

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: P637263

Luminaire Tested: GWS-SA4C-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637263  
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-SA4C-740-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

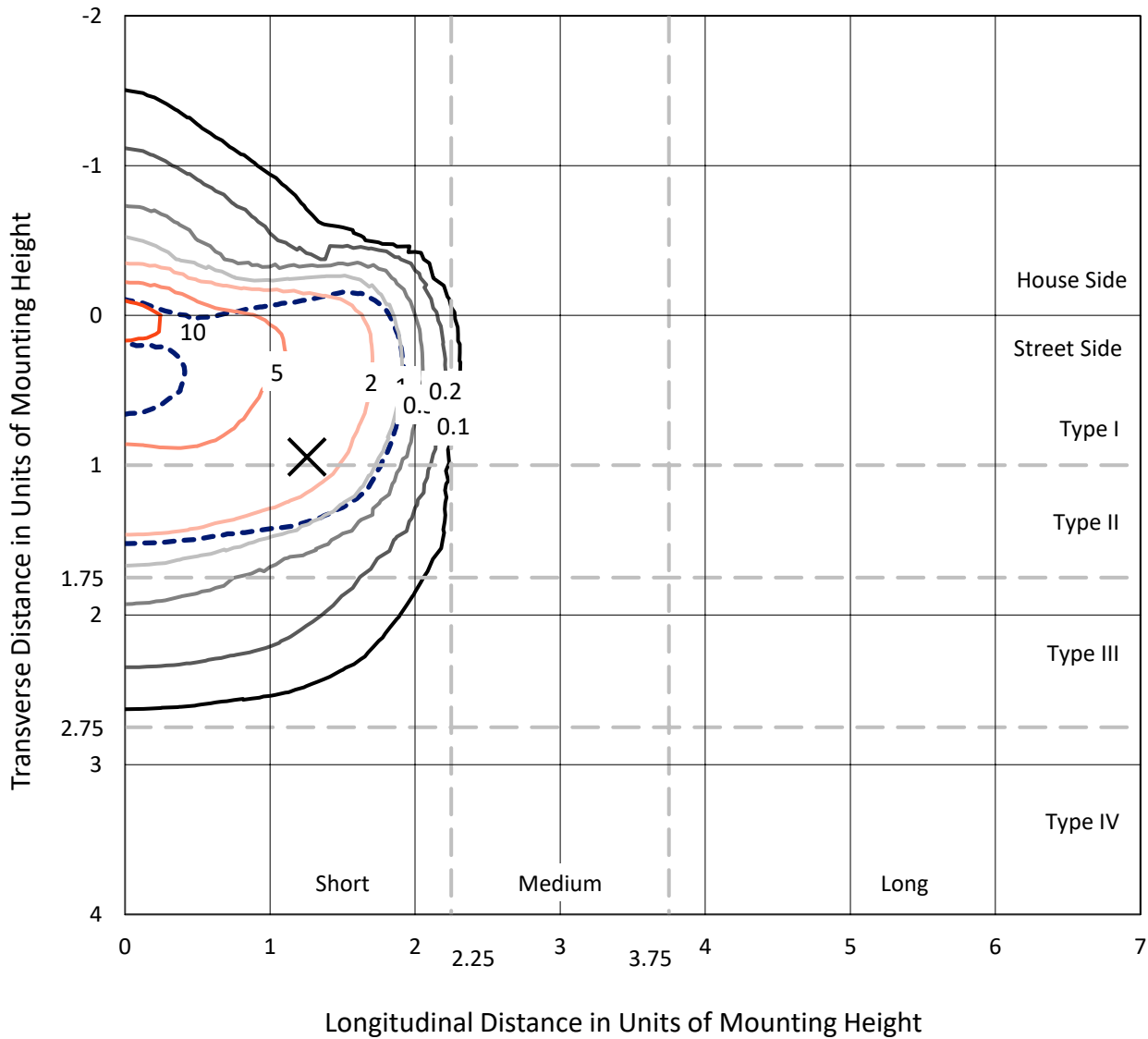
Lumens per Lamp: N/A  
Luminaire Lumens: 11353.8 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

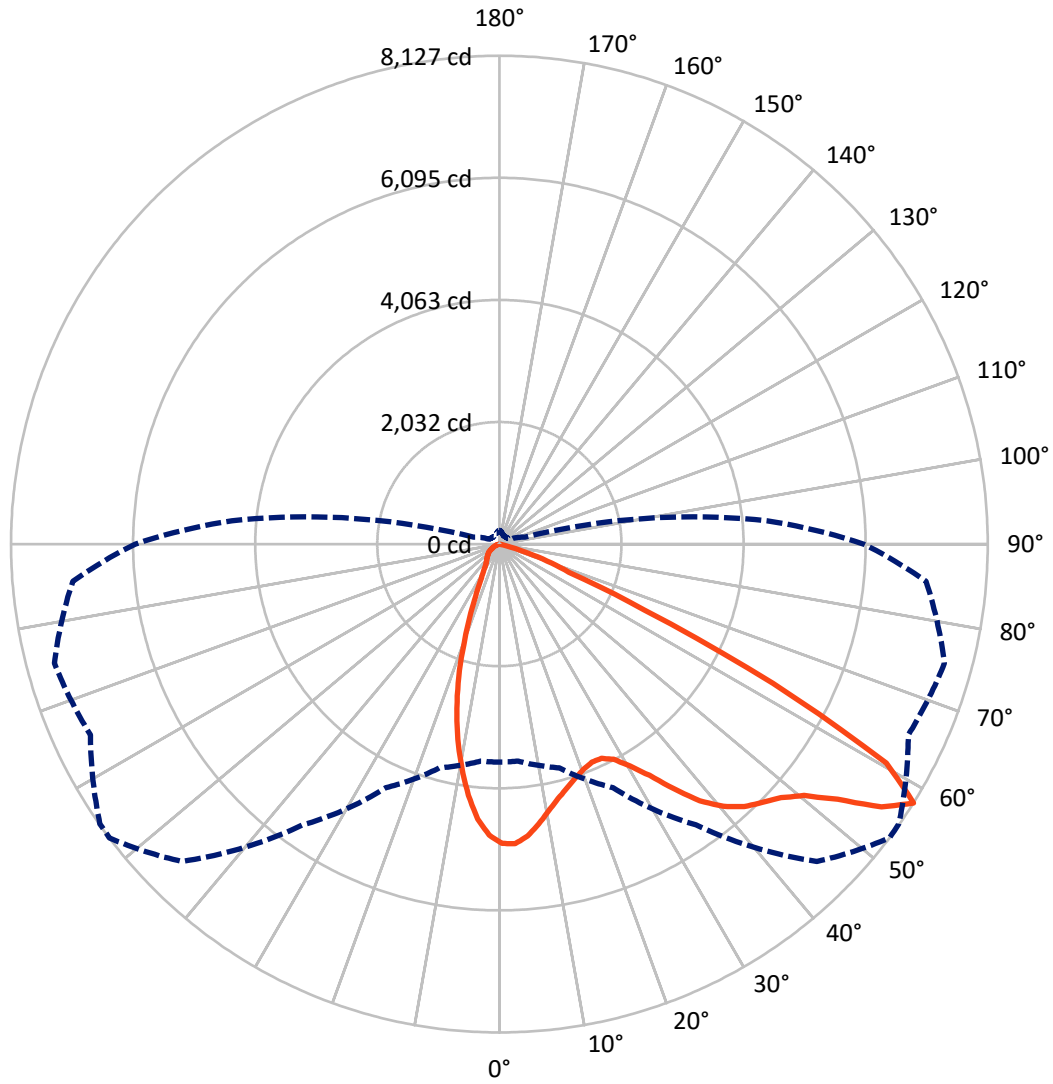
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.5 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	1875.5	0.0	1875.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9478.3	0.0	9478.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	11353.8	0.0	11353.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.1	3.8
10°-20°	935.5	8.2
20°-30°	1218.7	10.7
30°-40°	1767.7	15.6
40°-50°	2550.7	22.5
50°-60°	3084.8	27.2
60°-70°	1257.3	11.1
70°-80°	113.0	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°	11353.8	100.0
0°-180°	11353.8	100.0

**Coefficient of Utilization**



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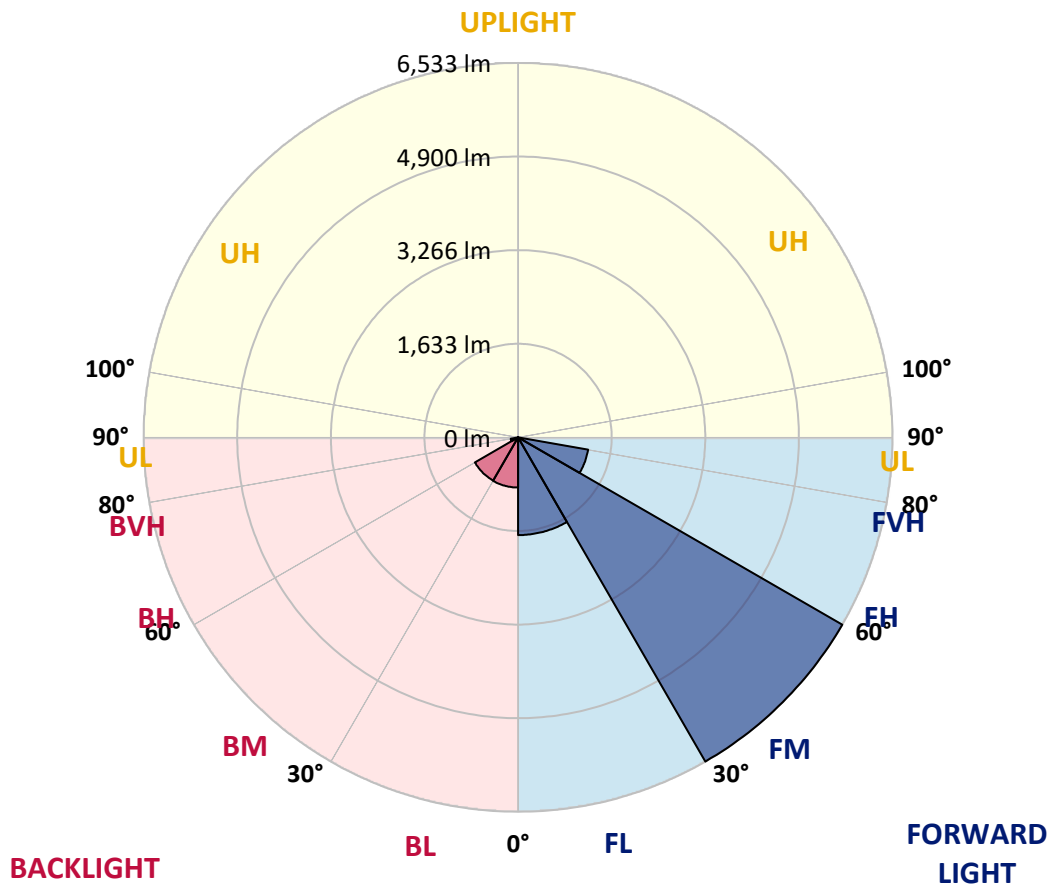
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.0	15.0			
FM (30°-60°)	6532.8	57.5			
FH (60°-80°)	1240.6	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	875.3	7.7	B2/1000		
BM (30°-60°)	870.5	7.7	B1/1000		
BH (60°-80°)	129.6	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°	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4
2.5°	4910.8	4922.0	4941.5	4966.5	4983.2	4991.6	4991.6	5015.2	4999.9	4987.4	4973.5
5°	4700.7	4711.9	4738.3	4778.6	4819.0	4848.2	4881.6	4906.7	4916.4	4916.4	4892.8
7.5°	4404.3	4419.6	4436.3	4492.0	4579.7	4645.1	4702.1	4738.3	4791.2	4807.9	4774.5
10°	4085.6	4101.0	4138.5	4215.1	4315.3	4412.7	4510.1	4556.0	4646.4	4693.8	4656.2
12.5°	3815.7	3822.6	3872.7	3964.6	4092.6	4226.2	4344.5	4391.8	4519.8	4590.8	4546.3
15°	3593.0	3597.2	3647.3	3748.9	3896.4	4060.6	4209.5	4258.2	4415.4	4522.6	4455.8
17.5°	3424.7	3426.0	3469.2	3579.1	3733.6	3915.9	4092.6	4152.4	4355.6	4485.0	4384.8
20°	3339.8	3335.6	3366.2	3462.2	3608.3	3790.6	3999.4	4073.1	4322.2	4479.5	4330.6
22.5°	3341.2	3331.4	3343.9	3412.1	3536.0	3707.1	3940.9	4024.4	4325.0	4503.1	4284.6
25°	3420.5	3406.6	3409.3	3445.5	3533.2	3689.0	3949.3	4038.3	4380.7	4582.4	4267.9
27.5°	3554.1	3538.8	3538.8	3556.8	3604.2	3746.1	4053.6	4155.2	4529.6	4736.9	4302.7
30°	3726.6	3711.3	3705.7	3723.8	3762.8	3893.6	4286.0	4391.8	4784.2	4990.2	4414.1
32.5°	3924.2	3906.1	3915.9	3940.9	3978.5	4159.4	4585.2	4725.8	5102.9	5331.1	4614.4
35°	4133.0	4117.7	4162.2	4216.5	4274.9	4528.2	4998.5	5121.0	5493.9	5755.5	4920.6
37.5°	4332.0	4325.0	4418.2	4532.3	4653.4	4970.7	5418.8	5513.4	5829.3	6217.5	5294.9
40°	4530.9	4529.6	4689.6	4890.0	5083.4	5411.8	5737.4	5815.4	6033.8	6576.6	5653.9
42.5°	4753.6	4753.6	4974.9	5242.0	5499.5	5784.8	5971.2	6006.0	6125.7	6783.9	5923.9
45°	4966.5	4979.0	5235.1	5545.4	5850.2	6075.6	6132.6	6135.4	6163.3	6906.4	6147.9
47.5°	5134.9	5146.0	5452.2	5809.8	6138.2	6296.8	6305.2	6292.7	6262.1	7023.2	6320.5
50°	5271.3	5288.0	5608.0	5986.5	6335.8	6509.8	6573.8	6561.2	6483.3	7148.5	6441.6
52.5°	5338.1	5361.7	5662.3	6074.2	6555.7	6874.3	7052.5	7081.7	6814.5	7218.1	6557.1
55°	4803.7	4838.5	5115.4	5679.0	6678.1	7437.9	7717.6	7712.1	7173.5	7425.4	6838.2
57.5°	3627.8	3625.0	3854.6	4471.1	5704.0	7469.9	8126.8	8115.6	7508.9	7666.2	7126.2
60°	2470.0	2453.3	2514.6	2812.4	3988.2	6085.3	7396.2	7546.5	7270.9	7081.7	6050.5
62.5°	2033.1	2017.8	1998.3	1916.2	2290.5	3790.6	5109.8	5338.1	5301.9	4922.0	3794.8
65°	1664.3	1676.8	1731.1	1696.3	1593.3	1944.0	2652.3	2787.3	2548.0	2144.4	1326.2
67.5°	1227.4	1232.9	1303.9	1487.6	1431.9	1294.2	1248.2	1270.5	744.5	342.3	221.3
70°	725.0	729.2	794.6	1040.9	1162.0	993.6	843.3	830.8	295.0	91.8	100.2
72.5°	410.5	402.2	414.7	495.4	633.2	527.4	434.2	395.2	89.1	51.5	51.5
75°	194.8	189.3	162.8	153.1	139.2	89.1	55.7	47.3	22.3	20.9	20.9
77.5°	1.4	4.2	2.8	4.2	4.2	2.8	1.4	1.4	4.2	4.2	5.6
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°	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4	4980.4
2.5°	4948.4	4906.7	4896.9	4894.1	4855.2	4813.4	4770.3	4753.6	4728.6	4713.2	4725.8
5°	4855.2	4795.3	4742.5	4693.8	4607.5	4512.9	4430.8	4377.9	4327.8	4294.4	4302.7
7.5°	4723.0	4645.1	4524.0	4400.1	4241.5	4099.6	3940.9	3843.5	3753.1	3703.0	3726.6
10°	4582.4	4479.5	4286.0	4075.9	3826.8	3604.2	3377.3	3192.3	3085.1	2983.5	2994.7
12.5°	4444.7	4308.3	4018.9	3700.2	3385.7	3057.3	2715.0	2458.9	2283.6	2156.9	2137.4
15°	4316.6	4141.3	3758.6	3338.4	2909.8	2472.8	2035.9	1669.9	1466.7	1341.5	1333.1
17.5°	4202.5	3985.5	3488.7	2959.9	2422.7	1863.3	1361.0	1086.8	969.9	915.7	910.1
20°	4092.6	3828.2	3213.1	2575.8	1891.1	1308.1	939.3	812.7	775.1	752.8	755.6
22.5°	3986.8	3657.0	2923.7	2150.0	1418.0	918.4	727.8	679.1	674.9	677.7	679.1
25°	3897.8	3499.8	2625.9	1739.5	1011.7	700.0	608.1	594.2	606.7	624.8	627.6
27.5°	3851.9	3371.8	2335.1	1326.2	732.0	569.2	527.4	533.0	555.2	574.7	577.5
30°	3864.4	3275.8	2034.5	961.6	563.6	480.1	466.2	477.3	499.6	517.7	520.4
32.5°	3953.4	3227.0	1726.9	700.0	463.4	418.9	413.3	421.6	441.1	455.0	456.4
35°	4130.2	3238.2	1434.7	535.8	398.0	372.9	371.5	377.1	386.9	396.6	398.0
37.5°	4390.4	3328.6	1146.7	445.3	360.4	342.3	336.8	336.8	343.7	347.9	350.7
40°	4670.1	3465.0	918.4	393.8	334.0	314.5	303.4	299.2	304.8	310.3	311.7
42.5°	4901.1	3601.4	745.9	357.6	313.1	286.7	272.7	270.0	276.9	286.7	289.4
45°	5077.8	3707.1	622.0	328.4	289.4	260.2	244.9	244.9	257.4	274.1	276.9
47.5°	5239.3	3792.0	530.2	302.0	267.2	236.6	221.3	224.0	244.9	267.2	271.4
50°	5349.2	3860.2	462.0	278.3	249.1	217.1	203.2	208.7	233.8	260.2	264.4
52.5°	5467.5	3943.7	417.5	257.4	232.4	201.8	189.3	193.4	221.3	250.5	256.0
55°	5794.5	4223.4	416.1	229.6	203.2	180.9	175.3	176.7	204.6	238.0	244.9
57.5°	6061.7	4469.7	443.9	193.4	169.8	158.6	155.9	157.2	182.3	219.9	228.2
60°	5015.2	3473.4	367.4	160.0	141.9	139.2	135.0	137.8	161.4	194.8	201.8
62.5°	2968.2	1985.8	175.3	122.5	121.1	118.3	114.1	119.7	141.9	171.2	175.3
65°	1014.5	588.6	111.3	100.2	103.0	98.8	94.6	100.2	119.7	136.4	137.8
67.5°	194.8	155.9	89.1	83.5	84.9	76.5	75.1	80.7	91.8	94.6	93.2
70°	101.6	90.5	68.2	68.2	65.4	54.3	54.3	59.8	59.8	55.7	54.3
72.5°	52.9	50.1	44.5	50.1	41.7	33.4	33.4	36.2	33.4	27.8	27.8
75°	20.9	20.9	19.5	25.0	18.1	15.3	13.9	16.7	12.5	9.7	9.7
77.5°	5.6	5.6	5.6	7.0	4.2	4.2	2.8	2.8	1.4	0.0	0.0
80°	0.0	1.4	0.0	1.4	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)