

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: P841297

Luminaire Tested: **ARCH4-160-727-U-5WQ**

Issue Date: 5/27/2024

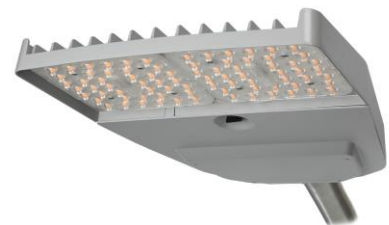
Test Information

Test Method: LM-79-08
Report Number: P841297
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: ARCH4-160-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24663 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 160.7
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



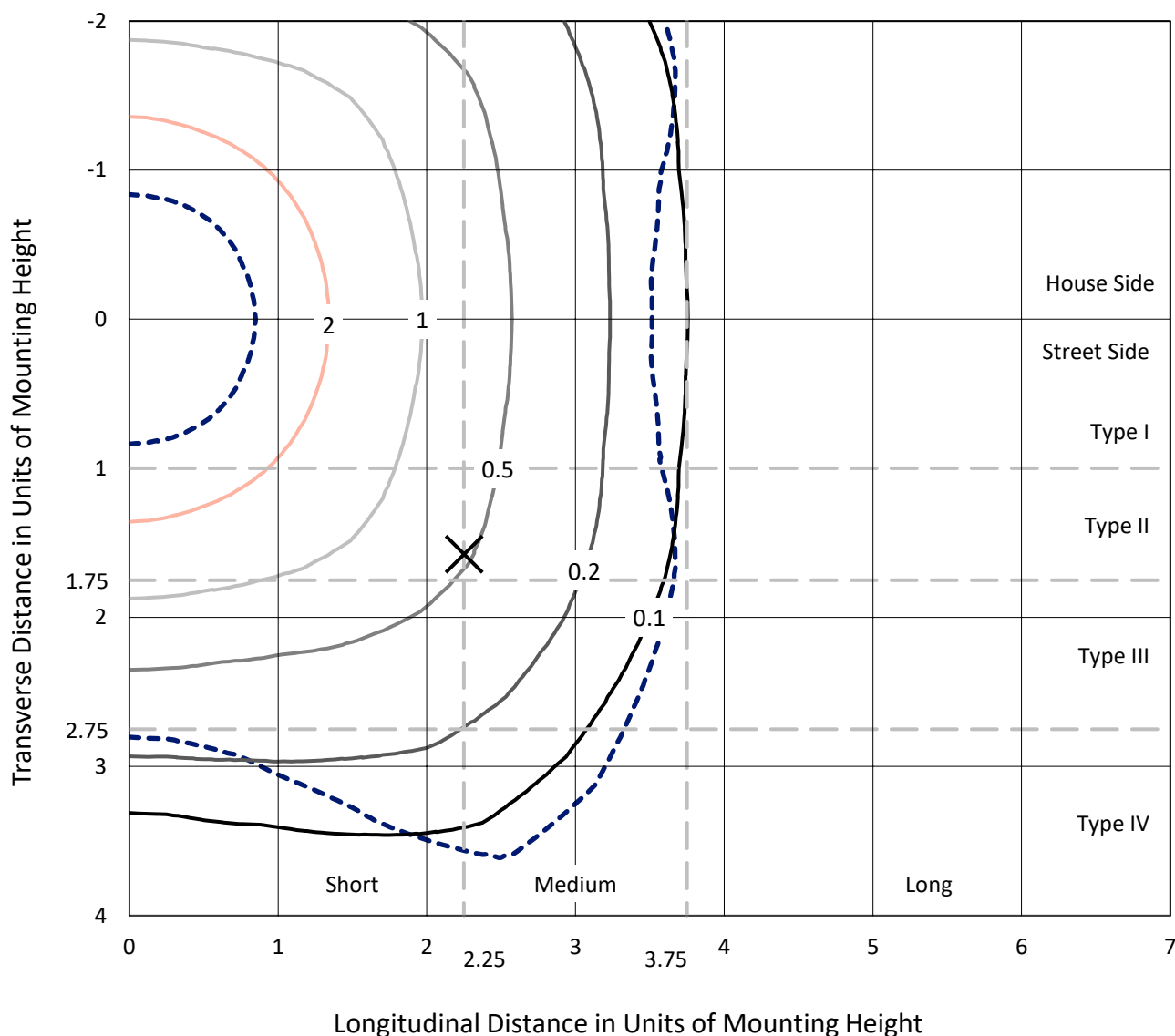
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

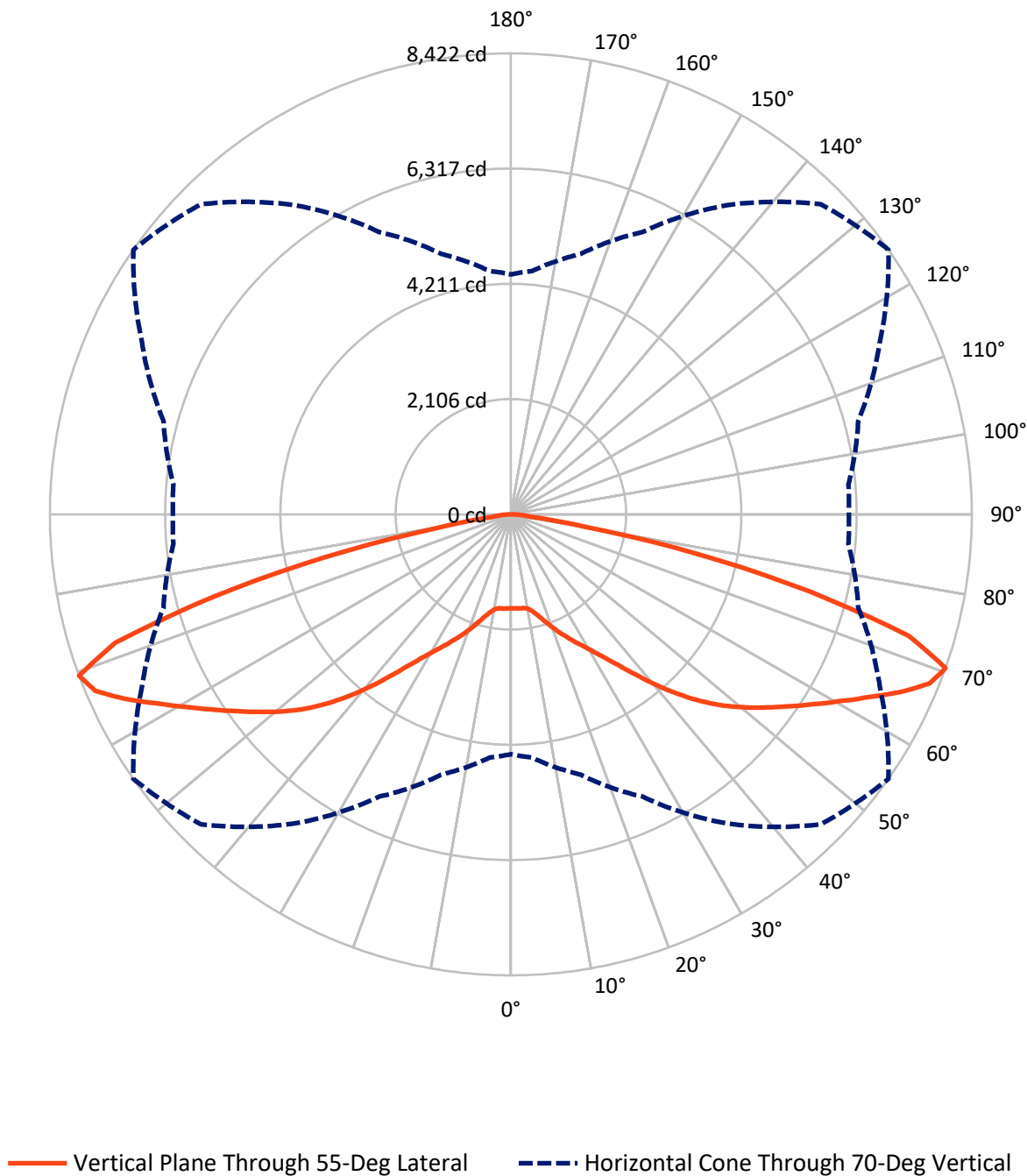
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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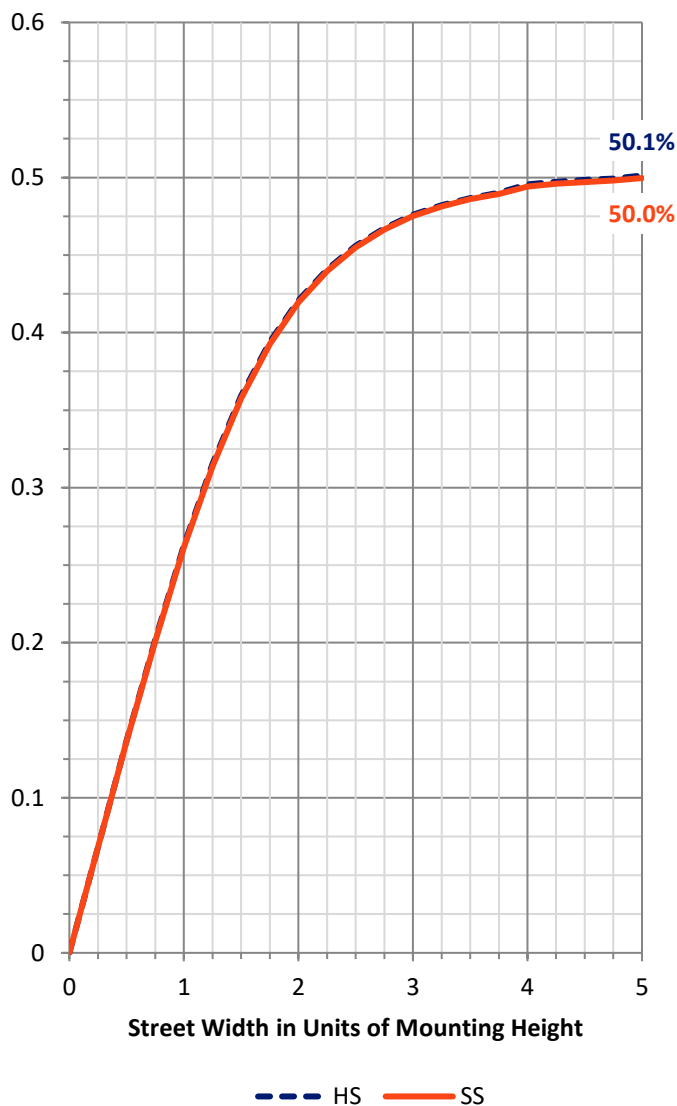
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12331.5	0.0	12331.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12331.5	0.0	12331.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24663.0	0.0	24663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	0.7
10°-20°	564.9	2.3
20°-30°	1173.7	4.8
30°-40°	2167.8	8.8
40°-50°	3808.4	15.4
50°-60°	5492.7	22.3
60°-70°	6722.4	27.3
70°-80°	4277.6	17.3
80°-90°	289.4	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°	24663.0	100.0
0°-180°	24663.0	100.0

Coefficient of Utilization



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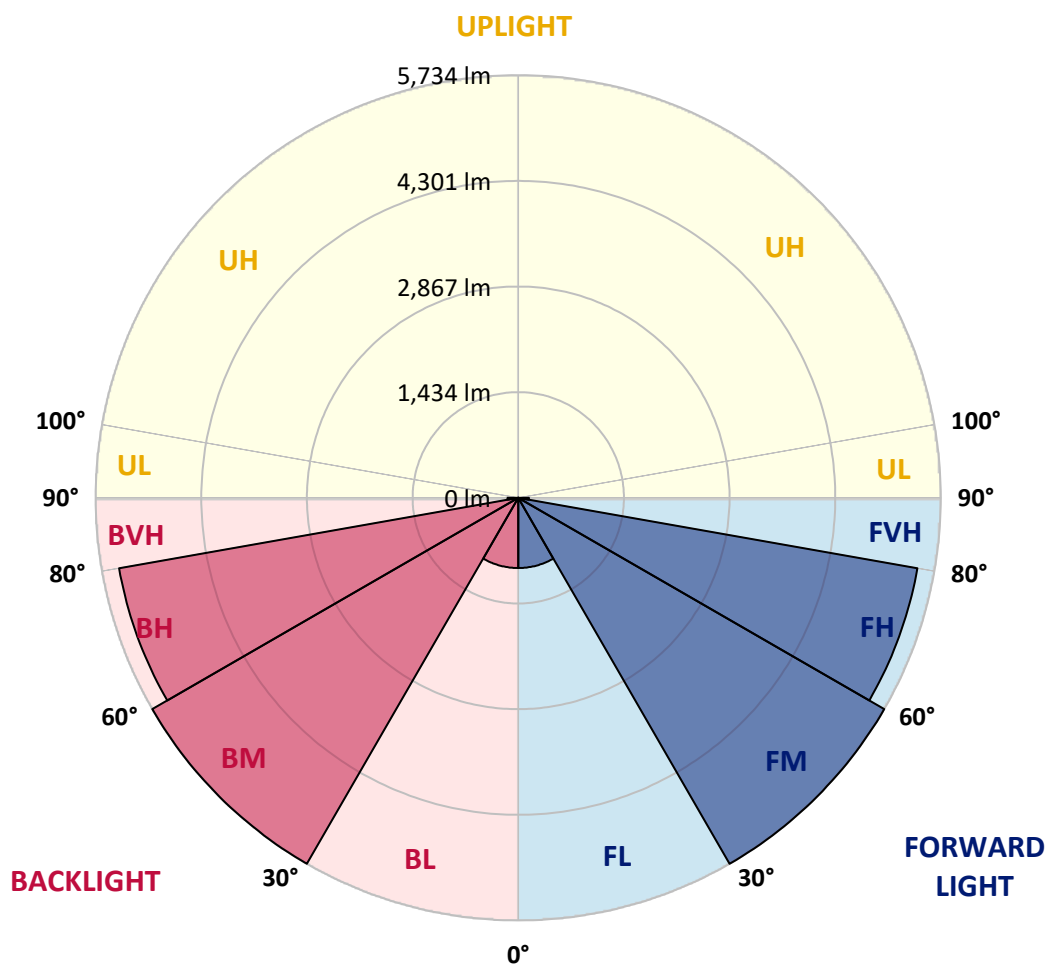
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	952.3	3.9			
FM	(30°-60°)	5734.5	23.3			
FH	(60°-80°)	5500.0	22.3			G3/7500
FVH	(80°-90°)	144.7	0.6			G2/225
BL	(0°-30°)	952.3	3.9	B2/1000		
BM	(30°-60°)	5734.5	23.3	B4/8500		
BH	(60°-80°)	5500.0	22.3	B5		G3/7500
BVH	(80°-90°)	144.7	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1719.2	1719.2	1719.2	1719.2	1719.2	1719.2	1719.2	1719.2	1719.2	1719.2	1719.2
2.5°	1742.2	1742.2	1737.6	1737.6	1728.4	1723.8	1719.2	1719.2	1714.7	1714.7	1710.1
5°	1751.3	1751.3	1751.3	1746.8	1742.2	1737.6	1728.4	1719.2	1714.7	1710.1	1705.5
7.5°	1755.9	1755.9	1751.3	1751.3	1746.8	1742.2	1728.4	1714.7	1710.1	1705.5	1705.5
10°	1792.6	1788.0	1783.4	1774.3	1774.3	1774.3	1755.9	1742.2	1737.6	1737.6	1737.6
12.5°	1879.7	1875.1	1866.0	1852.2	1852.2	1856.8	1829.3	1810.9	1810.9	1806.4	1806.4
15°	2008.1	2003.5	1994.3	1971.4	1966.8	1976.0	1934.7	1916.4	1916.4	1916.4	1911.8
17.5°	2150.2	2141.0	2127.3	2108.9	2108.9	2108.9	2067.7	2044.8	2031.0	2031.0	2026.4
20°	2269.4	2264.8	2264.8	2260.2	2274.0	2274.0	2219.0	2182.3	2150.2	2131.9	2127.3
22.5°	2374.8	2370.3	2379.4	2397.8	2425.3	2434.4	2370.3	2315.2	2264.8	2228.1	2219.0
25°	2517.0	2512.4	2507.8	2535.3	2581.2	2594.9	2526.1	2457.4	2406.9	2388.6	2379.4
27.5°	2668.3	2672.9	2677.4	2704.9	2741.6	2764.5	2695.8	2631.6	2590.3	2562.8	2553.7
30°	2837.9	2847.1	2860.8	2902.1	2929.6	2938.8	2879.2	2833.3	2796.6	2773.7	2760.0
32.5°	3053.4	3071.7	3090.1	3126.7	3140.5	3131.3	3103.8	3071.7	3044.2	3012.1	3007.5
35°	3374.3	3392.6	3388.1	3401.8	3406.4	3397.2	3383.5	3365.1	3351.4	3310.1	3305.5
37.5°	3777.8	3796.1	3768.6	3754.8	3722.7	3727.3	3722.7	3736.5	3741.1	3699.8	3695.2
40°	4185.8	4204.1	4167.4	4130.8	4098.7	4084.9	4107.8	4153.7	4153.7	4126.2	4126.2
42.5°	4621.3	4635.1	4575.5	4529.6	4488.4	4479.2	4493.0	4548.0	4561.7	4557.1	4557.1
45°	5056.9	5047.7	4969.8	4923.9	4887.2	4864.3	4868.9	4910.2	4937.7	4951.4	4951.4
47.5°	5391.5	5377.8	5313.6	5276.9	5254.0	5221.9	5221.9	5244.8	5258.6	5263.2	5263.2
50°	5657.5	5643.7	5579.5	5574.9	5574.9	5561.2	5547.4	5542.8	5533.7	5538.3	5538.3
52.5°	5886.7	5868.4	5822.5	5831.7	5872.9	5882.1	5863.8	5827.1	5790.4	5776.7	5781.2
55°	6134.3	6106.8	6070.1	6097.6	6180.1	6216.8	6189.3	6115.9	6051.7	6010.5	6010.5
57.5°	6331.4	6299.3	6299.3	6377.2	6528.5	6601.9	6542.3	6404.8	6294.7	6248.9	6253.5
60°	6193.9	6166.4	6276.4	6620.2	6904.5	7028.3	6927.4	6684.4	6505.6	6450.6	6459.8
62.5°	5923.4	5905.0	6042.6	6574.4	7243.7	7500.5	7349.2	7000.8	6734.9	6670.7	6670.7
65°	5524.5	5519.9	5712.5	6368.1	7321.7	7954.4	7826.0	7344.6	7000.8	6913.7	6932.0
67.5°	5111.9	5111.9	5286.1	6015.1	7230.0	8146.9	8247.8	7656.4	7129.1	6913.7	6918.2
70°	4382.9	4460.9	4923.9	5689.6	6895.3	8009.4	8422.0	7436.3	6569.8	6189.3	6175.5
72.5°	2888.3	2989.2	3910.7	5121.1	6565.2	7509.7	7601.3	6533.1	5455.7	5011.0	4988.1
75°	1742.2	1829.3	2535.3	3997.8	5772.1	6047.2	5643.7	5121.1	4075.8	3727.3	3727.3
77.5°	513.5	573.1	1169.1	2535.3	3993.2	3974.9	3479.7	3016.7	2411.5	2049.3	2076.8
80°	302.6	311.8	380.5	1155.3	1655.1	1742.2	1343.3	839.0	839.0	623.5	605.2
82.5°	233.8	233.8	243.0	288.8	398.9	444.7	339.3	288.8	330.1	279.7	265.9
85°	165.0	165.0	165.0	169.6	174.2	178.8	188.0	192.6	210.9	174.2	165.0
87.5°	50.4	55.0	59.6	68.8	82.5	87.1	91.7	82.5	82.5	77.9	73.4
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)