

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: P968302

Luminaire Tested: **NAV-SB5B-750-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968302
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-SB5B-750-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

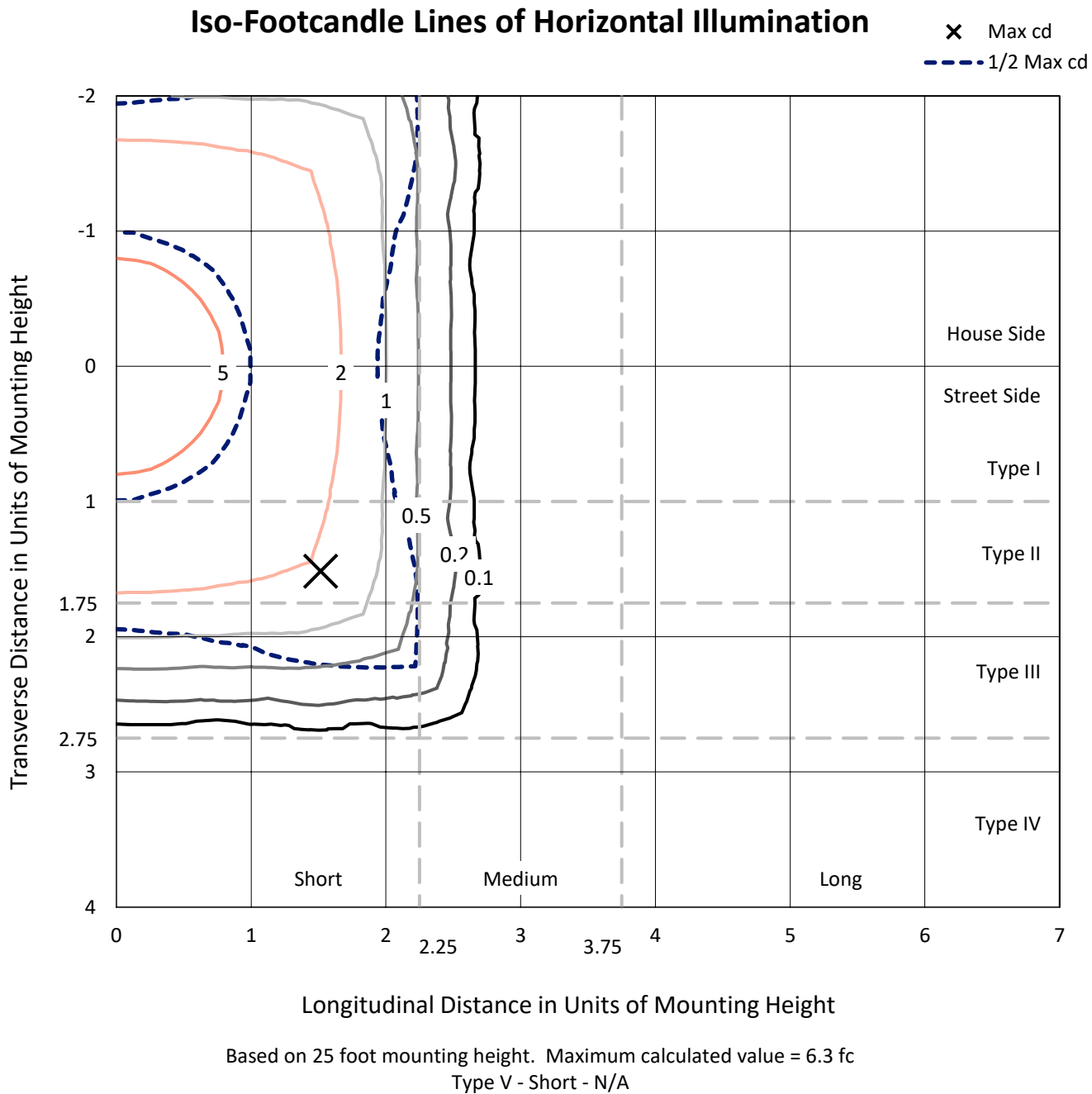
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32323.4 lumens
Efficiency: N/A
Efficacy: 176.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 182.7
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

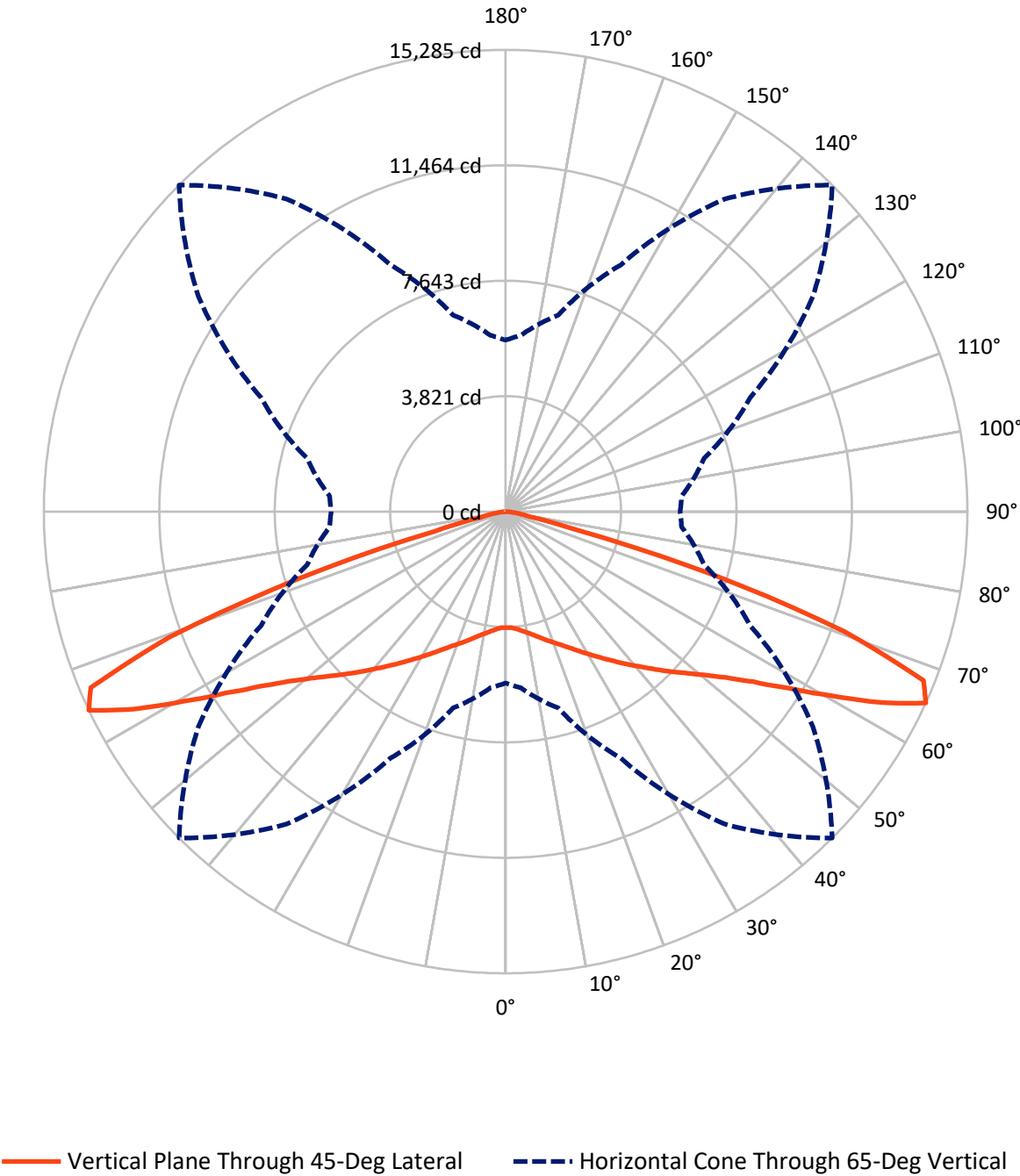


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Luminous Intensity Polar Plot



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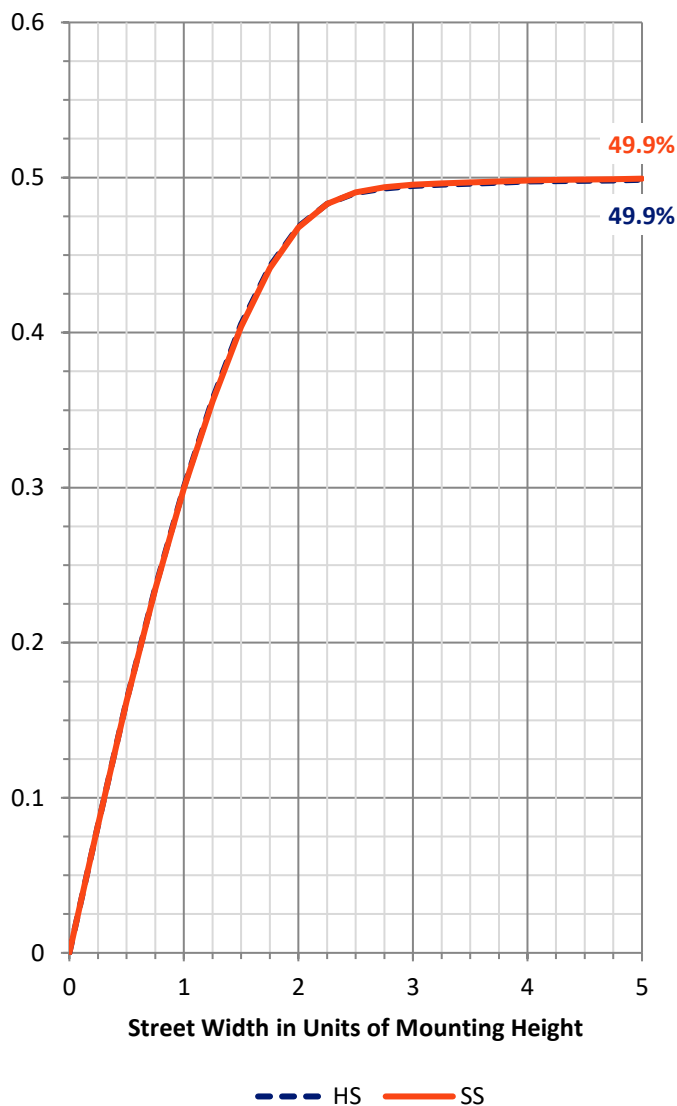
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16161.7	0.0	16161.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16161.7	0.0	16161.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	32323.4	0.0	32323.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.6	1.2
10°-20°	1238.8	3.8
20°-30°	2339.0	7.2
30°-40°	3830.0	11.8
40°-50°	5938.5	18.4
50°-60°	8772.4	27.1
60°-70°	8350.5	25.8
70°-80°	1347.5	4.2
80°-90°	127.0	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°	32323.4	100.0
0°-180°	32323.4	100.0

Coefficient of Utilization



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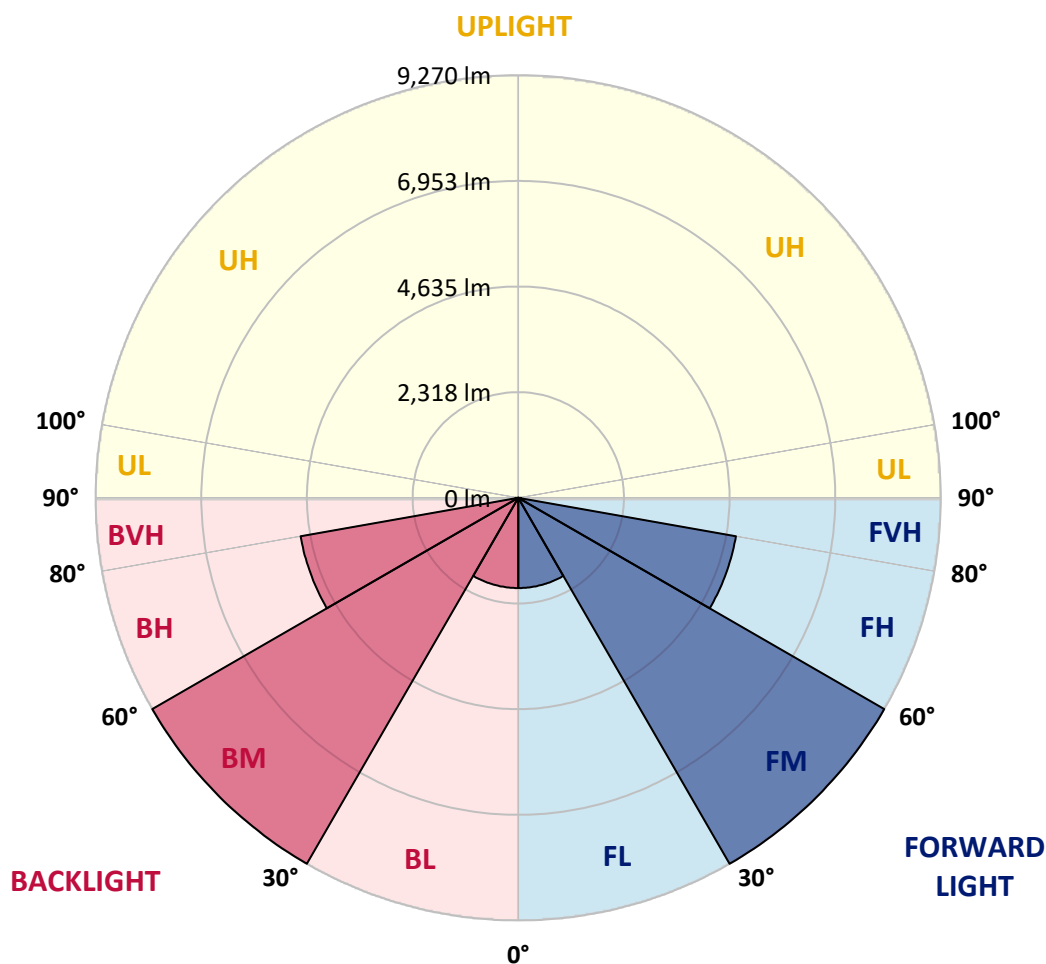
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.7	6.1			
FM	(30°-60°)	9270.5	28.7			
FH	(60°-80°)	4849.0	15.0			G2/5000
FVH	(80°-90°)	63.5	0.2			G1/100
BL	(0°-30°)	1978.7	6.1	B3/2500		
BM	(30°-60°)	9270.5	28.7	B5		
BH	(60°-80°)	4849.0	15.0	B4/5000		G2/5000
BVH	(80°-90°)	63.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8	3846.8
2.5°	3872.8	3859.7	3869.5	3861.4	3854.9	3848.5	3851.6	3863.0	3867.8	3869.5	3869.5
5°	3924.6	3913.3	3918.2	3918.2	3906.8	3903.6	3905.1	3913.3	3923.0	3923.0	3923.0
7.5°	4009.0	3997.6	4009.0	4002.5	3992.8	3989.5	3987.9	3994.4	4009.0	4009.0	4004.2
10°	4111.2	4098.2	4104.7	4101.4	4090.1	4085.2	4083.6	4093.3	4106.3	4104.7	4101.4
12.5°	4223.1	4208.4	4216.5	4206.8	4203.6	4198.7	4198.7	4197.1	4205.2	4198.7	4202.0
15°	4347.9	4338.2	4341.5	4334.9	4339.8	4336.6	4323.6	4317.1	4320.4	4310.6	4312.3
17.5°	4495.5	4472.8	4484.2	4480.9	4480.9	4487.3	4466.3	4458.2	4464.7	4455.0	4463.1
20°	4665.8	4643.0	4648.0	4641.5	4633.3	4639.9	4613.9	4620.4	4625.2	4618.8	4633.3
22.5°	4852.2	4823.1	4821.5	4824.7	4806.8	4808.5	4790.6	4806.8	4816.6	4798.7	4816.6
25°	5043.6	5012.9	5034.0	5025.8	5003.1	5007.9	4995.0	5011.2	5019.3	4996.7	5022.6
27.5°	5246.4	5225.3	5244.7	5249.6	5222.1	5241.5	5222.1	5236.6	5244.7	5210.7	5236.6
30°	5483.1	5462.1	5480.0	5492.9	5460.5	5491.2	5475.0	5484.8	5486.4	5445.8	5470.2
32.5°	5741.0	5708.5	5753.9	5760.5	5724.8	5762.1	5741.0	5753.9	5762.1	5707.0	5744.3
35°	6055.6	6015.1	6067.0	6058.9	6028.0	6058.9	6039.4	6058.9	6078.4	6011.8	6052.4
37.5°	6394.6	6352.4	6407.6	6392.9	6363.8	6384.8	6373.4	6386.5	6417.3	6346.0	6389.7
40°	6767.6	6715.7	6790.3	6764.4	6736.8	6733.5	6740.0	6748.1	6788.7	6709.2	6735.2
42.5°	7166.5	7111.4	7223.3	7182.8	7143.8	7117.9	7138.9	7155.2	7194.1	7104.9	7151.9
45°	7622.2	7559.0	7704.9	7656.3	7594.6	7541.1	7575.3	7599.6	7656.3	7549.2	7604.4
47.5°	8125.0	8053.6	8209.3	8194.8	8094.2	7977.4	8055.3	8125.0	8167.2	8037.4	8081.2
50°	8616.4	8561.2	8765.6	8783.4	8660.2	8496.4	8605.1	8710.4	8721.8	8551.5	8572.6
52.5°	9077.0	9021.8	9318.6	9430.5	9320.2	9125.6	9240.8	9347.8	9261.8	9041.3	9047.8
55°	9445.1	9399.7	9777.6	10066.2	10103.5	9943.0	10011.1	10007.9	9725.7	9386.7	9398.1
57.5°	9534.3	9527.8	10004.6	10616.0	11005.2	11024.7	10890.1	10546.3	9938.1	9482.4	9453.2
60°	9128.9	9169.4	9824.6	10903.0	11940.9	12372.4	11790.2	10809.0	9696.5	9064.0	8989.4
62.5°	7915.8	8022.8	8812.6	10552.8	12696.8	13922.8	12511.9	10410.0	8704.0	7878.5	7829.9
65°	5672.9	5859.4	6731.9	9005.6	12628.6	15285.0	12408.0	8932.7	6796.8	5844.9	5775.1
67.5°	2573.8	2763.5	3504.6	6165.9	10977.6	14915.3	10951.7	6230.8	3679.7	2773.2	2732.6
70°	932.5	964.9	1203.4	2468.3	7015.7	11884.3	7315.7	2486.1	1279.6	1028.2	1015.3
72.5°	564.4	569.3	619.5	883.9	2437.4	7215.2	2541.3	913.1	632.5	561.1	570.8
75°	358.4	355.2	441.2	540.1	864.4	2434.3	906.6	540.1	439.5	400.6	403.8
77.5°	257.9	266.0	316.2	403.8	544.9	825.4	535.2	386.0	316.2	259.5	264.3
80°	193.0	197.8	230.3	314.6	382.7	514.1	340.6	285.5	238.4	162.2	167.1
82.5°	139.5	139.5	150.8	228.7	233.5	277.4	184.9	201.1	157.3	115.1	115.1
85°	82.7	81.1	94.1	136.2	121.7	102.2	84.4	123.2	98.9	71.3	69.7
87.5°	29.2	30.9	29.2	38.9	32.4	27.6	25.9	34.0	27.6	24.3	22.8
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)