

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: P962598

Luminaire Tested: **NAV-SB2C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962598
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-SB2C-830-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

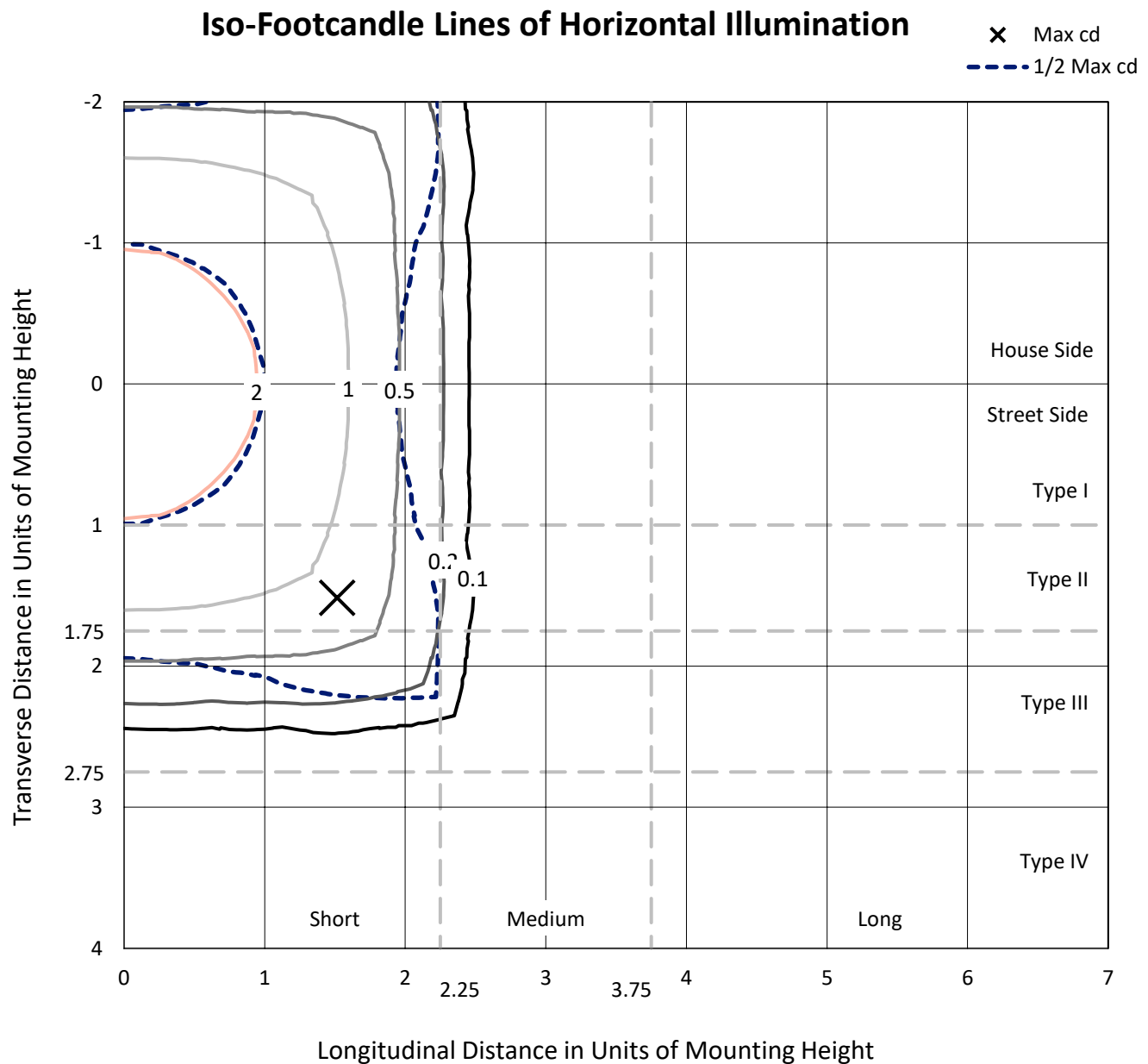
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14454.5 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 100.9
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



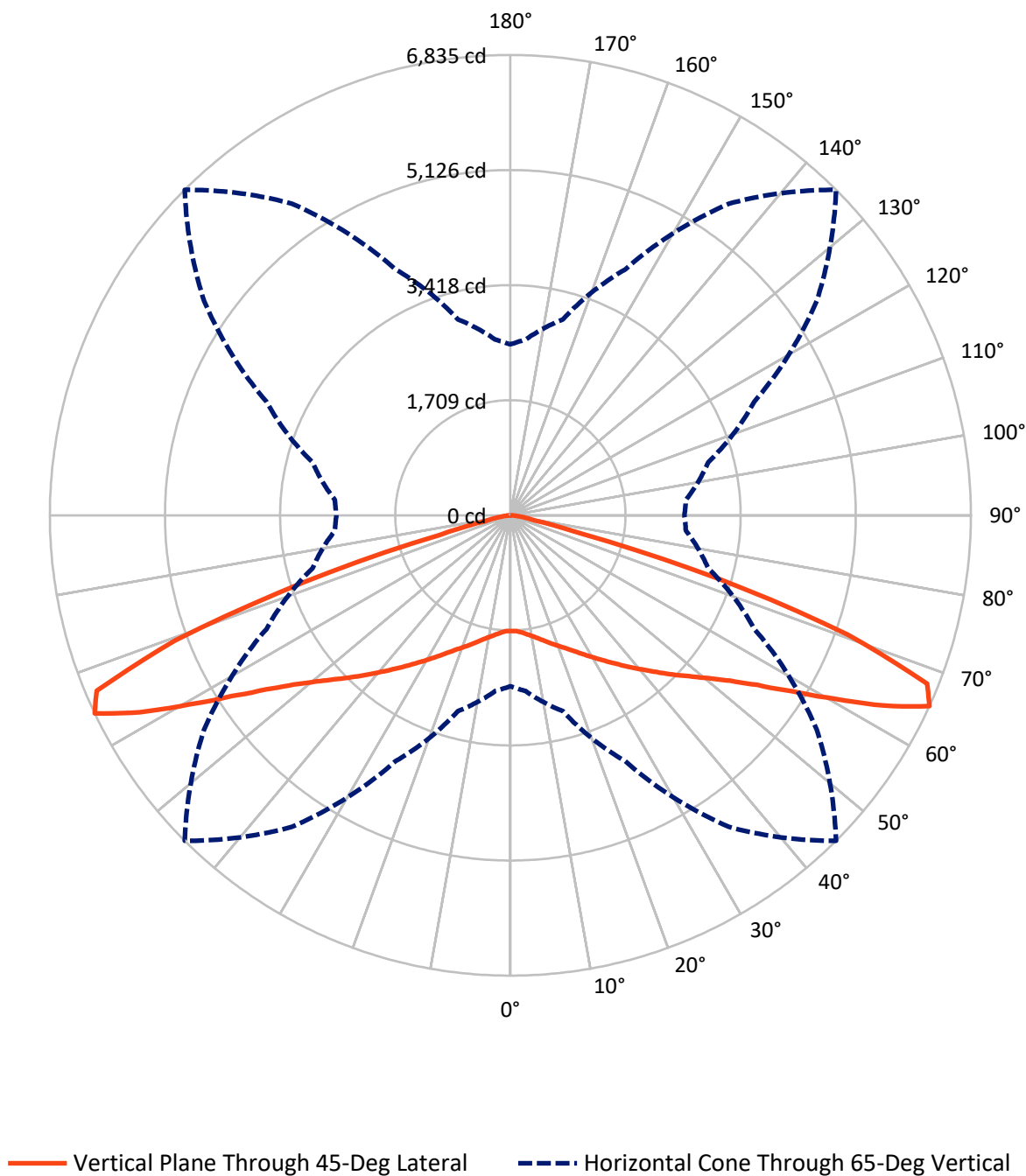
REPORT NUMBER: P962598
CATALOG NUMBER: NAV-SB2C-830-U-5NQ



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Short - N/A

REPORT NUMBER: P962598
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Luminous Intensity Polar Plot



REPORT NUMBER: P962598

CATALOG NUMBER: NAV-SB2C-830-U-5NQ

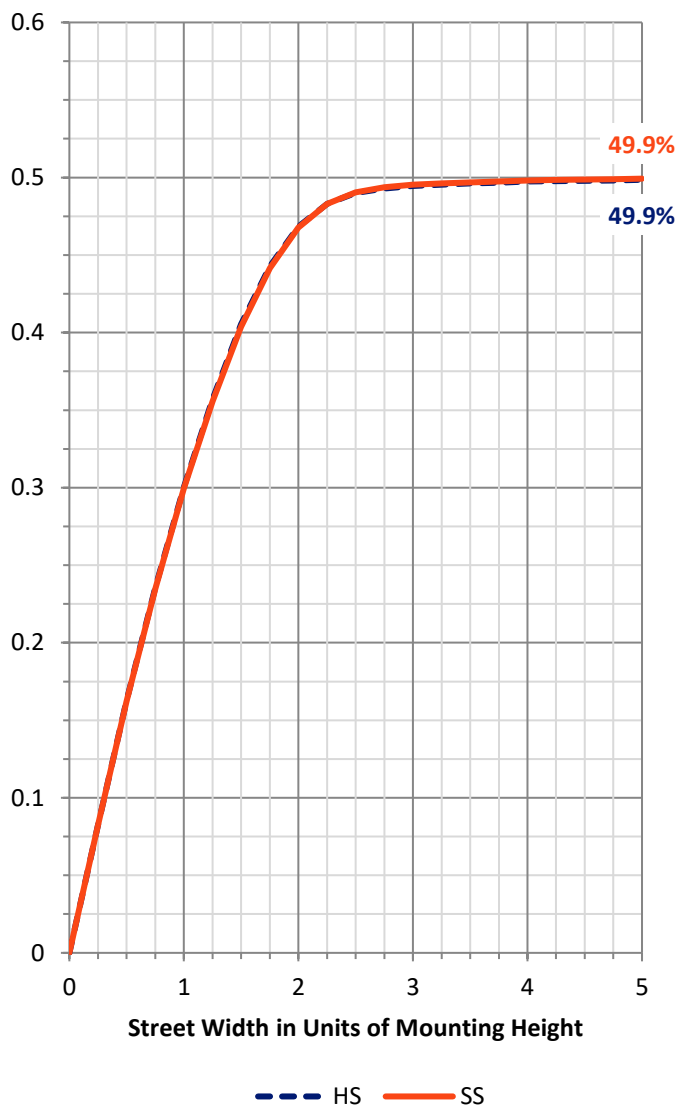
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7227.3	0.0	7227.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7227.3	0.0	7227.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	14454.5	0.0	14454.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	1.2
10°-20°	554.0	3.8
20°-30°	1046.0	7.2
30°-40°	1712.7	11.8
40°-50°	2655.6	18.4
50°-60°	3922.9	27.1
60°-70°	3734.2	25.8
70°-80°	602.6	4.2
80°-90°	56.8	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°	14454.5	100.0
0°-180°	14454.5	100.0

Coefficient of Utilization



REPORT NUMBER: P962598

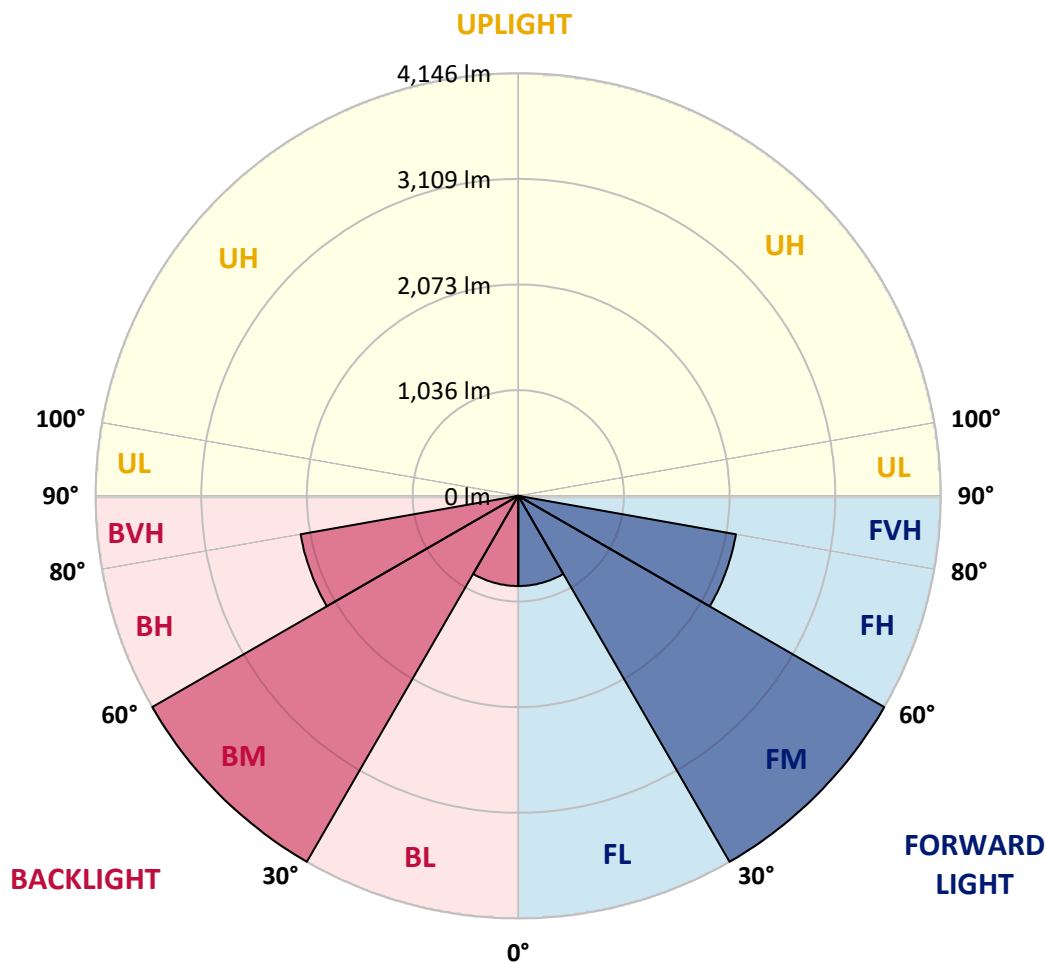
CATALOG NUMBER: NAV-SB2C-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.9	6.1			
FM	(30°-60°)	4145.6	28.7			
FH	(60°-80°)	2168.4	15.0			G2/5000
FVH	(80°-90°)	28.4	0.2			G1/100
BL	(0°-30°)	884.9	6.1	B2/1000		
BM	(30°-60°)	4145.6	28.7	B3/5000		
BH	(60°-80°)	2168.4	15.0	B3/2500		G2/5000
BVH	(80°-90°)	28.4	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



REPORT NUMBER: P962598

CATALOG NUMBER: NAV-SB2C-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1731.8	1726.0	1730.4	1726.7	1723.8	1721.0	1722.4	1727.5	1729.7	1730.4	1730.4
5°	1755.0	1750.0	1752.1	1752.1	1747.1	1745.6	1746.4	1750.0	1754.3	1754.3	1754.3
7.5°	1792.7	1787.7	1792.7	1789.9	1785.6	1784.0	1783.3	1786.3	1792.7	1792.7	1790.6
10°	1838.4	1832.6	1835.6	1834.1	1829.0	1826.9	1826.1	1830.4	1836.3	1835.6	1834.1
12.5°	1888.5	1882.0	1885.6	1881.3	1879.7	1877.6	1877.6	1876.9	1880.5	1877.6	1879.0
15°	1944.3	1940.0	1941.5	1938.5	1940.7	1939.3	1933.5	1930.6	1932.0	1927.6	1928.3
17.5°	2010.3	2000.2	2005.2	2003.8	2003.8	2006.7	1997.3	1993.6	1996.6	1992.2	1995.8
20°	2086.5	2076.3	2078.5	2075.6	2071.9	2074.9	2063.2	2066.2	2068.3	2065.5	2071.9
22.5°	2169.9	2156.8	2156.1	2157.5	2149.5	2150.2	2142.4	2149.5	2153.9	2145.9	2153.9
25°	2255.4	2241.7	2251.1	2247.5	2237.4	2239.5	2233.7	2241.0	2244.5	2234.4	2246.0
27.5°	2346.1	2336.7	2345.4	2347.6	2335.3	2344.0	2335.3	2341.7	2345.4	2330.1	2341.7
30°	2452.0	2442.6	2450.6	2456.3	2441.9	2455.6	2448.3	2452.7	2453.4	2435.3	2446.2
32.5°	2567.3	2552.8	2573.1	2576.0	2560.0	2576.7	2567.3	2573.1	2576.7	2552.0	2568.8
35°	2707.9	2689.9	2713.1	2709.5	2695.6	2709.5	2700.8	2709.5	2718.2	2688.4	2706.5
37.5°	2859.5	2840.7	2865.4	2858.8	2845.8	2855.2	2850.1	2856.0	2869.7	2837.8	2857.4
40°	3026.4	3003.1	3036.6	3024.9	3012.6	3011.1	3014.0	3017.7	3035.8	3000.3	3011.9
42.5°	3204.8	3180.2	3230.2	3212.0	3194.6	3183.0	3192.5	3199.7	3217.1	3177.2	3198.2
45°	3408.5	3380.2	3445.5	3423.8	3396.2	3372.2	3387.5	3398.4	3423.8	3375.9	3400.5
47.5°	3633.4	3601.4	3671.1	3664.6	3619.6	3567.4	3602.2	3633.4	3652.3	3594.3	3613.8
50°	3853.1	3828.5	3919.8	3927.8	3872.8	3799.5	3848.1	3895.2	3900.2	3824.1	3833.5
52.5°	4059.1	4034.4	4167.1	4217.2	4167.9	4080.8	4132.3	4180.2	4141.7	4043.1	4046.1
55°	4223.7	4203.4	4372.3	4501.5	4518.2	4446.3	4476.8	4475.4	4349.2	4197.6	4202.7
57.5°	4263.6	4260.7	4473.9	4747.3	4921.3	4930.0	4869.9	4716.1	4444.2	4240.4	4227.3
60°	4082.3	4100.4	4393.5	4875.7	5339.8	5532.7	5272.4	4833.6	4336.2	4053.3	4019.9
62.5°	3539.8	3587.7	3940.9	4719.0	5677.8	6226.1	5595.2	4655.2	3892.3	3523.1	3501.4
65°	2536.9	2620.2	3010.4	4027.2	5647.3	6835.2	5548.7	3994.5	3039.4	2613.8	2582.5
67.5°	1151.0	1235.7	1567.2	2757.4	4909.0	6669.9	4897.4	2786.4	1645.5	1240.1	1222.0
70°	417.0	431.5	538.1	1103.8	3137.3	5314.4	3271.5	1111.8	572.2	459.8	454.0
72.5°	252.4	254.5	277.1	395.2	1090.0	3226.5	1136.4	408.3	282.8	250.9	255.3
75°	160.3	158.9	197.3	241.5	386.5	1088.6	405.4	241.5	196.5	179.2	180.6
77.5°	115.3	118.9	141.4	180.6	243.6	369.1	239.3	172.6	141.4	116.0	118.2
80°	86.3	88.5	103.0	140.7	171.2	229.9	152.3	127.6	106.6	72.6	74.7
82.5°	62.3	62.3	67.4	102.3	104.4	124.0	82.7	89.9	70.3	51.5	51.5
85°	37.0	36.3	42.0	60.9	54.4	45.7	37.7	55.1	44.3	31.9	31.2
87.5°	13.0	13.7	13.0	17.4	14.6	12.3	11.6	15.3	12.3	10.9	10.1
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)