7
30°-40°	1597.3	15.6
40°-50°	2304.8	22.5
50°-60°	2787.4	27.2
60°-70°	1136.0	11.1
70°-80°	102.1	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°	10259.2	100.0
0°-180°	10259.2	100.0

**Coefficient of Utilization**



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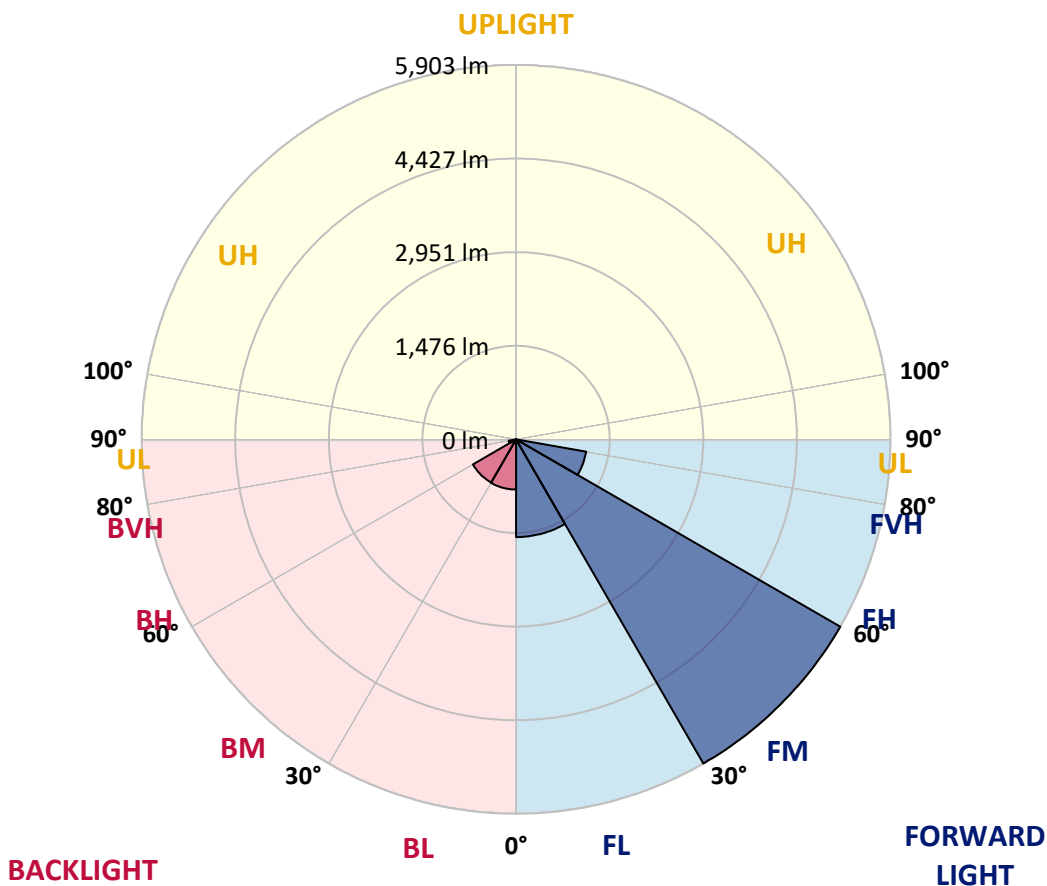
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.6	15.0			
FM (30°-60°)	5902.9	57.5			
FH (60°-80°)	1121.0	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	790.9	7.7	B2/1000		
BM (30°-60°)	786.6	7.7	B1/1000		
BH (60°-80°)	117.1	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°	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3
2.5°	4437.4	4447.5	4465.1	4487.7	4502.8	4510.3	4510.3	4531.7	4517.9	4506.6	4494.0
5°	4247.5	4257.6	4281.5	4317.9	4354.4	4380.8	4411.0	4433.6	4442.4	4442.4	4421.1
7.5°	3979.7	3993.5	4008.6	4058.9	4138.1	4197.2	4248.8	4281.5	4329.3	4344.4	4314.2
10°	3691.8	3705.6	3739.5	3808.7	3899.2	3987.2	4075.3	4116.8	4198.5	4241.2	4207.3
12.5°	3447.8	3454.1	3499.4	3582.4	3698.0	3818.8	3925.6	3968.4	4084.1	4148.2	4108.0
15°	3246.6	3250.4	3295.7	3387.5	3520.7	3669.1	3803.7	3847.7	3989.8	4086.6	4026.2
17.5°	3094.5	3095.7	3134.7	3234.1	3373.6	3538.4	3698.0	3752.1	3935.7	4052.6	3962.1
20°	3017.8	3014.0	3041.7	3128.4	3260.5	3425.2	3613.8	3680.4	3905.5	4047.6	3913.1
22.5°	3019.0	3010.2	3021.6	3083.2	3195.1	3349.7	3561.0	3636.4	3908.0	4069.0	3871.6
25°	3090.7	3078.1	3080.7	3113.3	3192.6	3333.4	3568.5	3649.0	3958.3	4140.7	3856.5
27.5°	3211.4	3197.6	3197.6	3213.9	3256.7	3384.9	3662.8	3754.6	4092.9	4280.2	3887.9
30°	3367.3	3353.5	3348.5	3364.8	3400.0	3518.2	3872.8	3968.4	4323.0	4509.1	3988.5
32.5°	3545.9	3529.5	3538.4	3561.0	3594.9	3758.4	4143.2	4270.2	4610.9	4817.1	4169.6
35°	3734.5	3720.7	3760.9	3810.0	3862.8	4091.6	4516.6	4627.3	4964.3	5200.6	4446.2
37.5°	3914.3	3908.0	3992.3	4095.4	4204.8	4491.5	4896.4	4981.9	5267.3	5618.1	4784.4
40°	4094.1	4092.9	4237.5	4418.5	4593.3	4890.1	5184.3	5254.7	5452.1	5942.5	5108.9
42.5°	4295.3	4295.3	4495.2	4736.7	4969.3	5227.1	5395.5	5427.0	5535.1	6129.9	5352.8
45°	4487.7	4499.0	4730.4	5010.8	5286.2	5489.9	5541.4	5543.9	5569.1	6240.5	5555.2
47.5°	4639.8	4649.9	4926.5	5249.7	5546.4	5689.8	5697.3	5686.0	5658.3	6346.1	5711.2
50°	4763.1	4778.2	5067.4	5409.4	5725.0	5882.2	5940.0	5928.7	5858.3	6459.3	5820.6
52.5°	4823.4	4844.8	5116.4	5488.6	5923.7	6211.6	6372.6	6399.0	6157.5	6522.2	5924.9
55°	4340.6	4372.0	4622.2	5131.5	6034.3	6720.9	6973.6	6968.6	6481.9	6709.5	6178.9
57.5°	3278.1	3275.6	3483.0	4040.1	5154.1	6749.8	7343.3	7333.2	6785.0	6927.1	6439.2
60°	2231.9	2216.8	2272.1	2541.2	3603.7	5498.7	6683.1	6818.9	6570.0	6399.0	5467.2
62.5°	1837.1	1823.2	1805.6	1731.5	2069.7	3425.2	4617.2	4823.4	4790.7	4447.5	3429.0
65°	1503.9	1515.2	1564.2	1532.8	1439.7	1756.6	2396.6	2518.6	2302.3	1937.7	1198.3
67.5°	1109.0	1114.1	1178.2	1344.2	1293.9	1169.4	1127.9	1148.0	672.7	309.3	199.9
70°	655.1	658.9	718.0	940.5	1049.9	897.8	762.0	750.7	266.6	83.0	90.5
72.5°	370.9	363.4	374.7	447.6	572.1	476.6	392.3	357.1	80.5	46.5	46.5
75°	176.0	171.0	147.1	138.3	125.7	80.5	50.3	42.8	20.1	18.9	18.9
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°	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3	4500.3
2.5°	4471.3	4433.6	4424.8	4422.3	4387.1	4349.4	4310.4	4295.3	4272.7	4258.8	4270.2
5°	4387.1	4333.0	4285.3	4241.2	4163.3	4077.8	4003.6	3955.8	3910.5	3880.4	3887.9
7.5°	4267.6	4197.2	4087.8	3975.9	3832.6	3704.3	3561.0	3473.0	3391.2	3346.0	3367.3
10°	4140.7	4047.6	3872.8	3683.0	3457.9	3256.7	3051.7	2884.5	2787.7	2695.9	2705.9
12.5°	4016.2	3892.9	3631.4	3343.5	3059.3	2762.5	2453.2	2221.8	2063.4	1949.0	1931.4
15°	3900.5	3742.1	3396.3	3016.5	2629.2	2234.4	1839.6	1508.9	1325.3	1212.1	1204.6
17.5°	3797.4	3601.2	3152.3	2674.5	2189.2	1683.7	1229.7	982.0	876.4	827.4	822.3
20°	3698.0	3459.1	2903.4	2327.5	1708.8	1182.0	848.8	734.3	700.4	680.3	682.8
22.5°	3602.5	3304.5	2641.8	1942.7	1281.3	829.9	657.6	613.6	609.8	612.4	613.6
25°	3522.0	3162.4	2372.7	1571.8	914.1	632.5	549.5	536.9	548.2	564.6	567.1
27.5°	3480.5	3046.7	2109.9	1198.3	661.4	514.3	476.6	481.6	501.7	519.3	521.8
30°	3491.8	2959.9	1838.3	868.9	509.3	433.8	421.2	431.3	451.4	467.8	470.3
32.5°	3572.3	2915.9	1560.4	632.5	418.7	378.5	373.5	381.0	398.6	411.2	412.4
35°	3732.0	2926.0	1296.4	484.1	359.6	337.0	335.7	340.8	349.6	358.4	359.6
37.5°	3967.1	3007.7	1036.1	402.4	325.7	309.3	304.3	304.3	310.6	314.4	316.9
40°	4219.9	3131.0	829.9	355.8	301.8	284.2	274.1	270.3	275.4	280.4	281.7
42.5°	4428.6	3254.2	674.0	323.2	282.9	259.0	246.5	243.9	250.2	259.0	261.5
45°	4588.3	3349.7	562.1	296.7	261.5	235.1	221.3	221.3	232.6	247.7	250.2
47.5°	4734.1	3426.4	479.1	272.9	241.4	213.8	199.9	202.4	221.3	241.4	245.2
50°	4833.5	3488.1	417.5	251.5	225.1	196.2	183.6	188.6	211.2	235.1	238.9
52.5°	4940.4	3563.5	377.2	232.6	210.0	182.3	171.0	174.8	199.9	226.3	231.4
55°	5235.9	3816.2	376.0	207.5	183.6	163.5	158.4	159.7	184.8	215.0	221.3
57.5°	5477.3	4038.8	401.1	174.8	153.4	143.3	140.8	142.1	164.7	198.7	206.2
60°	4531.7	3138.5	332.0	144.6	128.3	125.7	122.0	124.5	145.9	176.0	182.3
62.5°	2682.1	1794.3	158.4	110.7	109.4	106.9	103.1	108.1	128.3	154.7	158.4
65°	916.7	531.9	100.6	90.5	93.0	89.3	85.5	90.5	108.1	123.2	124.5
67.5°	176.0	140.8	80.5	75.4	76.7	69.2	67.9	72.9	83.0	85.5	84.2
70°	91.8	81.7	61.6	61.6	59.1	49.0	49.0	54.1	54.1	50.3	49.0
72.5°	47.8	45.3	40.2	45.3	37.7	30.2	30.2	32.7	30.2	25.1	25.1
75°	18.9	18.9	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)