

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: P966787

Luminaire Tested: **NAV-SB4C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

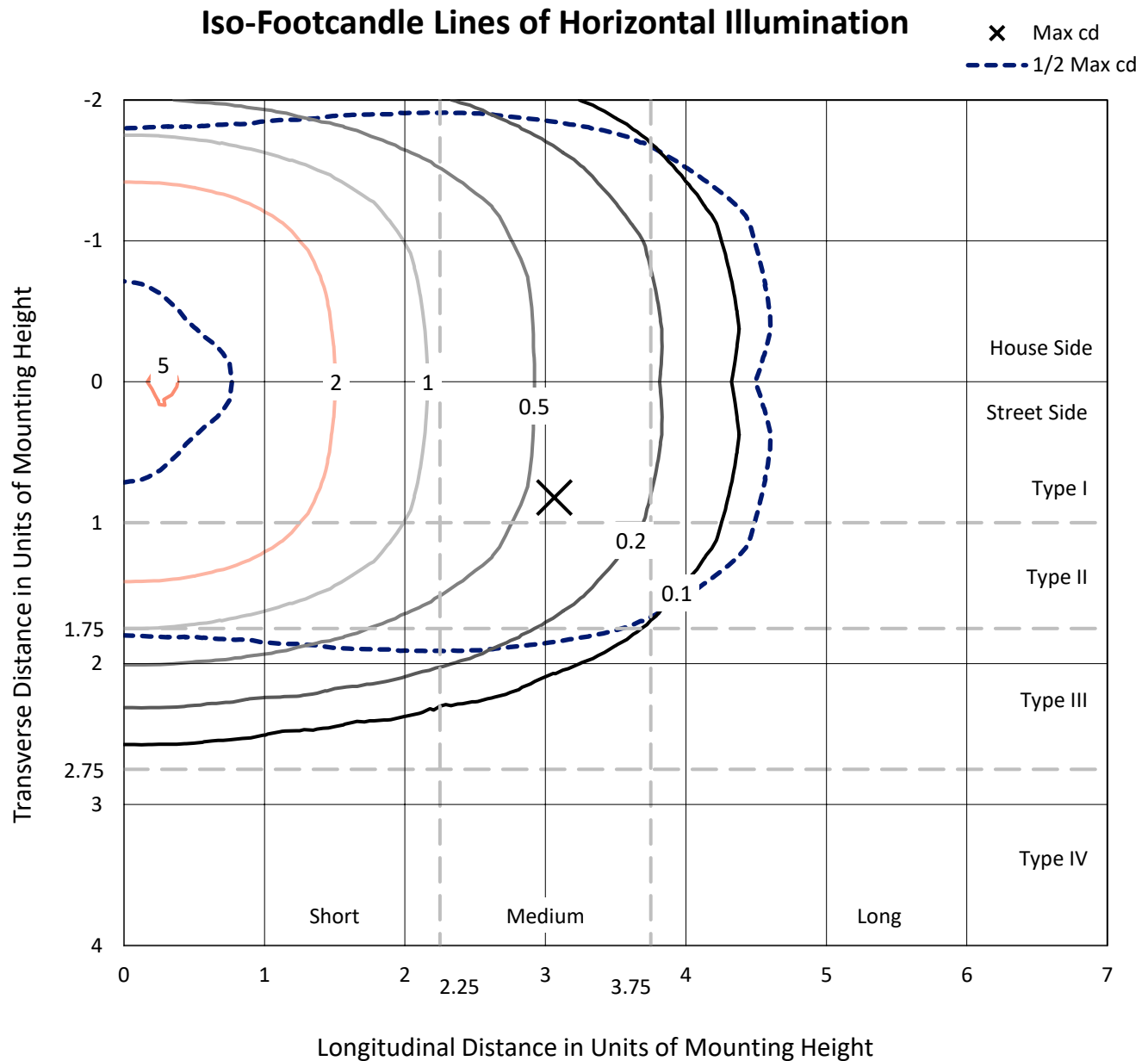
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27547.9 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 200.7
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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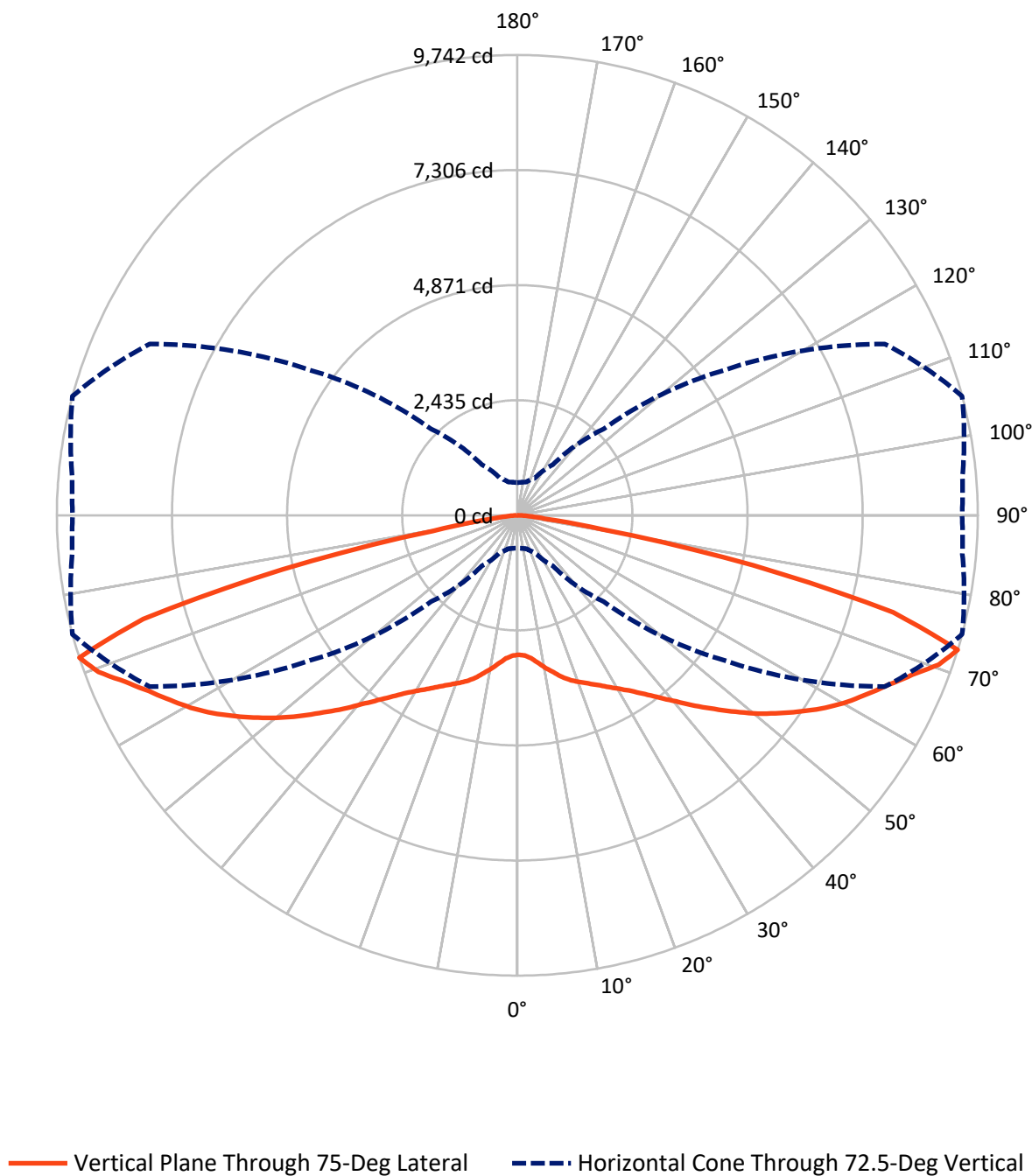


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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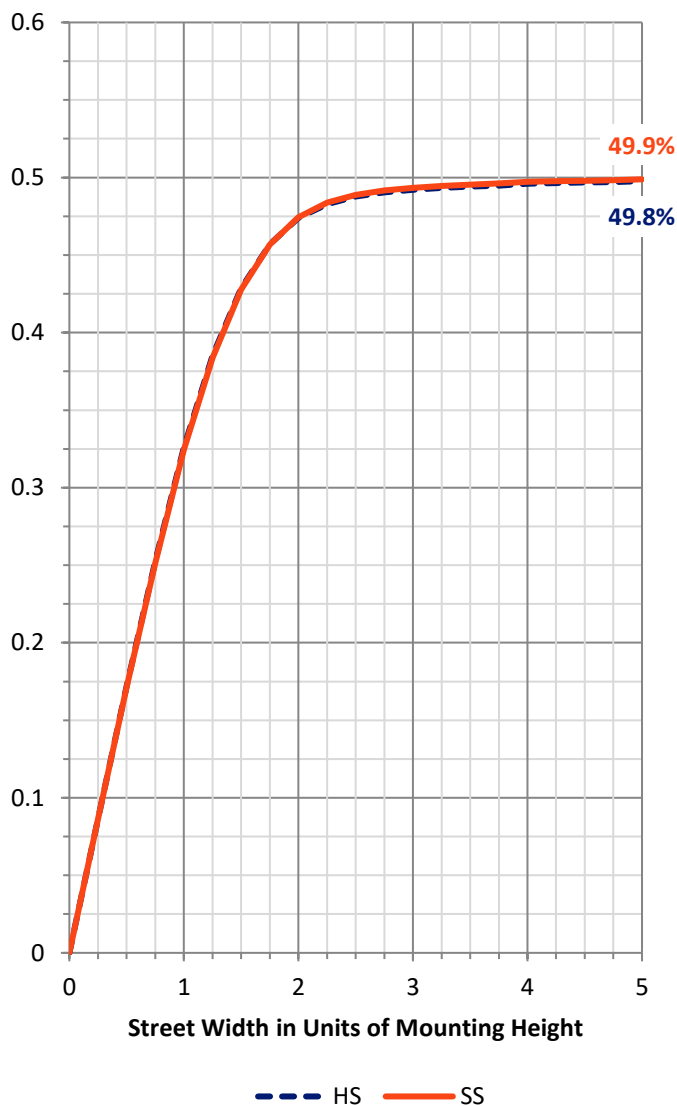
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13774.0	0.0	13774.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13774.0	0.0	13774.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27547.9	0.0	27547.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	1.0
10°-20°	953.4	3.5
20°-30°	1842.2	6.7
30°-40°	3110.7	11.3
40°-50°	4933.2	17.9
50°-60°	6605.0	24.0
60°-70°	6285.9	22.8
70°-80°	3280.1	11.9
80°-90°	248.3	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°	27547.9	100.0
0°-180°	27547.9	100.0

Coefficient of Utilization



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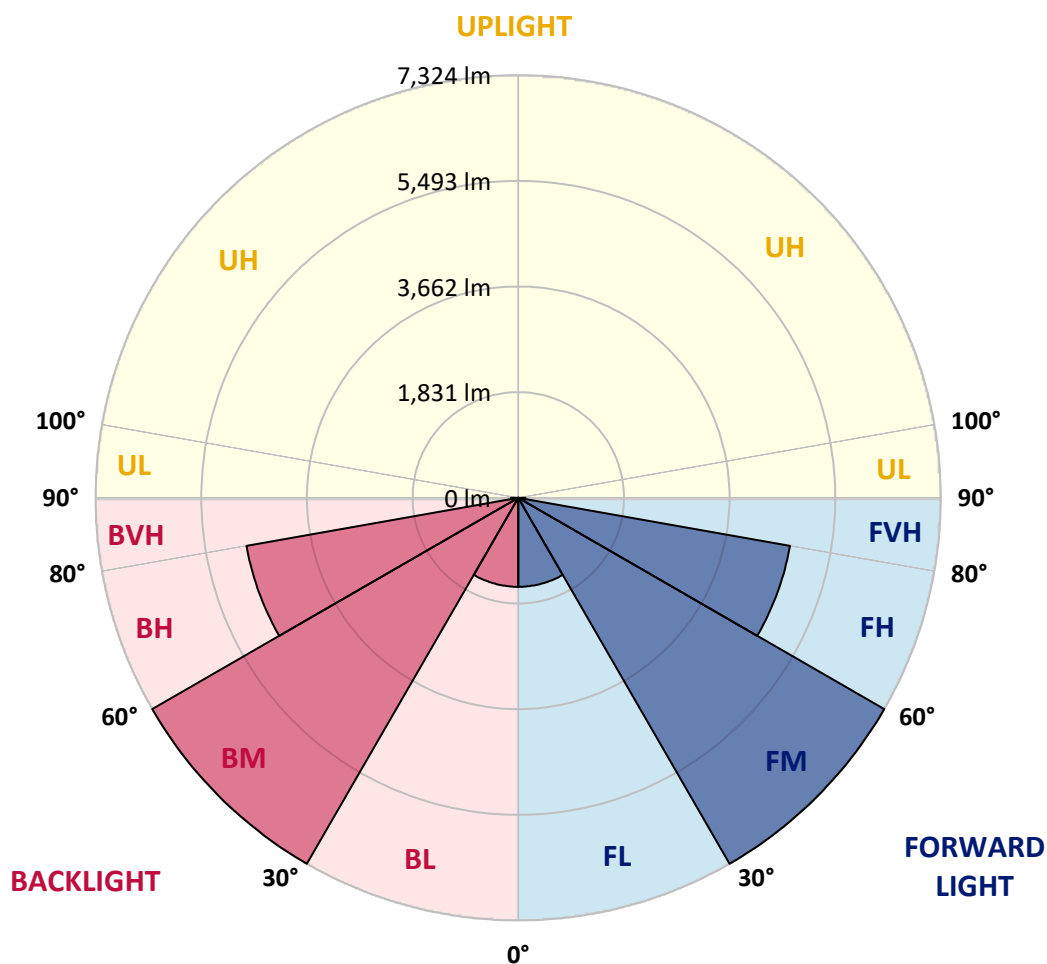
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.3	5.6			
FM	(30°-60°)	7324.5	26.6			
FH	(60°-80°)	4783.0	17.4			G2/5000
FVH	(80°-90°)	124.1	0.5			G2/225
BL	(0°-30°)	1542.3	5.6	B3/2500		
BM	(30°-60°)	7324.5	26.6	B4/8500		
BH	(60°-80°)	4783.0	17.4	B4/5000		G4/5000
BVH	(80°-90°)	124.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9	2950.9
2.5°	2950.9	2948.1	2950.9	2953.6	2952.3	2952.3	2959.3	2963.6	2972.0	2970.6	2969.1
5°	2931.2	2929.8	2941.0	2953.6	2963.6	2980.4	3001.5	3017.0	3036.7	3040.9	3040.9
7.5°	2921.4	2917.1	2936.8	2959.3	2990.2	3032.5	3073.3	3115.4	3149.2	3160.5	3163.3
10°	2928.3	2929.8	2956.5	2998.7	3047.9	3107.0	3164.7	3236.4	3284.2	3295.5	3306.8
12.5°	2960.7	2957.9	3002.9	3070.4	3137.9	3212.5	3280.0	3358.7	3410.8	3437.5	3448.8
15°	3019.8	3014.2	3077.5	3177.3	3275.8	3363.0	3417.9	3492.4	3552.9	3586.6	3599.3
17.5°	3090.1	3092.9	3176.0	3305.3	3434.7	3533.2	3585.2	3623.2	3669.6	3699.1	3713.2
20°	3213.9	3219.5	3312.4	3465.6	3613.3	3725.9	3768.1	3754.0	3766.7	3789.1	3806.0
22.5°	3379.8	3382.7	3486.7	3652.7	3807.5	3931.2	3959.4	3901.7	3866.5	3882.0	3893.3
25°	3572.5	3590.9	3694.9	3865.1	4024.0	4142.2	4154.8	4067.6	3980.5	3984.7	3991.7
27.5°	3807.5	3824.3	3929.8	4098.6	4260.3	4363.0	4361.6	4244.8	4116.9	4084.5	4094.4
30°	4062.0	4080.3	4188.6	4363.0	4513.5	4603.5	4583.8	4444.6	4261.7	4201.3	4208.3
32.5°	4364.4	4375.7	4485.4	4659.8	4799.0	4870.8	4830.0	4658.4	4430.6	4361.6	4378.5
35°	4730.1	4747.0	4828.6	4993.2	5115.5	5174.6	5105.6	4903.1	4647.1	4569.8	4581.0
37.5°	5147.9	5136.6	5229.4	5375.7	5477.0	5513.6	5419.3	5178.8	4894.7	4803.3	4820.2
40°	5583.9	5578.3	5679.5	5820.2	5875.0	5897.5	5758.2	5495.2	5180.2	5081.7	5114.1
42.5°	5979.1	5974.9	6111.4	6267.5	6333.6	6308.3	6132.4	5831.4	5510.7	5398.2	5426.3
45°	6295.5	6289.9	6457.3	6676.7	6806.1	6764.0	6527.6	6202.8	5845.5	5728.7	5755.5
47.5°	6538.9	6541.8	6721.7	6993.2	7219.7	7235.2	6931.4	6581.1	6214.0	6081.7	6121.2
50°	6714.7	6723.2	6915.9	7216.8	7526.3	7662.7	7343.4	6969.3	6595.2	6446.0	6491.1
52.5°	6758.3	6773.8	7005.9	7358.9	7723.2	7983.4	7762.5	7342.0	6956.7	6814.6	6851.1
55°	6526.3	6557.2	6851.1	7347.6	7844.1	8194.4	8131.1	7720.4	7321.0	7174.7	7215.4
57.5°	5993.2	6036.7	6380.0	7028.3	7817.5	8339.2	8416.6	8083.3	7685.2	7544.5	7576.9
60°	5246.4	5298.3	5627.5	6334.9	7440.5	8392.7	8617.7	8436.3	8020.0	7883.5	7913.1
62.5°	4119.7	4187.2	4581.0	5410.9	6644.4	8143.7	8789.4	8755.6	8320.9	8150.8	8170.5
65°	2642.9	2714.6	3129.5	4109.8	5582.5	7381.4	8842.8	9066.4	8638.8	8401.1	8430.6
67.5°	1593.6	1626.0	1831.3	2491.0	4080.3	6232.3	8389.8	9411.0	9010.2	8714.8	8737.3
70°	1019.8	1038.0	1160.4	1462.8	2306.7	4547.3	7267.5	9475.7	9460.2	9036.9	9034.0
72.5°	692.0	697.6	730.0	866.4	1305.2	2583.8	5360.2	8578.3	9741.5	9451.8	9406.8
75°	506.4	537.3	589.4	613.3	741.3	1291.2	3071.8	6026.9	8209.8	8336.4	8029.8
77.5°	377.0	378.3	450.1	478.3	528.9	687.8	1299.6	3364.4	5097.2	5351.8	4773.7
80°	319.3	302.4	301.0	385.4	398.0	429.0	580.9	1161.7	1825.6	1106.9	836.9
82.5°	265.8	247.5	223.7	301.0	271.4	263.0	251.7	472.6	580.9	285.6	243.3
85°	185.6	177.2	168.8	196.9	154.7	132.2	121.0	220.8	244.8	121.0	106.9
87.5°	80.2	83.0	84.4	87.2	64.7	46.4	46.4	61.9	61.9	47.9	35.2
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)