

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: P641026

Luminaire Tested: GWS-SA5F-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 18985 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

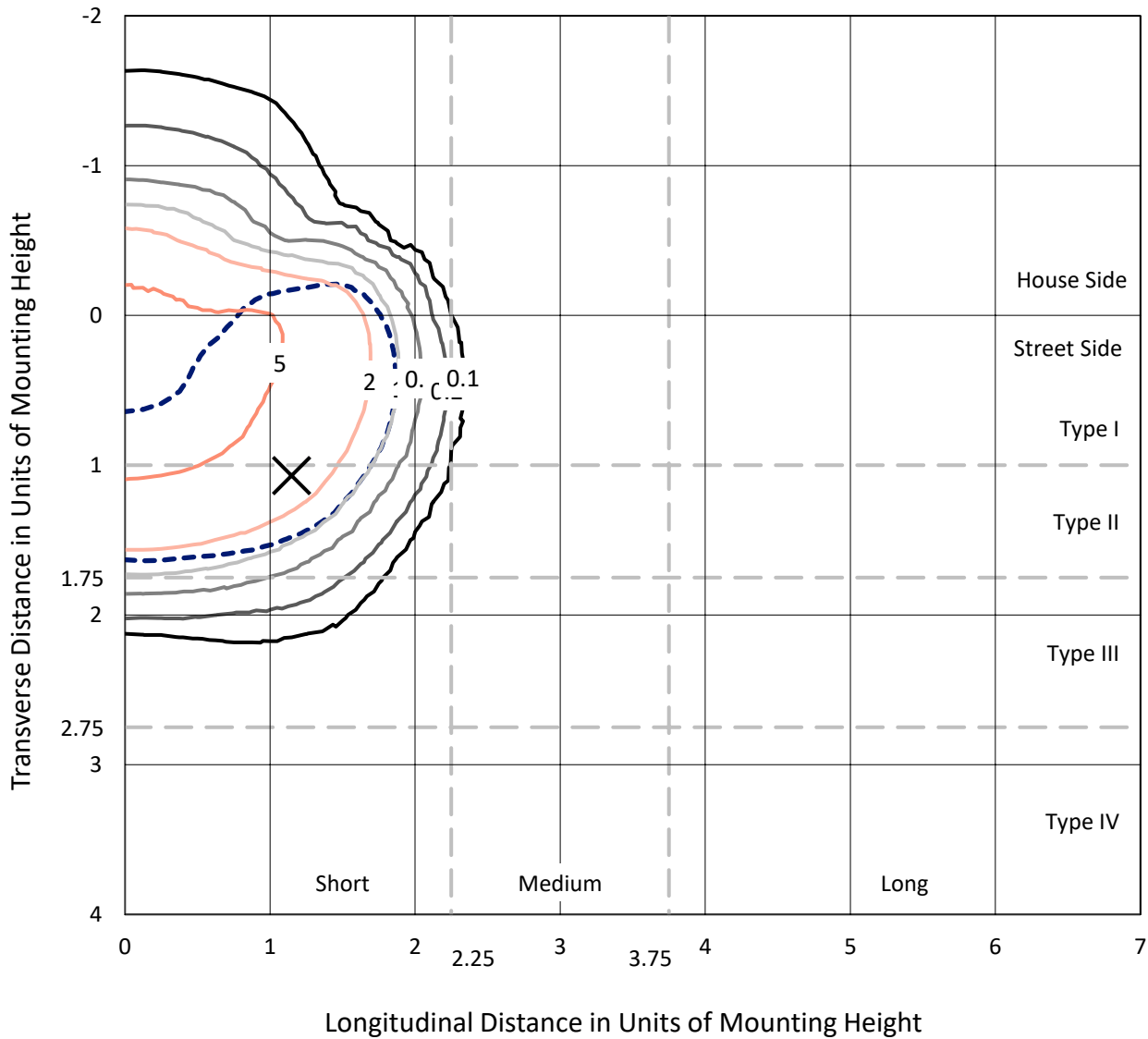
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

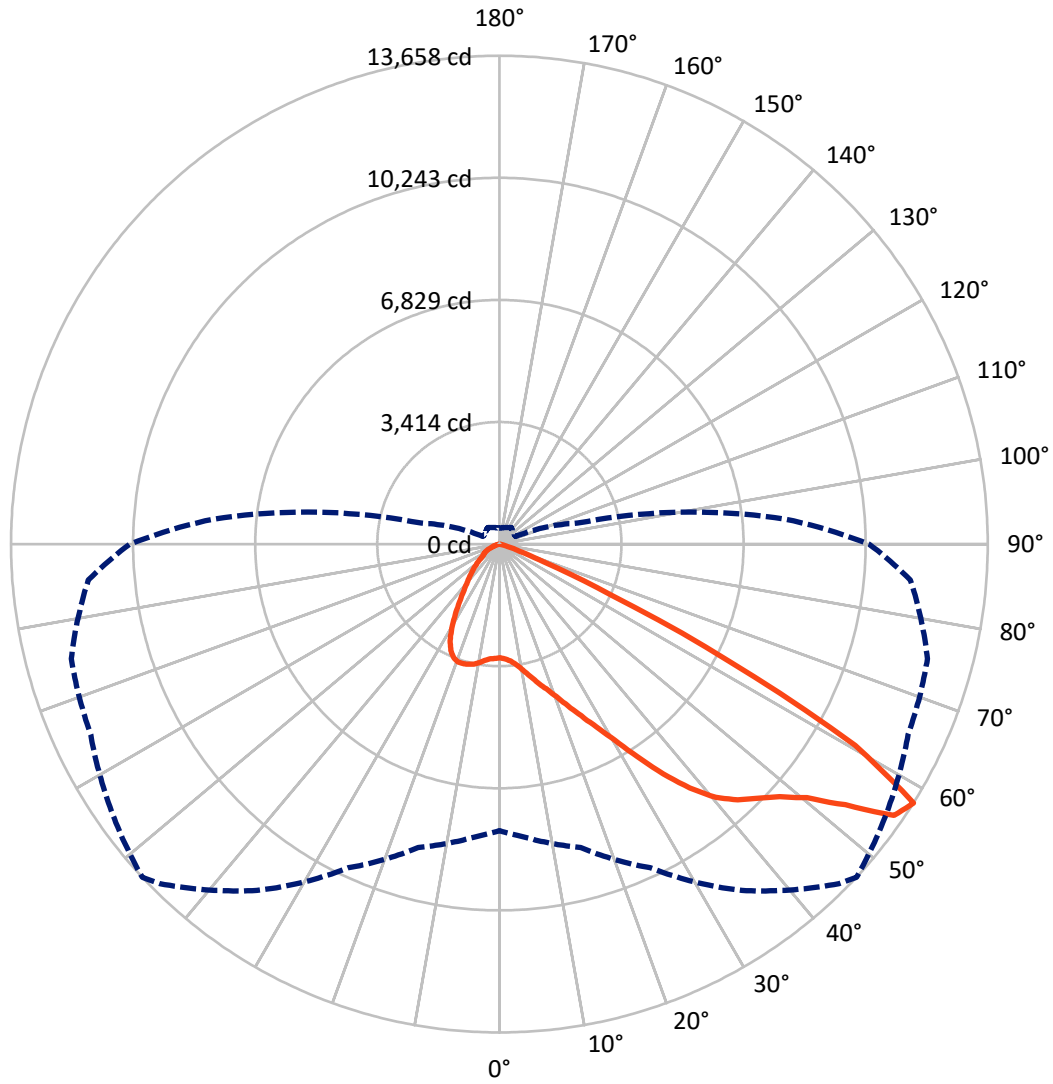
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4118.8	0.0	4118.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14866.2	0.0	14866.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	18985.0	0.0	18985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.2	1.7
10°-20°	1066.9	5.6
20°-30°	1980.9	10.4
30°-40°	3171.1	16.7
40°-50°	4635.5	24.4
50°-60°	5721.0	30.1
60°-70°	1911.6	10.1
70°-80°	178.1	0.9
80°-90°	3.7	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°	18985.0	100.0
0°-180°	18985.0	100.0

Coefficient of Utilization



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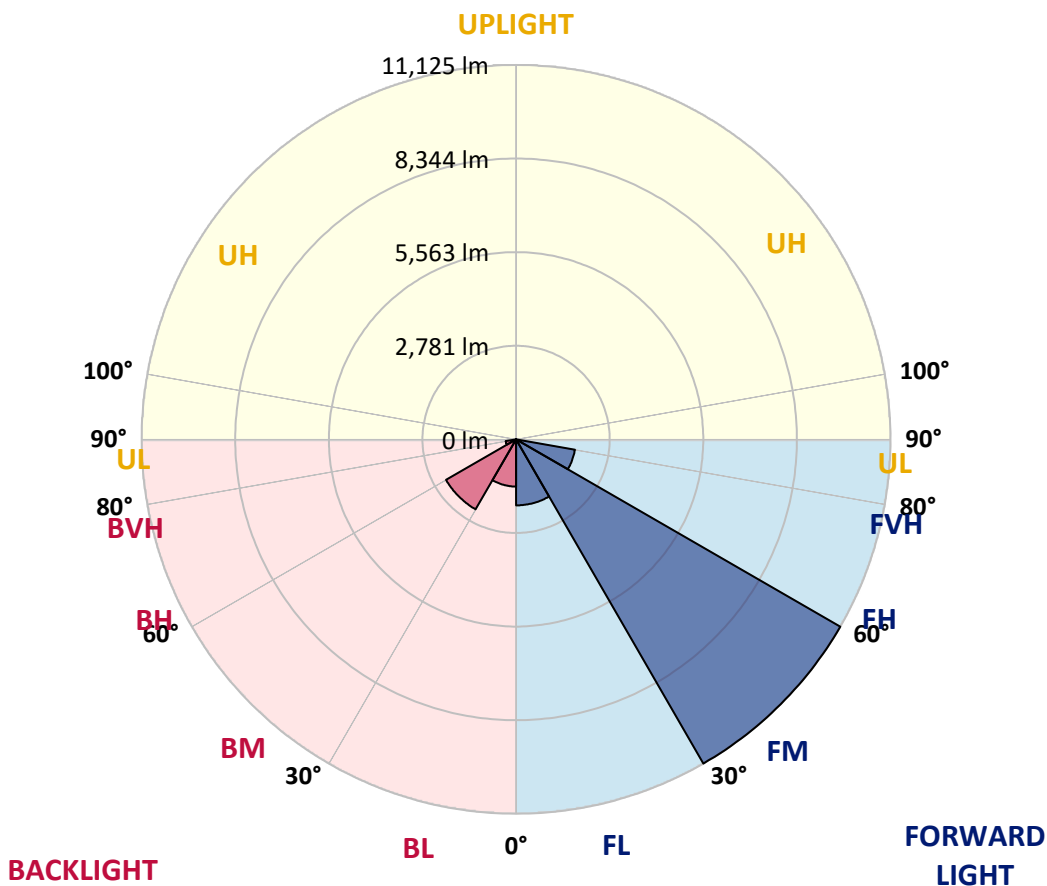
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1962.0	10.3			
FM (30°-60°)	11125.1	58.6			
FH (60°-80°)	1776.6	9.4			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1402.0	7.4	B3/2500		
BM (30°-60°)	2402.5	12.7	B2/2500		
BH (60°-80°)	313.1	1.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	47°	55°	65°	75°	85°
0°	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1
2.5°	3211.2	3209.0	3206.8	3220.0	3215.6	3213.4	3217.8	3217.8	3217.8	3204.6	3178.1
5°	3288.3	3288.3	3286.1	3299.3	3288.3	3281.7	3283.9	3283.9	3275.1	3250.8	3217.8
7.5°	3409.5	3405.1	3400.7	3413.9	3402.9	3400.7	3405.1	3391.9	3376.5	3336.8	3290.5
10°	3583.6	3583.6	3577.0	3590.2	3581.4	3577.0	3577.0	3568.2	3539.6	3477.8	3409.5
12.5°	3823.9	3812.8	3797.4	3786.4	3782.0	3779.8	3782.0	3768.8	3737.9	3658.6	3563.8
15°	4086.1	4077.3	4053.1	4035.4	4011.2	4006.8	4020.0	4009.0	3978.1	3870.2	3735.7
17.5°	4416.7	4427.8	4366.0	4328.6	4258.0	4253.6	4258.0	4275.7	4253.6	4114.8	3918.6
20°	4698.8	4707.7	4661.4	4634.9	4571.0	4542.4	4551.2	4579.8	4555.6	4392.5	4119.2
22.5°	5000.8	5011.8	4963.3	4908.2	4879.6	4879.6	4912.6	4952.3	4919.2	4705.5	4348.4
25°	5362.2	5371.0	5331.4	5258.6	5208.0	5271.9	5320.4	5426.1	5371.0	5080.1	4619.5
27.5°	5776.6	5778.8	5721.5	5646.5	5620.1	5739.1	5787.6	5950.7	5928.7	5501.1	4906.0
30°	6219.6	6221.8	6208.6	6157.9	6133.6	6290.1	6356.2	6592.0	6576.6	6023.4	5296.1
32.5°	6680.2	6680.2	6704.4	6700.0	6728.7	6984.3	7090.1	7359.0	7343.6	6662.6	5781.0
35°	7143.0	7145.2	7187.1	7292.9	7411.9	7751.3	7890.2	8216.4	8181.1	7427.3	6400.3
37.5°	7669.8	7647.7	7705.0	7863.7	8128.2	8520.5	8652.7	8963.5	8923.8	8209.7	7209.2
40°	8304.5	8264.8	8264.8	8450.0	8749.7	9201.5	9313.9	9468.2	9333.8	8842.3	8002.6
42.5°	9005.4	8967.9	8919.4	9082.5	9333.8	9686.4	9779.0	9737.1	9626.9	9439.6	8906.2
45°	9715.1	9657.7	9690.8	9790.0	9935.4	10102.9	10138.2	9944.3	9893.6	9946.5	9653.3
47.5°	10255.0	10215.4	10296.9	10435.7	10554.8	10579.0	10554.8	10285.9	10281.5	10468.8	10171.3
50°	10435.7	10440.2	10665.0	10969.1	11160.9	11180.7	11147.6	10839.1	10797.2	10852.3	10451.2
52.5°	10453.4	10471.0	10799.4	11379.0	11901.4	12139.4	12113.0	11780.2	11370.2	11310.7	10874.3
55°	10028.0	10131.6	10590.0	11436.3	12547.1	13307.5	13395.7	12758.7	12150.4	12099.7	11784.6
57.5°	8015.8	8227.4	8780.6	9986.1	11826.4	13428.7	13657.9	13199.5	12611.1	12395.1	11539.9
60°	4791.4	5053.7	5584.8	7063.7	9001.0	11037.4	11431.9	11495.9	11224.8	10601.0	8853.3
62.5°	2056.3	2034.3	2688.8	3821.7	5353.4	7015.2	7193.7	7471.4	7707.2	7054.9	5373.3
65°	705.3	767.0	1066.7	1723.5	2680.0	3257.5	3416.1	3665.2	4000.2	3301.5	1968.1
67.5°	436.4	462.8	614.9	1018.2	1445.8	1423.8	1353.2	1313.6	1278.3	875.0	540.0
70°	317.4	339.4	432.0	700.9	971.9	683.2	592.9	480.5	533.4	491.5	383.5
72.5°	213.8	231.4	297.5	425.4	498.1	332.8	308.6	350.4	423.2	403.3	313.0
75°	127.8	138.8	169.7	207.2	202.8	171.9	174.1	246.8	324.0	301.9	222.6
77.5°	88.2	92.6	112.4	134.4	99.2	52.9	48.5	68.3	110.2	110.2	74.9
80°	22.0	28.7	28.7	17.6	15.4	13.2	13.2	19.8	30.9	22.0	11.0
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4	4.4
85°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
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°	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1	3178.1
2.5°	3193.5	3167.1	3184.7	3180.3	3193.5	3197.9	3178.1	3173.7	3175.9	3149.5	3140.6
5°	3224.4	3193.5	3202.4	3193.5	3209.0	3222.2	3215.6	3224.4	3235.4	3215.6	3206.8
7.5°	3290.5	3259.7	3257.5	3244.2	3266.3	3275.1	3272.9	3297.1	3319.2	3305.9	3292.7
10°	3405.1	3363.2	3358.8	3347.8	3354.4	3361.0	3336.8	3341.2	3361.0	3345.6	3339.0
12.5°	3546.2	3495.5	3484.5	3458.0	3458.0	3425.0	3372.1	3361.0	3376.5	3365.4	3354.4
15°	3698.2	3629.9	3612.3	3566.0	3521.9	3460.2	3405.1	3391.9	3402.9	3389.7	3380.9
17.5°	3867.9	3790.8	3733.5	3652.0	3555.0	3482.3	3420.5	3391.9	3374.3	3347.8	3345.6
20°	4035.4	3934.1	3837.1	3707.1	3579.2	3469.0	3367.6	3292.7	3228.8	3189.1	3173.7
22.5°	4229.4	4079.5	3923.0	3740.1	3557.2	3389.7	3211.2	3083.3	2973.1	2935.7	2918.0
25°	4436.6	4242.6	4009.0	3771.0	3482.3	3213.4	2970.9	2781.4	2635.9	2587.4	2567.6
27.5°	4665.8	4399.1	4097.2	3764.4	3328.0	2962.1	2640.3	2404.5	2261.3	2217.2	2232.6
30°	4956.7	4601.9	4207.4	3696.0	3096.6	2609.5	2232.6	2034.3	1926.3	1884.4	1886.6
32.5°	5344.6	4892.8	4368.2	3550.6	2799.0	2208.4	1877.8	1732.3	1659.6	1604.5	1600.1
35°	5900.0	5335.8	4518.1	3317.0	2437.6	1851.3	1611.1	1496.5	1395.1	1331.2	1342.2
37.5°	6565.6	5893.4	4599.7	3001.8	2032.1	1573.6	1410.5	1293.7	1179.1	1084.3	1095.4
40°	7354.6	6622.9	4593.1	2587.4	1661.8	1384.1	1243.0	1106.4	963.1	877.2	886.0
42.5°	8234.0	7312.7	4449.8	2148.9	1377.5	1229.8	1082.1	910.2	771.4	718.5	720.7
45°	8996.6	7872.5	4198.5	1694.8	1159.3	1079.9	914.6	738.3	676.6	639.1	636.9
47.5°	9560.8	8282.5	3839.3	1333.4	983.0	943.3	751.6	661.2	612.7	581.8	577.4
50°	9875.9	8425.7	3442.6	1044.7	830.9	800.0	672.2	599.5	566.4	546.6	542.2
52.5°	10299.1	8597.6	3158.3	824.3	696.5	654.6	619.3	557.6	535.6	520.1	513.5
55°	10969.1	8930.4	2911.4	654.6	579.6	570.8	584.0	533.4	520.1	495.9	487.1
57.5°	10338.8	8022.4	2261.3	506.9	489.3	522.3	564.2	509.1	476.1	454.0	445.2
60°	7275.3	5333.6	1137.2	407.7	436.4	489.3	531.2	460.6	427.6	432.0	427.6
62.5°	4011.2	2669.0	511.3	341.6	379.1	432.0	454.0	398.9	376.9	414.3	421.0
65°	1311.4	908.0	295.3	264.5	299.7	352.6	392.3	379.1	374.7	418.8	432.0
67.5°	403.3	299.7	200.6	189.5	207.2	260.1	330.6	409.9	440.8	454.0	460.6
70°	301.9	235.8	171.9	160.9	169.7	198.4	279.9	341.6	321.8	324.0	319.6
72.5°	242.4	187.3	147.7	141.1	141.1	136.6	147.7	185.1	209.4	220.4	220.4
75°	169.7	132.2	112.4	103.6	81.5	66.1	59.5	59.5	52.9	50.7	48.5
77.5°	57.3	48.5	44.1	35.3	24.2	19.8	17.6	15.4	11.0	6.6	4.4
80°	8.8	6.6	4.4	4.4	4.4	2.2	2.2	2.2	0.0	0.0	0.0
82.5°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
85°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	2.2	2.2	2.2	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)