

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: P964679

Luminaire Tested: **NAV-SB3C-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964679
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-SB3C-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

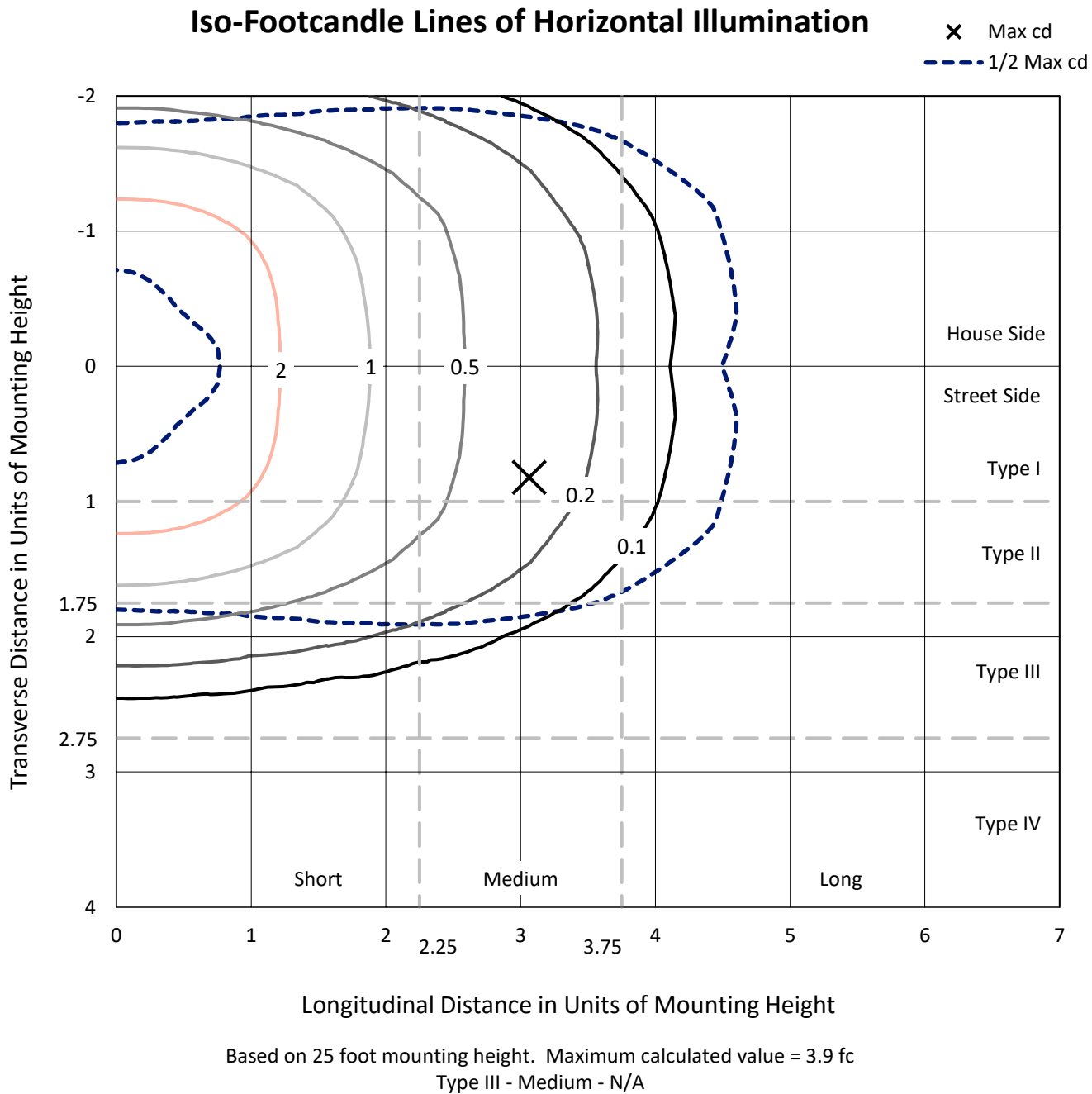
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20623 lumens
Efficiency: N/A
Efficacy: 138.3 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): 149.1
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



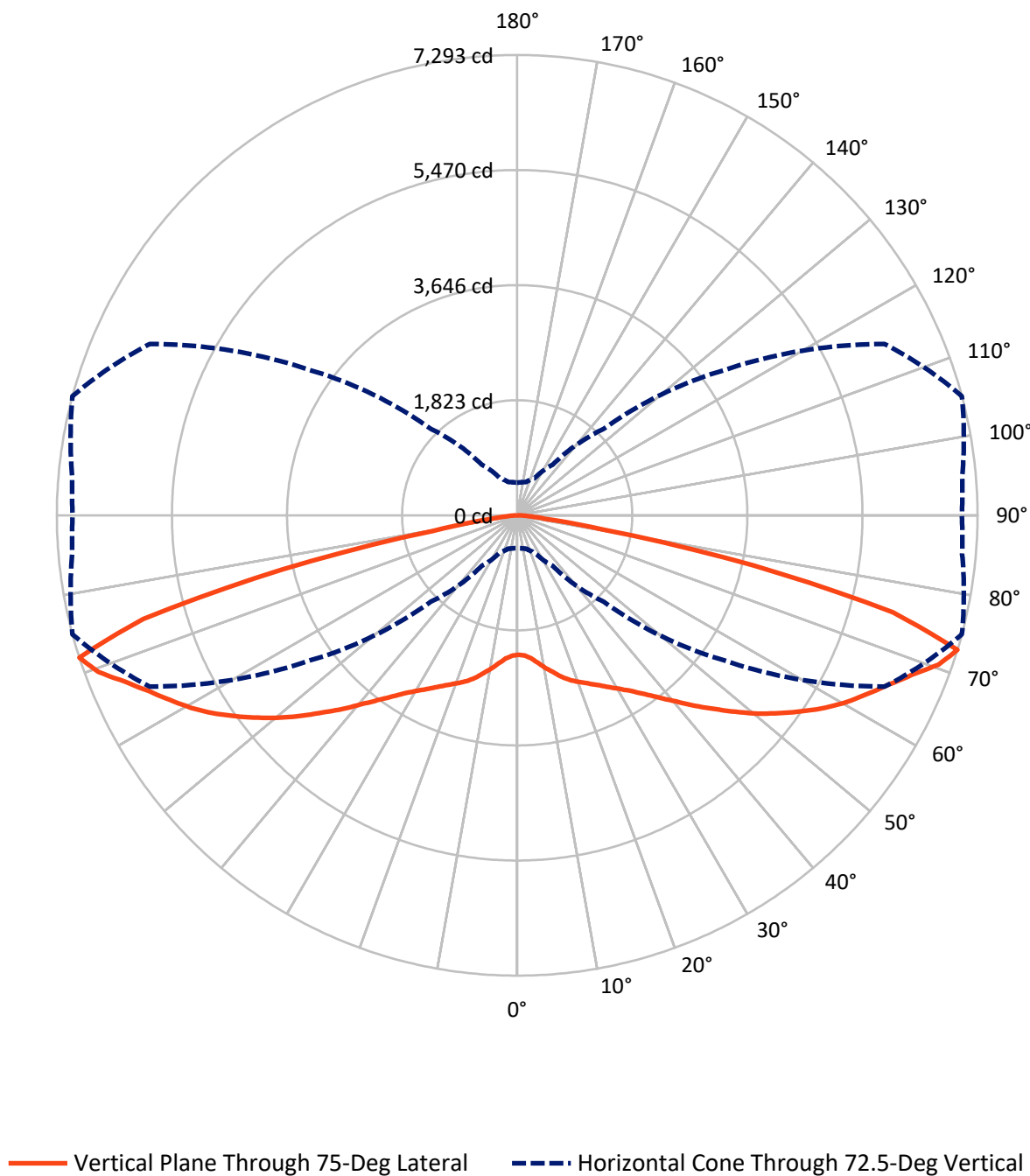
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Luminous Intensity Polar Plot



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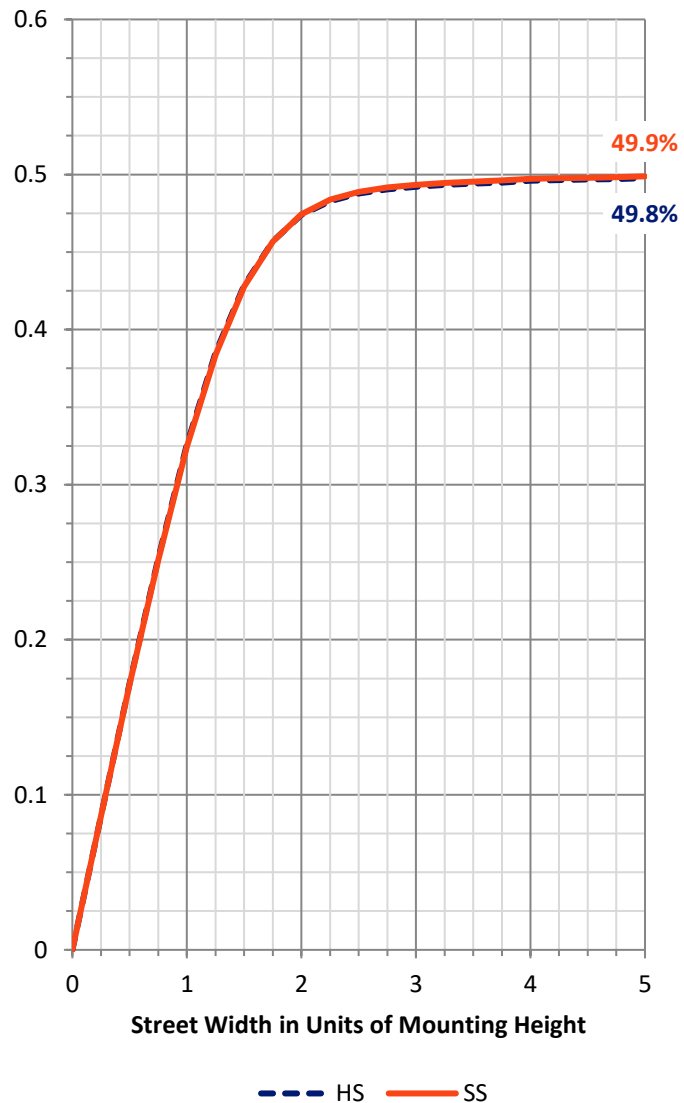
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10311.5	0.0	10311.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10311.5	0.0	10311.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20623.0	0.0	20623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.0
10°-20°	713.7	3.5
20°-30°	1379.1	6.7
30°-40°	2328.8	11.3
40°-50°	3693.1	17.9
50°-60°	4944.7	24.0
60°-70°	4705.7	22.8
70°-80°	2455.5	11.9
80°-90°	185.9	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°	20623.0	100.0
0°-180°	20623.0	100.0

Coefficient of Utilization



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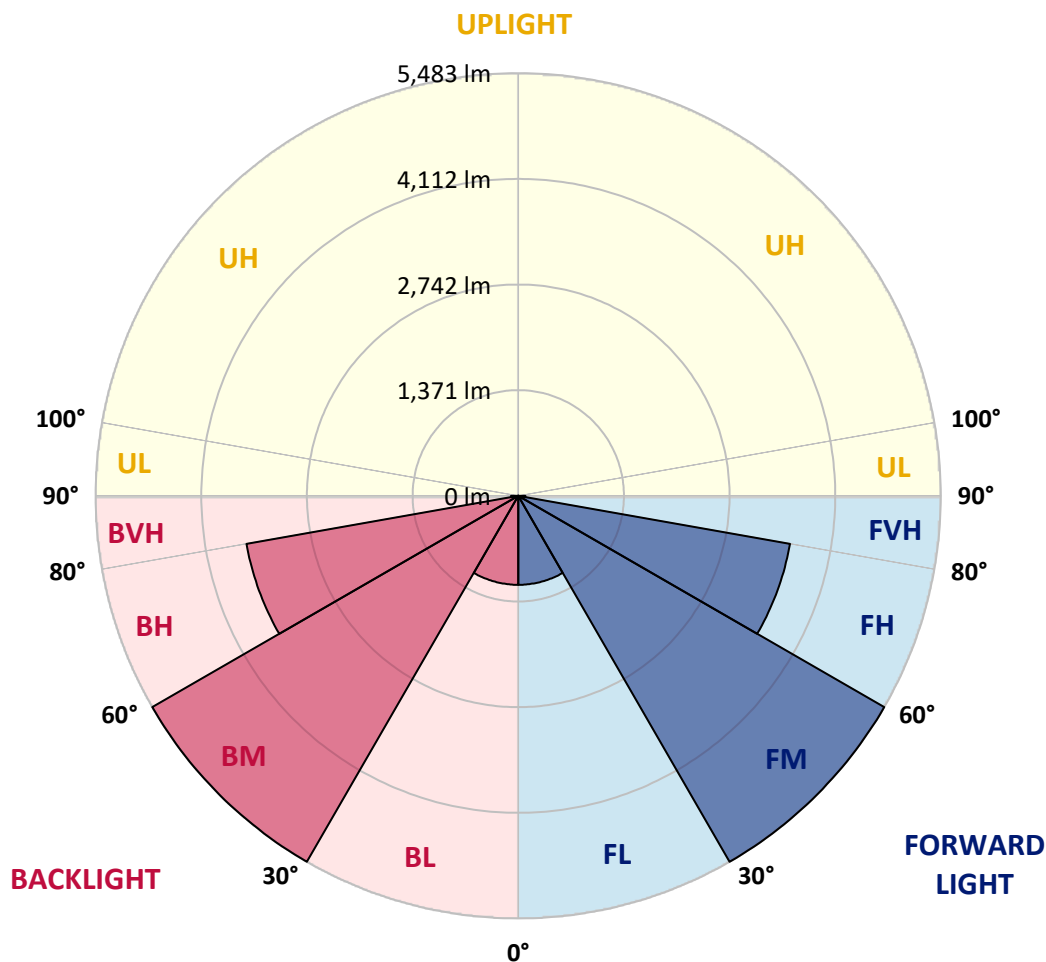
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1154.6	5.6			
FM	(30°-60°)	5483.3	26.6			
FH	(60°-80°)	3580.6	17.4			G2/5000
FVH	(80°-90°)	92.9	0.5			G1/100
BL	(0°-30°)	1154.6	5.6	B3/2500		
BM	(30°-60°)	5483.3	26.6	B4/8500		
BH	(60°-80°)	3580.6	17.4	B4/5000		G4/5000
BVH	(80°-90°)	92.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2209.1	2209.1	2209.1	2209.1	2209.1	2209.1	2209.1	2209.1	2209.1	2209.1	2209.1
2.5°	2209.1	2207.0	2209.1	2211.2	2210.1	2210.1	2215.4	2218.6	2224.9	2223.8	2222.8
5°	2194.3	2193.3	2201.7	2211.2	2218.6	2231.2	2247.0	2258.6	2273.3	2276.5	2276.5
7.5°	2186.9	2183.9	2198.5	2215.4	2238.6	2270.2	2300.7	2332.3	2357.6	2366.0	2368.1
10°	2192.3	2193.3	2213.3	2244.9	2281.8	2325.9	2369.2	2422.8	2458.7	2467.1	2475.5
12.5°	2216.5	2214.3	2248.0	2298.6	2349.1	2405.0	2455.5	2514.4	2553.4	2573.4	2581.9
15°	2260.6	2256.4	2303.9	2378.6	2452.3	2517.6	2558.7	2614.5	2659.8	2685.0	2694.5
17.5°	2313.3	2315.5	2377.6	2474.5	2571.3	2645.0	2684.0	2712.4	2747.1	2769.2	2779.8
20°	2406.0	2410.2	2479.7	2594.5	2705.1	2789.2	2820.9	2810.3	2819.8	2836.7	2849.3
22.5°	2530.2	2532.4	2610.3	2734.5	2850.3	2943.0	2964.1	2920.8	2894.6	2906.2	2914.6
25°	2674.5	2688.2	2766.1	2893.5	3012.5	3100.9	3110.5	3045.2	2979.9	2983.1	2988.3
27.5°	2850.3	2862.9	2942.0	3068.3	3189.4	3266.3	3265.2	3177.8	3082.0	3057.8	3065.2
30°	3041.0	3054.6	3135.7	3266.3	3378.9	3446.4	3431.6	3327.4	3190.4	3145.2	3150.4
32.5°	3267.3	3275.7	3357.9	3488.4	3592.6	3646.3	3615.8	3487.4	3316.8	3265.2	3277.8
35°	3541.1	3553.7	3614.8	3738.0	3829.6	3873.8	3822.2	3670.6	3479.0	3421.0	3429.4
37.5°	3853.8	3845.4	3914.9	4024.4	4100.2	4127.6	4057.1	3877.0	3664.3	3595.8	3608.5
40°	4180.3	4176.1	4251.8	4357.1	4398.2	4415.0	4310.7	4113.8	3878.0	3804.3	3828.6
42.5°	4476.1	4472.9	4575.1	4691.9	4741.4	4722.5	4590.9	4365.6	4125.4	4041.3	4062.3
45°	4713.1	4708.8	4834.1	4998.4	5095.3	5063.6	4886.8	4643.6	4376.0	4288.7	4308.7
47.5°	4895.2	4897.2	5032.0	5235.3	5404.8	5416.4	5189.0	4926.8	4652.0	4552.9	4582.5
50°	5026.8	5033.1	5177.4	5402.7	5634.3	5736.5	5497.5	5217.4	4937.3	4825.7	4859.4
52.5°	5059.4	5071.0	5244.7	5509.1	5781.7	5976.6	5811.2	5496.4	5207.9	5101.5	5128.9
55°	4885.7	4908.8	5128.9	5500.7	5872.3	6134.5	6087.1	5779.7	5480.6	5371.1	5401.6
57.5°	4486.6	4519.2	4776.2	5261.6	5852.3	6243.0	6300.9	6051.3	5753.3	5648.1	5672.2
60°	3927.5	3966.4	4212.9	4742.5	5570.2	6282.9	6451.5	6315.6	6003.9	5901.7	5923.9
62.5°	3084.1	3134.7	3429.4	4050.7	4974.1	6096.6	6579.9	6554.7	6229.2	6101.8	6116.6
65°	1978.5	2032.2	2342.8	3076.7	4179.1	5525.9	6619.9	6787.3	6467.2	6289.3	6311.4
67.5°	1193.0	1217.2	1370.9	1864.8	3054.6	4665.6	6280.9	7045.3	6745.2	6524.1	6540.9
70°	763.4	777.1	868.7	1095.1	1726.8	3404.2	5440.6	7093.7	7082.1	6765.2	6763.2
72.5°	518.0	522.2	546.5	648.6	977.1	1934.3	4012.8	6421.9	7292.8	7075.9	7042.2
75°	379.0	402.2	441.2	459.1	554.9	966.6	2299.7	4511.9	6146.1	6240.8	6011.3
77.5°	282.2	283.2	336.9	358.0	396.0	514.9	972.9	2518.6	3815.9	4006.5	3573.8
80°	239.0	226.4	225.3	288.5	298.0	321.1	434.9	869.7	1366.7	828.7	626.5
82.5°	199.1	185.3	167.4	225.3	203.3	196.9	188.5	353.8	434.9	213.7	182.1
85°	139.0	132.6	126.4	147.4	115.8	99.0	90.5	165.3	183.2	90.5	80.1
87.5°	60.1	62.1	63.1	65.3	48.5	34.7	34.7	46.3	46.3	35.8	26.3
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)