

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: P636897

Luminaire Tested: GWS-SA4B-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9789.1 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

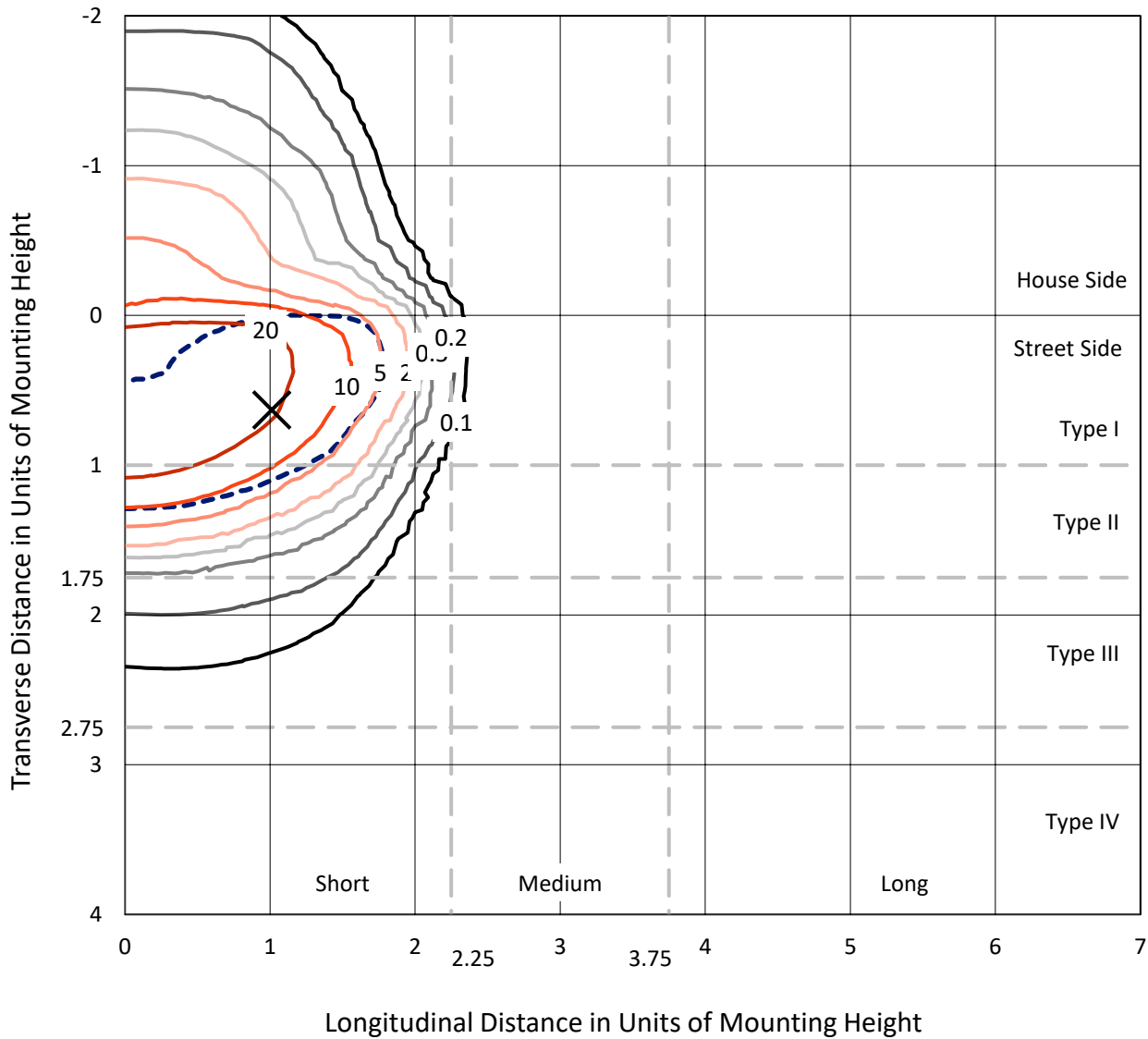
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

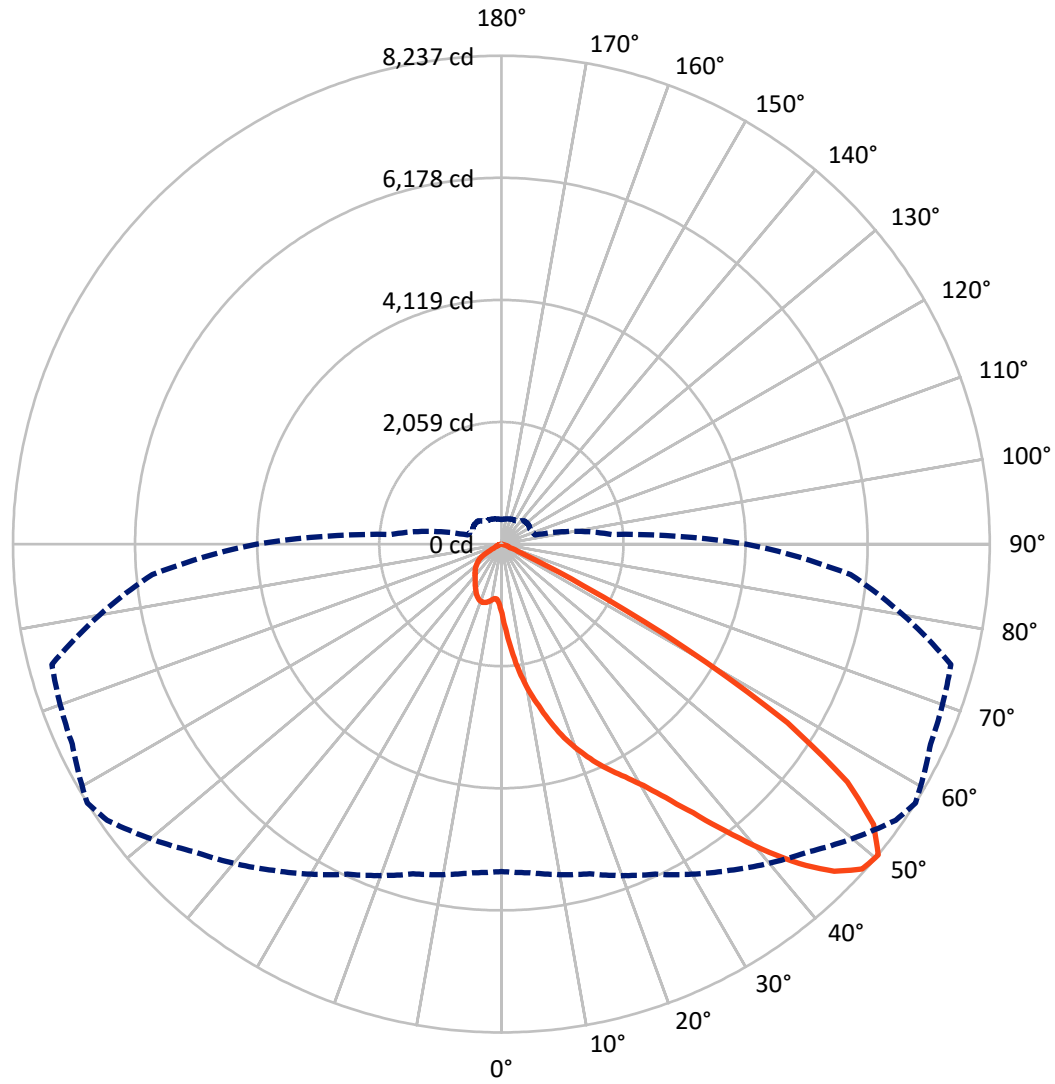
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1371.1	0.0	1371.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8418.0	0.0	8418.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	9789.1	0.0	9789.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	1.5
10°-20°	573.4	5.9
20°-30°	1160.4	11.9
30°-40°	2052.9	21.0
40°-50°	2992.6	30.6
50°-60°	2398.7	24.5
60°-70°	432.1	4.4
70°-80°	34.0	0.3
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°	9789.1	100.0
0°-180°	9789.1	100.0

Coefficient of Utilization



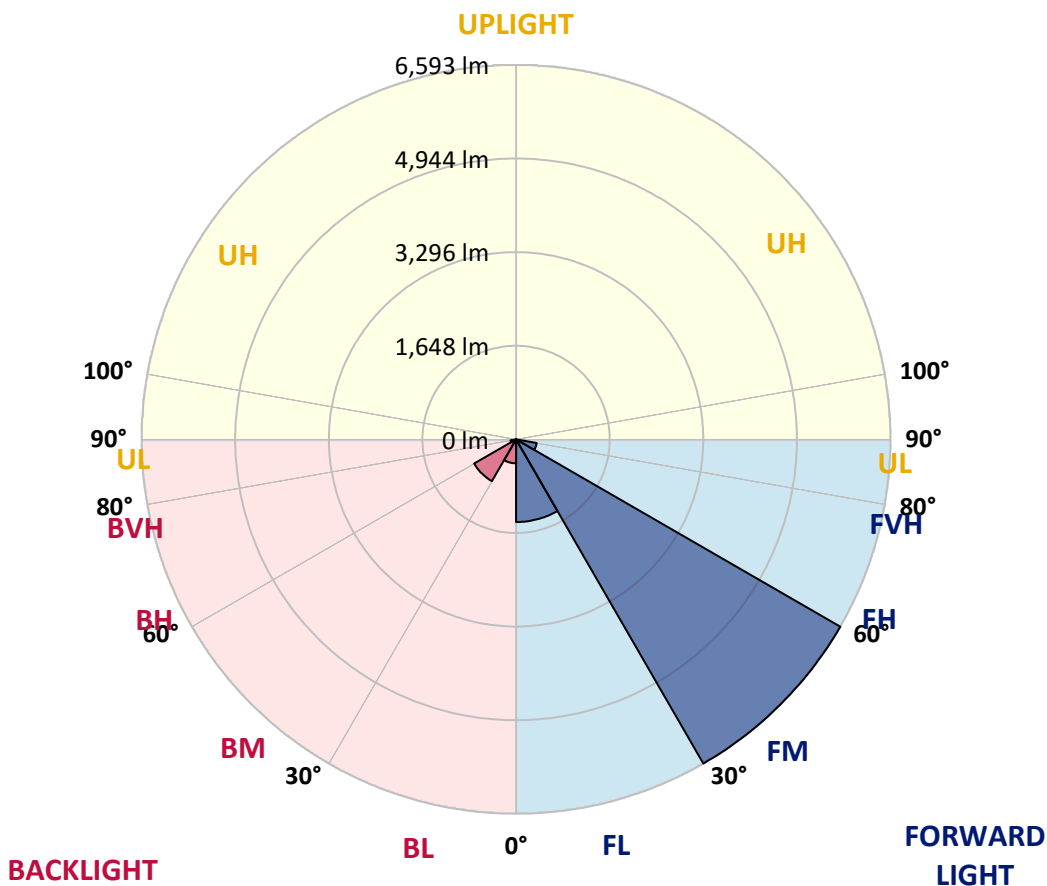
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.6	14.9			
FM (30°-60°)	6592.7	67.3			
FH (60°-80°)	368.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	422.1	4.3	B1/500		
BM (30°-60°)	851.5	8.7	B1/1000		
BH (60°-80°)	97.4	1.0	B0/110		G0/110
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: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1730.4	1703.2	1687.5	1674.9	1619.4	1531.5	1473.9	1443.6	1393.3	1308.5	1235.2
5°	2258.0	2238.1	2201.4	2176.3	2105.1	1980.6	1851.8	1800.5	1686.4	1494.9	1323.2
7.5°	2607.6	2593.0	2579.3	2545.9	2478.9	2365.8	2223.4	2170.0	1994.2	1722.0	1440.4
10°	2876.6	2865.1	2849.4	2848.4	2796.0	2694.5	2555.3	2499.8	2309.3	1969.1	1578.6
12.5°	3113.2	3103.8	3100.7	3130.0	3096.5	3021.1	2870.4	2801.3	2599.2	2221.3	1731.4
15°	3275.5	3273.4	3287.0	3344.6	3363.4	3328.9	3202.2	3127.9	2895.5	2474.7	1900.0
17.5°	3349.8	3356.1	3382.3	3481.7	3565.4	3594.8	3497.4	3434.6	3189.6	2731.1	2080.0
20°	3476.5	3474.4	3490.1	3584.3	3686.9	3791.6	3762.2	3708.9	3486.9	3002.3	2280.0
22.5°	3833.4	3803.1	3769.6	3784.2	3820.9	3943.3	3997.8	3970.6	3793.7	3280.7	2486.2
25°	4382.0	4350.6	4242.7	4138.1	4069.0	4124.4	4198.8	4212.4	4098.3	3566.5	2701.8
27.5°	4964.0	4935.7	4814.3	4657.3	4459.4	4363.1	4418.6	4445.8	4397.7	3906.7	2931.1
30°	5509.4	5471.7	5338.8	5144.0	4914.8	4767.2	4704.4	4723.2	4751.5	4309.7	3200.1
32.5°	5982.5	5954.3	5795.2	5590.0	5369.1	5215.2	5068.7	5100.1	5169.2	4802.8	3544.5
35°	6383.5	6368.8	6200.3	5996.2	5762.7	5684.2	5558.6	5564.9	5634.0	5398.4	3964.3
37.5°	6732.1	6706.9	6554.1	6364.6	6179.3	6166.8	6132.2	6135.4	6171.0	6092.5	4446.9
40°	6951.9	6928.9	6820.0	6702.7	6570.9	6572.9	6752.0	6765.6	6724.7	6773.9	4956.7
42.5°	7034.6	7017.8	6959.2	6960.3	6946.7	7008.4	7344.4	7369.6	7223.0	7308.9	5392.1
45°	6891.2	6883.8	6888.0	7038.8	7202.1	7392.6	7829.1	7873.1	7665.8	7663.7	5732.4
47.5°	6428.5	6413.8	6536.3	6792.8	7170.7	7541.2	8122.2	8190.3	7975.7	7866.8	5945.9
50°	5521.9	5563.8	5757.5	6142.7	6717.4	7337.1	8119.1	8237.4	7987.2	7849.0	5910.3
52.5°	3999.9	3991.5	4415.5	4945.1	5644.4	6683.9	7687.8	7860.5	7707.7	7674.2	5830.8
55°	2176.3	2252.7	2538.5	3239.9	4112.9	5447.6	6702.7	7079.6	7256.5	7610.3	5974.2
57.5°	799.8	833.3	1012.3	1508.5	2177.4	3387.5	5120.0	5688.4	6234.8	7432.4	5950.1
60°	322.4	328.7	399.9	554.8	914.9	1724.1	3071.4	3575.9	4090.9	5689.4	4566.2
62.5°	234.5	242.9	271.1	324.5	462.7	753.7	1324.2	1539.9	1683.3	2818.0	2249.6
65°	189.5	195.8	218.8	242.9	305.7	405.1	427.1	411.4	409.3	728.6	516.1
67.5°	157.0	163.3	180.1	196.8	219.8	202.0	146.6	153.9	125.6	124.6	101.5
70°	115.1	122.5	139.2	157.0	131.9	54.4	84.8	125.6	95.3	79.6	77.5
72.5°	86.9	92.1	107.8	102.6	38.7	20.9	56.5	91.1	73.3	58.6	57.6
75°	64.9	68.0	54.4	16.7	4.2	5.2	20.9	37.7	40.8	33.5	33.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.2	5.2	6.3
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°	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1193.4	1149.4	1086.6	1034.3	994.5	955.7	926.4	897.1	896.1	881.4	878.3
5°	1243.6	1164.1	1048.9	966.2	916.0	885.6	864.7	854.2	849.0	843.7	841.6
7.5°	1315.8	1201.7	1042.6	954.7	912.8	892.9	878.3	872.0	868.9	864.7	863.6
10°	1404.8	1256.2	1065.7	976.7	940.0	921.2	905.5	896.1	890.8	883.5	881.4
12.5°	1511.6	1323.2	1102.3	1013.3	974.6	949.5	928.5	914.9	907.6	898.2	896.1
15°	1626.7	1395.4	1143.1	1046.8	1000.8	968.3	942.1	921.2	907.6	896.1	892.9
17.5°	1746.1	1468.7	1179.8	1069.8	1013.3	974.6	936.9	908.6	891.9	877.2	873.0
20°	1880.1	1544.1	1203.8	1074.0	1009.1	957.8	913.9	878.3	861.5	841.6	837.5
22.5°	2020.4	1614.2	1214.3	1064.6	986.1	926.4	879.3	842.7	818.6	797.7	791.4
25°	2156.4	1677.0	1209.1	1038.4	951.6	882.5	834.3	796.6	770.5	749.5	744.3
27.5°	2300.9	1729.3	1190.2	999.7	904.4	834.3	788.3	755.8	731.7	708.7	703.5
30°	2463.2	1777.5	1159.9	952.6	849.0	785.1	749.5	727.5	701.4	677.3	670.0
32.5°	2658.9	1820.4	1115.9	896.1	799.8	742.2	722.3	705.6	675.2	650.1	644.8
35°	2882.9	1856.0	1060.4	837.5	751.6	715.0	710.8	688.8	649.0	619.7	613.4
37.5°	3142.5	1890.5	994.5	779.9	716.0	702.4	703.5	665.8	617.6	582.0	577.8
40°	3422.0	1925.1	921.2	729.6	683.6	695.1	685.7	632.3	553.8	519.2	515.0
42.5°	3713.0	1962.8	846.9	682.5	656.4	666.8	653.2	565.3	508.8	491.0	488.9
45°	3975.8	2007.8	766.3	635.4	629.1	626.0	603.0	511.9	487.8	475.3	474.2
47.5°	4165.3	2000.5	680.4	590.4	599.8	589.4	519.2	486.8	466.9	450.1	445.9
50°	4130.7	1872.8	591.4	540.2	562.1	552.7	466.9	457.5	439.7	421.9	415.6
52.5°	4042.8	1699.0	514.0	486.8	521.3	499.3	431.3	421.9	406.2	383.1	375.8
55°	4089.9	1535.7	453.3	443.8	479.4	413.5	391.5	376.9	360.1	335.0	331.8
57.5°	3938.1	1253.0	364.3	370.6	424.0	352.8	343.4	320.3	292.1	275.3	273.2
60°	2725.9	673.1	228.2	235.5	306.7	296.2	307.8	286.8	252.3	236.6	233.4
62.5°	1252.0	270.1	124.6	119.3	161.2	201.0	263.8	261.7	218.8	193.7	191.6
65°	303.6	123.5	89.0	83.7	91.1	120.4	171.7	206.2	176.9	147.6	144.5
67.5°	98.4	100.5	81.7	76.4	80.6	90.0	102.6	114.1	113.1	103.6	101.5
70°	78.5	91.1	75.4	69.1	69.1	72.2	69.1	55.5	48.2	52.3	54.4
72.5°	58.6	69.1	59.7	53.4	51.3	50.2	42.9	31.4	22.0	19.9	18.8
75°	34.5	38.7	36.6	31.4	29.3	26.2	20.9	13.6	7.3	5.2	3.1
77.5°	6.3	7.3	8.4	6.3	5.2	4.2	3.1	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	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

(END OF REPORT)