

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: P643446

Luminaire Tested: GWS-SA6E-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643446
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-SAGE-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21959 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

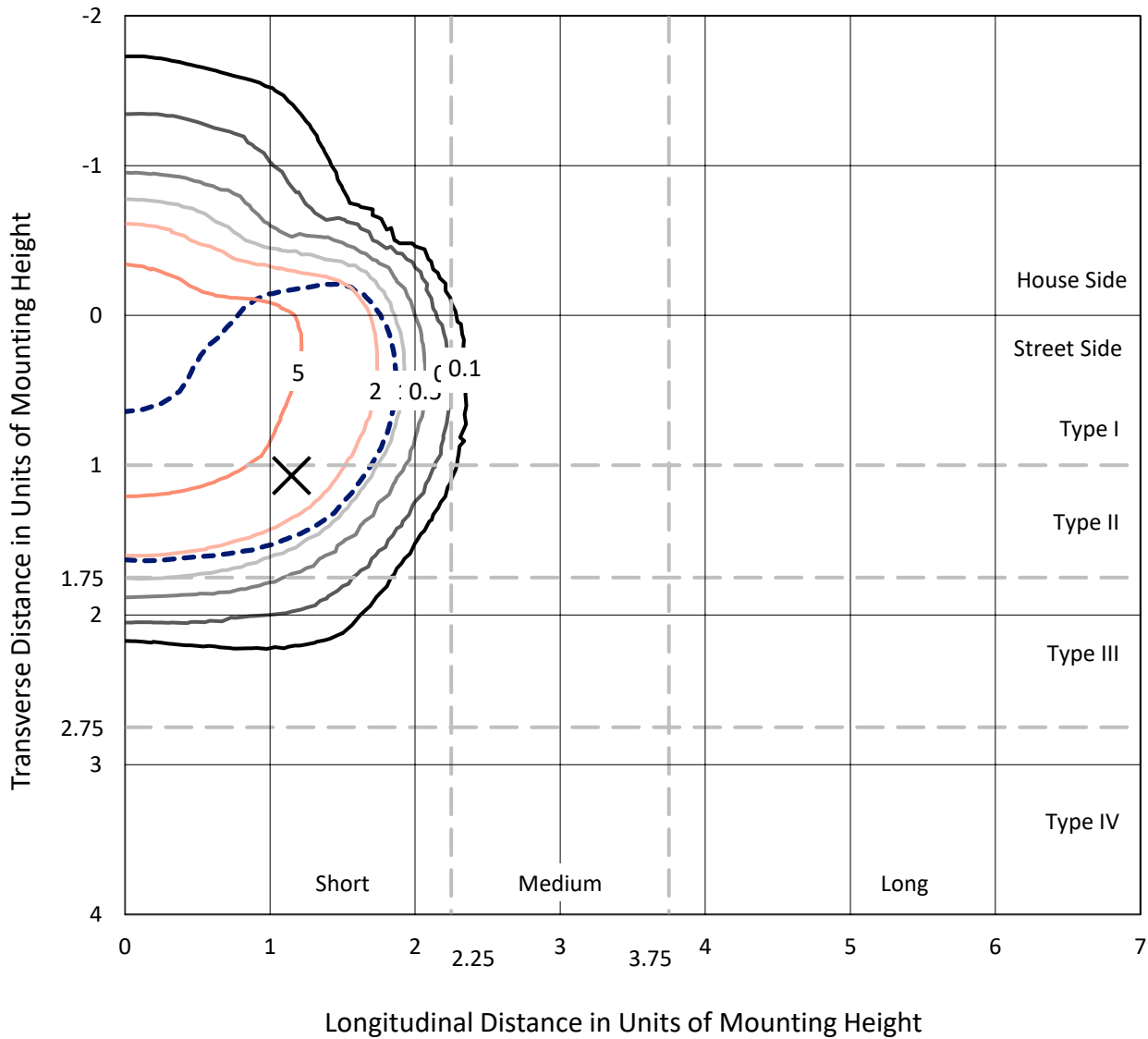
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

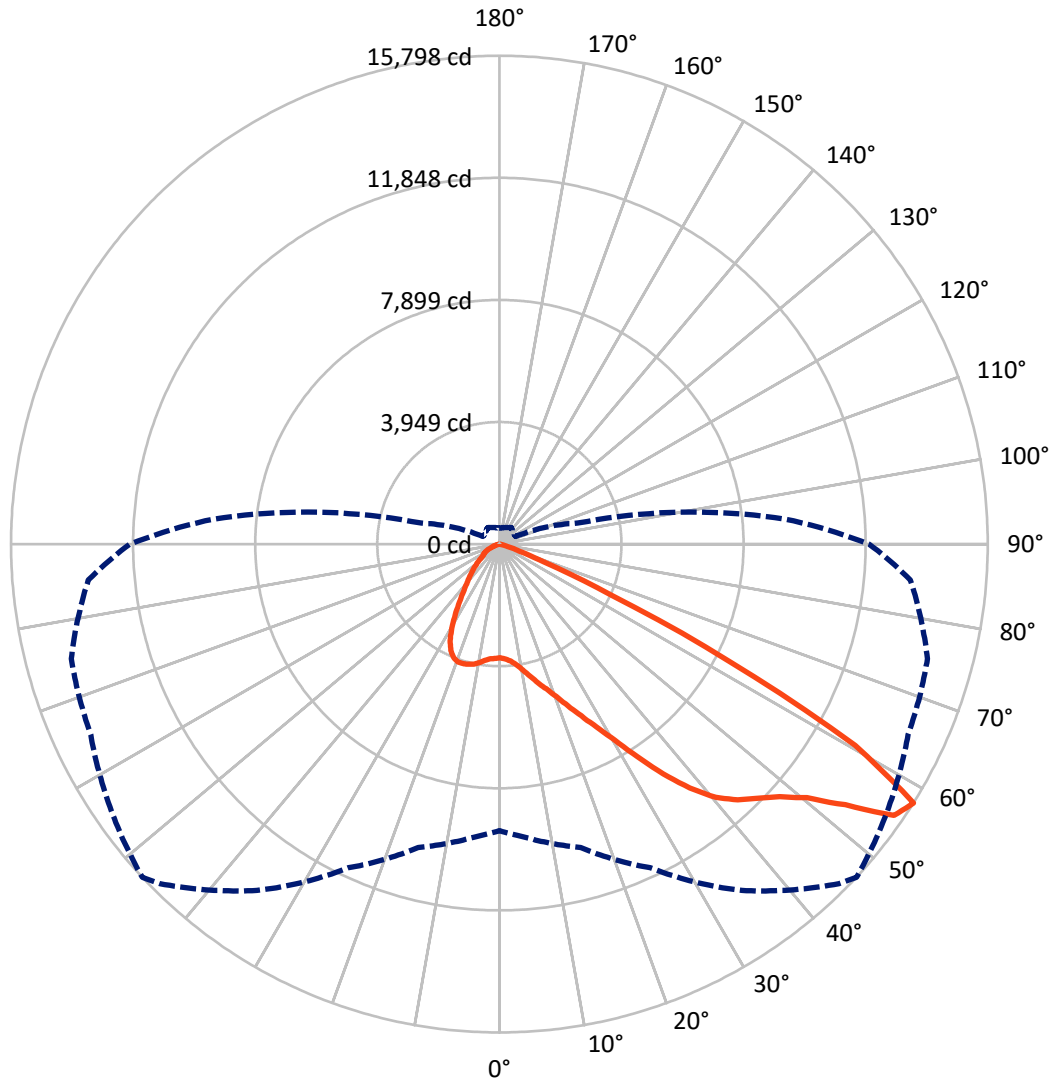
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	4764.0	0.0	4764.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17195.0	0.0	17195.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	21959.0	0.0	21959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.7	1.7
10°-20°	1234.0	5.6
20°-30°	2291.3	10.4
30°-40°	3667.9	16.7
40°-50°	5361.6	24.4
50°-60°	6617.2	30.1
60°-70°	2211.1	10.1
70°-80°	206.0	0.9
80°-90°	4.3	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°	21959.0	100.0
0°-180°	21959.0	100.0

Coefficient of Utilization



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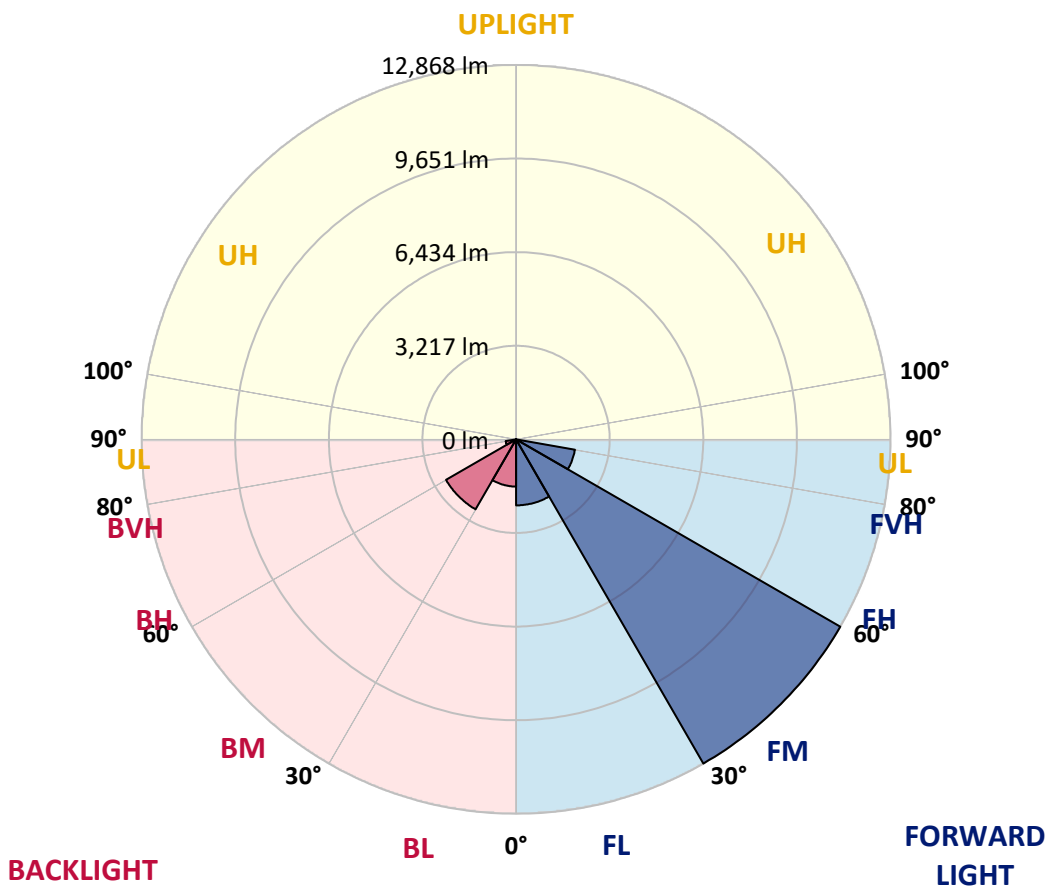
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2269.4	10.3			
FM (30°-60°)	12867.8	58.6			
FH (60°-80°)	2054.9	9.4			G2/5000
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1621.6	7.4	B3/2500		
BM (30°-60°)	2778.8	12.7	B3/5000		
BH (60°-80°)	362.2	1.6	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0
2.5°	3714.2	3711.6	3709.1	3724.4	3719.3	3716.7	3721.8	3721.8	3721.8	3706.6	3676.0
5°	3803.4	3803.4	3800.9	3816.2	3803.4	3795.8	3798.3	3798.3	3788.1	3760.1	3721.8
7.5°	3943.6	3938.5	3933.4	3948.7	3936.0	3933.4	3938.5	3923.2	3905.4	3859.5	3806.0
10°	4145.0	4145.0	4137.4	4152.7	4142.5	4137.4	4137.4	4127.2	4094.0	4022.7	3943.6
12.5°	4422.9	4410.1	4392.3	4379.5	4374.4	4371.9	4374.4	4359.1	4323.5	4231.7	4122.1
15°	4726.2	4716.0	4688.0	4667.6	4639.6	4634.5	4649.8	4637.0	4601.3	4476.4	4320.9
17.5°	5108.6	5121.4	5050.0	5006.6	4925.1	4920.0	4925.1	4945.5	4920.0	4759.4	4532.5
20°	5434.9	5445.1	5391.6	5361.0	5287.1	5253.9	5264.1	5297.3	5269.2	5080.6	4764.5
22.5°	5784.2	5796.9	5740.8	5677.1	5643.9	5643.9	5682.2	5728.1	5689.8	5442.6	5029.6
25°	6202.2	6212.4	6166.5	6082.4	6023.8	6097.7	6153.8	6276.2	6212.4	5875.9	5343.1
27.5°	6681.5	6684.0	6617.7	6531.1	6500.5	6638.1	6694.2	6882.9	6857.4	6362.8	5674.5
30°	7193.9	7196.4	7181.1	7122.5	7094.5	7275.4	7351.9	7624.7	7606.8	6967.0	6125.8
32.5°	7726.7	7726.7	7754.7	7749.6	7782.7	8078.4	8200.8	8511.8	8494.0	7706.3	6686.6
35°	8262.0	8264.5	8313.0	8435.3	8573.0	8965.6	9126.2	9503.5	9462.7	8590.8	7402.9
37.5°	8871.2	8845.8	8912.0	9095.6	9401.5	9855.2	10008.2	10367.6	10321.7	9495.8	8338.5
40°	9605.4	9559.5	9559.5	9773.7	10120.4	10642.9	10773.0	10951.4	10795.9	10227.4	9256.2
42.5°	10416.1	10372.7	10316.7	10505.3	10795.9	11203.8	11310.8	11262.4	11134.9	10918.3	10301.4
45°	11236.9	11170.6	11208.9	11323.6	11491.8	11685.6	11726.4	11502.0	11443.4	11504.6	11165.5
47.5°	11861.5	11815.6	11909.9	12070.5	12208.2	12236.2	12208.2	11897.2	11892.1	12108.7	11764.6
50°	12070.5	12075.6	12335.6	12687.4	12909.2	12932.1	12893.9	12537.0	12488.6	12552.3	12088.4
52.5°	12090.9	12111.3	12491.1	13161.6	13765.7	14041.0	14010.5	13625.5	13151.4	13082.5	12577.8
55°	11598.9	11718.7	12249.0	13227.8	14512.7	15392.1	15494.1	14757.4	14053.8	13995.2	13630.6
57.5°	9271.5	9516.2	10156.1	11550.5	13679.1	15532.3	15797.5	15267.2	14586.6	14336.8	13347.7
60°	5542.0	5845.3	6459.7	8170.2	10411.0	12766.4	13222.8	13296.7	12983.1	12261.7	10240.2
62.5°	2378.4	2352.9	3110.0	4420.3	6192.0	8114.1	8320.6	8641.8	8914.6	8160.0	6215.0
65°	815.7	887.1	1233.8	1993.5	3099.8	3767.7	3951.3	4239.3	4626.8	3818.7	2276.4
67.5°	504.7	535.3	711.2	1177.7	1672.3	1646.8	1565.2	1519.3	1478.5	1012.0	624.6
70°	367.1	392.6	499.6	810.6	1124.2	790.3	685.7	555.7	616.9	568.5	443.6
72.5°	247.3	267.7	344.1	492.0	576.1	384.9	356.9	405.3	489.4	466.5	362.0
75°	147.9	160.6	196.3	239.6	234.5	198.8	201.4	285.5	374.7	349.2	257.5
77.5°	102.0	107.1	130.0	155.5	114.7	61.2	56.1	79.0	127.5	127.5	86.7
80°	25.5	33.1	33.1	20.4	17.8	15.3	15.3	22.9	35.7	25.5	12.7
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1	5.1
85°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	5.1
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1
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°	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0	3676.0
2.5°	3693.8	3663.2	3683.6	3678.5	3693.8	3698.9	3676.0	3670.9	3673.4	3642.8	3632.6
5°	3729.5	3693.8	3704.0	3693.8	3711.6	3726.9	3719.3	3729.5	3742.2	3719.3	3709.1
7.5°	3806.0	3770.3	3767.7	3752.4	3777.9	3788.1	3785.6	3813.6	3839.1	3823.8	3808.5
10°	3938.5	3890.1	3885.0	3872.2	3879.9	3887.5	3859.5	3864.6	3887.5	3869.7	3862.1
12.5°	4101.7	4043.0	4030.3	3999.7	3999.7	3961.5	3900.3	3887.5	3905.4	3892.6	3879.9
15°	4277.6	4198.5	4178.2	4124.6	4073.6	4002.3	3938.5	3923.2	3936.0	3920.7	3910.5
17.5°	4473.9	4384.6	4318.4	4224.0	4111.9	4027.8	3956.4	3923.2	3902.8	3872.2	3869.7
20°	4667.6	4550.3	4438.2	4287.8	4139.9	4012.5	3895.2	3808.5	3734.6	3688.7	3670.9
22.5°	4891.9	4718.6	4537.6	4326.0	4114.4	3920.7	3714.2	3566.3	3438.9	3395.5	3375.2
25°	5131.6	4907.2	4637.0	4361.7	4027.8	3716.7	3436.3	3217.1	3048.9	2992.8	2969.8
27.5°	5396.7	5088.2	4739.0	4354.0	3849.3	3426.1	3054.0	2781.2	2615.5	2564.5	2582.3
30°	5733.2	5322.7	4866.4	4275.0	3581.6	3018.3	2582.3	2352.9	2228.0	2179.6	2182.1
32.5°	6181.8	5659.2	5052.5	4106.8	3237.5	2554.3	2171.9	2003.7	1919.6	1855.8	1850.7
35°	6824.2	6171.6	5225.9	3836.6	2819.4	2141.3	1863.5	1730.9	1613.6	1539.7	1552.5
37.5°	7594.1	6816.6	5320.2	3472.0	2350.4	1820.1	1631.5	1496.4	1363.8	1254.2	1267.0
40°	8506.7	7660.4	5312.6	2992.8	1922.1	1600.9	1437.8	1279.7	1114.0	1014.6	1024.8
42.5°	9523.8	8458.3	5146.9	2485.5	1593.3	1422.5	1251.7	1052.8	892.2	831.0	833.6
45°	10405.9	9105.8	4856.2	1960.3	1340.9	1249.1	1057.9	854.0	782.6	739.3	736.7
47.5°	11058.5	9579.9	4440.7	1542.3	1136.9	1091.1	869.3	764.8	708.7	673.0	667.9
50°	11423.0	9745.6	3981.9	1208.3	961.1	925.4	777.5	693.4	655.1	632.2	627.1
52.5°	11912.5	9944.5	3653.0	953.4	805.6	757.1	716.3	645.0	619.5	601.6	594.0
55°	12687.4	10329.4	3367.5	757.1	670.4	660.2	675.5	616.9	601.6	573.6	563.4
57.5°	11958.3	9279.1	2615.5	586.3	565.9	604.2	652.6	588.9	550.6	525.1	514.9
60°	8414.9	6169.1	1315.4	471.6	504.7	565.9	614.4	532.8	494.5	499.6	494.5
62.5°	4639.6	3087.1	591.4	395.1	438.5	499.6	525.1	461.4	435.9	479.3	486.9
65°	1516.8	1050.3	341.6	305.9	346.7	407.9	453.8	438.5	433.4	484.3	499.6
67.5°	466.5	346.7	232.0	219.2	239.6	300.8	382.4	474.2	509.8	525.1	532.8
70°	349.2	272.8	198.8	186.1	196.3	229.4	323.7	395.1	372.2	374.7	369.6
72.5°	280.4	216.7	170.8	163.1	163.1	158.1	170.8	214.1	242.2	254.9	254.9
75°	196.3	153.0	130.0	119.8	94.3	76.5	68.8	68.8	61.2	58.6	56.1
77.5°	66.3	56.1	51.0	40.8	28.0	22.9	20.4	17.8	12.7	7.6	5.1
80°	10.2	7.6	5.1	5.1	5.1	2.5	2.5	2.5	0.0	0.0	0.0
82.5°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	0.0	0.0	0.0	0.0
85°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	2.5	2.5	2.5	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)