

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527149

Luminaire Tested: **GALN-SA2A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4471 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

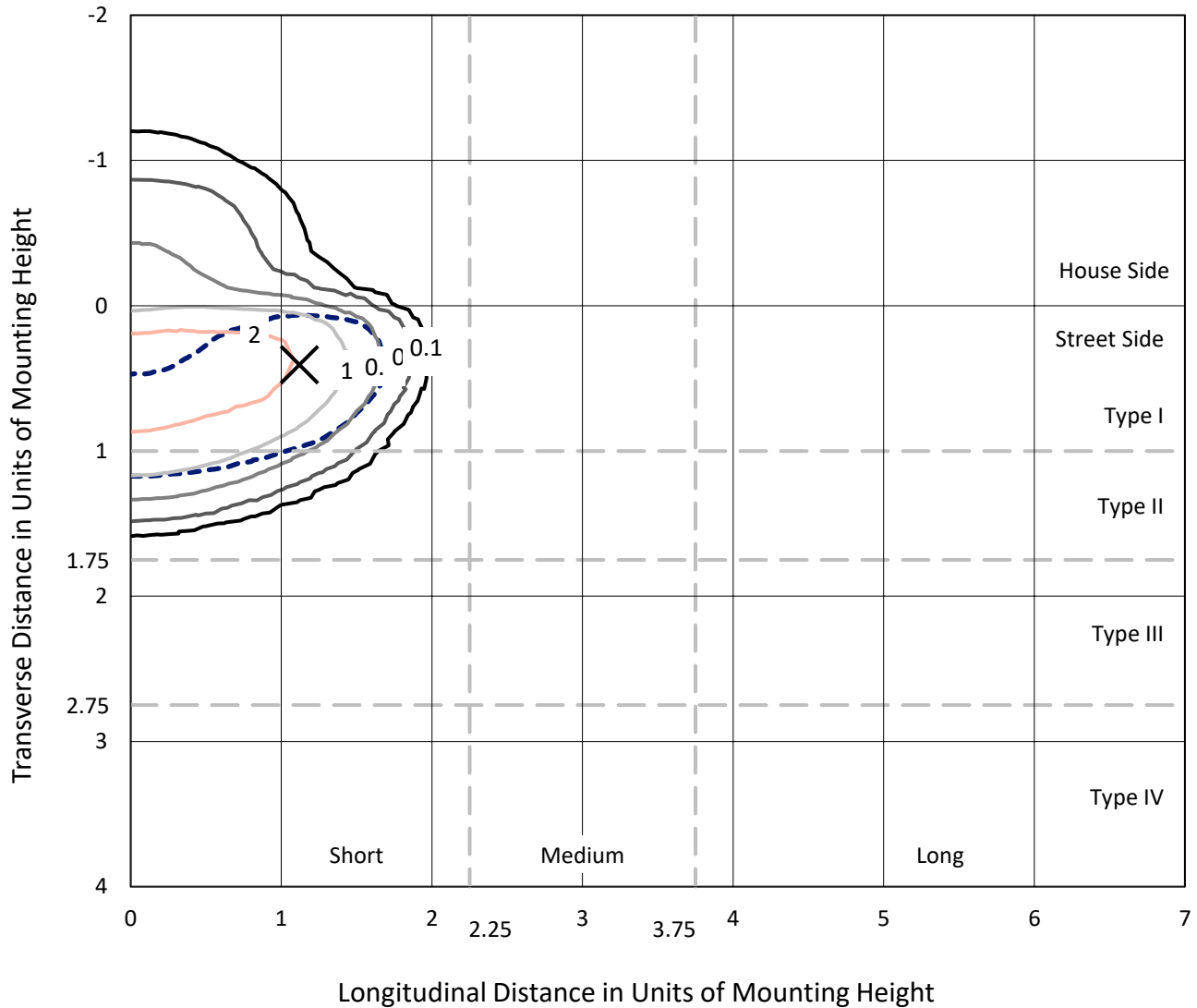
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527149
 CATALOG NUMBER: GALN-SA2A-827-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

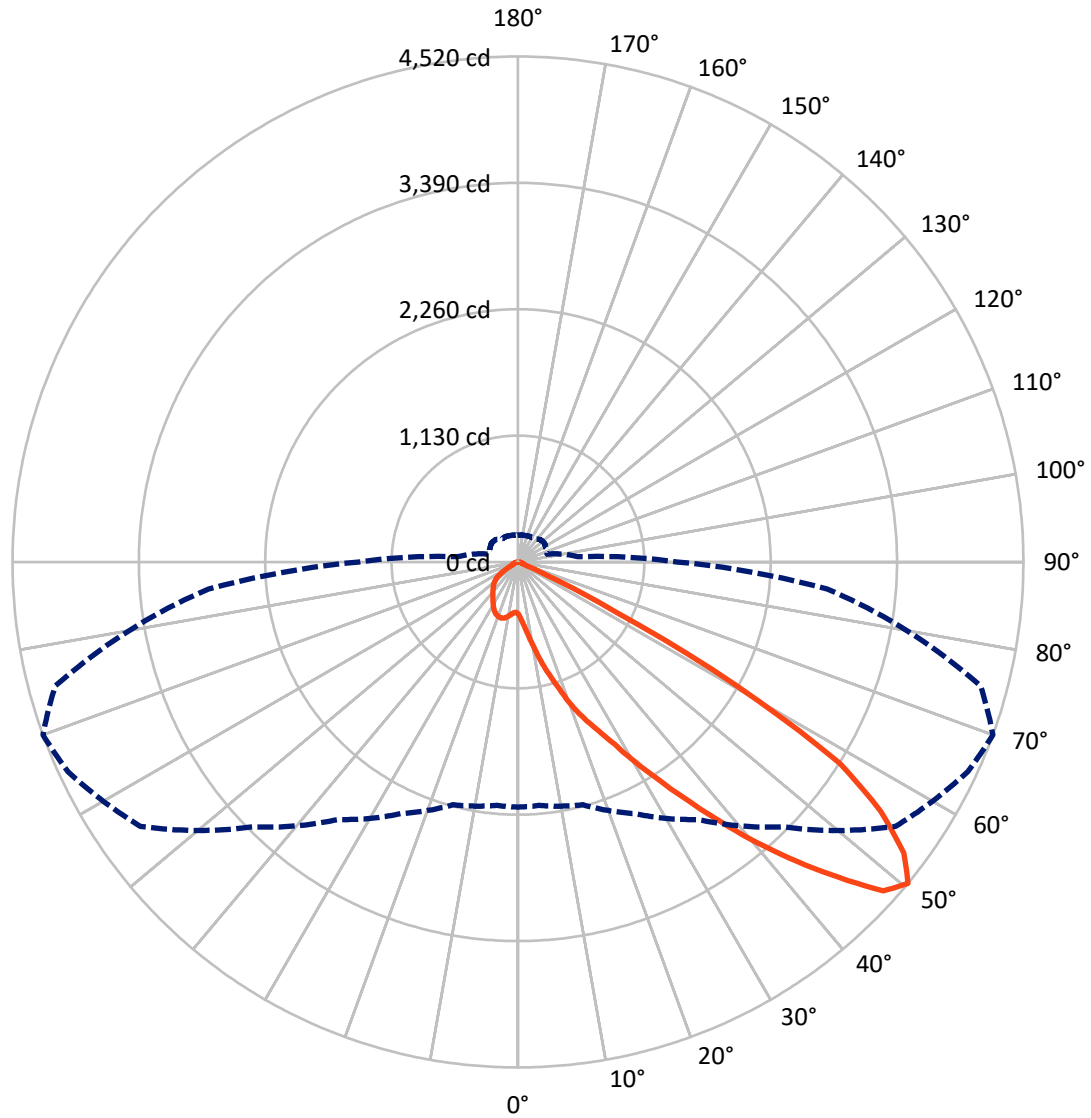
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type I - Short - N/A

REPORT NUMBER: P527149
CATALOG NUMBER: GALN-SA2A-827-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527149

CATALOG NUMBER: GALN-SA2A-827-U-T2R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	624.4	0.0	624.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3846.6	0.0	3846.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	4471.0	0.0	4471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	1.3
10°-20°	260.5	5.8
20°-30°	546.5	12.2
30°-40°	941.9	21.1
40°-50°	1376.6	30.8
50°-60°	1072.2	24.0
60°-70°	181.7	4.1
70°-80°	25.0	0.6
80°-90°	6.5	0.1
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°	4471.0	100.0
0°-180°	4471.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527149

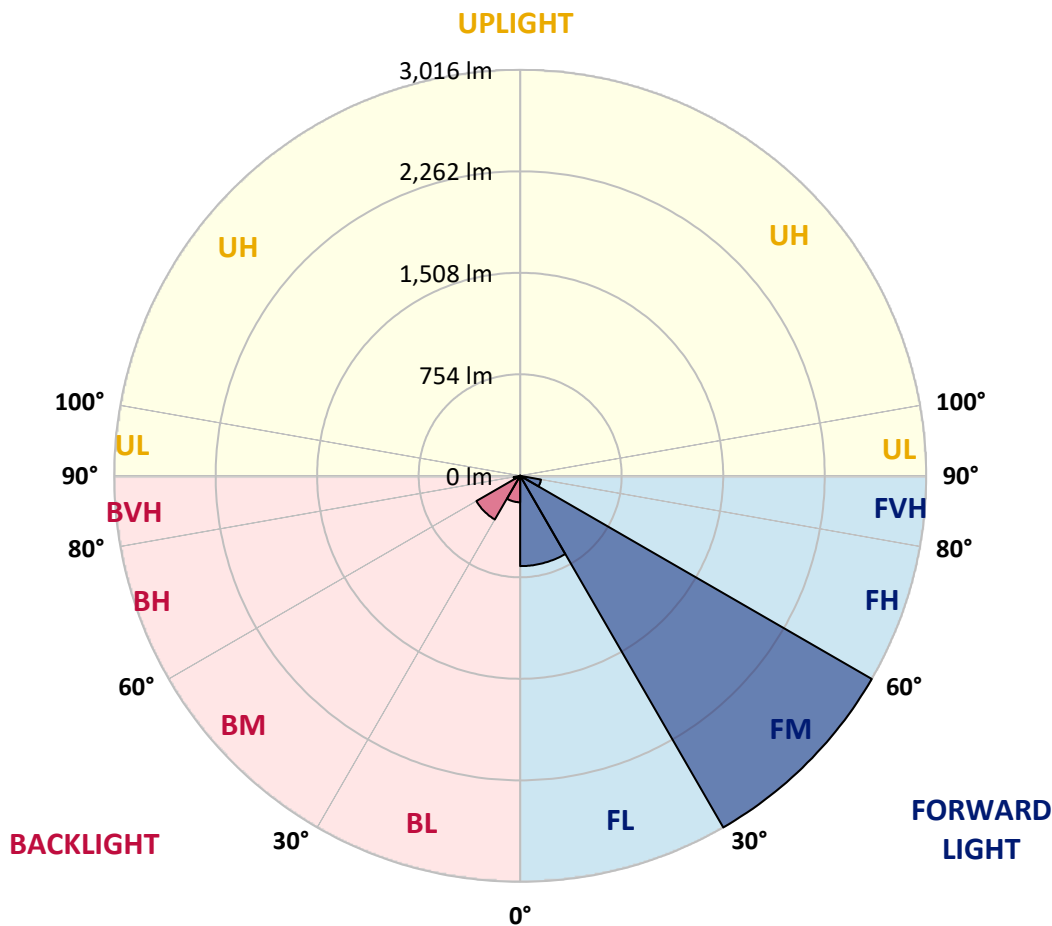
CATALOG NUMBER: GALN-SA2A-827-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.7	15.0			
FM (30°-60°)	3015.6	67.4			
FH (60°-80°)	157.3	3.5			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	196.5	4.4	B1/500		
BM (30°-60°)	375.1	8.4	B1/1000		
BH (60°-80°)	49.3	1.1	B0/110		G0/110
BVH (80°-90°)	3.5	0.1			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 I Short





REPORT NUMBER: P527149

CATALOG NUMBER: GALN-SA2A-827-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	606.5	602.0	592.5	574.8	567.5	549.8	539.6	519.7	507.2	493.2	477.8
5°	854.2	831.4	817.4	797.6	739.5	703.5	643.9	593.2	569.7	544.0	508.7
7.5°	1110.0	1095.3	1076.2	1033.5	993.8	918.9	816.7	705.0	657.2	613.1	543.2
10°	1321.7	1280.5	1278.3	1246.7	1203.3	1113.7	990.9	852.0	766.7	702.0	592.5
12.5°	1469.4	1432.0	1448.9	1445.2	1404.8	1322.4	1180.6	996.8	907.8	807.1	643.2
15°	1604.0	1588.5	1583.4	1579.0	1562.8	1501.8	1374.6	1173.2	1044.6	923.3	700.5
17.5°	1735.6	1695.9	1715.0	1718.6	1717.2	1662.0	1543.0	1340.8	1189.4	1046.0	760.8
20°	1852.4	1856.1	1830.4	1825.2	1820.8	1818.6	1702.5	1506.9	1367.3	1174.7	839.5
22.5°	2002.4	1976.7	1999.4	1984.7	1956.1	1938.4	1849.5	1654.0	1521.6	1329.8	919.6
25°	2179.5	2200.1	2146.5	2140.6	2109.0	2048.0	1967.8	1818.6	1670.1	1473.9	1006.3
27.5°	2397.9	2361.8	2347.9	2315.5	2258.2	2232.5	2138.4	1988.4	1849.5	1625.3	1090.1
30°	2585.3	2575.8	2505.9	2467.7	2417.7	2417.0	2285.4	2218.5	2083.2	1862.7	1205.5
32.5°	2738.2	2696.3	2670.6	2644.1	2603.7	2614.7	2503.7	2468.4	2332.4	2083.2	1341.5
35°	2840.4	2810.3	2794.8	2754.4	2742.6	2791.9	2745.6	2730.9	2619.1	2393.5	1501.1
37.5°	2872.7	2882.3	2879.4	2828.6	2853.6	2986.7	3046.2	3008.0	2949.2	2720.6	1673.8
40°	2901.4	2908.0	2893.3	2952.9	3024.2	3175.6	3391.0	3327.8	3305.7	3052.1	1914.2
42.5°	2917.6	2912.4	2912.4	3015.3	3123.4	3427.7	3724.0	3682.1	3665.2	3404.9	2192.0
45°	2847.7	2797.8	2851.4	2991.1	3208.7	3552.0	3990.1	4048.1	4023.9	3824.7	2517.0
47.5°	2586.8	2617.7	2647.8	2834.5	3105.0	3513.7	4153.3	4351.0	4395.8	4177.5	2730.1
50°	2192.0	2185.4	2247.9	2483.1	2811.7	3349.1	4121.7	4438.5	4520.1	4283.4	2775.0
52.5°	1594.4	1642.9	1710.6	1944.3	2333.9	2922.7	3713.7	4212.8	4321.6	4153.3	2745.6
55°	928.4	874.8	1026.9	1224.7	1592.2	2204.5	3139.6	3734.3	3935.7	3916.6	2597.1
57.5°	372.0	360.2	412.4	555.7	830.7	1366.5	2283.2	3068.3	3391.0	3587.2	2282.5
60°	163.2	159.5	187.4	226.4	339.6	630.0	1248.9	1908.3	2245.0	2506.7	1570.9
62.5°	117.6	116.1	130.1	144.1	179.4	274.2	524.9	768.9	958.6	1157.8	703.5
65°	94.8	98.5	108.1	115.4	132.3	152.2	185.2	213.9	262.4	272.0	155.1
67.5°	77.2	80.1	88.9	97.0	100.0	82.3	85.3	75.0	75.0	66.9	53.7
70°	56.6	57.3	67.6	77.2	61.7	33.1	58.1	58.1	52.2	50.0	45.6
72.5°	41.9	42.6	50.7	47.8	24.3	20.6	42.6	47.0	42.6	40.4	36.8
75°	30.9	31.6	26.5	11.0	10.3	13.2	25.0	32.3	30.9	30.1	27.9
77.5°	5.9	4.4	3.7	5.1	7.4	11.0	16.2	19.8	20.6	22.1	20.6
80°	0.7	0.7	2.2	4.4	8.1	11.8	16.9	19.1	19.8	20.6	19.1
82.5°	0.0	0.7	2.2	4.4	8.1	11.0	14.7	16.9	18.4	19.1	18.4
85°	0.0	0.7	1.5	3.7	6.6	8.1	7.4	5.1	4.4	5.1	3.7
87.5°	0.0	0.0	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527149

CATALOG NUMBER: GALN-SA2A-827-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	469.0	466.0	455.8	444.7	435.2	439.6	435.2	431.5	433.0	431.5	430.0
5°	494.7	481.5	459.4	449.9	441.8	441.1	438.8	438.1	438.8	438.8	432.2
7.5°	519.0	497.7	474.1	463.8	454.3	455.0	449.9	449.9	449.1	445.5	444.0
10°	555.7	527.1	496.9	478.5	466.8	464.6	459.4	454.3	454.3	454.3	446.9
12.5°	596.2	560.1	519.0	497.7	483.7	472.7	464.6	463.1	455.0	453.6	449.9
15°	631.4	585.9	533.7	504.3	486.6	471.9	459.4	451.3	447.7	445.5	442.5
17.5°	666.0	607.9	541.8	504.3	485.2	468.3	455.0	447.7	438.8	440.3	434.4
20°	712.3	631.4	544.0	494.7	471.2	455.0	437.4	433.7	428.6	424.1	425.6
22.5°	757.1	648.4	537.4	483.0	449.1	430.0	421.2	416.8	414.6	410.9	405.8
25°	797.6	666.7	527.1	461.6	425.6	411.7	403.6	402.8	397.7	397.7	388.1
27.5°	838.7	673.3	509.4	436.6	405.0	396.9	393.3	391.8	389.6	384.5	377.8
30°	885.8	675.5	483.7	410.9	386.7	377.8	383.0	386.7	377.1	367.5	370.5
32.5°	924.7	670.4	452.8	386.7	373.4	369.0	379.3	383.0	372.0	361.7	356.5
35°	971.8	657.9	422.7	367.5	360.2	369.0	377.8	377.8	355.8	343.3	340.3
37.5°	1043.1	643.9	394.7	351.4	346.2	364.6	376.4	368.3	333.7	318.3	314.6
40°	1119.5	635.1	367.5	335.2	338.9	357.3	363.9	338.9	303.6	294.0	291.1
42.5°	1230.5	617.5	343.3	321.2	332.3	347.0	347.0	302.1	288.9	283.7	283.0
45°	1368.7	605.0	322.0	309.5	322.7	326.4	314.6	283.0	273.5	272.0	272.7
47.5°	1436.4	580.7	299.9	295.5	305.1	305.8	274.9	267.6	259.5	257.3	255.8
50°	1426.1	537.4	271.2	277.1	290.4	283.0	250.7	252.1	244.8	244.1	240.4
52.5°	1354.0	469.0	242.6	256.5	271.2	249.9	230.8	229.3	229.3	219.8	216.1
55°	1200.4	377.8	208.0	225.7	243.3	210.2	205.1	203.6	199.9	191.1	188.9
57.5°	950.5	277.1	156.6	175.7	206.6	178.6	177.9	171.3	161.7	155.1	155.1
60°	565.3	159.5	98.5	107.3	136.7	144.8	161.0	158.0	141.9	131.6	128.6
62.5°	258.0	82.3	62.5	64.0	73.5	94.1	126.4	146.3	123.5	105.9	104.4
65°	86.7	61.0	51.5	49.3	50.7	56.6	75.7	103.6	98.5	81.6	78.7
67.5°	52.9	54.4	48.5	44.8	44.8	44.1	43.4	47.0	58.1	56.6	57.3
70°	45.6	50.0	44.8	40.4	39.0	36.8	30.9	25.7	22.1	25.7	27.2
72.5°	36.8	39.7	38.2	34.5	30.9	27.9	22.1	16.9	12.5	11.0	11.0
75°	27.2	29.4	30.9	26.5	23.5	19.8	16.2	11.0	6.6	4.4	4.4
77.5°	19.8	22.1	22.8	20.6	17.6	14.0	10.3	7.4	3.7	1.5	1.5
80°	16.9	19.8	22.1	20.6	18.4	13.2	9.6	5.1	2.9	0.7	0.7
82.5°	16.2	19.8	22.1	19.8	17.6	12.5	9.6	5.9	2.2	0.7	0.7
85°	3.7	5.1	6.6	8.1	9.6	9.6	7.4	4.4	2.2	0.7	0.7
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	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)