

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: P640009

Luminaire Tested: GWS-SA5D-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640009
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-SA5D-722-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 12993.3 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

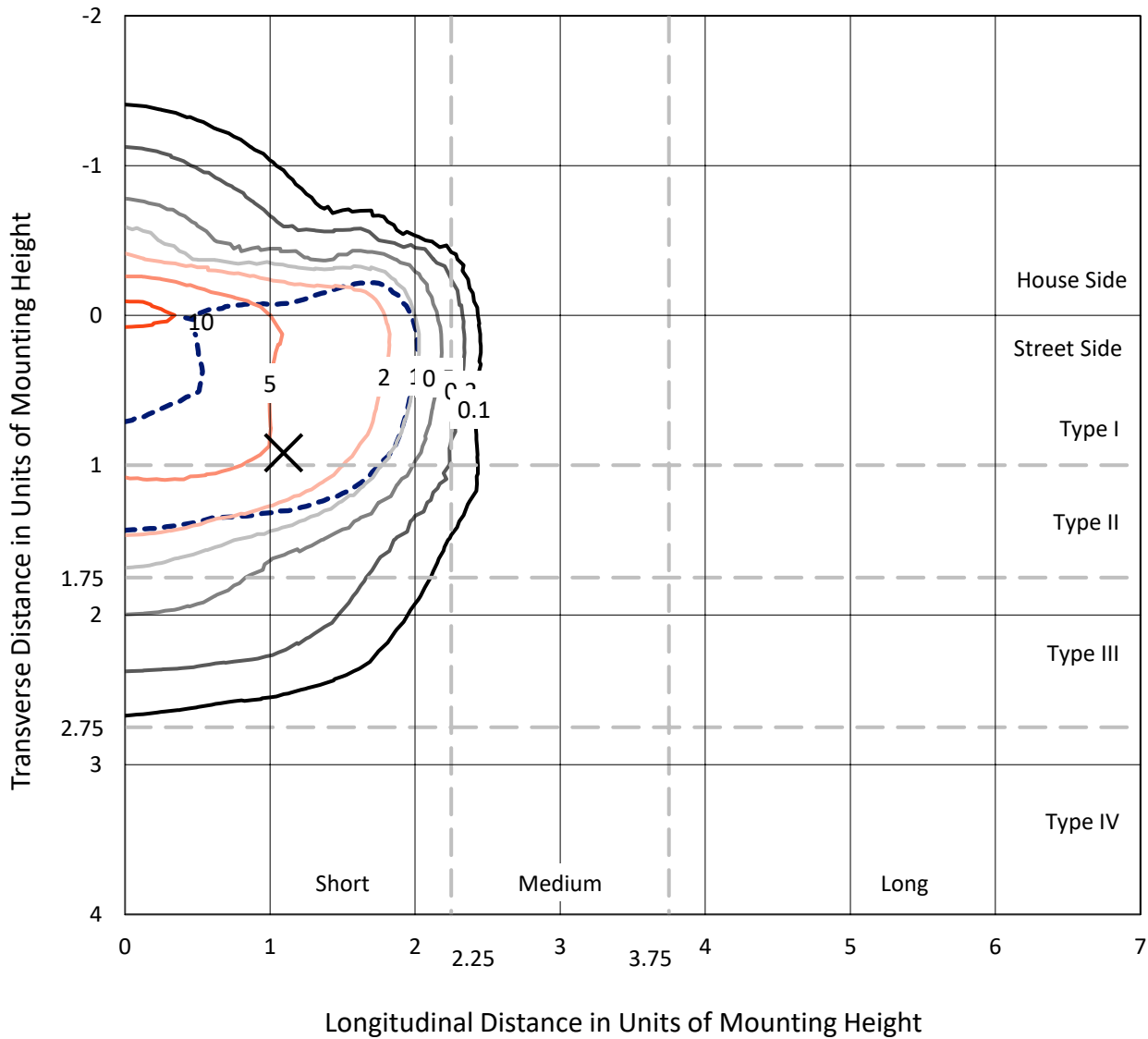
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

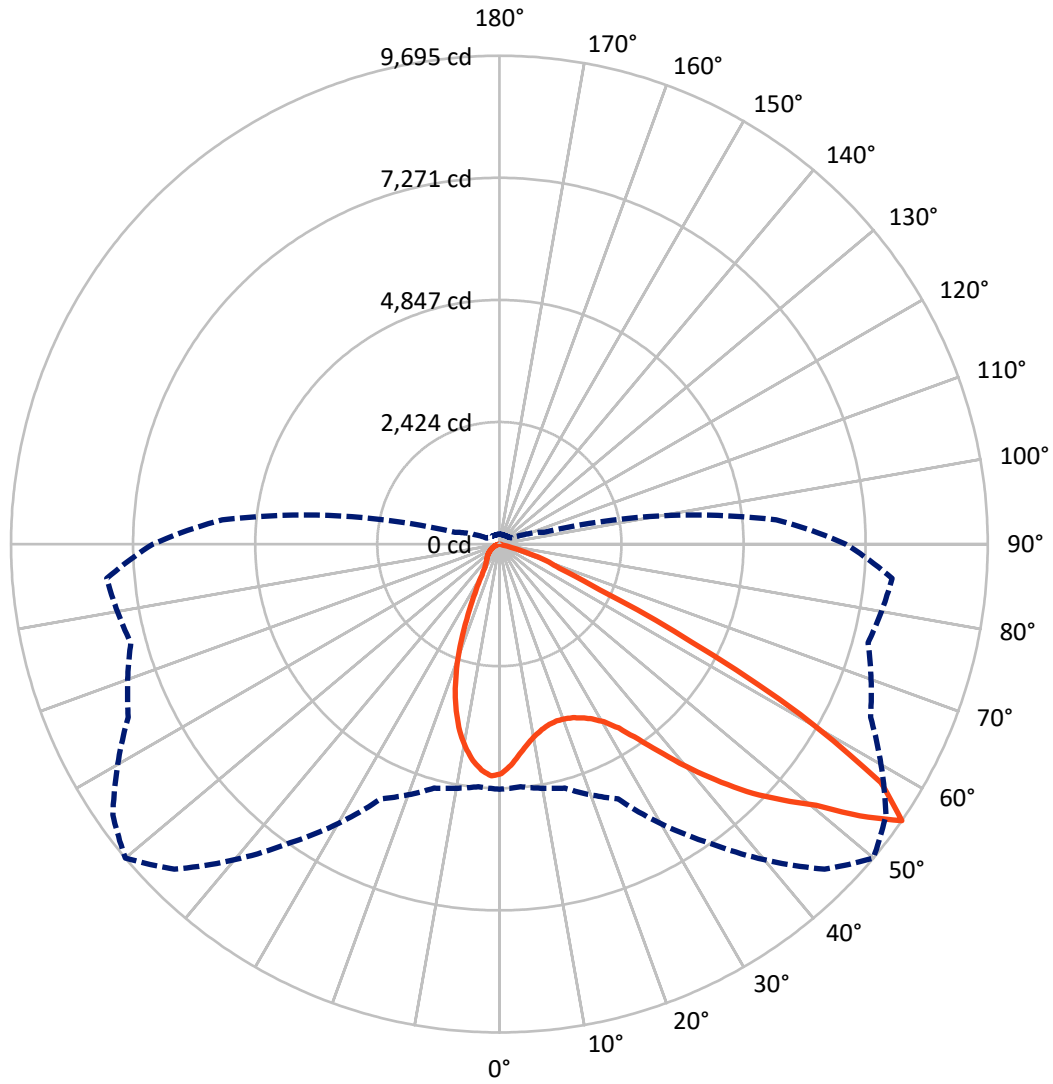
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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	2560.3	0.0	2560.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	10433.0	0.0	10433.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	12993.3	0.0	12993.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.4	3.1
10°-20°	985.2	7.6
20°-30°	1389.7	10.7
30°-40°	2056.4	15.8
40°-50°	2966.8	22.8
50°-60°	3499.5	26.9
60°-70°	1561.1	12.0
70°-80°	134.2	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°	12993.3	100.0
0°-180°	12993.3	100.0

Coefficient of Utilization



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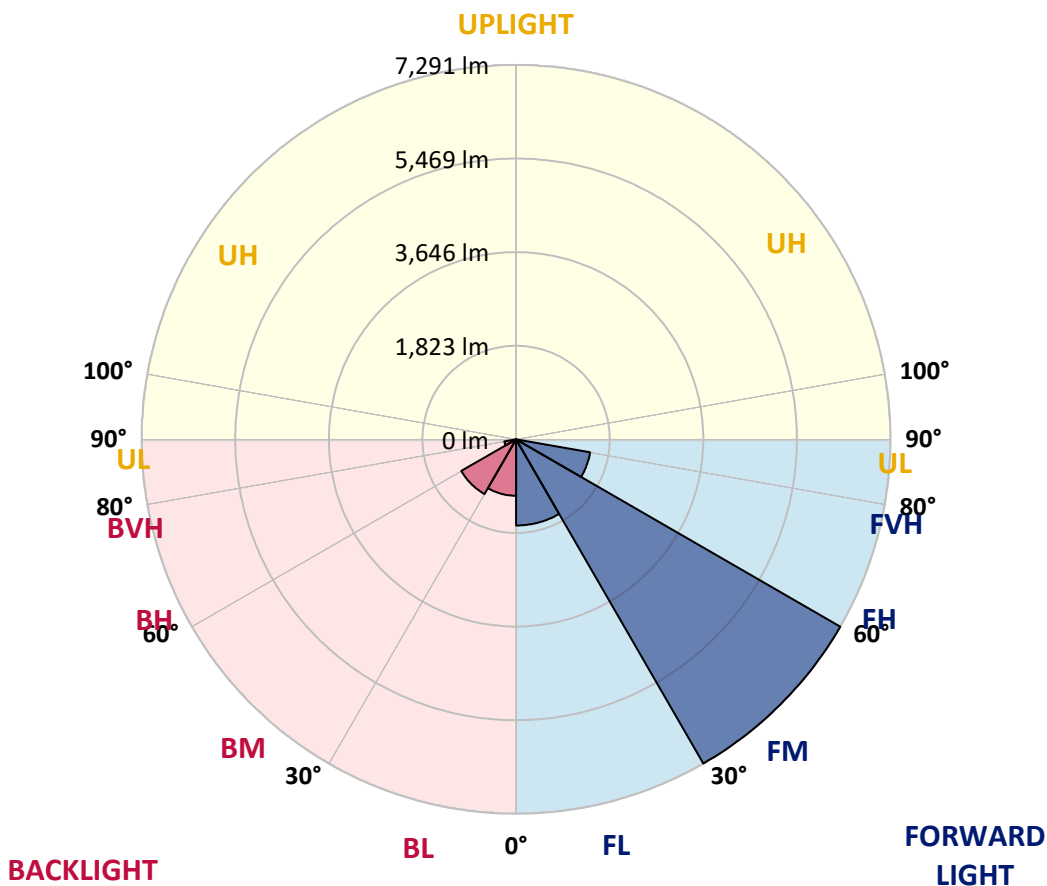
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.5	12.9			
FM (30°-60°)	7291.4	56.1			
FH (60°-80°)	1464.1	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1097.8	8.4	B3/2500		
BM (30°-60°)	1231.3	9.5	B2/2500		
BH (60°-80°)	231.2	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: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8
2.5°	4235.2	4238.4	4239.9	4282.8	4298.6	4362.1	4395.4	4412.8	4458.8	4512.8	4557.2
5°	3951.3	3946.5	3954.4	4008.4	4043.3	4136.8	4187.6	4222.5	4324.0	4450.9	4557.2
7.5°	3703.8	3713.3	3722.8	3781.5	3833.9	3935.4	4008.4	4060.7	4201.9	4390.6	4569.9
10°	3529.3	3529.3	3543.6	3610.2	3672.1	3797.4	3870.4	3937.0	4105.1	4336.7	4584.2
12.5°	3400.8	3402.4	3419.9	3496.0	3567.4	3697.5	3773.6	3838.6	4024.2	4282.8	4587.3
15°	3340.6	3335.8	3350.1	3431.0	3510.3	3632.4	3711.7	3775.2	3967.1	4252.6	4603.2
17.5°	3324.7	3321.5	3332.6	3411.9	3492.8	3611.8	3689.5	3753.0	3959.2	4262.2	4650.8
20°	3370.7	3364.4	3359.6	3427.8	3503.9	3621.3	3702.2	3773.6	3997.3	4314.5	4723.7
22.5°	3480.1	3480.1	3469.0	3502.4	3553.1	3659.4	3743.5	3837.0	4097.2	4419.2	4831.6
25°	3681.6	3665.7	3645.1	3659.4	3653.0	3719.7	3819.6	3949.7	4285.9	4592.1	4963.3
27.5°	3911.6	3925.9	3891.0	3892.6	3837.0	3813.3	3929.0	4125.7	4566.7	4836.4	5158.4
30°	4224.1	4213.0	4214.6	4209.8	4081.3	3968.7	4094.0	4355.7	4920.4	5209.1	5412.2
32.5°	4468.4	4484.2	4536.6	4566.7	4398.6	4217.7	4351.0	4668.2	5323.3	5634.2	5723.1
35°	4726.9	4755.5	4861.7	4960.1	4818.9	4611.1	4753.9	5082.2	5702.4	6054.6	6079.9
37.5°	4999.7	5056.8	5183.7	5356.6	5334.4	5150.4	5280.5	5569.2	6000.6	6308.4	6375.0
40°	5312.2	5367.7	5575.5	5824.6	5876.9	5835.7	5878.5	6046.6	6197.3	6319.5	6501.9
42.5°	5654.8	5731.0	5994.3	6327.4	6524.1	6560.6	6460.6	6443.2	6283.0	6192.6	6474.9
45°	6059.3	6148.2	6446.4	6877.8	7190.3	7239.5	7066.6	6842.9	6336.9	6099.0	6394.0
47.5°	6513.0	6597.1	6893.7	7412.4	7877.1	7896.2	7594.8	7234.7	6497.1	6206.8	6455.9
50°	6665.3	6717.6	6974.6	7583.7	8440.2	8586.2	8150.0	7675.7	6819.1	6524.1	6757.3
52.5°	6141.8	6162.4	6386.1	7001.5	8326.0	9263.5	8960.5	8334.0	7391.7	7007.9	7222.0
55°	4866.5	4833.2	5014.0	5578.7	7236.3	9125.5	9694.9	9368.2	8129.3	7575.7	7826.4
57.5°	3404.0	3364.4	3323.1	3705.4	5399.5	7736.0	8933.5	9512.5	8832.0	8138.9	8478.3
60°	2798.1	2760.0	2560.1	2384.1	3264.4	5554.9	6862.0	7951.7	8774.9	8110.3	8457.7
62.5°	2417.4	2395.2	2314.3	2074.8	1920.9	3170.8	4297.0	5340.8	6733.5	6368.6	6387.7
65°	1898.7	1892.4	1947.9	1973.2	1698.8	1754.4	2192.1	2775.9	3640.4	3432.6	3254.9
67.5°	1297.5	1283.2	1387.9	1706.8	1633.8	1384.8	1283.2	1294.3	1575.1	962.8	764.6
70°	824.8	791.5	793.1	1058.0	1329.2	1092.9	989.8	870.8	783.6	142.8	161.8
72.5°	528.2	507.6	436.2	477.4	615.5	533.0	537.7	463.2	309.3	76.1	88.8
75°	222.1	204.6	157.0	125.3	123.7	77.7	68.2	63.4	42.8	42.8	46.0
77.5°	1.6	0.0	0.0	1.6	3.2	1.6	1.6	3.2	6.3	9.5	11.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8	4558.8
2.5°	4584.2	4546.1	4588.9	4604.8	4603.2	4604.8	4558.8	4527.0	4525.5	4485.8	4466.8
5°	4601.6	4571.5	4603.2	4582.6	4533.4	4471.5	4389.0	4317.7	4285.9	4239.9	4217.7
7.5°	4634.9	4603.2	4598.4	4515.9	4393.8	4263.7	4117.8	3987.7	3917.9	3833.9	3838.6
10°	4658.7	4622.2	4560.4	4392.2	4189.2	3981.4	3764.1	3570.6	3448.4	3335.8	3316.8
12.5°	4668.2	4614.3	4469.9	4216.2	3930.6	3659.4	3340.6	3064.6	2874.2	2726.7	2706.1
15°	4685.7	4598.4	4354.2	4003.6	3611.8	3227.9	2821.9	2444.4	2192.1	2022.4	2036.7
17.5°	4712.6	4581.0	4224.1	3765.7	3269.2	2726.7	2177.9	1744.8	1513.2	1414.9	1416.5
20°	4750.7	4560.4	4081.3	3503.9	2858.4	2160.4	1522.8	1196.0	1131.0	1127.8	1123.0
22.5°	4801.5	4539.7	3929.0	3216.8	2371.4	1513.2	1013.6	912.1	939.0	991.4	1000.9
25°	4861.7	4514.4	3759.3	2893.2	1840.0	993.0	759.8	743.9	809.0	878.8	894.6
27.5°	4955.3	4501.7	3565.8	2525.2	1291.2	712.2	621.8	631.3	690.0	748.7	763.0
30°	5113.9	4525.5	3354.8	2112.8	829.6	567.9	539.3	553.6	585.3	615.5	628.1
32.5°	5329.7	4595.3	3150.2	1662.3	591.7	493.3	487.0	494.9	507.6	525.0	529.8
35°	5581.9	4715.8	2939.3	1189.7	488.6	450.5	444.1	444.1	450.5	453.7	455.2
37.5°	5789.7	4842.7	2741.0	791.5	437.8	417.2	407.7	402.9	401.3	404.5	406.1
40°	5880.1	4895.0	2525.2	575.8	401.3	387.0	372.8	358.5	358.5	369.6	371.2
42.5°	5816.6	4836.4	2276.2	475.9	375.9	355.3	333.1	320.4	326.8	337.9	341.0
45°	5681.8	4692.0	2001.8	420.3	350.6	323.6	298.2	290.3	296.6	310.9	314.1
47.5°	5659.6	4596.8	1673.5	383.9	323.6	296.6	269.7	261.7	269.7	280.8	283.9
50°	5880.1	4679.3	1308.6	352.1	298.2	268.1	245.9	237.9	242.7	249.0	252.2
52.5°	6283.0	4985.5	1056.4	322.0	268.1	239.5	225.2	215.7	215.7	222.1	223.7
55°	6877.8	5520.0	912.1	287.1	233.2	217.3	204.6	195.1	195.1	198.3	199.9
57.5°	7563.1	6167.2	945.4	241.1	204.6	196.7	185.6	177.7	180.8	180.8	180.8
60°	7467.9	6119.6	1012.0	203.0	180.8	177.7	168.1	165.0	172.9	166.6	163.4
62.5°	5501.0	4227.3	529.8	166.6	155.4	152.3	145.9	152.3	163.4	145.9	139.6
65°	2671.2	2046.2	212.6	136.4	131.7	128.5	125.3	134.8	141.2	114.2	107.9
67.5°	628.1	510.8	138.0	115.8	109.4	103.1	106.3	107.9	103.1	77.7	74.6
70°	163.4	160.2	107.9	96.8	87.2	80.9	80.9	79.3	68.2	49.2	46.0
72.5°	88.8	87.2	77.7	73.0	60.3	53.9	55.5	49.2	38.1	28.6	27.0
75°	44.4	47.6	44.4	41.2	33.3	30.1	30.1	27.0	19.0	11.1	11.1
77.5°	9.5	11.1	11.1	9.5	7.9	6.3	6.3	7.9	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	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)