

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: LUMARK

Report Number: P964179

Luminaire Tested: **NAV-SB3B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

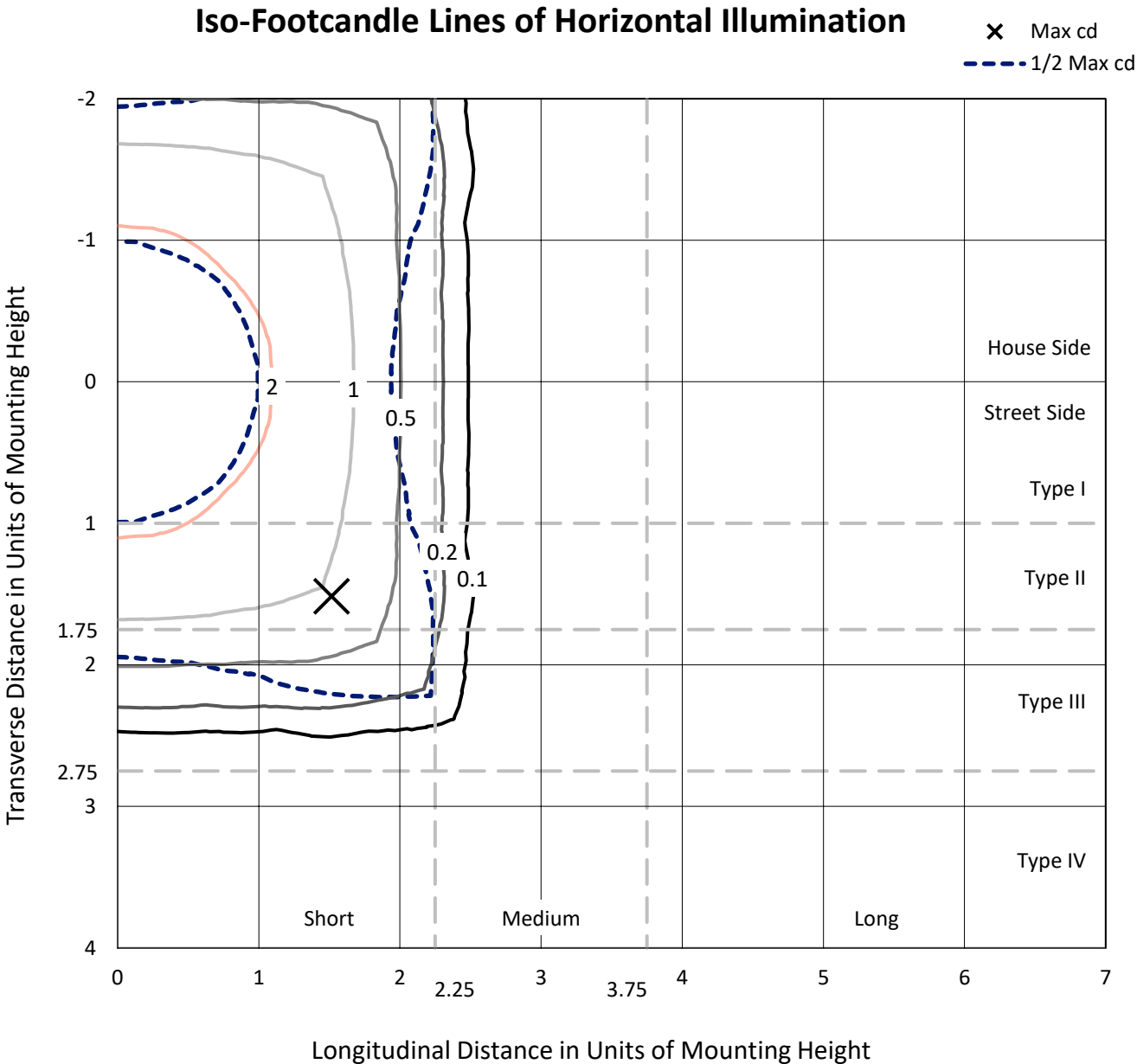
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16305.7 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 109.2
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



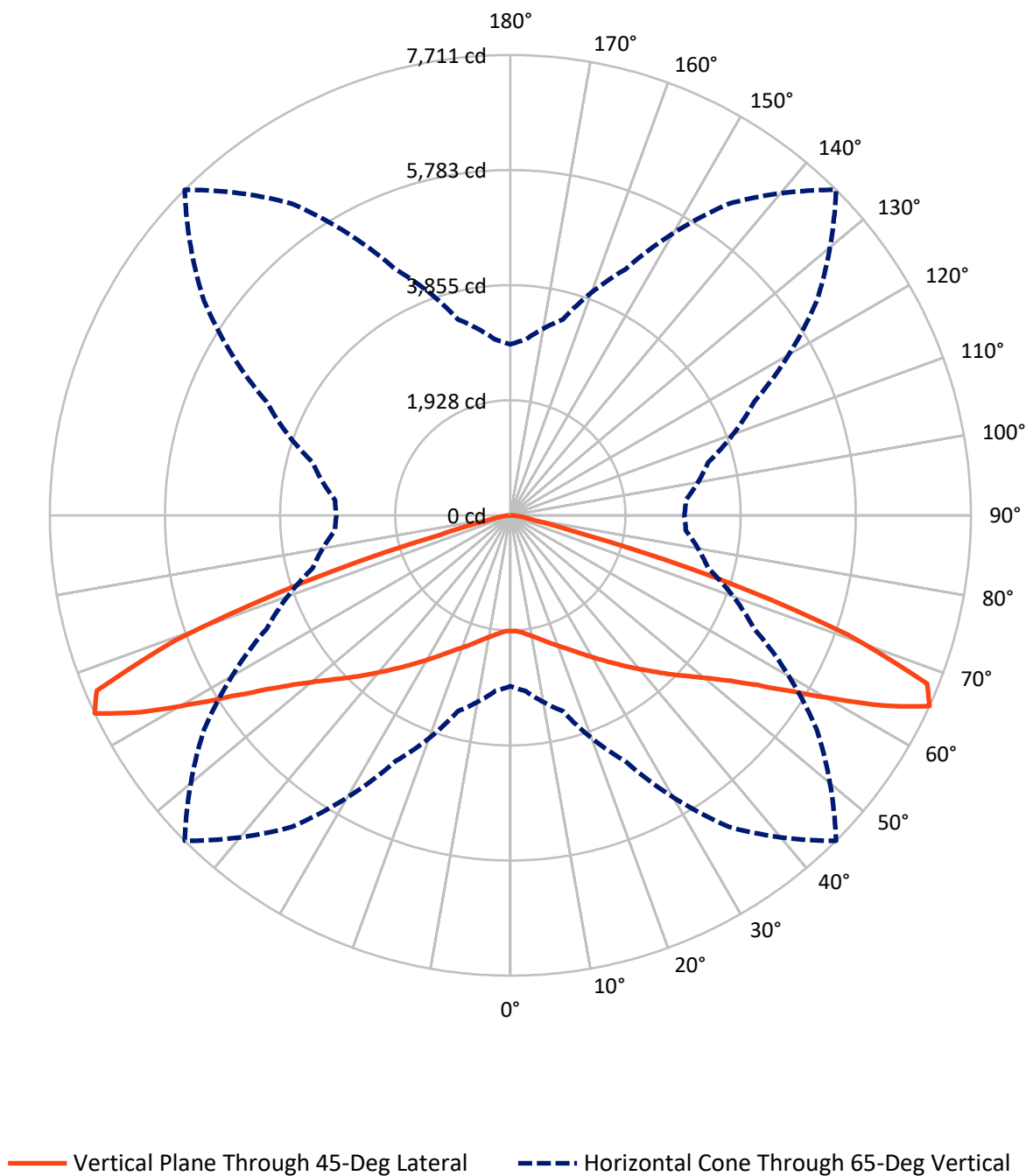
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Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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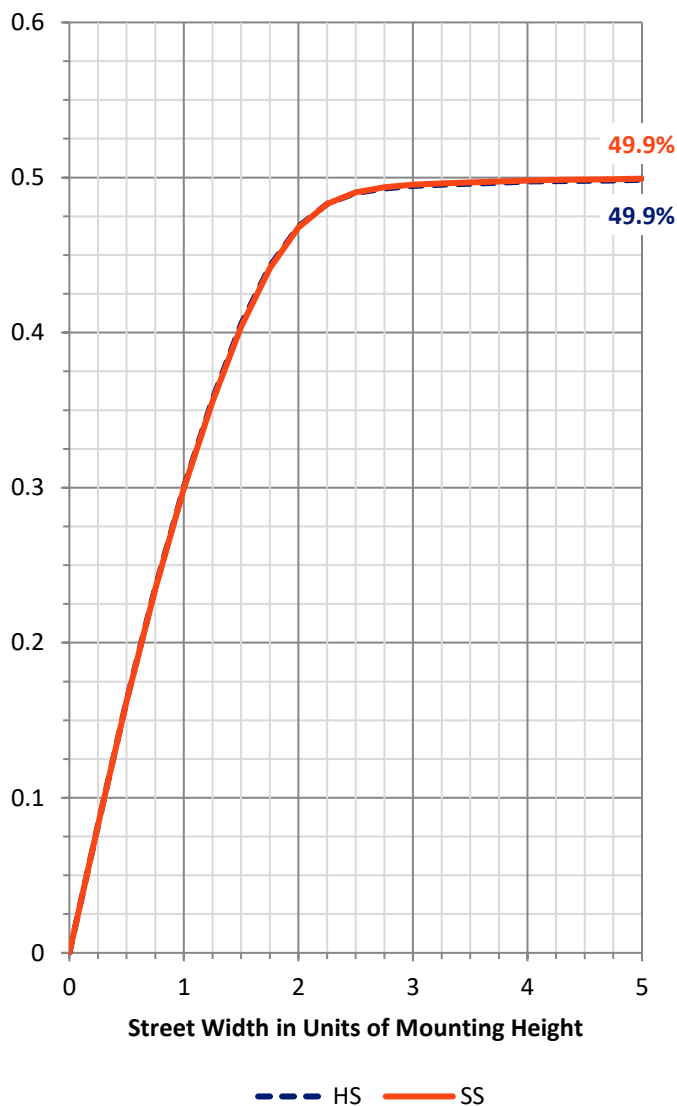
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8152.8	0.0	8152.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8152.8	0.0	8152.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16305.7	0.0	16305.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	1.2
10°-20°	624.9	3.8
20°-30°	1179.9	7.2
30°-40°	1932.1	11.8
40°-50°	2995.7	18.4
50°-60°	4425.3	27.1
60°-70°	4212.5	25.8
70°-80°	679.7	4.2
80°-90°	64.1	0.4
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°	16305.7	100.0
0°-180°	16305.7	100.0

Coefficient of Utilization



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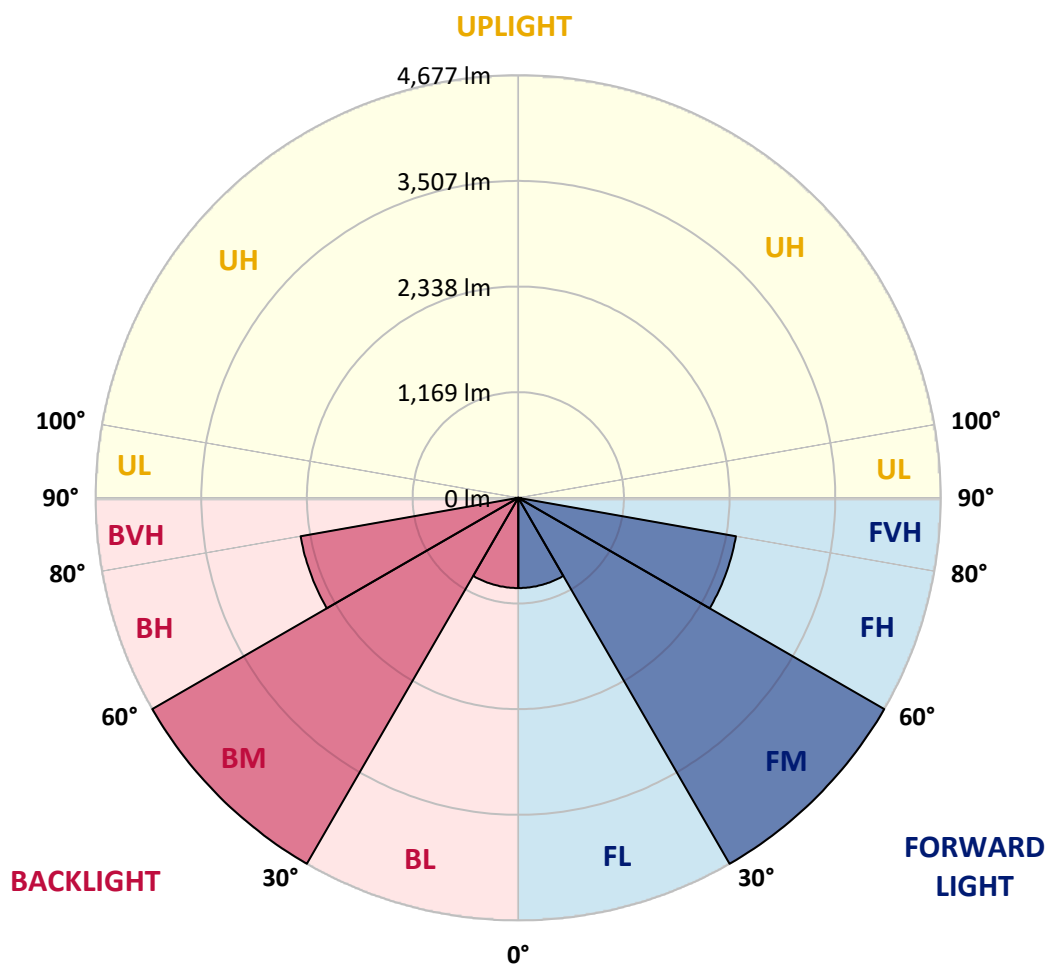
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.2	6.1			
FM	(30°-60°)	4676.5	28.7			
FH	(60°-80°)	2446.1	15.0			G2/5000
FVH	(80°-90°)	32.0	0.2			G1/100
BL	(0°-30°)	998.2	6.1	B2/1000		
BM	(30°-60°)	4676.5	28.7	B3/5000		
BH	(60°-80°)	2446.1	15.0	B3/2500		G2/5000
BVH	(80°-90°)	32.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1940.5	1940.5	1940.5	1940.5	1940.5	1940.5	1940.5	1940.5	1940.5	1940.5	1940.5
2.5°	1953.6	1947.1	1952.0	1947.9	1944.6	1941.4	1943.0	1948.7	1951.2	1952.0	1952.0
5°	1979.8	1974.0	1976.5	1976.5	1970.8	1969.1	1969.9	1974.0	1979.0	1979.0	1979.0
7.5°	2022.3	2016.6	2022.3	2019.0	2014.1	2012.5	2011.8	2014.9	2022.3	2022.3	2019.9
10°	2073.9	2067.3	2070.6	2069.0	2063.2	2060.8	2059.9	2064.9	2071.4	2070.6	2069.0
12.5°	2130.4	2123.0	2127.1	2122.2	2120.5	2118.1	2118.1	2117.2	2121.3	2118.1	2119.7
15°	2193.3	2188.5	2190.0	2186.8	2189.2	2187.7	2181.1	2177.8	2179.5	2174.5	2175.4
17.5°	2267.8	2256.3	2262.1	2260.4	2260.4	2263.7	2253.1	2249.0	2252.2	2247.3	2251.4
20°	2353.7	2342.2	2344.7	2341.4	2337.3	2340.6	2327.5	2330.7	2333.2	2329.9	2337.3
22.5°	2447.8	2433.0	2432.2	2433.9	2424.8	2425.7	2416.6	2424.8	2429.8	2420.7	2429.8
25°	2544.3	2528.8	2539.4	2535.3	2523.9	2526.3	2519.8	2528.0	2532.1	2520.6	2533.7
27.5°	2646.5	2635.9	2645.7	2648.2	2634.2	2644.1	2634.2	2641.6	2645.7	2628.6	2641.6
30°	2766.0	2755.4	2764.3	2770.9	2754.6	2770.1	2762.0	2766.8	2767.6	2747.2	2759.5
32.5°	2896.0	2879.7	2902.6	2905.9	2887.9	2906.7	2896.0	2902.6	2906.7	2878.9	2897.7
35°	3054.8	3034.3	3060.5	3056.4	3040.9	3056.4	3046.6	3056.4	3066.3	3032.7	3053.2
37.5°	3225.8	3204.6	3232.3	3225.0	3210.2	3220.9	3215.1	3221.7	3237.3	3201.3	3223.3
40°	3414.0	3387.7	3425.4	3412.3	3398.4	3396.7	3400.0	3404.1	3424.6	3384.4	3397.6
42.5°	3615.2	3587.4	3643.9	3623.4	3603.7	3590.7	3601.3	3609.4	3629.1	3584.1	3607.8
45°	3845.1	3813.2	3886.8	3862.3	3831.1	3804.2	3821.4	3833.6	3862.3	3808.3	3836.1
47.5°	4098.7	4062.7	4141.2	4133.9	4083.2	4024.3	4063.5	4098.7	4120.0	4054.5	4076.6
50°	4346.6	4318.7	4421.8	4430.9	4368.7	4286.0	4340.9	4394.1	4399.7	4313.8	4324.5
52.5°	4578.9	4551.1	4700.9	4757.2	4701.7	4603.5	4661.6	4715.5	4672.2	4560.9	4564.2
55°	4764.6	4741.8	4932.3	5078.0	5096.8	5015.8	5050.2	5048.5	4906.2	4735.2	4740.9
57.5°	4809.6	4806.3	5046.9	5355.3	5551.6	5561.4	5493.6	5320.2	5013.4	4783.5	4768.7
60°	4605.1	4625.5	4956.1	5500.2	6023.7	6241.3	5947.6	5452.7	4891.4	4572.4	4534.7
62.5°	3993.2	4047.1	4445.5	5323.4	6404.9	7023.4	6311.6	5251.4	4390.8	3974.3	3949.8
65°	2861.7	2955.8	3395.9	4542.9	6370.6	7710.7	6259.3	4506.1	3428.6	2948.4	2913.3
67.5°	1298.4	1394.0	1767.9	3110.5	5537.8	7524.1	5524.6	3143.2	1856.3	1398.9	1378.5
70°	470.4	486.8	607.0	1245.2	3539.1	5995.0	3690.5	1254.2	645.4	518.6	512.1
72.5°	284.7	287.2	312.5	445.9	1229.6	3639.8	1282.0	460.6	319.1	283.1	287.9
75°	180.8	179.2	222.5	272.4	436.0	1227.9	457.4	272.4	221.7	202.0	203.7
77.5°	130.1	134.2	159.5	203.7	274.9	416.5	270.0	194.7	159.5	130.9	133.4
80°	97.4	99.8	116.1	158.7	193.1	259.3	171.8	144.0	120.2	81.8	84.3
82.5°	70.3	70.3	76.1	115.3	117.8	139.9	93.3	101.5	79.3	58.1	58.1
85°	41.7	40.9	47.5	68.7	61.4	51.6	42.5	62.2	49.9	36.0	35.2
87.5°	14.8	15.6	14.8	19.7	16.4	13.9	13.1	17.2	13.9	12.3	11.5
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)