

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: P841585

Luminaire Tested: **ARCH4-200-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841585
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: ARCH4-200-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

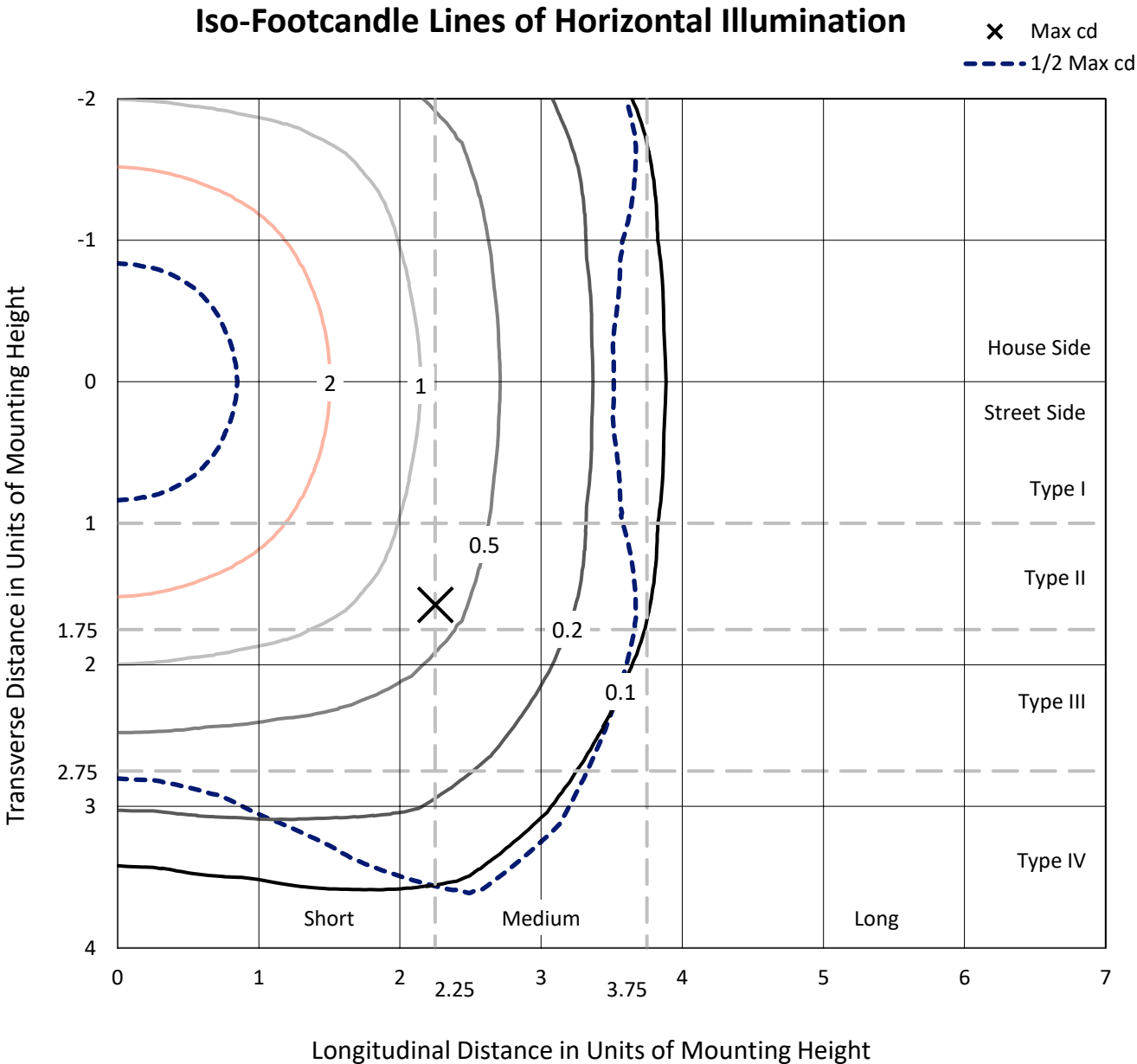
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29633 lumens
Efficiency: N/A
Efficacy: 145.5 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): 203.7
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



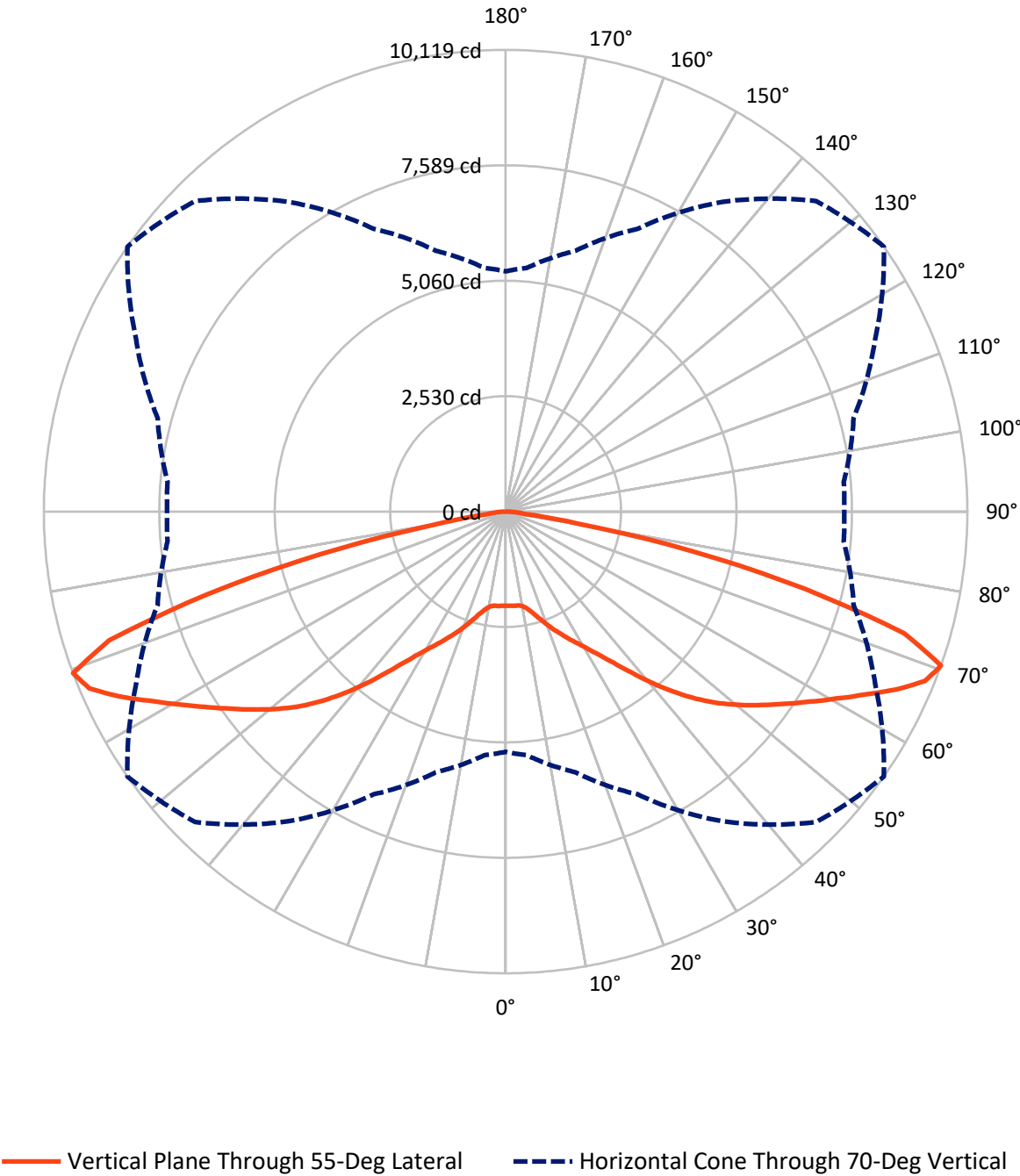
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Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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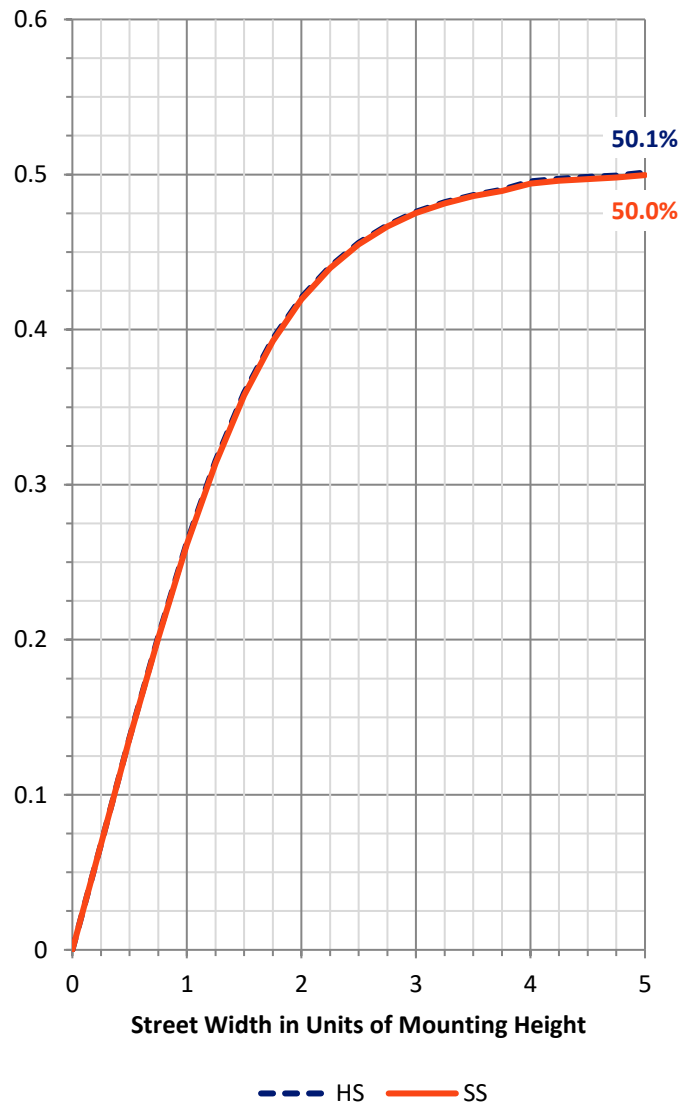
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14816.5	0.0	14816.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14816.5	0.0	14816.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29633.0	0.0	29633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	0.7
10°-20°	678.7	2.3
20°-30°	1410.3	4.8
30°-40°	2604.7	8.8
40°-50°	4575.9	15.4
50°-60°	6599.5	22.3
60°-70°	8077.1	27.3
70°-80°	5139.6	17.3
80°-90°	347.8	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°	29633.0	100.0
0°-180°	29633.0	100.0

Coefficient of Utilization



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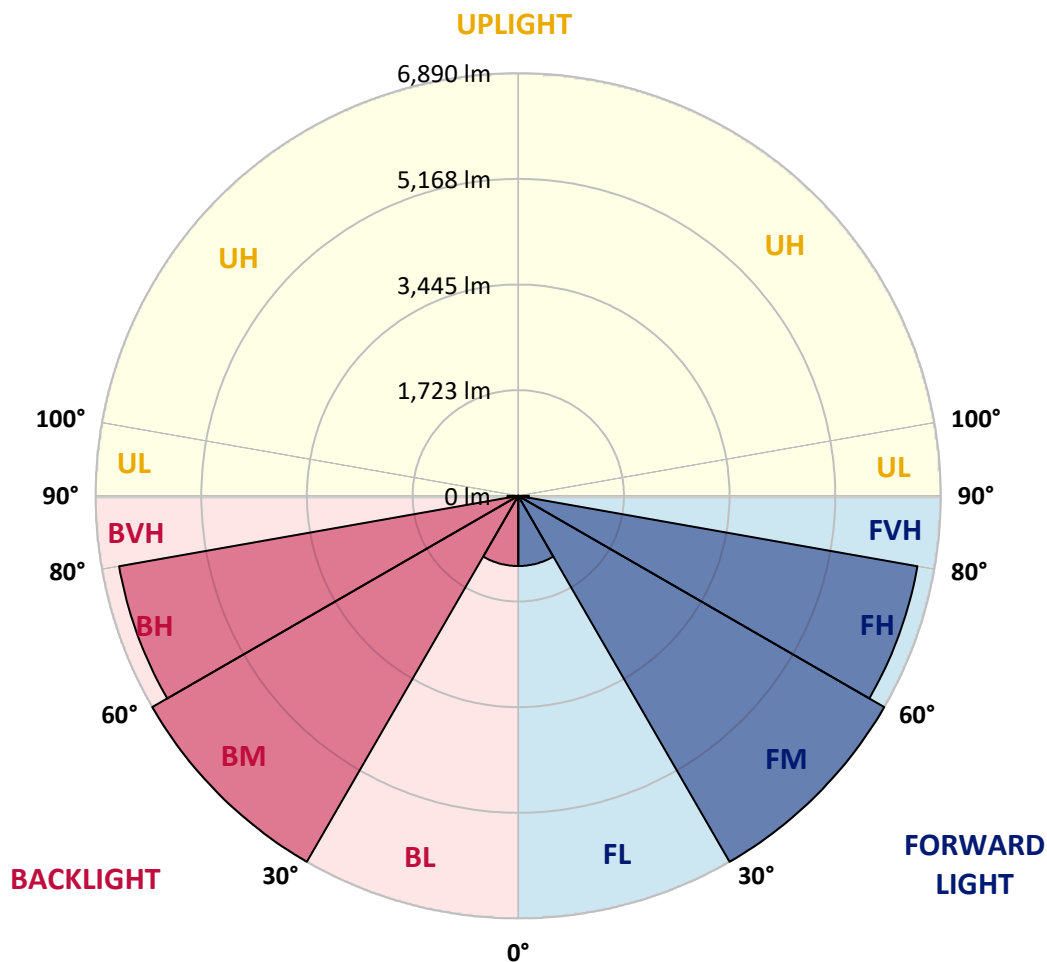
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.2	3.9			
FM	(30°-60°)	6890.1	23.3			
FH	(60°-80°)	6608.4	22.3			G3/7500
FVH	(80°-90°)	173.9	0.6			G2/225
BL	(0°-30°)	1144.2	3.9	B3/2500		
BM	(30°-60°)	6890.1	23.3	B4/8500		
BH	(60°-80°)	6608.4	22.3	B5		G3/7500
BVH	(80°-90°)	173.9	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°	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7	2065.7
2.5°	2093.2	2093.2	2087.7	2087.7	2076.7	2071.2	2065.7	2065.7	2060.2	2060.2	2054.7
5°	2104.3	2104.3	2104.3	2098.8	2093.2	2087.7	2076.7	2065.7	2060.2	2054.7	2049.2
7.5°	2109.8	2109.8	2104.3	2104.3	2098.8	2093.2	2076.7	2060.2	2054.7	2049.2	2049.2
10°	2153.8	2148.3	2142.8	2131.8	2131.8	2131.8	2109.8	2093.2	2087.7	2087.7	2087.7
12.5°	2258.5	2253.0	2242.0	2225.4	2225.4	2231.0	2197.9	2175.9	2175.9	2170.4	2170.4
15°	2412.7	2407.2	2396.2	2368.7	2363.2	2374.2	2324.6	2302.6	2302.6	2302.6	2297.1
17.5°	2583.5	2572.5	2556.0	2533.9	2533.9	2533.9	2484.3	2456.8	2440.3	2440.3	2434.8
20°	2726.7	2721.2	2721.2	2715.7	2732.2	2732.2	2666.1	2622.1	2583.5	2561.5	2556.0
22.5°	2853.4	2847.9	2858.9	2881.0	2914.0	2925.0	2847.9	2781.8	2721.2	2677.1	2666.1
25°	3024.2	3018.7	3013.2	3046.2	3101.3	3117.8	3035.2	2952.6	2892.0	2869.9	2858.9
27.5°	3206.0	3211.5	3217.0	3250.0	3294.1	3321.6	3239.0	3161.9	3112.3	3079.3	3068.3
30°	3409.8	3420.8	3437.3	3486.9	3520.0	3531.0	3459.4	3404.3	3360.2	3332.7	3316.1
32.5°	3668.7	3690.7	3712.8	3756.8	3773.3	3762.3	3729.3	3690.7	3657.7	3619.1	3613.6
35°	4054.3	4076.3	4070.8	4087.3	4092.8	4081.8	4065.3	4043.3	4026.7	3977.2	3971.7
37.5°	4539.0	4561.1	4528.0	4511.5	4472.9	4478.4	4472.9	4489.5	4495.0	4445.4	4439.9
40°	5029.3	5051.3	5007.3	4963.2	4924.6	4908.1	4935.6	4990.7	4990.7	4957.7	4957.7
42.5°	5552.6	5569.1	5497.5	5442.4	5392.9	5381.8	5398.4	5464.5	5481.0	5475.5	5475.5
45°	6075.9	6064.9	5971.2	5916.2	5872.1	5844.6	5850.1	5899.6	5932.7	5949.2	5949.2
47.5°	6478.0	6461.5	6384.4	6340.3	6312.8	6274.2	6274.2	6301.8	6318.3	6323.8	6323.8
50°	6797.5	6781.0	6703.9	6698.4	6698.4	6681.8	6665.3	6659.8	6648.8	6654.3	6654.3
52.5°	7073.0	7050.9	6995.8	7006.9	7056.4	7067.4	7045.4	7001.3	6957.3	6940.8	6946.3
55°	7370.4	7337.4	7293.3	7326.3	7425.5	7469.6	7436.5	7348.4	7271.3	7221.7	7221.7
57.5°	7607.3	7568.7	7568.7	7662.4	7844.2	7932.3	7860.7	7695.4	7563.2	7508.1	7513.6
60°	7442.0	7409.0	7541.2	7954.3	8295.8	8444.6	8323.4	8031.4	7816.6	7750.5	7761.5
62.5°	7117.0	7095.0	7260.2	7899.2	8703.5	9012.0	8830.2	8411.5	8092.0	8014.9	8014.9
65°	6637.8	6632.3	6863.6	7651.4	8797.1	9557.3	9403.1	8824.7	8411.5	8306.9	8328.9
67.5°	6142.0	6142.0	6351.3	7227.2	8687.0	9788.7	9909.8	9199.2	8565.8	8306.9	8312.4
70°	5266.2	5359.8	5916.2	6836.1	8284.8	9623.4	10119.2	8934.8	7893.7	7436.5	7420.0
72.5°	3470.4	3591.6	4698.8	6153.0	7888.2	9023.0	9133.1	7849.7	6555.2	6020.8	5993.3
75°	2093.2	2197.9	3046.2	4803.4	6935.2	7265.8	6781.0	6153.0	4897.1	4478.4	4478.4
77.5°	617.0	688.6	1404.7	3046.2	4797.9	4775.9	4181.0	3624.6	2897.5	2462.3	2495.4
80°	363.6	374.6	457.2	1388.2	1988.6	2093.2	1614.0	1008.1	1008.1	749.2	727.1
82.5°	280.9	280.9	292.0	347.0	479.2	534.3	407.6	347.0	396.6	336.0	319.5
85°	198.3	198.3	198.3	203.8	209.3	214.8	225.8	231.4	253.4	209.3	198.3
87.5°	60.6	66.1	71.6	82.6	99.2	104.7	110.2	99.2	99.2	93.6	88.1
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)