

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: P157646

Luminaire Tested: **VST-F12-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157646
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F12-LED-E-U-5WQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32095.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 306.6
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: 28.75 FT



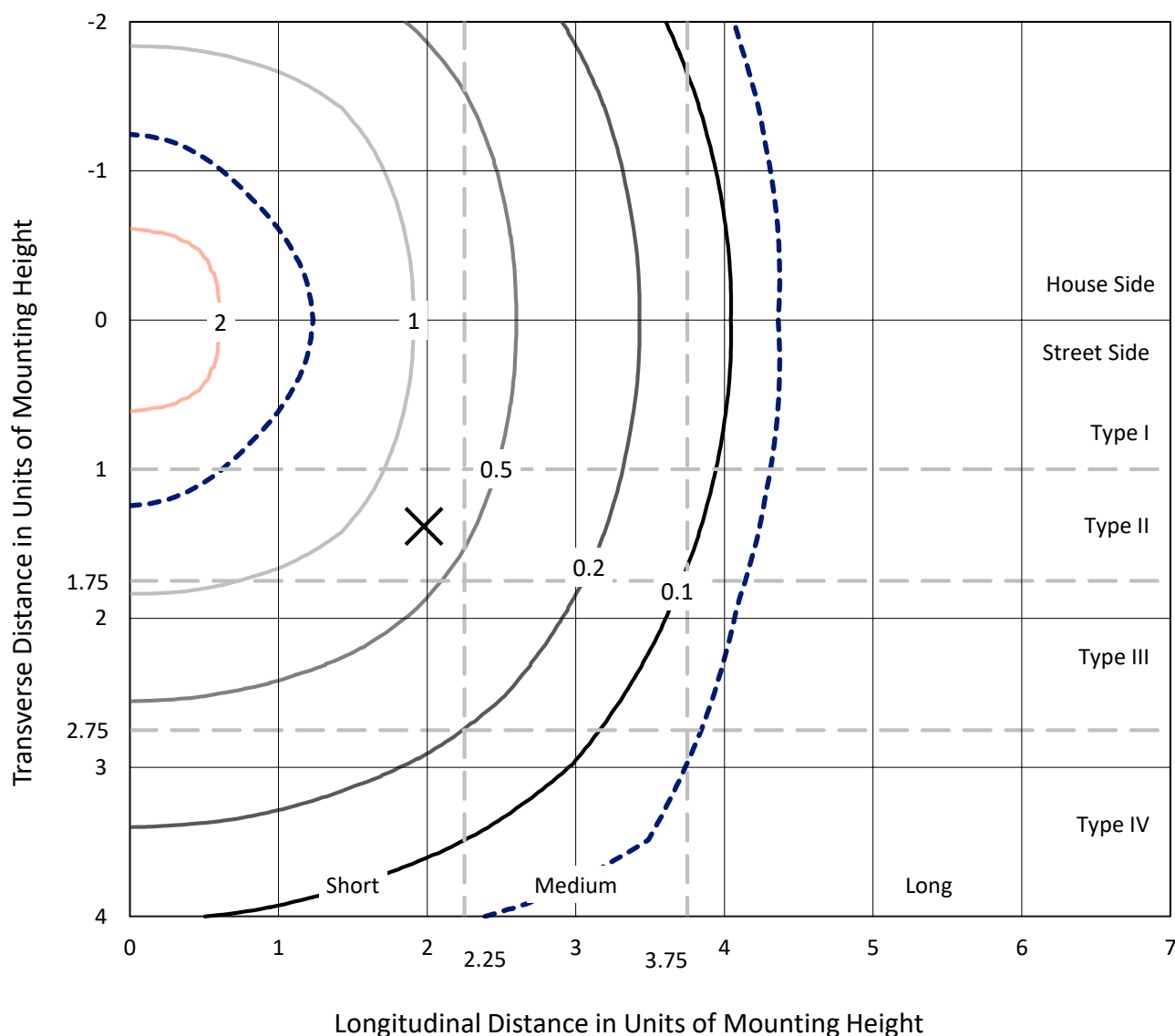
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

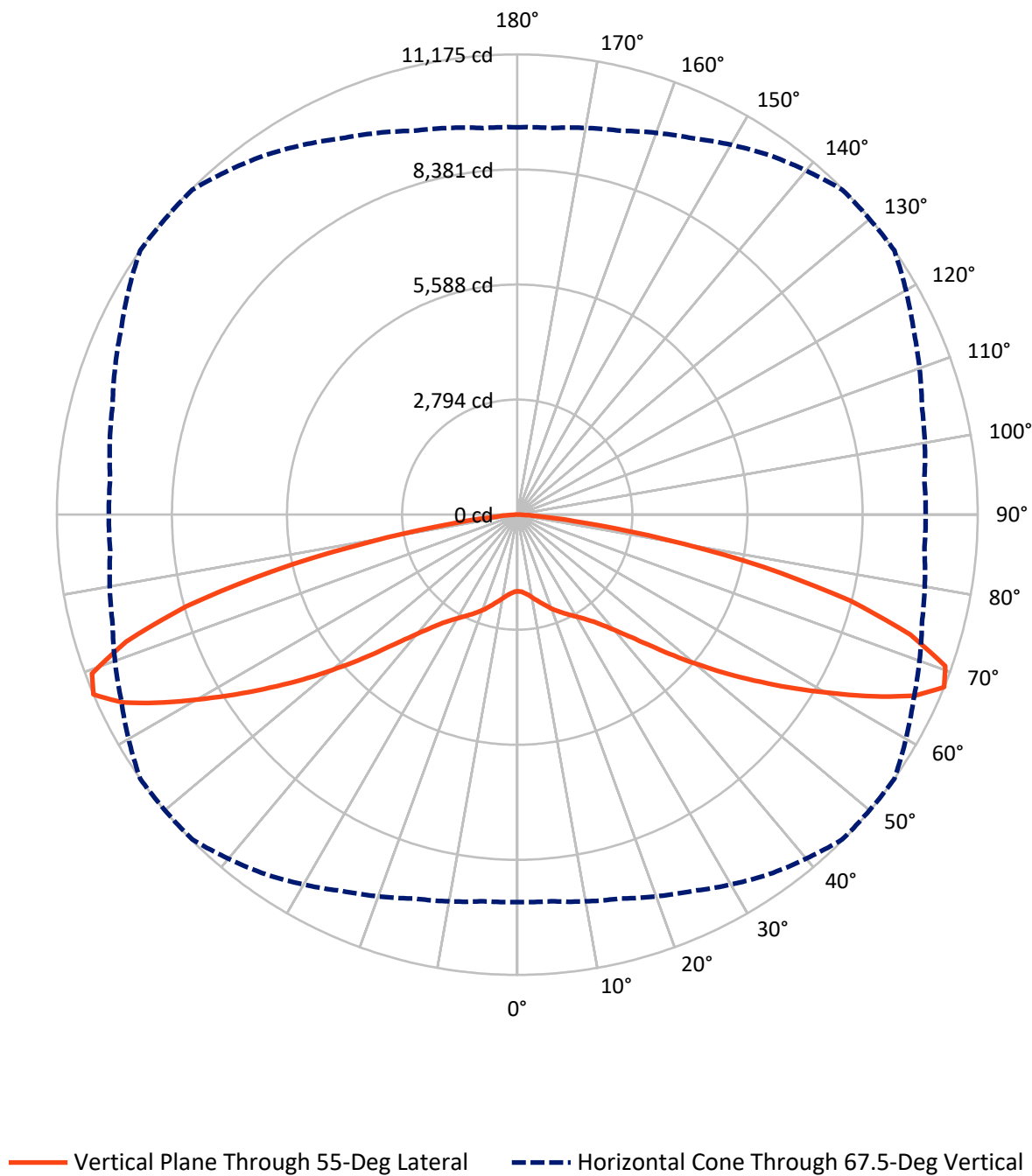


Based on 30 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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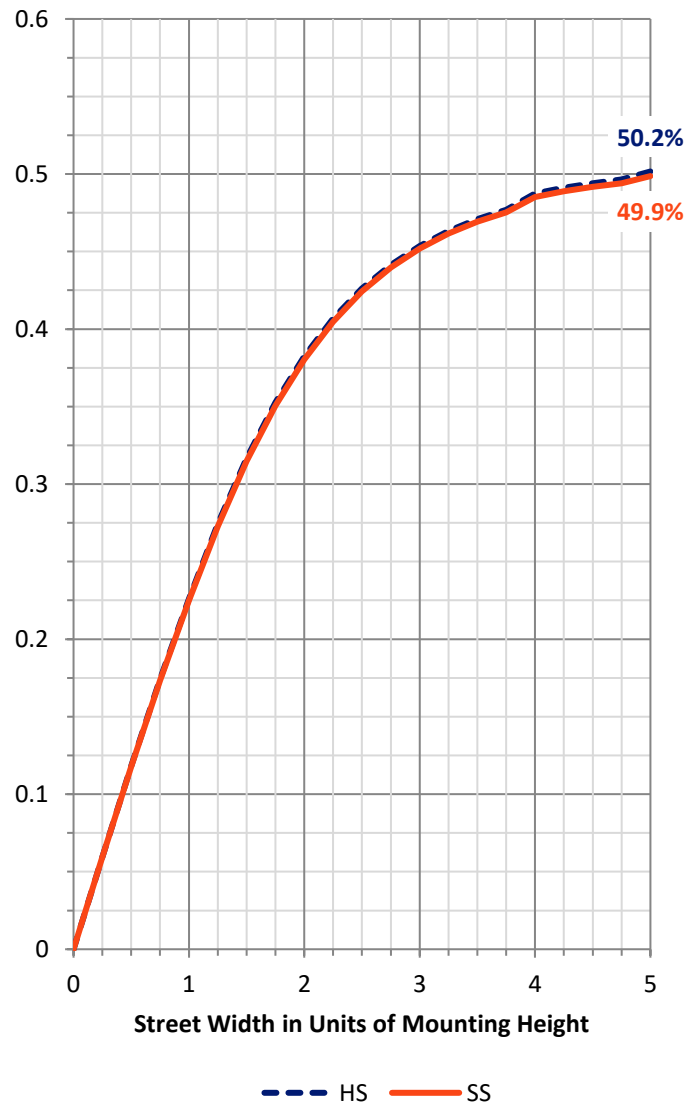
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16047.8	0.0	16047.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16047.8	0.0	16047.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	32095.6	0.0	32095.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	0.6
10°-20°	638.6	2.0
20°-30°	1227.9	3.8
30°-40°	2011.5	6.3
40°-50°	3496.9	10.9
50°-60°	6241.6	19.4
60°-70°	9636.7	30.0
70°-80°	7801.0	24.3
80°-90°	854.5	2.7
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°	32095.6	100.0
0°-180°	32095.6	100.0

Coefficient of Utilization



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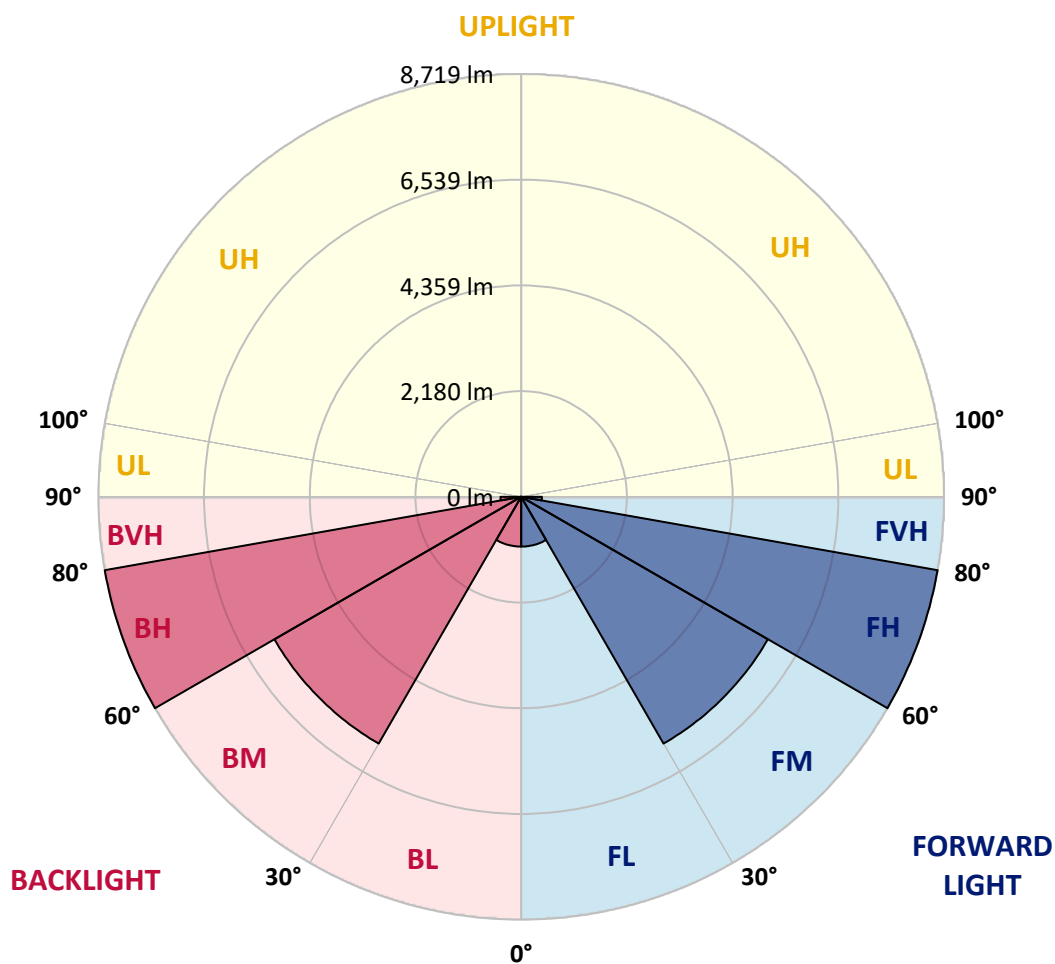
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.7	3.2			
FM	(30°-60°)	5875.0	18.3			
FH	(60°-80°)	8718.8	27.2			G4/12000
FVH	(80°-90°)	427.3	1.3			G3/500
BL	(0°-30°)	1026.7	3.2	B3/2500		
BM	(30°-60°)	5875.0	18.3	B4/8500		
BH	(60°-80°)	8718.8	27.2	B5		G4/12000
BVH	(80°-90°)	427.3	1.3			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2	1862.2
2.5°	1874.4	1876.4	1874.4	1874.4	1872.4	1872.4	1872.4	1874.4	1874.4	1878.5	1876.4
5°	1913.0	1915.1	1911.0	1915.1	1915.1	1917.1	1915.1	1913.0	1915.1	1917.1	1911.0
7.5°	1967.9	1972.0	1970.0	1972.0	1974.0	1972.0	1972.0	1970.0	1974.0	1972.0	1967.9
10°	2039.1	2043.1	2041.1	2045.2	2047.2	2049.2	2049.2	2045.2	2043.1	2043.1	2041.1
12.5°	2124.5	2124.5	2124.5	2130.6	2134.6	2138.7	2136.7	2132.6	2126.5	2128.5	2120.4
15°	2218.0	2222.0	2222.0	2224.1	2234.2	2236.3	2234.2	2228.1	2226.1	2222.0	2218.0
17.5°	2321.7	2323.7	2325.7	2327.8	2340.0	2346.1	2337.9	2327.8	2327.8	2325.7	2325.7
20°	2429.4	2427.4	2431.4	2435.5	2443.6	2449.7	2447.7	2437.5	2429.4	2435.5	2433.5
22.5°	2529.0	2531.1	2533.1	2539.2	2553.4	2555.5	2549.4	2541.2	2531.1	2533.1	2533.1
25°	2622.5	2624.6	2628.6	2636.8	2653.0	2663.2	2655.1	2642.9	2628.6	2628.6	2630.7
27.5°	2718.1	2720.1	2722.2	2736.4	2756.7	2768.9	2762.8	2742.5	2726.2	2722.2	2716.1
30°	2823.8	2823.8	2827.9	2846.2	2872.6	2886.8	2878.7	2854.3	2829.9	2825.8	2825.8
32.5°	2958.0	2949.9	2956.0	2980.4	3008.8	3025.1	3019.0	2990.5	2960.0	2953.9	2953.9
35°	3118.6	3114.5	3118.6	3147.1	3181.6	3206.0	3191.8	3165.4	3132.8	3126.7	3122.7
37.5°	3309.7	3311.7	3323.9	3356.5	3403.2	3433.7	3419.5	3376.8	3338.2	3338.2	3338.2
40°	3551.6	3555.7	3580.1	3628.9	3696.0	3722.4	3706.1	3653.3	3608.5	3592.3	3596.3
42.5°	3881.0	3878.9	3917.6	3978.5	4057.8	4096.5	4070.0	4013.1	3948.1	3921.6	3923.7
45°	4269.3	4297.7	4338.4	4415.6	4515.3	4582.3	4535.6	4472.6	4375.0	4336.3	4334.3
47.5°	4738.9	4769.4	4820.2	4948.3	5068.2	5149.5	5112.9	5009.3	4869.0	4814.1	4793.8
50°	5273.6	5312.2	5377.2	5541.9	5712.7	5804.2	5739.1	5602.9	5452.5	5369.1	5348.8
52.5°	5875.3	5887.5	5985.1	6184.3	6395.8	6507.6	6434.4	6271.7	6078.6	6001.4	5944.4
55°	6542.1	6552.3	6664.1	6889.8	7129.7	7261.8	7168.3	6963.0	6784.1	6649.9	6662.1
57.5°	7160.2	7190.7	7355.3	7619.6	7902.2	8062.8	7961.2	7743.6	7556.6	7404.1	7422.4
60°	7820.9	7853.4	8026.2	8341.3	8723.5	8937.0	8804.8	8571.0	8377.9	8233.6	8215.3
62.5°	8522.3	8540.6	8729.6	9012.2	9500.1	9843.7	9717.7	9459.5	9233.8	9091.5	9077.3
65°	9170.8	9195.2	9355.8	9664.8	10166.9	10669.1	10597.9	10240.1	9935.2	9729.8	9701.4
67.5°	9406.6	9422.9	9648.5	10081.6	10658.9	11155.0	11175.3	10612.2	10169.0	9918.9	9912.8
70°	9130.1	9142.3	9431.0	9945.3	10681.3	11094.0	11020.8	10455.6	9910.8	9603.8	9573.3
72.5°	8510.1	8512.1	8776.4	9213.5	9951.4	10288.9	9977.9	9666.8	9103.7	8874.0	8813.0
75°	7381.8	7383.8	7566.8	7857.5	8384.0	8695.1	8341.3	8056.7	7725.3	7589.1	7518.0
77.5°	5076.4	5106.8	5295.9	5631.4	6208.7	6552.3	6088.8	5572.4	5371.1	5255.3	5186.1
80°	2443.6	2490.4	2707.9	3039.3	3643.1	4192.0	3620.7	2984.4	2592.1	2272.9	2329.8
82.5°	652.6	660.7	847.8	1217.8	1697.5	1992.3	1618.3	1132.4	713.6	479.8	439.1
85°	172.8	183.0	256.2	351.7	534.7	681.0	520.4	331.4	252.1	187.0	170.8
87.5°	46.8	54.9	89.5	107.7	134.2	107.7	134.2	115.9	111.8	59.0	42.7
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)