

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: P526993

Luminaire Tested: **GALN-SA2A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526993
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-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 5087 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

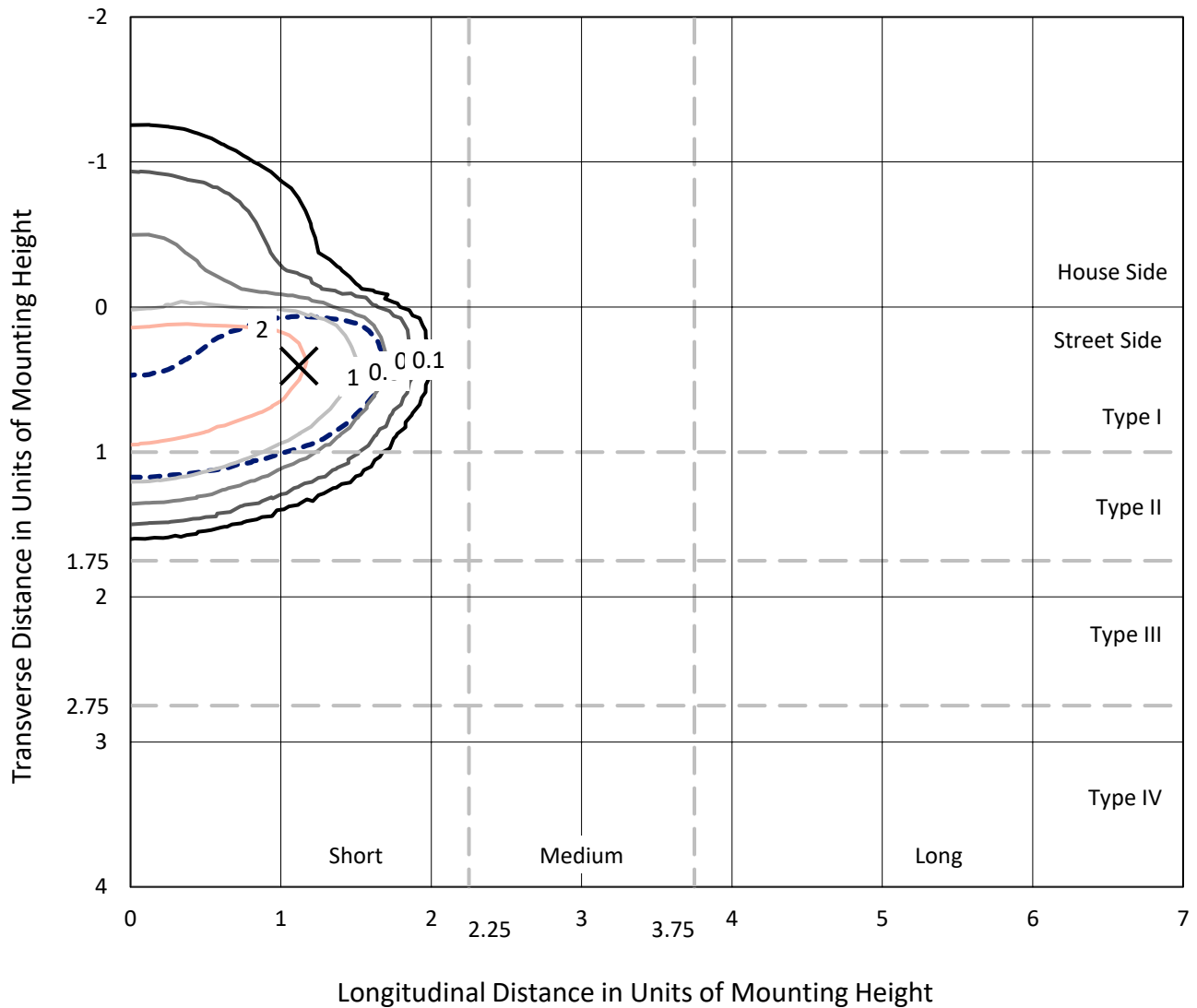
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

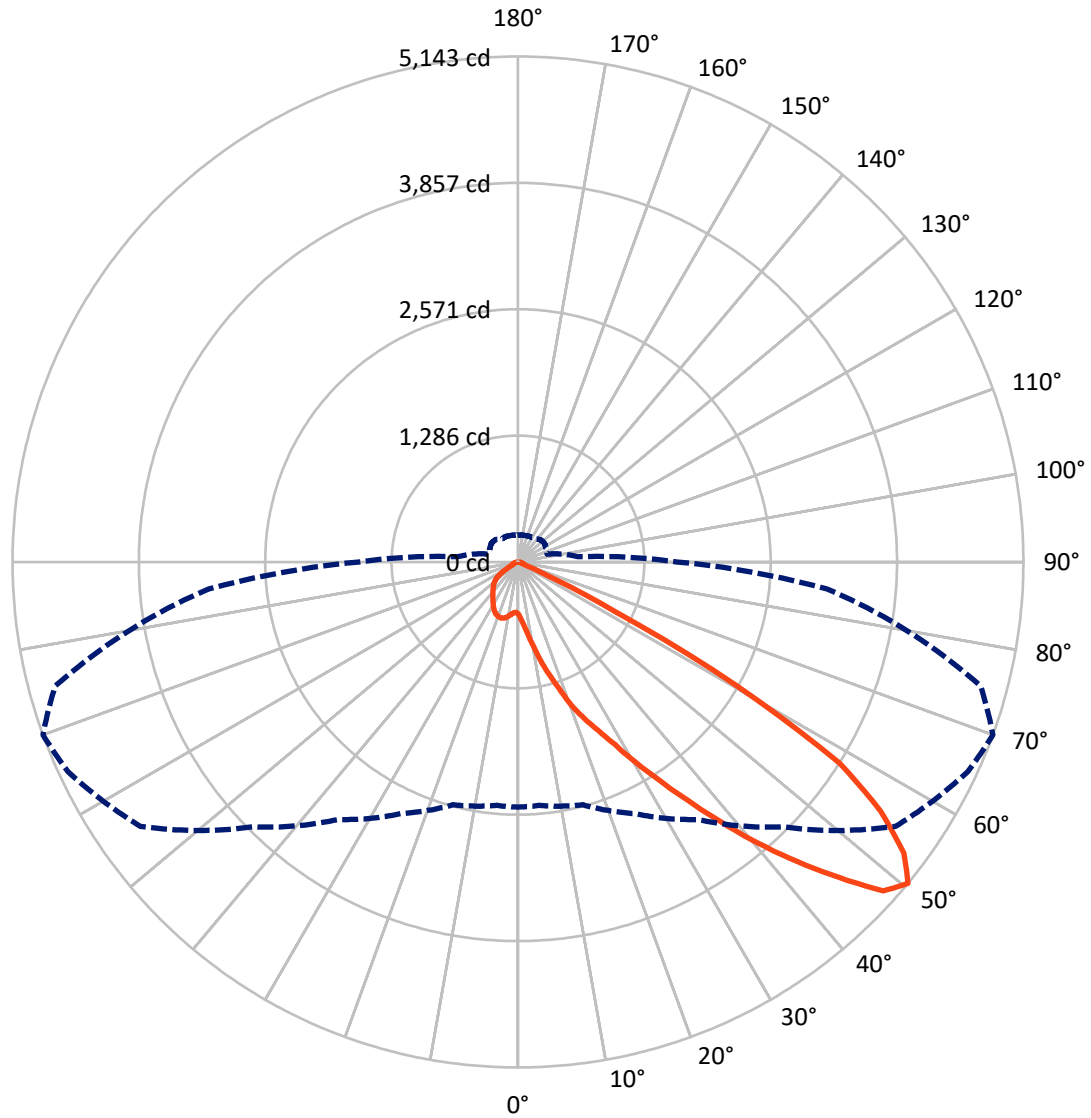
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.4	0.0	710.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4376.6	0.0	4376.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	5087.0	0.0	5087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	1.3
10°-20°	296.4	5.8
20°-30°	621.8	12.2
30°-40°	1071.7	21.1
40°-50°	1566.3	30.8
50°-60°	1219.9	24.0
60°-70°	206.7	4.1
70°-80°	28.4	0.6
80°-90°	7.4	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°	5087.0	100.0
0°-180°	5087.0	100.0

Coefficient of Utilization



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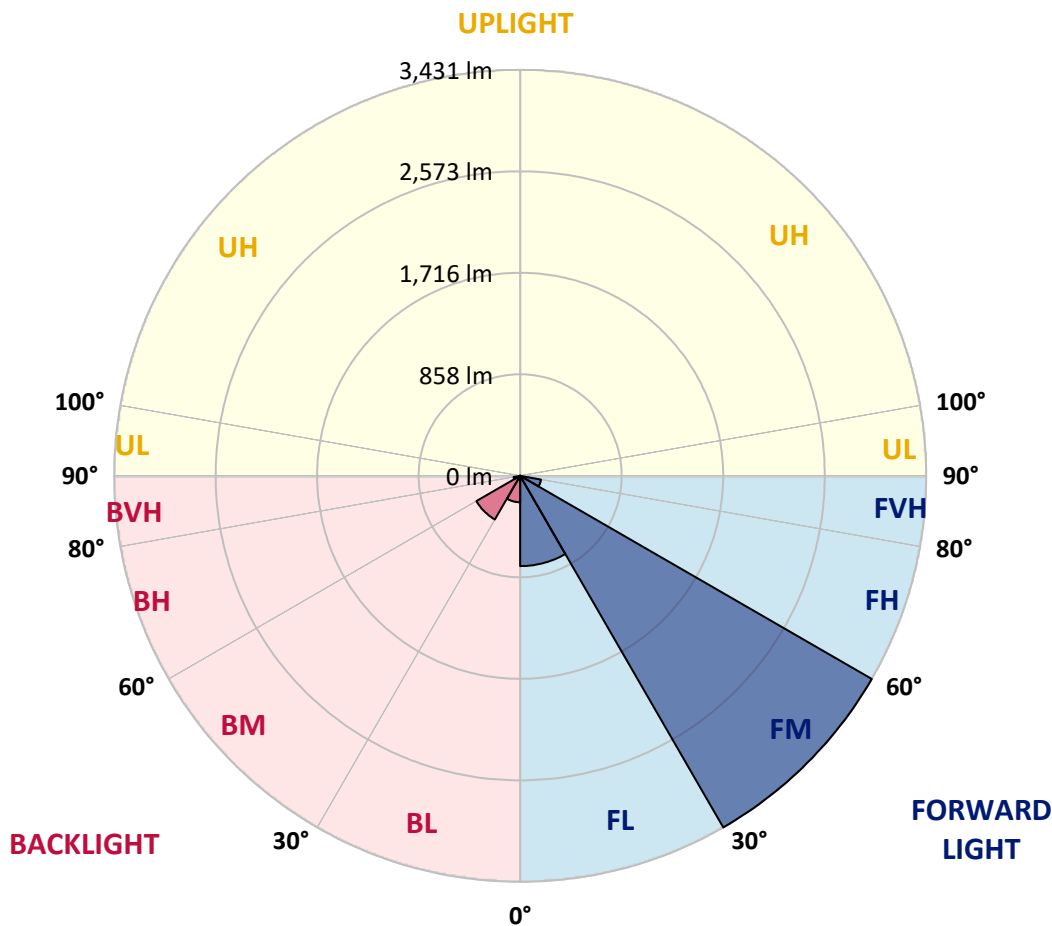
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.1	15.0			
FM (30°-60°)	3431.1	67.4			
FH (60°-80°)	179.0	3.5			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	223.6	4.4	B1/500		
BM (30°-60°)	426.8	8.4	B1/1000		
BH (60°-80°)	56.1	1.1	B0/110		G0/110
BVH (80°-90°)	4.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	690.0	685.0	674.1	654.0	645.7	625.6	613.9	591.3	577.1	561.2	543.6
5°	971.9	945.9	930.0	907.5	841.4	800.4	732.7	675.0	648.2	618.9	578.8
7.5°	1262.9	1246.2	1224.4	1175.9	1130.8	1045.5	929.2	802.1	747.7	697.5	618.1
10°	1503.8	1457.0	1454.4	1418.5	1369.1	1267.1	1127.4	969.4	872.3	798.7	674.1
12.5°	1671.9	1629.2	1648.5	1644.3	1598.3	1504.6	1343.2	1134.1	1032.9	918.3	731.8
15°	1825.0	1807.4	1801.5	1796.5	1778.1	1708.7	1564.0	1334.8	1188.5	1050.5	797.1
17.5°	1974.7	1929.5	1951.3	1955.4	1953.8	1891.0	1755.5	1525.5	1353.2	1190.2	865.6
20°	2107.7	2111.8	2082.6	2076.7	2071.7	2069.2	1937.0	1714.6	1555.6	1336.5	955.1
22.5°	2278.3	2249.0	2274.9	2258.2	2225.6	2205.5	2104.3	1881.8	1731.3	1513.0	1046.3
25°	2479.8	2503.3	2442.2	2435.5	2399.5	2330.1	2239.0	2069.2	1900.2	1676.9	1145.0
27.5°	2728.2	2687.3	2671.4	2634.6	2569.3	2540.1	2433.0	2262.4	2104.3	1849.2	1240.3
30°	2941.5	2930.6	2851.2	2807.7	2750.8	2750.0	2600.3	2524.2	2370.3	2119.4	1371.6
32.5°	3115.5	3067.8	3038.5	3008.4	2962.4	2975.0	2848.7	2808.5	2653.8	2370.3	1526.4
35°	3231.7	3197.4	3179.9	3133.9	3120.5	3176.5	3123.8	3107.1	2980.0	2723.2	1707.9
37.5°	3268.5	3279.4	3276.1	3218.4	3246.8	3398.2	3465.9	3422.4	3355.5	3095.4	1904.4
40°	3301.2	3308.7	3292.0	3359.7	3440.8	3613.1	3858.2	3786.2	3761.2	3472.6	2177.9
42.5°	3319.6	3313.7	3313.7	3430.8	3553.7	3900.0	4237.0	4189.4	4170.1	3874.1	2494.1
45°	3240.1	3183.2	3244.3	3403.2	3650.8	4041.3	4539.8	4605.9	4578.3	4351.6	2863.7
47.5°	2943.2	2978.3	3012.6	3225.0	3532.8	3997.8	4725.5	4950.5	5001.5	4753.1	3106.3
50°	2494.1	2486.5	2557.6	2825.3	3199.1	3810.5	4689.5	5050.0	5142.8	4873.5	3157.3
52.5°	1814.1	1869.3	1946.2	2212.2	2655.5	3325.4	4225.3	4793.2	4917.0	4725.5	3123.8
55°	1056.3	995.3	1168.4	1393.4	1811.6	2508.3	3572.1	4248.8	4477.9	4456.2	2954.9
57.5°	423.2	409.8	469.2	632.3	945.1	1554.8	2597.8	3491.0	3858.2	4081.5	2596.9
60°	185.7	181.5	213.3	257.6	386.4	716.8	1421.0	2171.2	2554.3	2852.0	1787.3
62.5°	133.8	132.1	148.0	163.9	204.1	312.0	597.2	874.8	1090.6	1317.3	800.4
65°	107.9	112.1	122.9	131.3	150.5	173.1	210.8	243.4	298.6	309.5	176.5
67.5°	87.8	91.2	101.2	110.4	113.7	93.7	97.0	85.3	85.3	76.1	61.1
70°	64.4	65.2	76.9	87.8	70.3	37.6	66.1	66.1	59.4	56.9	51.9
72.5°	47.7	48.5	57.7	54.4	27.6	23.4	48.5	53.5	48.5	46.0	41.8
75°	35.1	36.0	30.1	12.5	11.7	15.1	28.4	36.8	35.1	34.3	31.8
77.5°	6.7	5.0	4.2	5.9	8.4	12.5	18.4	22.6	23.4	25.1	23.4
80°	0.8	0.8	2.5	5.0	9.2	13.4	19.2	21.7	22.6	23.4	21.7
82.5°	0.0	0.8	2.5	5.0	9.2	12.5	16.7	19.2	20.9	21.7	20.9
85°	0.0	0.8	1.7	4.2	7.5	9.2	8.4	5.9	5.0	5.9	4.2
87.5°	0.0	0.0	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	533.6	530.3	518.5	506.0	495.1	500.1	495.1	490.9	492.6	490.9	489.3
5°	562.9	547.8	522.7	511.9	502.7	501.8	499.3	498.5	499.3	499.3	491.8
7.5°	590.5	566.2	539.5	527.7	516.9	517.7	511.9	511.9	511.0	506.8	505.2
10°	632.3	599.7	565.4	544.5	531.1	528.6	522.7	516.9	516.9	516.9	508.5
12.5°	678.3	637.3	590.5	566.2	550.3	537.8	528.6	526.9	517.7	516.0	511.9
15°	718.4	666.6	607.2	573.7	553.7	536.9	522.7	513.5	509.3	506.8	503.5
17.5°	757.8	691.7	616.4	573.7	552.0	532.8	517.7	509.3	499.3	501.0	494.3
20°	810.4	718.4	618.9	562.9	536.1	517.7	497.6	493.5	487.6	482.6	484.3
22.5°	861.5	737.7	611.4	549.5	511.0	489.3	479.2	474.2	471.7	467.5	461.7
25°	907.5	758.6	599.7	525.2	484.3	468.4	459.2	458.3	452.5	452.5	441.6
27.5°	954.3	766.1	579.6	496.8	460.8	451.6	447.5	445.8	443.3	437.4	429.9
30°	1007.8	768.6	550.3	467.5	439.9	429.9	435.7	439.9	429.1	418.2	421.5
32.5°	1052.2	762.8	515.2	439.9	424.9	419.9	431.6	435.7	423.2	411.5	405.6
35°	1105.7	748.6	480.9	418.2	409.8	419.9	429.9	429.9	404.8	390.6	387.2
37.5°	1186.8	732.7	449.1	399.8	393.9	414.8	428.2	419.0	379.7	362.1	358.0
40°	1273.8	722.6	418.2	381.4	385.6	406.5	414.0	385.6	345.4	334.5	331.2
42.5°	1400.1	702.6	390.6	365.5	378.0	394.8	394.8	343.7	328.7	322.8	322.0
45°	1557.3	688.3	366.3	352.1	367.2	371.3	358.0	322.0	311.1	309.5	310.3
47.5°	1634.3	660.7	341.2	336.2	347.1	347.9	312.8	304.4	295.2	292.7	291.1
50°	1622.6	611.4	308.6	315.3	330.4	322.0	285.2	286.9	278.5	277.7	273.5
52.5°	1540.6	533.6	276.0	291.9	308.6	284.4	262.6	260.9	260.9	250.1	245.9
55°	1365.8	429.9	236.7	256.8	276.8	239.2	233.3	231.7	227.5	217.5	214.9
57.5°	1081.4	315.3	178.1	199.9	235.0	203.2	202.4	194.9	184.0	176.5	176.5
60°	643.2	181.5	112.1	122.1	155.6	164.8	183.2	179.8	161.4	149.7	146.4
62.5°	293.6	93.7	71.1	72.8	83.6	107.1	143.9	166.4	140.5	120.4	118.8
65°	98.7	69.4	58.5	56.0	57.7	64.4	86.1	117.9	112.1	92.8	89.5
67.5°	60.2	61.9	55.2	51.0	51.0	50.2	49.3	53.5	66.1	64.4	65.2
70°	51.9	56.9	51.0	46.0	44.3	41.8	35.1	29.3	25.1	29.3	30.9
72.5°	41.8	45.2	43.5	39.3	35.1	31.8	25.1	19.2	14.2	12.5	12.5
75°	30.9	33.5	35.1	30.1	26.8	22.6	18.4	12.5	7.5	5.0	5.0
77.5°	22.6	25.1	25.9	23.4	20.1	15.9	11.7	8.4	4.2	1.7	1.7
80°	19.2	22.6	25.1	23.4	20.9	15.1	10.9	5.9	3.3	0.8	0.8
82.5°	18.4	22.6	25.1	22.6	20.1	14.2	10.9	6.7	2.5	0.8	0.8
85°	4.2	5.9	7.5	9.2	10.9	10.9	8.4	5.0	2.5	0.8	0.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.8	0.8	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)