

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: STREETWORKS

Report Number: P841945

Luminaire Tested: **ARCH4-250-727-U-5WQ**

Issue Date: 5/27/2024

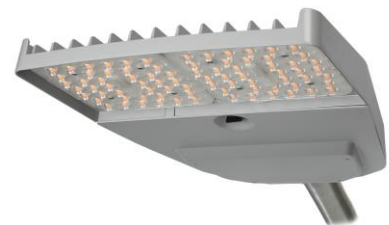
Test Information

Test Method: LM-79-08
Report Number: P841945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34856 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 249.5
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

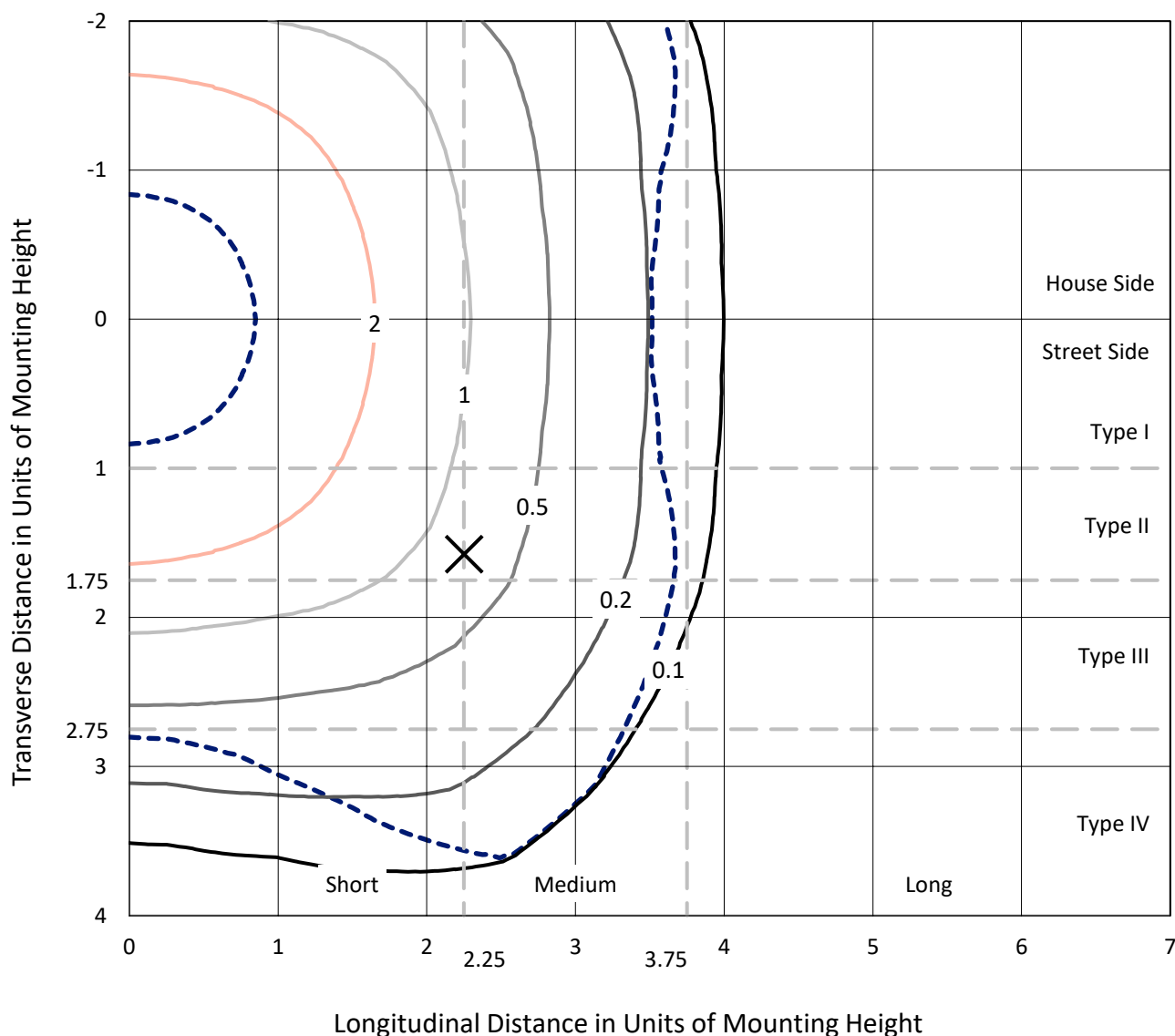


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Iso-Footcandle Lines of Horizontal Illumination

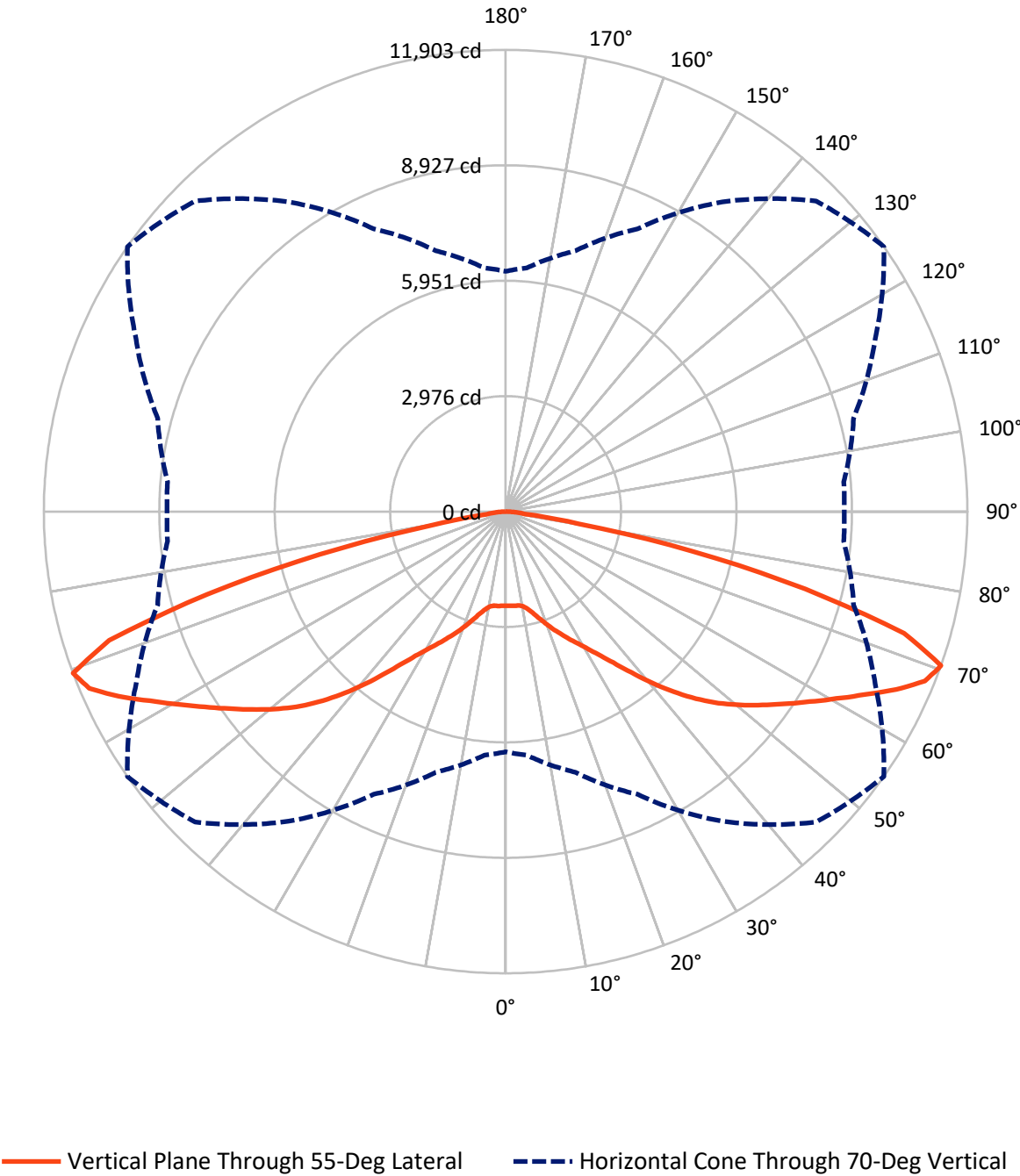
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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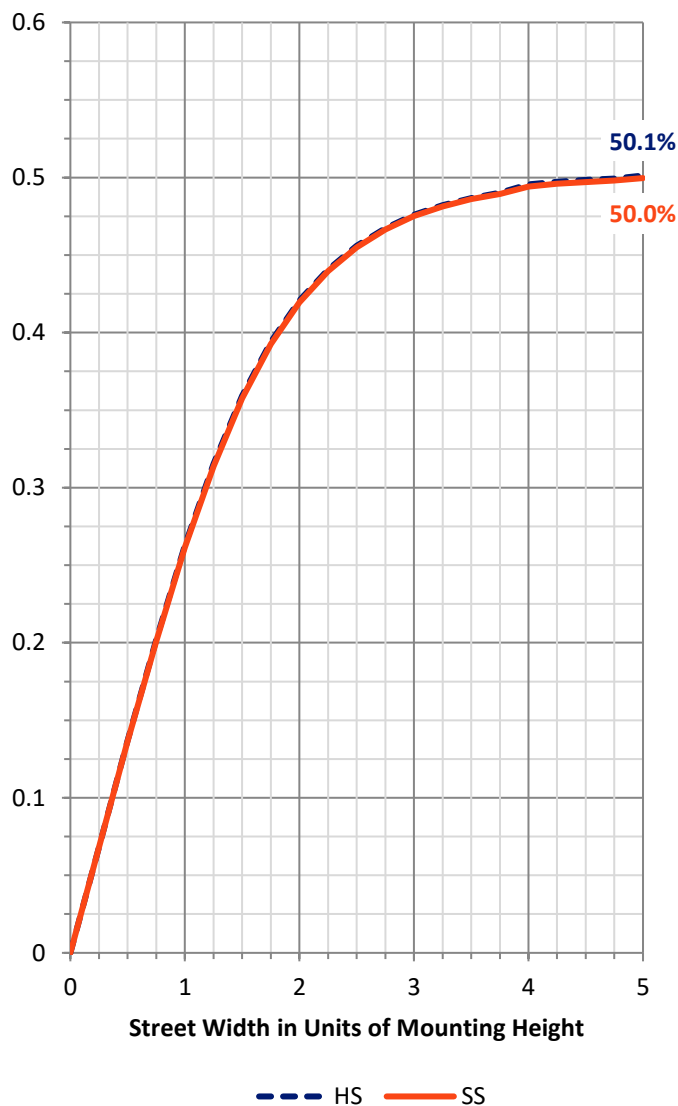
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17428.0	0.0	17428.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17428.0	0.0	17428.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34856.0	0.0	34856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	0.7
10°-20°	798.3	2.3
20°-30°	1658.9	4.8
30°-40°	3063.8	8.8
40°-50°	5382.4	15.4
50°-60°	7762.7	22.3
60°-70°	9500.7	27.3
70°-80°	6045.5	17.3
80°-90°	409.1	1.2
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°	34856.0	100.0
0°-180°	34856.0	100.0

Coefficient of Utilization



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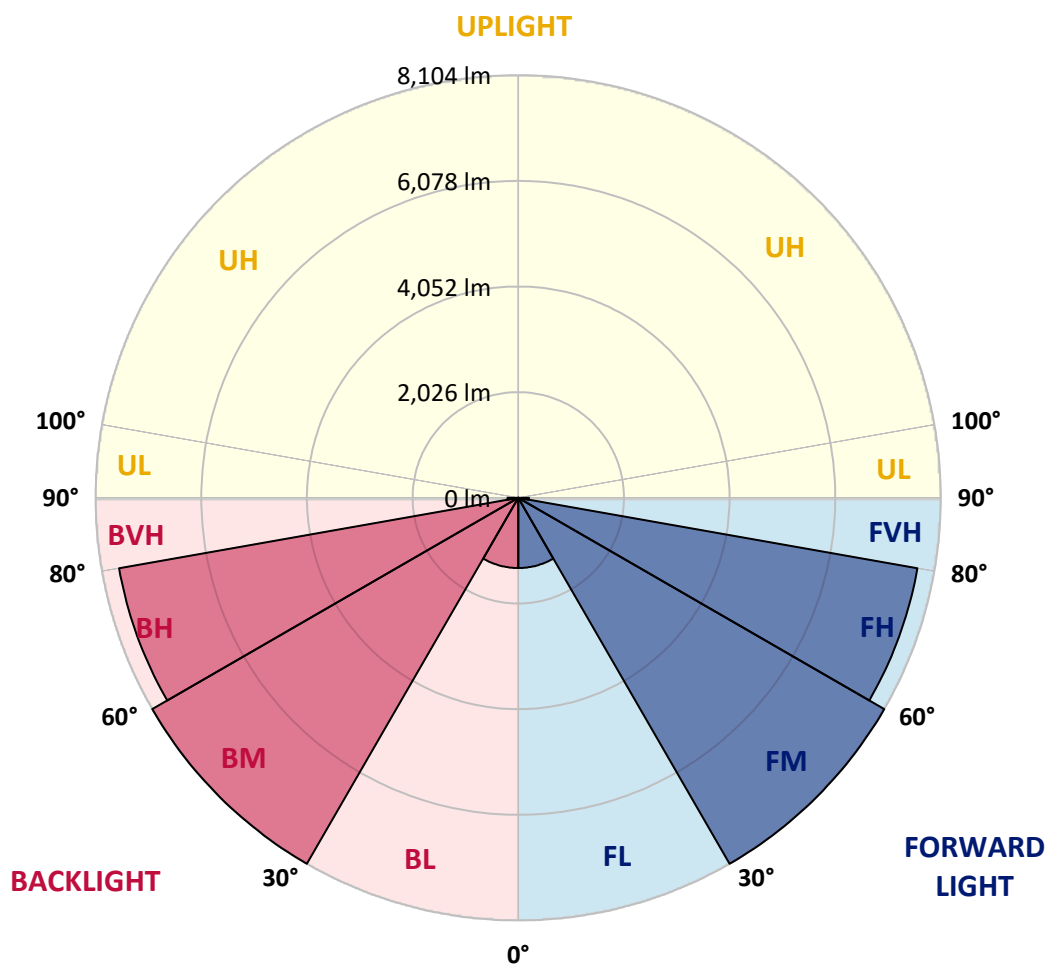
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1345.9	3.9			
FM	(30°-60°)	8104.5	23.3			
FH	(60°-80°)	7773.1	22.3			G4/12000
FVH	(80°-90°)	204.5	0.6			G2/225
BL	(0°-30°)	1345.9	3.9	B3/2500		
BM	(30°-60°)	8104.5	23.3	B4/8500		
BH	(60°-80°)	7773.1	22.3	B5		G4/12000
BVH	(80°-90°)	204.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8
2.5°	2462.2	2462.2	2455.7	2455.7	2442.8	2436.3	2429.8	2429.8	2423.3	2423.3	2416.8
5°	2475.1	2475.1	2475.1	2468.7	2462.2	2455.7	2442.8	2429.8	2423.3	2416.8	2410.4
7.5°	2481.6	2481.6	2475.1	2475.1	2468.7	2462.2	2442.8	2423.3	2416.8	2410.4	2410.4
10°	2533.5	2527.0	2520.5	2507.5	2507.5	2507.5	2481.6	2462.2	2455.7	2455.7	2455.7
12.5°	2656.6	2650.1	2637.1	2617.7	2617.7	2624.2	2585.3	2559.4	2559.4	2552.9	2552.9
15°	2838.0	2831.5	2818.6	2786.2	2779.7	2792.6	2734.3	2708.4	2708.4	2708.4	2701.9
17.5°	3038.9	3025.9	3006.5	2980.5	2980.5	2980.5	2922.2	2889.8	2870.4	2870.4	2863.9
20°	3207.3	3200.8	3200.8	3194.4	3213.8	3213.8	3136.1	3084.2	3038.9	3012.9	3006.5
22.5°	3356.4	3349.9	3362.8	3388.7	3427.6	3440.6	3349.9	3272.1	3200.8	3149.0	3136.1
25°	3557.2	3550.7	3544.3	3583.1	3647.9	3667.4	3570.2	3473.0	3401.7	3375.8	3362.8
27.5°	3771.0	3777.5	3784.0	3822.9	3874.7	3907.1	3809.9	3719.2	3660.9	3622.0	3609.1
30°	4010.8	4023.7	4043.2	4101.5	4140.4	4153.3	4069.1	4004.3	3952.5	3920.1	3900.6
32.5°	4315.3	4341.2	4367.1	4419.0	4438.4	4425.5	4386.6	4341.2	4302.4	4257.0	4250.5
35°	4768.9	4794.8	4788.3	4807.7	4814.2	4801.3	4781.8	4755.9	4736.5	4678.2	4671.7
37.5°	5339.1	5365.0	5326.1	5306.7	5261.3	5267.8	5261.3	5280.7	5287.2	5228.9	5222.4
40°	5915.7	5941.7	5889.8	5838.0	5792.6	5773.2	5805.6	5870.4	5870.4	5831.5	5831.5
42.5°	6531.3	6550.7	6466.5	6401.7	6343.4	6330.4	6349.9	6427.6	6447.0	6440.6	6440.6
45°	7146.8	7133.9	7023.7	6958.9	6907.1	6874.7	6881.2	6939.5	6978.4	6997.8	6997.8
47.5°	7619.8	7600.4	7509.7	7457.8	7425.4	7380.1	7380.1	7412.5	7431.9	7438.4	7438.4
50°	7995.6	7976.2	7885.5	7879.0	7879.0	7859.6	7840.1	7833.6	7820.7	7827.2	7827.2
52.5°	8319.6	8293.7	8228.9	8241.9	8300.2	8313.1	8287.2	8235.4	8183.5	8164.1	8170.6
55°	8669.5	8630.6	8578.8	8617.7	8734.3	8786.1	8747.3	8643.6	8552.9	8494.6	8494.6
57.5°	8948.1	8902.8	8902.8	9012.9	9226.7	9330.4	9246.2	9051.8	8896.3	8831.5	8838.0
60°	8753.7	8714.9	8870.4	9356.3	9758.0	9933.0	9790.4	9447.0	9194.3	9116.6	9129.5
62.5°	8371.4	8345.5	8539.9	9291.5	10237.5	10600.4	10386.6	9894.1	9518.3	9427.6	9427.6
65°	7807.7	7801.3	8073.4	8999.9	10347.7	11241.8	11060.4	10380.1	9894.1	9771.0	9796.9
67.5°	7224.6	7224.6	7470.8	8501.0	10218.1	11514.0	11656.5	10820.7	10075.5	9771.0	9777.5
70°	6194.3	6304.5	6958.9	8041.0	9745.1	11319.6	11902.7	10509.7	9285.0	8747.3	8727.8
72.5°	4082.1	4224.6	5527.0	7237.5	9278.6	10613.3	10742.9	9233.2	7710.5	7082.0	7049.6
75°	2462.2	2585.3	3583.1	5650.1	8157.6	8546.4	7976.2	7237.5	5760.2	5267.8	5267.8
77.5°	725.7	809.9	1652.3	3583.1	5643.6	5617.7	4917.9	4263.5	3408.2	2896.3	2935.2
80°	427.6	440.6	537.8	1632.8	2339.1	2462.2	1898.5	1185.7	1185.7	881.2	855.3
82.5°	330.5	330.5	343.4	408.2	563.7	628.5	479.5	408.2	466.5	395.2	375.8
85°	233.3	233.3	233.3	239.7	246.2	252.7	265.7	272.1	298.1	246.2	233.3
87.5°	71.3	77.8	84.2	97.2	116.6	123.1	129.6	116.6	116.6	110.2	103.7
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)