

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: P841306

Luminaire Tested: **ARCH4-160-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841306
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: ARCH4-160-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

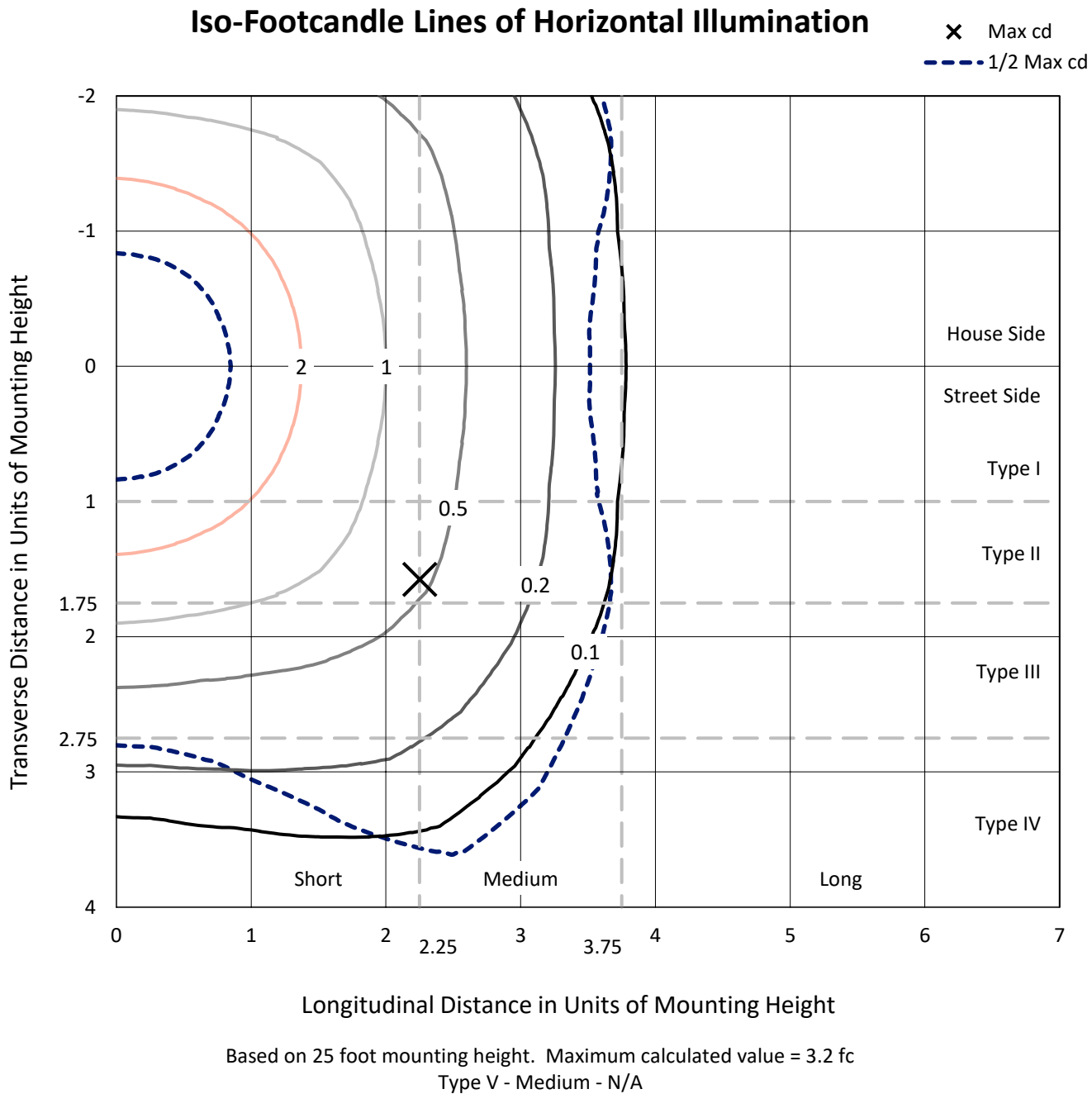
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25557 lumens
Efficiency: N/A
Efficacy: 159.0 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

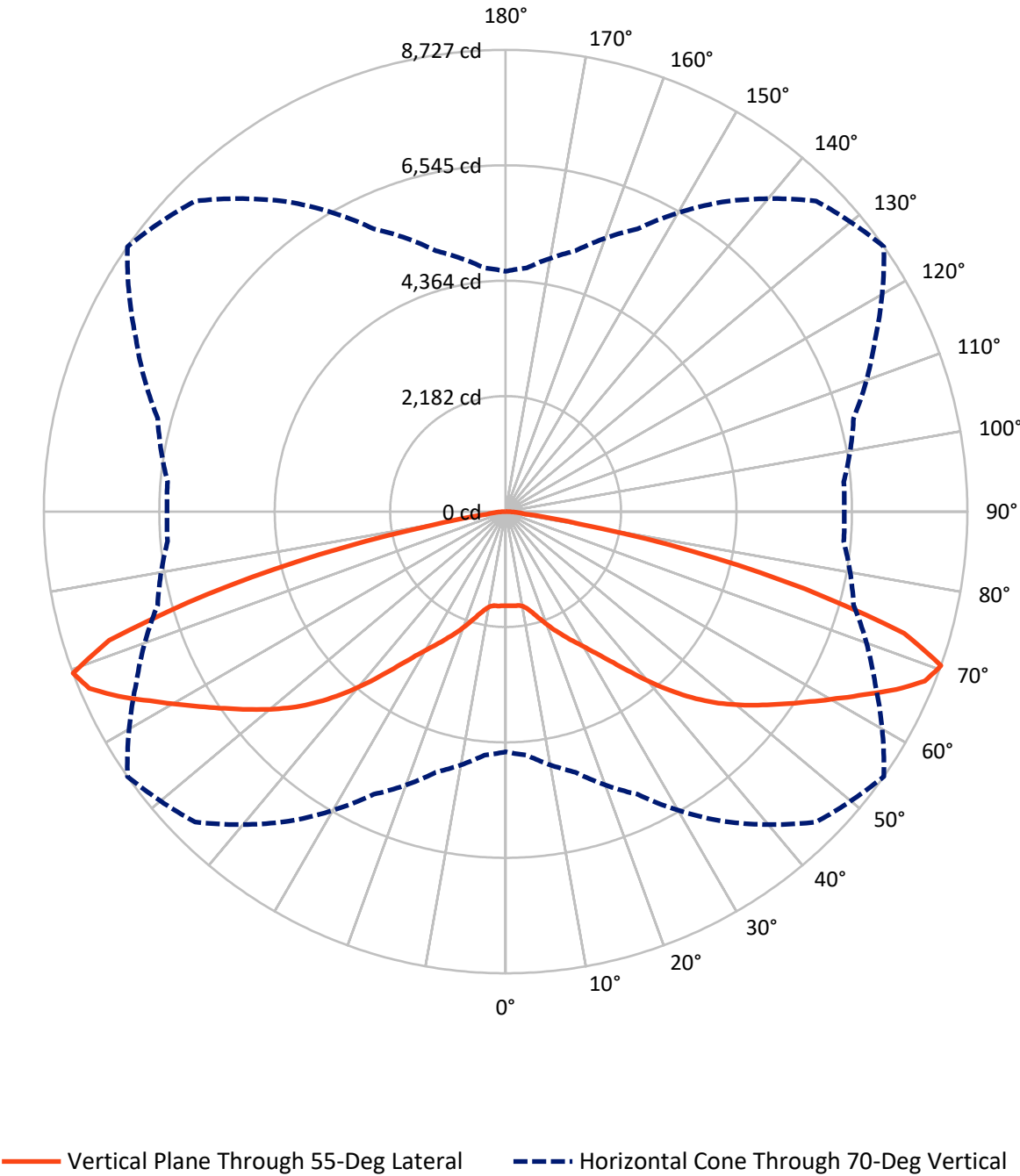


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Luminous Intensity Polar Plot



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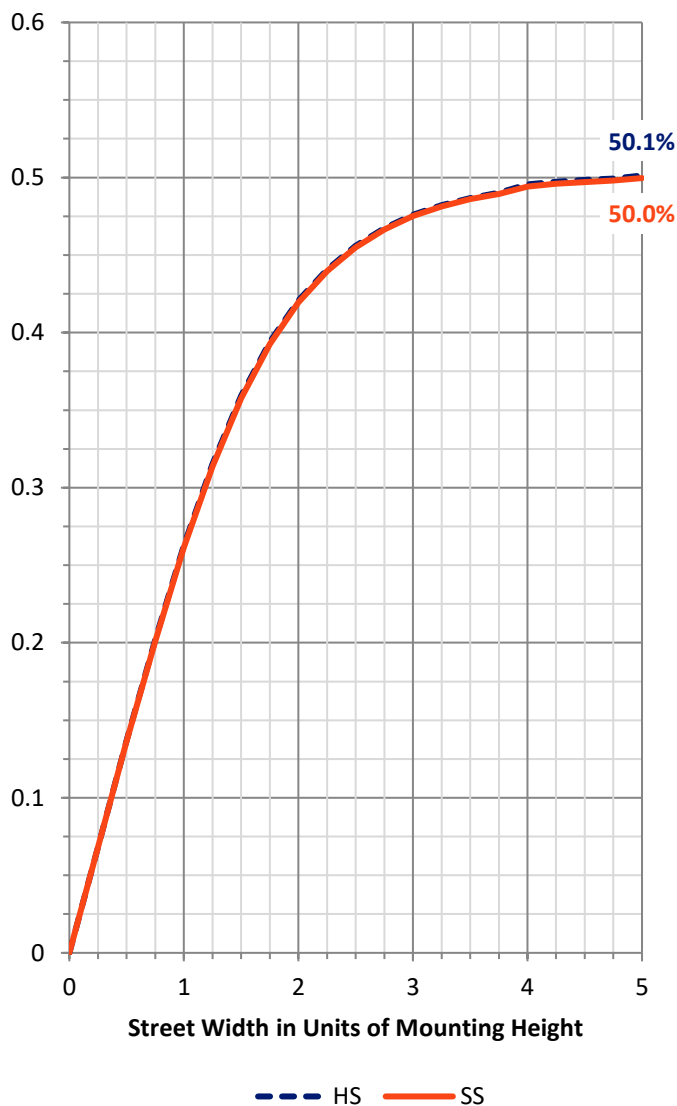
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12778.5	0.0	12778.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12778.5	0.0	12778.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25557.0	0.0	25557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	0.7
10°-20°	585.4	2.3
20°-30°	1216.3	4.8
30°-40°	2246.4	8.8
40°-50°	3946.5	15.4
50°-60°	5691.8	22.3
60°-70°	6966.1	27.3
70°-80°	4432.7	17.3
80°-90°	299.9	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°	25557.0	100.0
0°-180°	25557.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841306

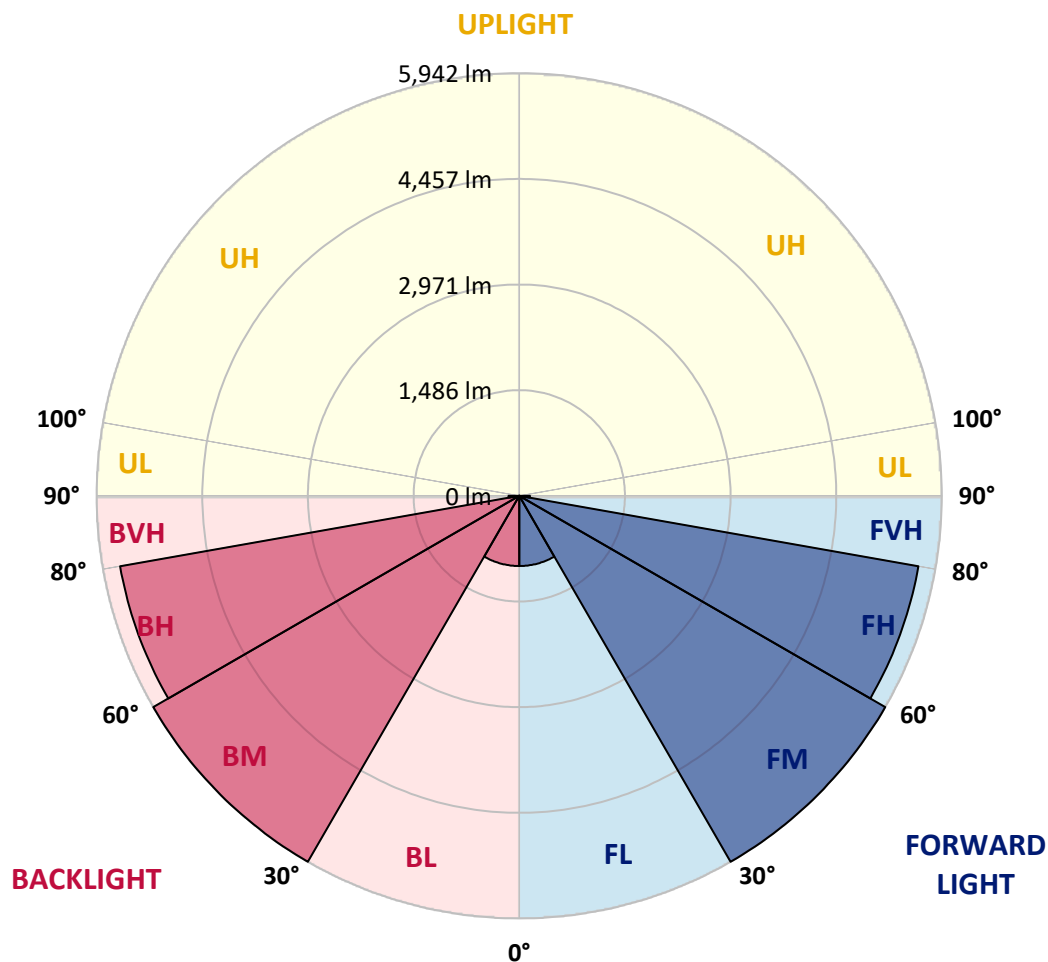
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	986.8	3.9			
FM	(30°-60°)	5942.3	23.3			
FH	(60°-80°)	5699.4	22.3			G3/7500
FVH	(80°-90°)	150.0	0.6			G2/225
BL	(0°-30°)	986.8	3.9	B2/1000		
BM	(30°-60°)	5942.3	23.3	B4/8500		
BH	(60°-80°)	5699.4	22.3	B5		G3/7500
BVH	(80°-90°)	150.0	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°	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1805.3	1805.3	1800.6	1800.6	1791.1	1786.3	1781.6	1781.6	1776.8	1776.8	1772.1
5°	1814.8	1814.8	1814.8	1810.1	1805.3	1800.6	1791.1	1781.6	1776.8	1772.1	1767.3
7.5°	1819.6	1819.6	1814.8	1814.8	1810.1	1805.3	1791.1	1776.8	1772.1	1767.3	1767.3
10°	1857.6	1852.8	1848.1	1838.6	1838.6	1838.6	1819.6	1805.3	1800.6	1800.6	1800.6
12.5°	1947.8	1943.1	1933.6	1919.3	1919.3	1924.1	1895.6	1876.6	1876.6	1871.8	1871.8
15°	2080.9	2076.1	2066.6	2042.9	2038.1	2047.6	2004.9	1985.9	1985.9	1985.9	1981.1
17.5°	2228.1	2218.6	2204.4	2185.4	2185.4	2185.4	2142.6	2118.9	2104.6	2104.6	2099.9
20°	2351.7	2346.9	2346.9	2342.2	2356.4	2356.4	2299.4	2261.4	2228.1	2209.1	2204.4
22.5°	2460.9	2456.2	2465.7	2484.7	2513.2	2522.7	2456.2	2399.2	2346.9	2308.9	2299.4
25°	2608.2	2603.5	2598.7	2627.2	2674.7	2689.0	2617.7	2546.4	2494.2	2475.2	2465.7
27.5°	2765.0	2769.7	2774.5	2803.0	2841.0	2864.8	2793.5	2727.0	2684.2	2655.7	2646.2
30°	2940.8	2950.3	2964.5	3007.3	3035.8	3045.3	2983.5	2936.0	2898.0	2874.3	2860.0
32.5°	3164.1	3183.1	3202.1	3240.1	3254.3	3244.8	3216.3	3183.1	3154.6	3121.3	3116.5
35°	3496.6	3515.6	3510.9	3525.1	3529.9	3520.4	3506.1	3487.1	3472.9	3430.1	3425.4
37.5°	3914.7	3933.7	3905.2	3890.9	3857.7	3862.4	3857.7	3871.9	3876.7	3833.9	3829.2
40°	4337.5	4356.5	4318.5	4280.5	4247.2	4233.0	4256.8	4304.3	4304.3	4275.8	4275.8
42.5°	4788.8	4803.1	4741.3	4693.8	4651.1	4641.6	4655.8	4712.8	4727.1	4722.3	4722.3
45°	5240.2	5230.7	5149.9	5102.4	5064.4	5040.6	5045.4	5088.1	5116.7	5130.9	5130.9
47.5°	5587.0	5572.7	5506.2	5468.2	5444.5	5411.2	5411.2	5435.0	5449.2	5454.0	5454.0
50°	5862.5	5848.3	5781.8	5777.0	5777.0	5762.8	5748.5	5743.8	5734.3	5739.0	5739.0
52.5°	6100.1	6081.1	6033.6	6043.1	6085.8	6095.3	6076.3	6038.3	6000.3	5986.1	5990.8
55°	6356.6	6328.1	6290.1	6318.6	6404.1	6442.1	6413.6	6337.6	6271.1	6228.3	6228.3
57.5°	6560.9	6527.7	6527.7	6608.4	6765.2	6841.2	6779.4	6636.9	6522.9	6475.4	6480.1
60°	6418.4	6389.9	6503.9	6860.2	7154.8	7283.0	7178.5	6926.7	6741.4	6684.4	6693.9
62.5°	6138.1	6119.1	6261.6	6812.7	7506.3	7772.4	7615.6	7254.5	6979.0	6912.5	6912.5
65°	5724.8	5720.0	5919.5	6598.9	7587.1	8242.7	8109.7	7610.8	7254.5	7164.3	7183.3
67.5°	5297.2	5297.2	5477.7	6233.1	7492.1	8442.2	8546.8	7933.9	7387.6	7164.3	7169.0
70°	4541.8	4622.6	5102.4	5895.8	7145.3	8299.7	8727.3	7705.9	6807.9	6413.6	6399.4
72.5°	2993.0	3097.5	4052.5	5306.7	6803.2	7781.9	7876.9	6769.9	5653.5	5192.7	5168.9
75°	1805.3	1895.6	2627.2	4142.7	5981.3	6266.4	5848.3	5306.7	4223.5	3862.4	3862.4
77.5°	532.1	593.9	1211.5	2627.2	4138.0	4119.0	3605.9	3126.1	2498.9	2123.6	2152.1
80°	313.6	323.1	394.3	1197.2	1715.1	1805.3	1392.0	869.4	869.4	646.1	627.1
82.5°	242.3	242.3	251.8	299.3	413.3	460.8	351.6	299.3	342.1	289.8	275.5
85°	171.0	171.0	171.0	175.8	180.5	185.3	194.8	199.5	218.5	180.5	171.0
87.5°	52.3	57.0	61.8	71.3	85.5	90.3	95.0	85.5	85.5	80.8	76.0
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)