

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: P963109

Luminaire Tested: **NAV-SB2D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

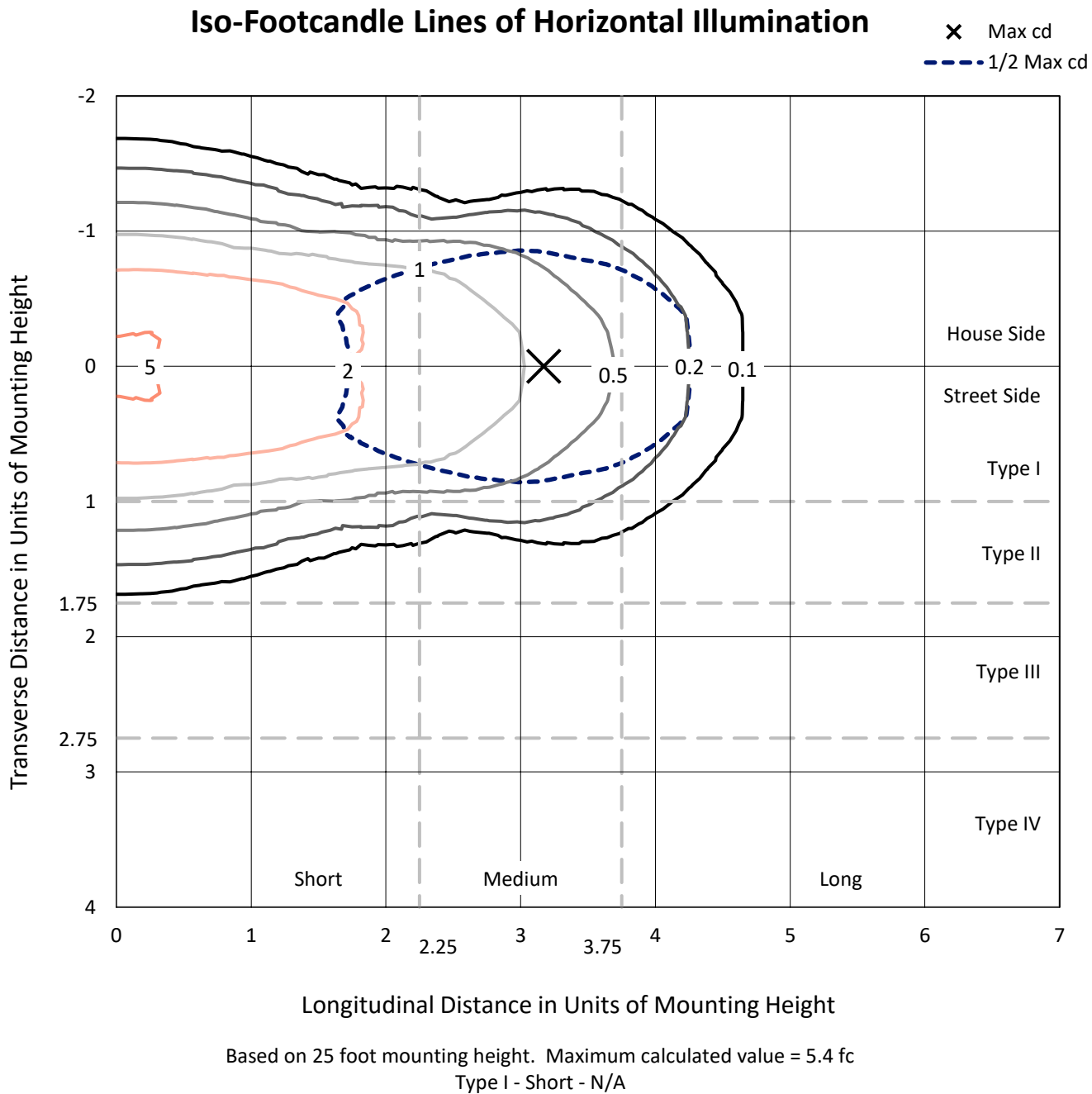
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17943.7 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 147.6
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

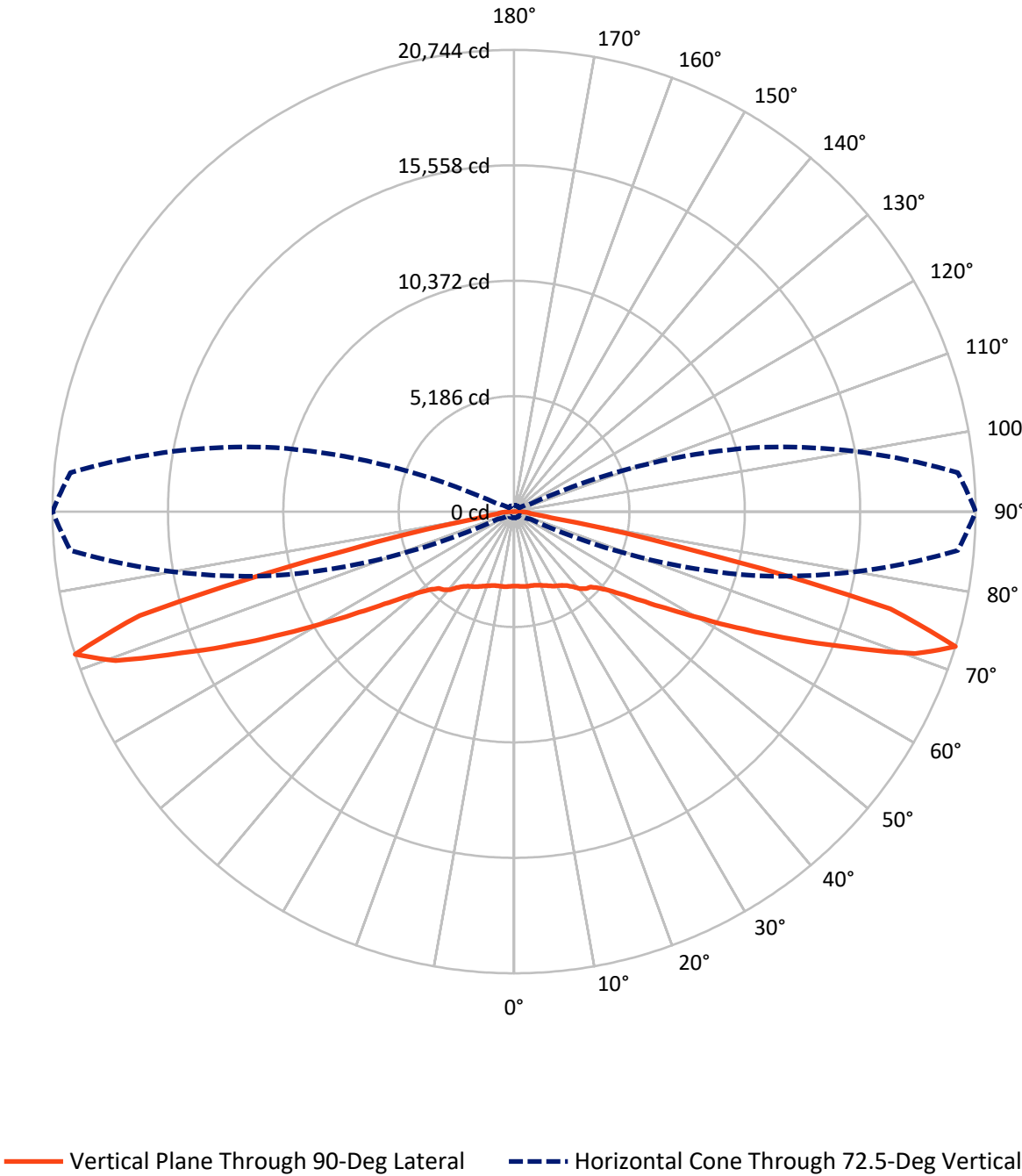


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Luminous Intensity Polar Plot



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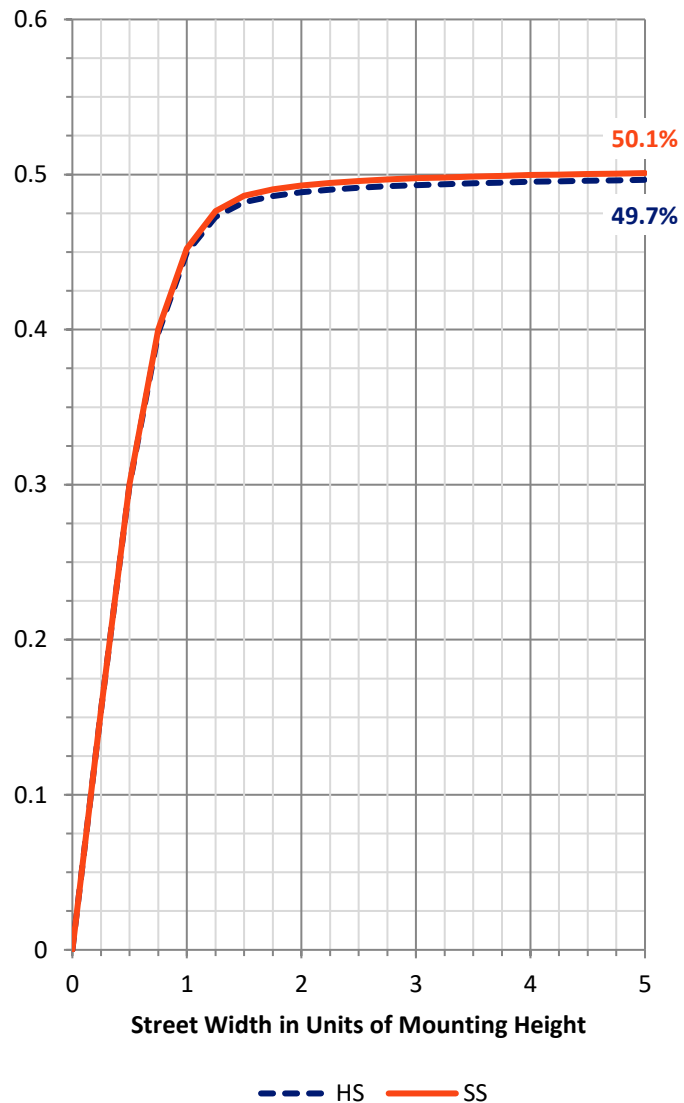
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8971.8	0.0	8971.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8971.8	0.0	8971.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17943.7	0.0	17943.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.1	1.8
10°-20°	994.1	5.5
20°-30°	1657.5	9.2
30°-40°	2279.6	12.7
40°-50°	2784.0	15.5
50°-60°	3220.0	17.9
60°-70°	3839.3	21.4
70°-80°	2679.6	14.9
80°-90°	164.6	0.9
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°	17943.7	100.0
0°-180°	17943.7	100.0

Coefficient of Utilization



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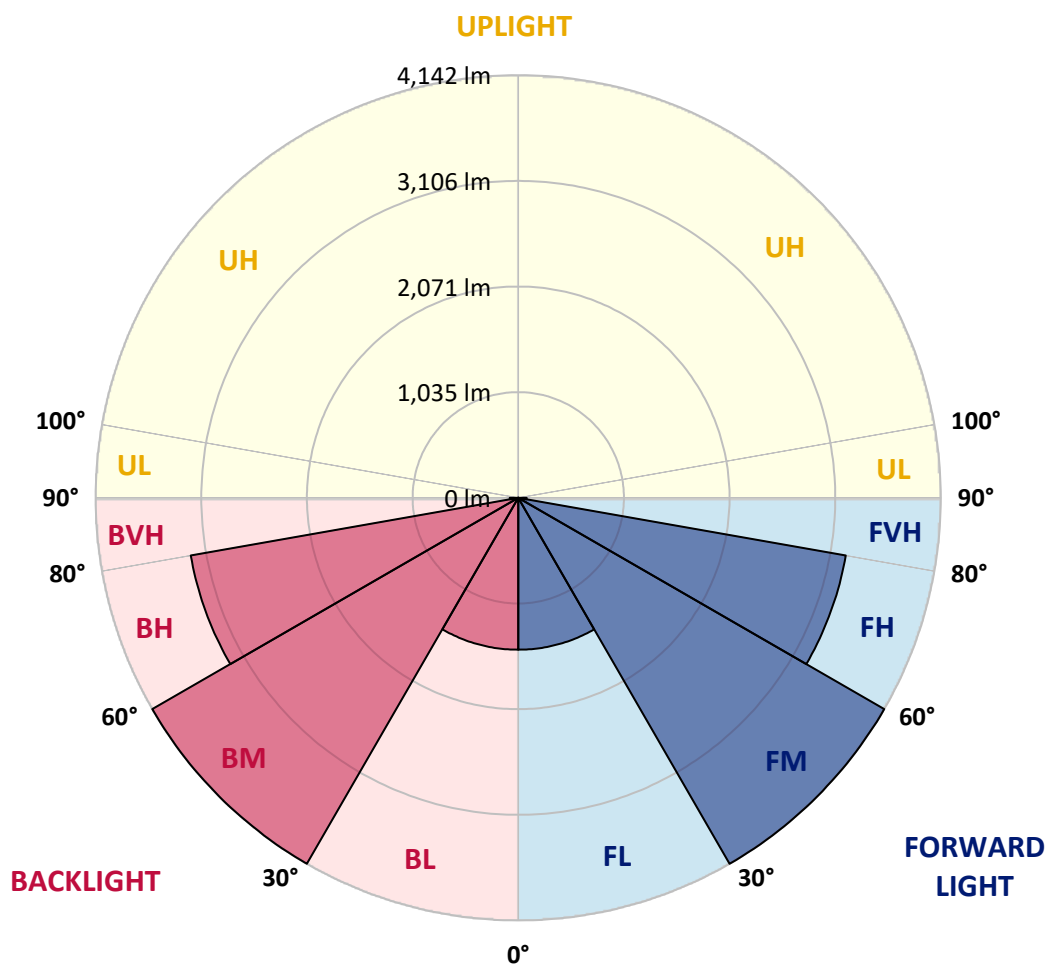
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1488.3	8.3			
FM	(30°-60°)	4141.8	23.1			
FH	(60°-80°)	3259.4	18.2			G2/5000
FVH	(80°-90°)	82.3	0.5			G1/100
BL	(0°-30°)	1488.3	8.3	B3/2500		
BM	(30°-60°)	4141.8	23.1	B3/5000		
BH	(60°-80°)	3259.4	18.2	B4/5000		G4/5000
BVH	(80°-90°)	82.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0
2.5°	3355.8	3359.6	3359.6	3356.8	3363.4	3357.7	3357.7	3354.8	3357.7	3354.8	3354.8
5°	3373.0	3377.8	3379.6	3378.7	3387.3	3382.5	3382.5	3378.7	3379.6	3376.8	3376.8
7.5°	3405.5	3412.1	3415.9	3420.6	3433.0	3427.3	3423.5	3412.1	3407.3	3399.7	3399.7
10°	3415.9	3423.5	3435.9	3460.7	3489.3	3490.3	3478.8	3450.3	3428.3	3411.1	3408.2
12.5°	3383.5	3394.0	3419.7	3470.2	3534.2	3559.9	3541.8	3494.1	3451.2	3420.6	3415.9
15°	3342.4	3353.9	3393.1	3469.3	3563.7	3623.8	3621.8	3558.9	3490.3	3442.6	3435.0
17.5°	3278.6	3290.0	3346.3	3453.1	3586.6	3685.8	3712.4	3647.7	3551.3	3487.5	3476.9
20°	3163.1	3173.7	3251.9	3401.6	3594.3	3751.6	3821.2	3764.0	3643.8	3557.1	3540.9
22.5°	3013.5	3029.7	3121.2	3312.9	3576.1	3820.3	3945.1	3906.1	3751.6	3631.4	3609.5
25°	2853.3	2870.4	2977.2	3204.1	3529.4	3869.8	4092.0	4067.2	3873.7	3723.9	3693.4
27.5°	2715.0	2733.1	2849.4	3096.4	3456.9	3888.8	4236.9	4249.3	4021.5	3825.9	3793.5
30°	2606.3	2623.4	2747.4	3009.6	3363.4	3869.8	4363.8	4449.6	4172.2	3914.7	3867.9
32.5°	2487.1	2509.0	2639.7	2903.8	3252.8	3824.1	4474.4	4666.1	4346.6	4010.0	3950.9
35°	2336.4	2356.4	2493.7	2758.9	3107.9	3750.6	4566.9	4906.5	4596.5	4154.9	4089.1
37.5°	2153.3	2172.4	2308.7	2577.7	2963.9	3647.7	4637.5	5177.3	4894.1	4363.8	4276.1
40°	1969.2	1987.4	2115.2	2375.5	2791.3	3516.1	4662.3	5442.3	5235.4	4650.8	4557.4
42.5°	1800.4	1816.7	1934.0	2176.2	2597.7	3348.2	4629.8	5673.2	5541.6	4851.1	4731.0
45°	1645.0	1659.3	1763.3	1989.3	2396.4	3144.1	4532.5	5921.1	5905.8	4994.1	4832.1
47.5°	1467.6	1481.9	1589.7	1808.1	2195.2	2904.7	4367.6	6165.2	6412.2	5318.4	5131.5
50°	1251.1	1263.5	1374.2	1599.2	1986.4	2650.1	4138.7	6356.8	7051.2	5809.5	5574.9
52.5°	994.7	1008.0	1115.7	1340.8	1738.5	2376.5	3837.4	6481.8	7789.3	6526.7	6237.7
55°	740.0	749.6	843.0	1045.2	1431.4	2064.7	3459.8	6517.1	8626.5	7507.0	7145.6
57.5°	536.9	542.6	602.7	753.4	1085.3	1674.5	3001.1	6425.5	9623.1	8763.9	8309.0
60°	434.8	436.8	454.9	521.6	754.3	1234.0	2447.0	6110.8	10704.5	10384.1	9810.9
62.5°	394.8	394.8	399.5	417.7	510.1	814.4	1776.6	5458.5	11864.1	12431.5	11663.9
65°	367.2	367.2	369.1	377.6	402.4	518.8	1121.5	4396.2	12841.6	14829.9	13859.1
67.5°	342.3	343.3	342.3	345.2	359.5	383.3	650.4	3036.4	13367.9	17315.0	16267.1
70°	316.6	318.5	313.8	313.8	325.2	326.2	407.2	1665.0	12931.2	19397.8	19122.2
72.5°	286.1	288.9	281.4	279.4	288.0	284.2	306.1	799.2	11102.2	20019.6	20744.3
75°	259.4	263.2	246.0	241.3	241.3	238.4	248.9	410.1	7205.6	16330.9	17467.6
77.5°	235.5	243.1	215.6	200.3	196.5	187.9	203.2	250.8	3151.8	7667.2	7507.9
80°	194.5	205.0	177.3	159.3	152.6	143.1	160.2	175.5	937.5	1780.4	1705.1
82.5°	144.9	149.8	125.9	113.5	107.7	101.1	120.1	122.1	305.1	630.4	712.4
85°	92.5	94.4	77.3	66.7	63.9	61.0	76.3	66.7	116.3	463.5	673.2
87.5°	32.4	37.2	29.5	26.8	28.6	23.9	35.3	20.0	32.4	327.1	405.3
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)