

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: P452684

Luminaire Tested: **GALN-SA3C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17492 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160
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

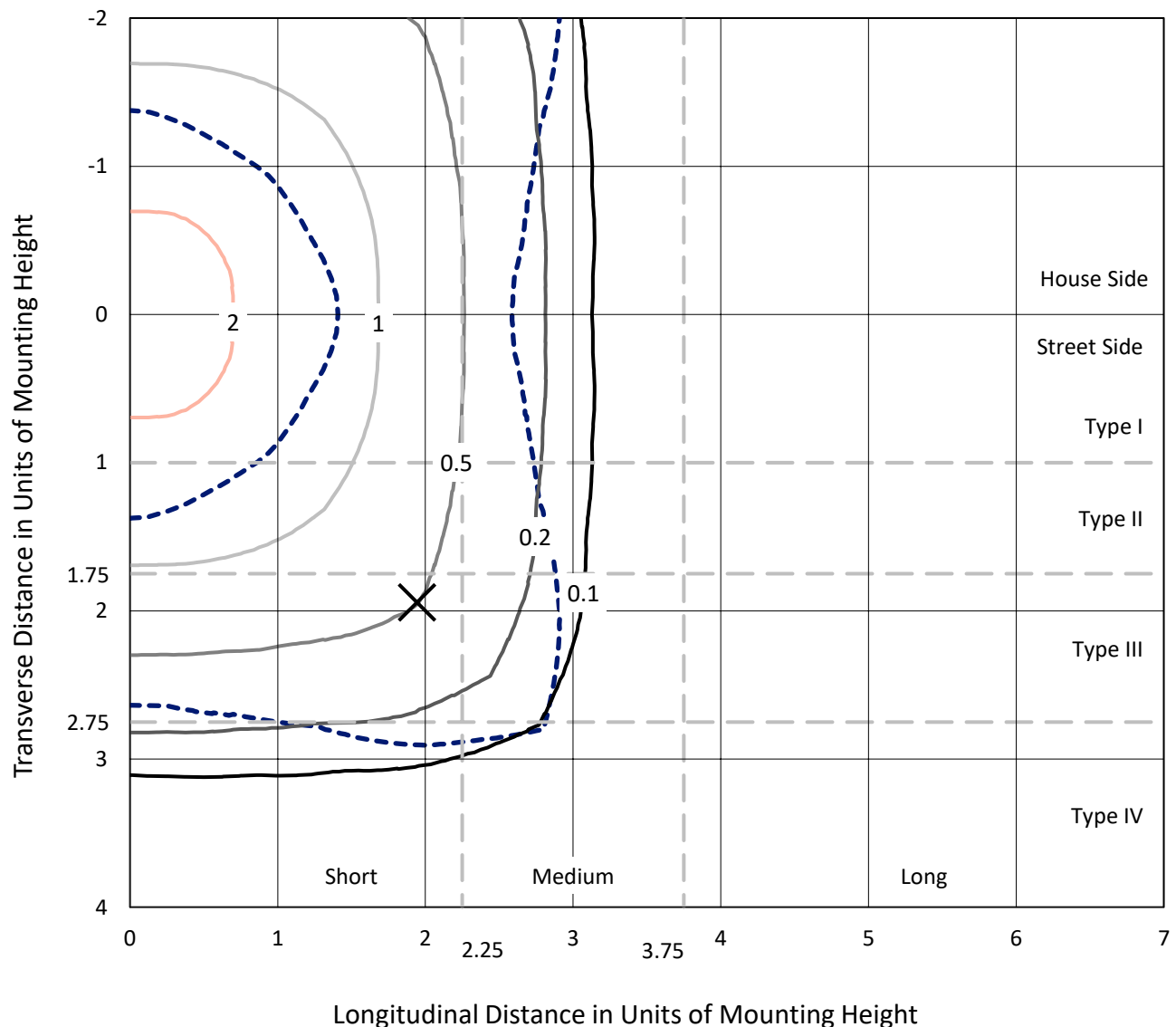


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

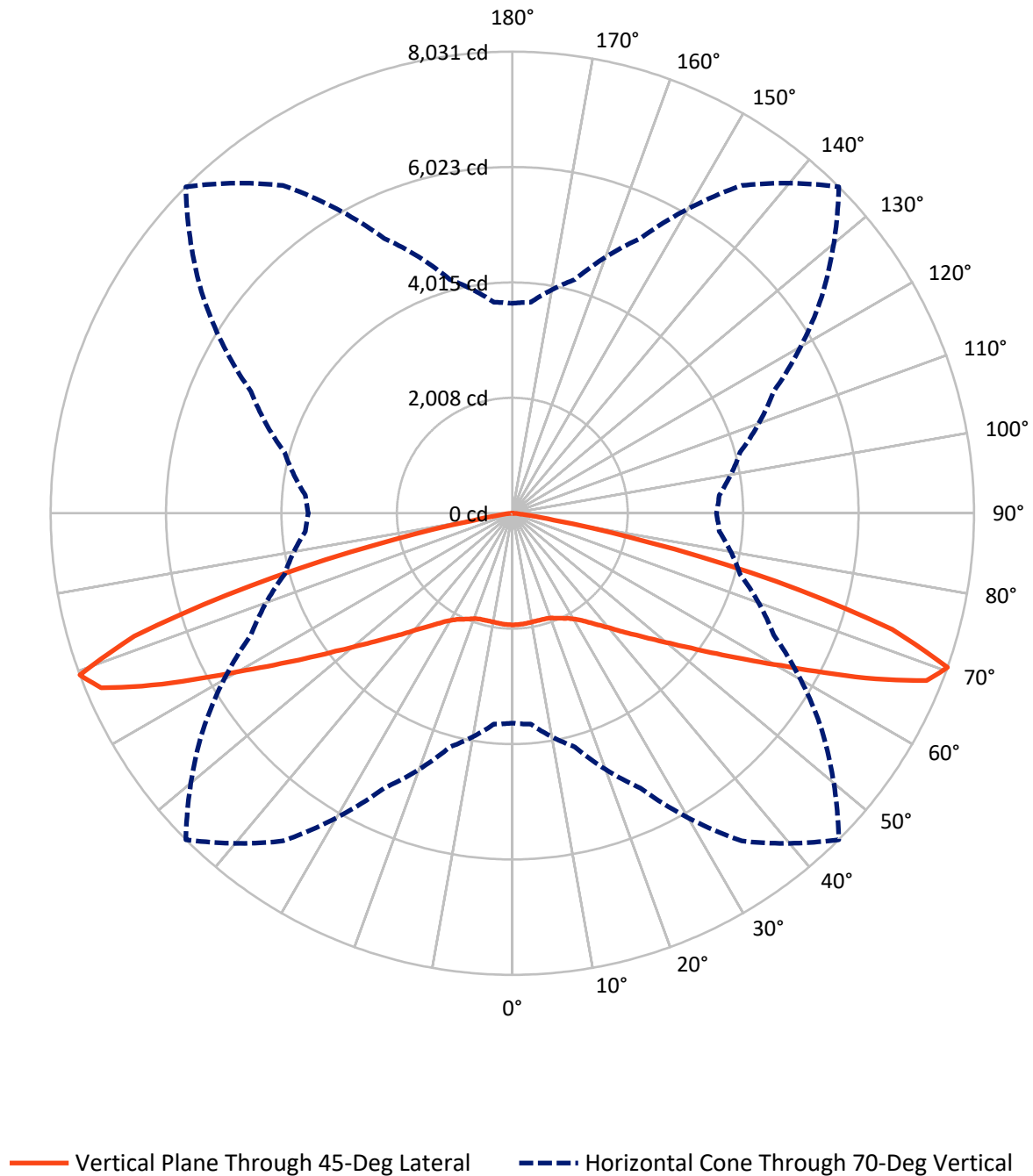


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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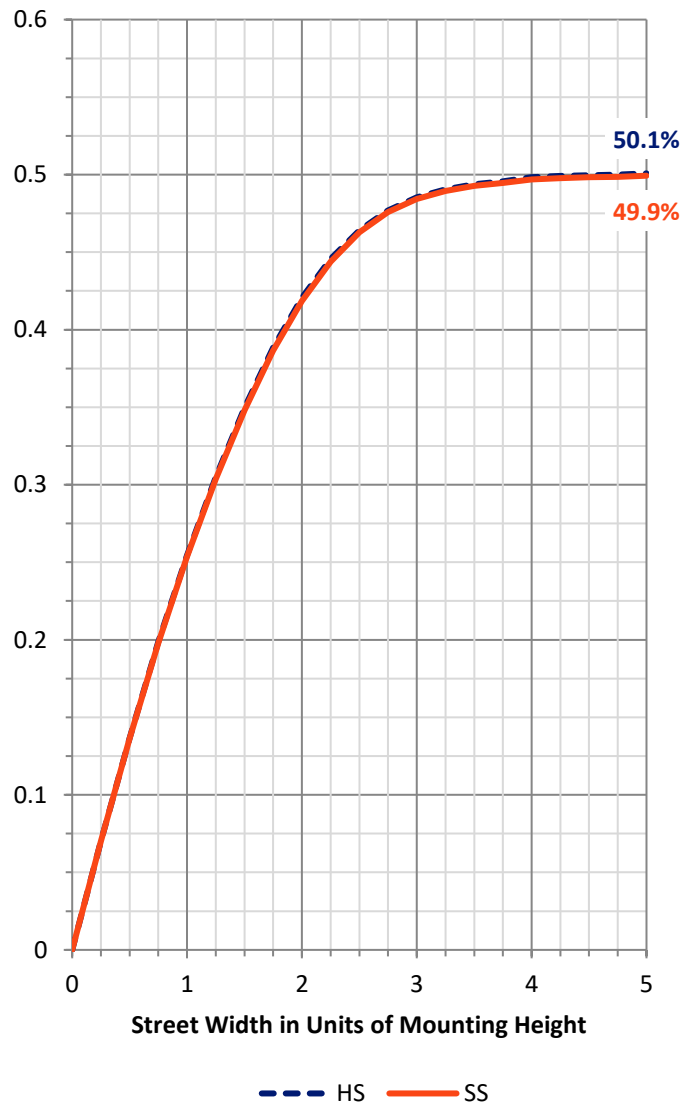
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8746.0	0.0	8746.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8746.0	0.0	8746.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17492.0	0.0	17492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	1.1
10°-20°	540.5	3.1
20°-30°	924.4	5.3
30°-40°	1467.3	8.4
40°-50°	2367.1	13.5
50°-60°	3851.3	22.0
60°-70°	5583.0	31.9
70°-80°	2476.4	14.2
80°-90°	97.7	0.6
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°	17492.0	100.0
0°-180°	17492.0	100.0

Coefficient of Utilization



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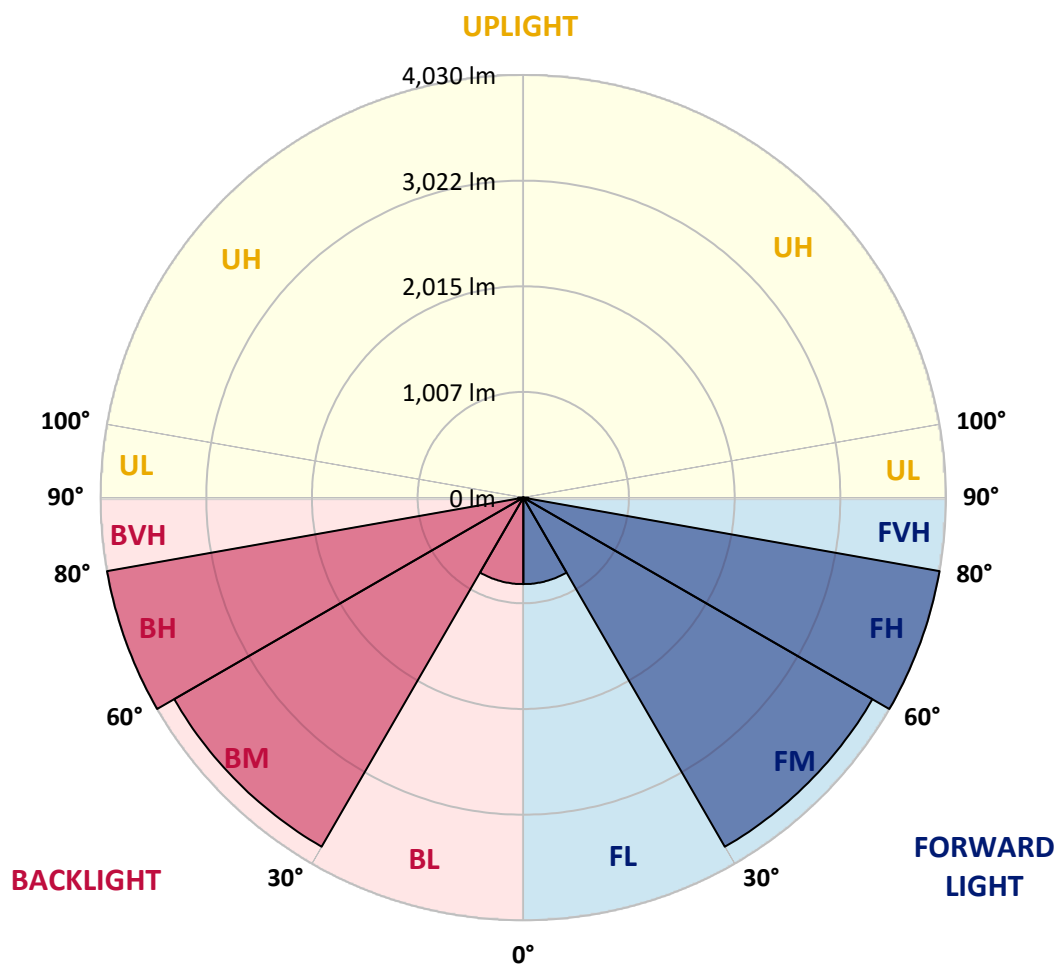
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	824.6	4.7			
FM	(30°-60°)	3842.9	22.0			
FH	(60°-80°)	4029.7	23.0			G2/5000
FVH	(80°-90°)	48.8	0.3			G1/100
BL	(0°-30°)	824.6	4.7	B2/1000		
BM	(30°-60°)	3842.9	22.0	B3/5000		
BH	(60°-80°)	4029.7	23.0	B4/5000		G2/5000
BVH	(80°-90°)	48.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4	1942.4
2.5°	1942.4	1944.2	1941.5	1939.6	1938.7	1938.7	1937.8	1938.7	1944.2	1945.2	1942.4
5°	1936.9	1938.7	1937.8	1936.0	1935.0	1935.0	1934.1	1933.2	1937.8	1939.6	1938.7
7.5°	1929.5	1930.4	1929.5	1928.6	1929.5	1928.6	1925.8	1924.0	1927.7	1927.7	1926.7
10°	1916.6	1918.4	1917.5	1918.4	1920.3	1920.3	1916.6	1912.9	1913.8	1912.0	1912.0
12.5°	1900.9	1903.7	1904.6	1908.3	1912.9	1918.4	1910.1	1901.8	1900.0	1899.1	1898.2
15°	1890.8	1893.5	1897.2	1900.9	1909.2	1921.2	1909.2	1896.3	1892.6	1888.9	1887.1
17.5°	1888.0	1891.7	1897.2	1902.8	1913.8	1925.8	1915.7	1902.8	1893.5	1888.0	1886.2
20°	1895.4	1898.2	1906.5	1916.6	1932.3	1944.2	1934.1	1920.3	1906.5	1898.2	1895.4
22.5°	1910.1	1914.7	1924.9	1943.3	1965.5	1983.0	1969.1	1946.1	1924.0	1912.9	1909.2
25°	1942.4	1946.1	1958.1	1983.0	2008.8	2025.4	2010.6	1983.9	1953.5	1938.7	1934.1
27.5°	1991.3	1996.8	2009.7	2039.2	2060.4	2069.6	2059.5	2041.0	2018.9	2003.2	1999.6
30°	2060.4	2066.9	2086.2	2117.6	2131.4	2136.9	2132.3	2120.3	2104.7	2088.1	2084.4
32.5°	2153.5	2157.2	2179.3	2208.8	2221.7	2223.6	2218.0	2212.5	2186.7	2159.0	2157.2
35°	2257.7	2264.1	2290.9	2325.9	2337.9	2338.8	2327.8	2319.5	2289.0	2266.9	2266.9
37.5°	2396.0	2398.7	2424.5	2464.2	2477.1	2473.4	2467.9	2460.5	2428.2	2399.7	2400.6
40°	2558.2	2563.8	2585.9	2632.0	2632.0	2627.4	2631.0	2625.5	2593.3	2565.6	2566.5
42.5°	2750.9	2753.7	2780.4	2829.3	2825.6	2816.3	2820.0	2812.7	2792.4	2761.0	2750.0
45°	2956.5	2967.5	3013.6	3060.6	3053.3	3023.8	3038.5	3036.7	3018.2	2971.2	2974.0
47.5°	3204.5	3222.9	3267.1	3323.4	3315.1	3269.0	3285.6	3296.6	3270.8	3219.2	3210.0
50°	3483.8	3495.8	3561.2	3613.8	3606.4	3557.5	3595.3	3597.2	3532.6	3459.8	3459.8
52.5°	3781.6	3793.5	3882.0	3964.1	3968.7	3897.7	3928.1	3926.3	3821.2	3725.3	3706.9
55°	4115.3	4120.8	4235.1	4355.9	4381.7	4312.6	4316.2	4279.4	4142.9	4031.4	4021.2
57.5°	4460.1	4480.3	4606.6	4763.4	4839.9	4797.5	4778.1	4679.5	4547.6	4419.5	4413.0
60°	4841.7	4842.6	5006.7	5192.0	5346.9	5375.5	5296.2	5164.4	4993.8	4824.2	4816.8
62.5°	5106.3	5145.9	5353.4	5666.8	5944.3	6104.7	5895.4	5618.9	5283.3	5009.5	4981.8
65°	5160.7	5187.4	5503.6	6034.6	6601.6	6947.3	6463.3	5875.2	5302.7	4937.6	4919.2
67.5°	4721.0	4749.5	5175.4	5990.4	7062.5	7771.5	6832.1	5751.6	4974.5	4522.8	4486.8
70°	3651.6	3683.8	4210.2	5273.2	6960.2	8030.5	6569.3	5016.9	4102.4	3614.7	3549.2
72.5°	1941.5	2060.4	2510.3	3619.3	5649.3	6914.1	5386.6	3660.8	2645.8	2162.7	2076.1
75°	708.9	723.7	974.4	1605.0	3286.5	4741.2	3412.8	1746.0	1003.9	775.3	735.7
77.5°	293.2	292.2	320.8	484.9	1193.8	2428.2	1332.1	512.6	319.9	295.9	292.2
80°	173.3	173.3	190.8	201.9	314.4	732.9	351.2	228.6	191.8	175.2	177.9
82.5°	77.4	82.0	120.8	127.2	152.1	201.0	169.6	145.7	125.4	86.7	78.4
85°	42.4	36.9	63.6	66.4	72.8	74.7	80.2	79.3	72.8	42.4	43.3
87.5°	8.3	10.1	18.4	13.8	15.7	13.8	18.4	25.8	26.7	14.8	12.0
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)