

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: P971432

Luminaire Tested: **NAV-SB6D-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

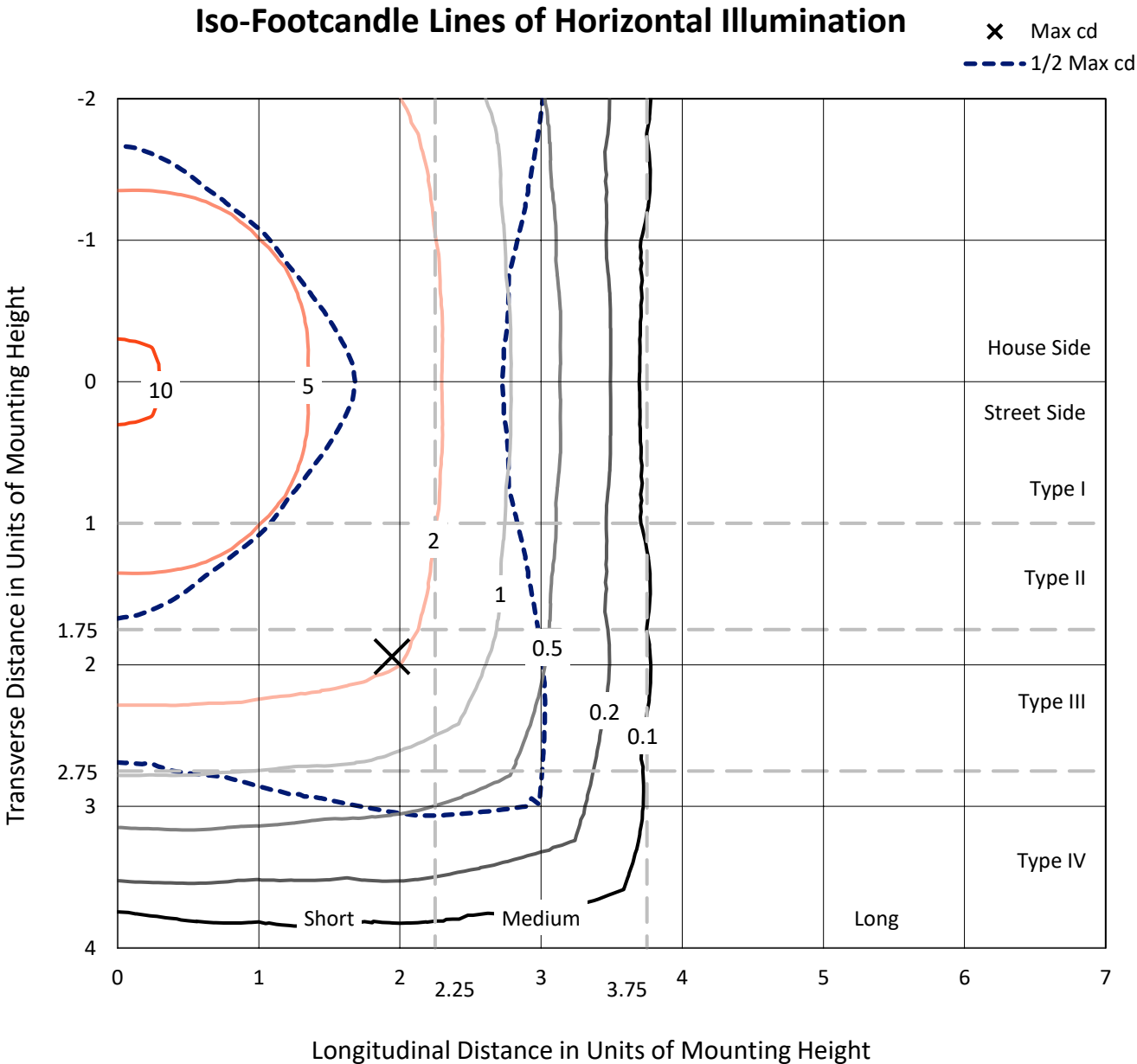
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70080.3 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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



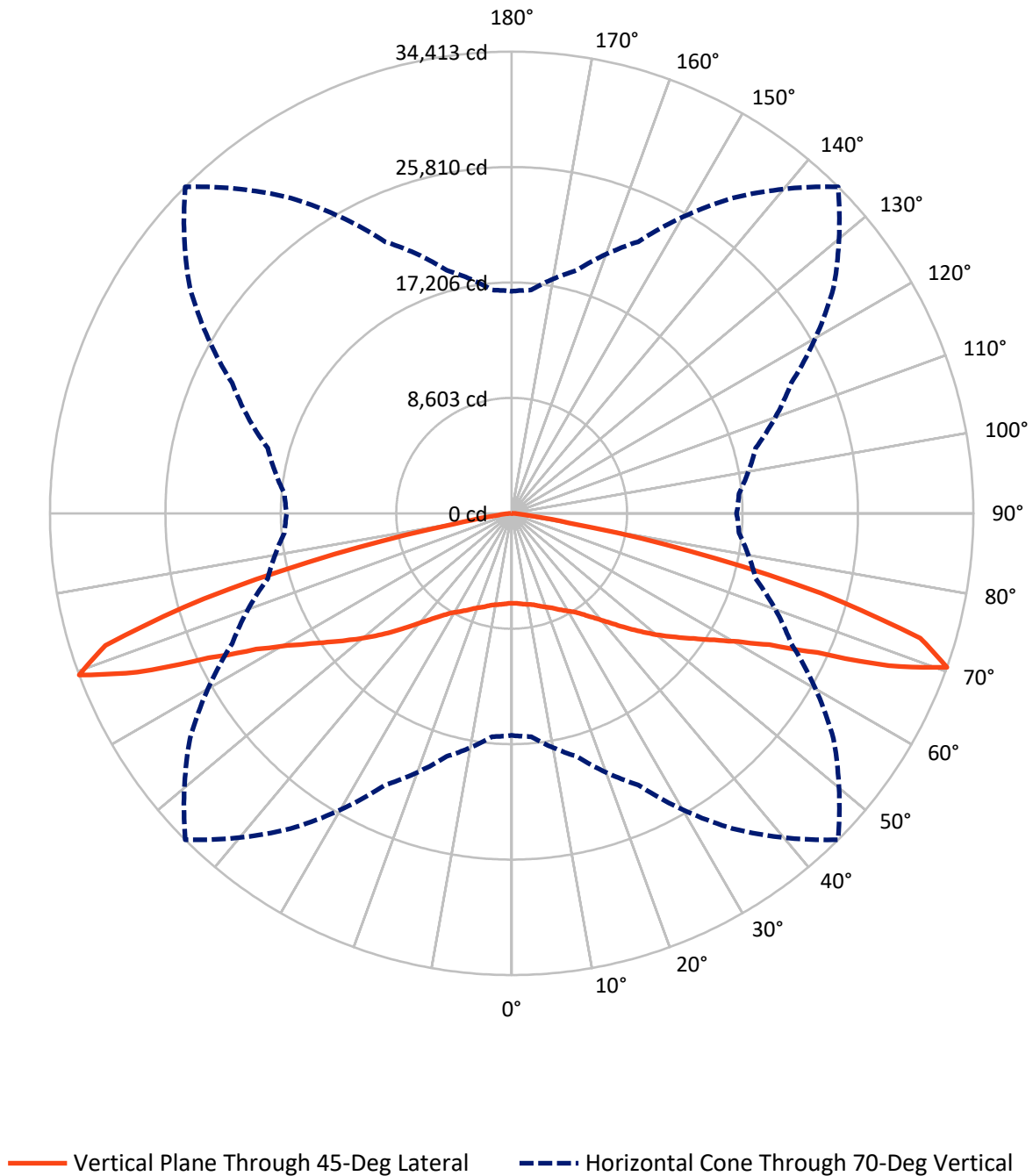
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Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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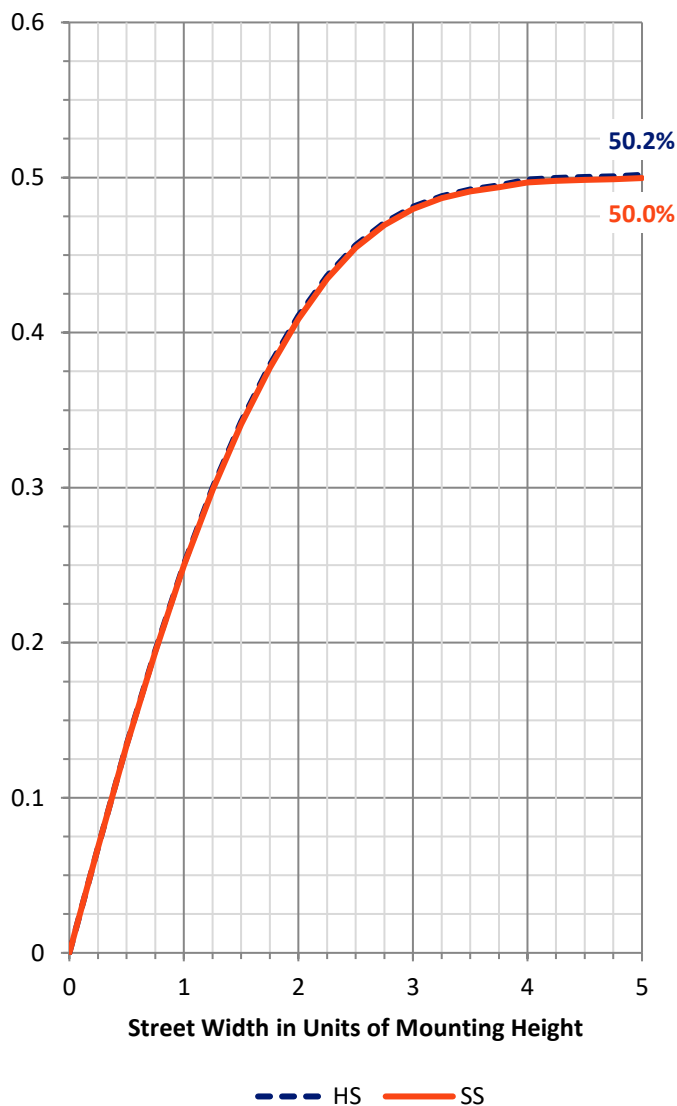
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35040.1	0.0	35040.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35040.1	0.0	35040.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	70080.3	0.0	70080.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.2	0.9
10°-20°	2022.3	2.9
20°-30°	3614.1	5.2
30°-40°	5858.4	8.4
40°-50°	9542.3	13.6
50°-60°	14548.8	20.8
60°-70°	21643.9	30.9
70°-80°	11796.7	16.8
80°-90°	401.7	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°	70080.3	100.0
0°-180°	70080.3	100.0

Coefficient of Utilization



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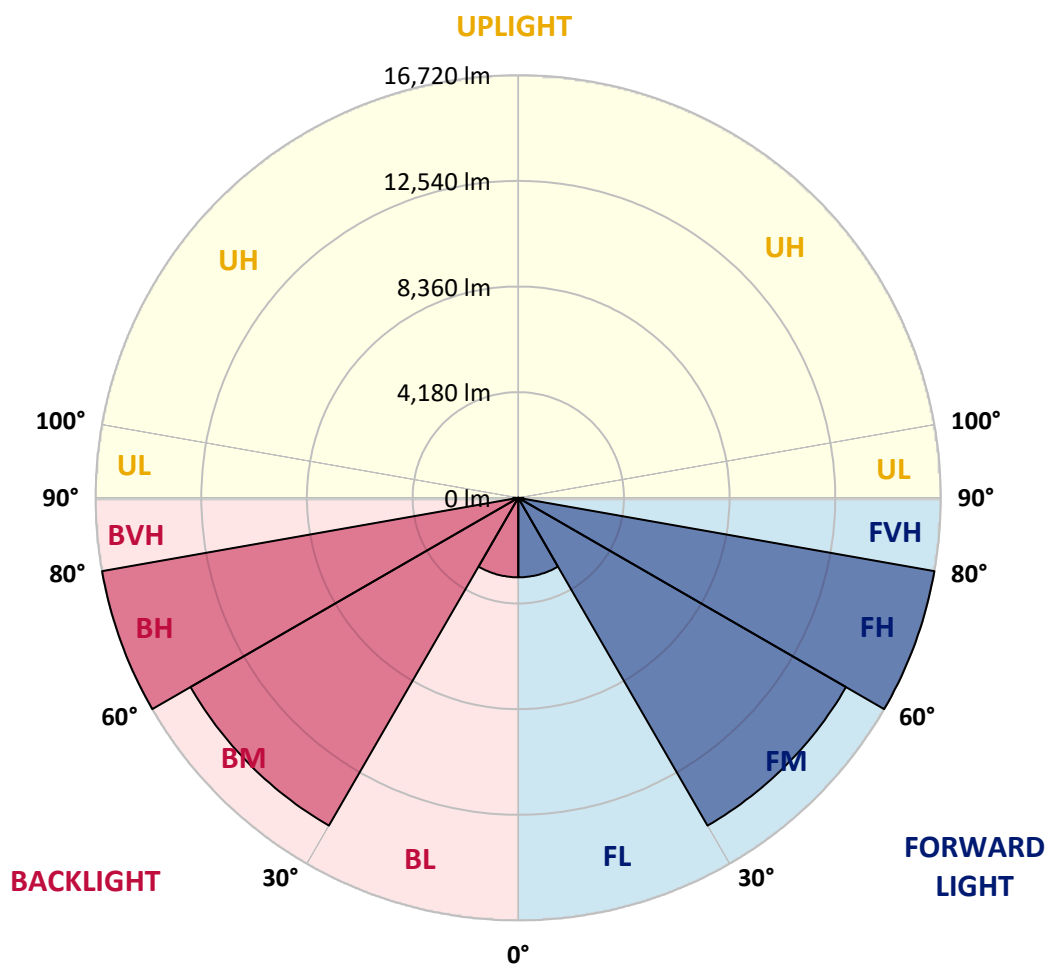
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3144.3	4.5			
FM	(30°-60°)	14974.7	21.4			
FH	(60°-80°)	16720.3	23.9			G5
FVH	(80°-90°)	200.9	0.3			G2/225
BL	(0°-30°)	3144.3	4.5	B4/5000		
BM	(30°-60°)	14974.7	21.4	B5		
BH	(60°-80°)	16720.3	23.9	B5		G5
BVH	(80°-90°)	200.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6712.9	6712.9	6712.9	6712.9	6712.9	6712.9	6712.9	6712.9	6712.9	6712.9	6712.9
2.5°	6744.6	6751.7	6737.6	6730.6	6723.5	6712.9	6716.5	6734.0	6748.2	6744.6	6748.2
5°	6800.9	6807.9	6797.4	6793.9	6779.9	6776.3	6776.3	6793.9	6804.5	6797.4	6800.9
7.5°	6864.2	6874.8	6857.2	6853.7	6846.7	6839.6	6836.1	6853.7	6864.2	6864.2	6864.2
10°	6924.1	6934.6	6920.6	6910.0	6903.0	6903.0	6895.9	6910.0	6927.6	6924.1	6924.1
12.5°	6987.4	6994.4	6980.4	6973.3	6973.3	6983.8	6973.3	6980.4	6994.4	6987.4	6983.8
15°	7064.8	7068.3	7064.8	7075.4	7092.9	7128.2	7096.5	7089.4	7096.5	7078.9	7078.9
17.5°	7170.4	7177.4	7191.5	7216.1	7240.7	7304.0	7247.8	7230.1	7230.1	7195.0	7195.0
20°	7300.6	7311.1	7332.2	7374.4	7406.0	7465.9	7409.6	7384.9	7374.4	7328.6	7328.6
22.5°	7437.7	7455.3	7487.0	7543.3	7599.6	7655.8	7599.6	7557.3	7525.7	7465.9	7462.4
25°	7596.1	7617.2	7666.4	7757.9	7835.3	7916.3	7849.3	7765.0	7701.6	7617.2	7613.7
27.5°	7821.3	7845.9	7905.7	8018.3	8116.8	8187.2	8123.8	8014.8	7926.8	7824.7	7821.3
30°	8137.9	8162.5	8232.9	8352.5	8419.3	8465.1	8422.8	8338.5	8232.9	8116.8	8116.8
32.5°	8546.0	8577.7	8655.1	8767.6	8781.8	8788.8	8774.7	8732.5	8655.1	8514.4	8517.9
35°	9063.3	9098.4	9186.4	9277.8	9263.7	9277.8	9256.7	9242.6	9186.4	9024.5	9024.5
37.5°	9696.5	9738.7	9830.2	9900.6	9865.4	9847.8	9851.3	9854.9	9823.2	9643.7	9643.7
40°	10431.8	10488.1	10554.9	10628.8	10569.1	10516.3	10551.5	10579.6	10551.5	10368.5	10368.5
42.5°	11188.3	11269.2	11339.6	11445.2	11395.8	11329.0	11378.2	11409.9	11350.1	11153.1	11167.2
45°	12029.2	12106.6	12198.0	12356.4	12321.2	12250.8	12321.2	12328.2	12226.2	11993.9	12018.6
47.5°	12898.2	12979.1	13116.3	13327.5	13313.3	13235.9	13327.5	13278.2	13148.0	12870.0	12852.5
50°	13721.5	13834.0	14045.2	14340.7	14368.9	14273.8	14396.9	14302.0	14083.8	13735.5	13728.5
52.5°	14495.6	14615.2	14949.3	15350.5	15452.5	15329.4	15494.7	15329.4	15002.1	14555.3	14513.1
55°	15308.3	15441.9	15839.5	16363.7	16567.8	16476.4	16631.1	16381.3	15916.9	15375.1	15301.2
57.5°	16265.2	16346.2	16821.1	17443.9	17788.7	17809.8	17880.1	17457.9	16895.0	16279.3	16194.9
60°	17303.1	17415.7	17932.9	18678.8	19224.1	19400.1	19326.2	18699.9	18045.5	17338.3	17225.7
62.5°	18633.1	18756.2	19375.4	20269.1	21131.1	21567.3	21278.8	20371.1	19561.9	18713.9	18566.2
65°	19734.3	19871.5	20990.4	22584.1	24153.3	25029.4	24304.6	22633.4	21176.8	19980.5	19783.5
67.5°	18935.6	19104.5	20860.2	23787.4	27689.2	30303.3	27822.9	24146.2	21292.9	19671.0	19428.2
70°	16550.2	16708.5	18756.2	22334.3	28684.9	34412.7	29283.0	22992.3	18823.0	17007.6	16764.8
72.5°	10987.7	11497.9	13570.2	17862.6	25613.4	31844.4	25866.7	17500.1	12588.5	10963.1	10607.7
75°	3645.0	4053.2	5467.5	9260.3	17155.3	23815.6	16332.0	8194.2	4331.0	3117.2	2948.3
77.5°	918.3	1059.0	1460.1	2649.3	6843.1	13559.6	6160.6	2163.8	1178.6	823.3	735.3
80°	446.8	492.6	703.7	883.1	1713.4	4309.9	1607.9	830.4	555.9	429.3	394.0
82.5°	246.3	249.8	397.6	499.6	636.8	1115.3	661.4	485.5	320.2	260.3	260.3
85°	151.3	147.8	211.2	267.4	267.4	397.6	316.6	267.4	183.0	161.8	168.9
87.5°	59.9	59.9	77.4	84.5	73.9	102.0	80.9	87.9	70.4	66.8	70.4
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)