

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: P841369

Luminaire Tested: **ARCH4-170-727-U-5WQ**

Issue Date: 5/27/2024

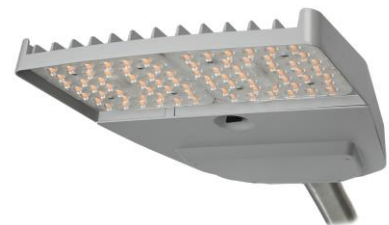
Test Information

Test Method: LM-79-08
Report Number: P841369
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: ARCH4-170-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25850 lumens
Efficiency: N/A
Efficacy: 152.2 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): 169.8
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

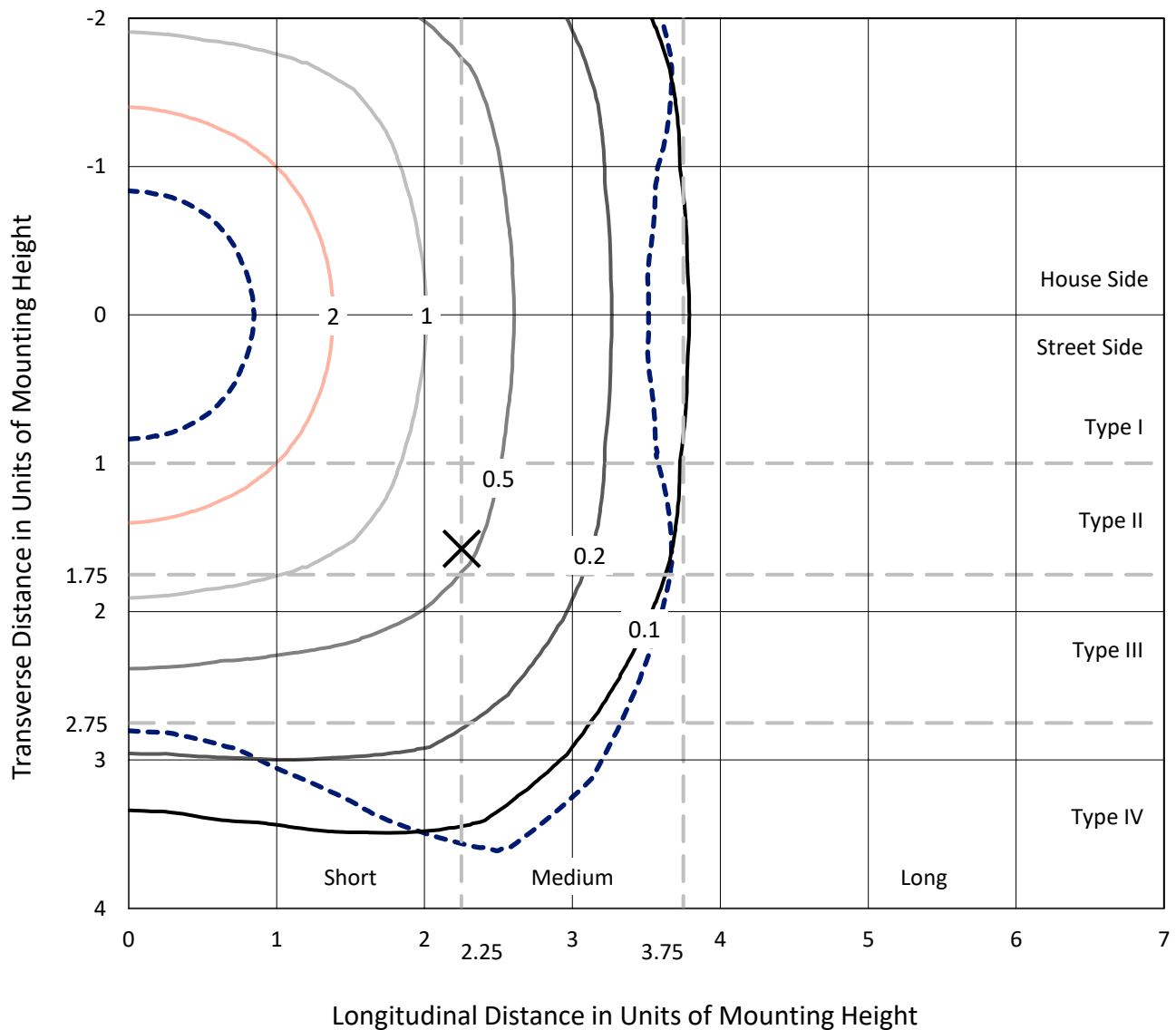


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Iso-Footcandle Lines of Horizontal Illumination

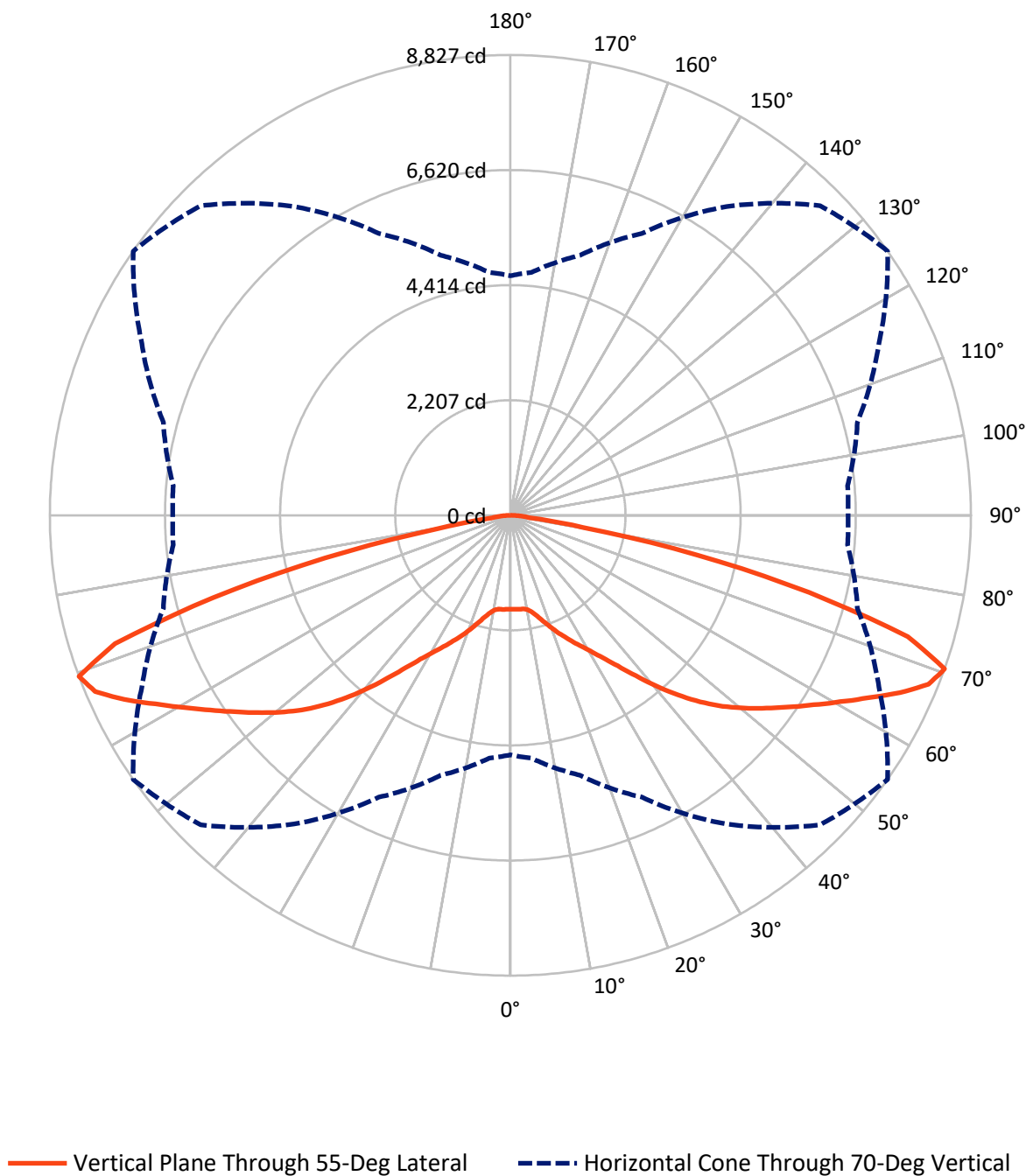
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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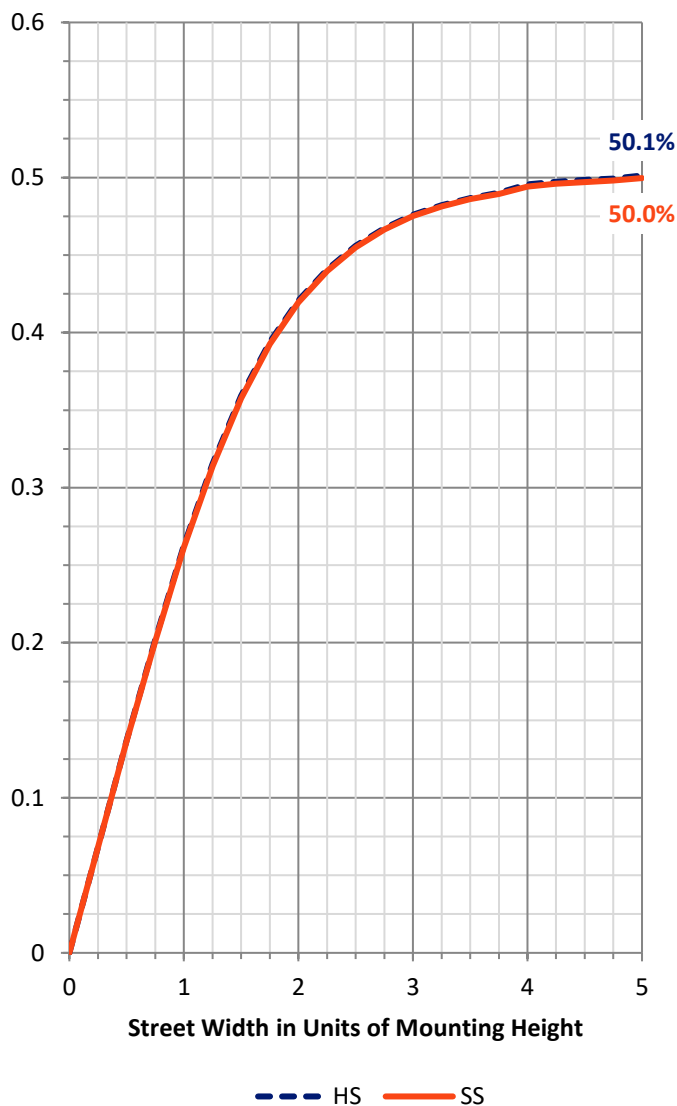
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12925.0	0.0	12925.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12925.0	0.0	12925.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25850.0	0.0	25850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	0.7
10°-20°	592.1	2.3
20°-30°	1230.2	4.8
30°-40°	2272.2	8.8
40°-50°	3991.7	15.4
50°-60°	5757.0	22.3
60°-70°	7046.0	27.3
70°-80°	4483.5	17.3
80°-90°	303.4	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°	25850.0	100.0
0°-180°	25850.0	100.0

Coefficient of Utilization



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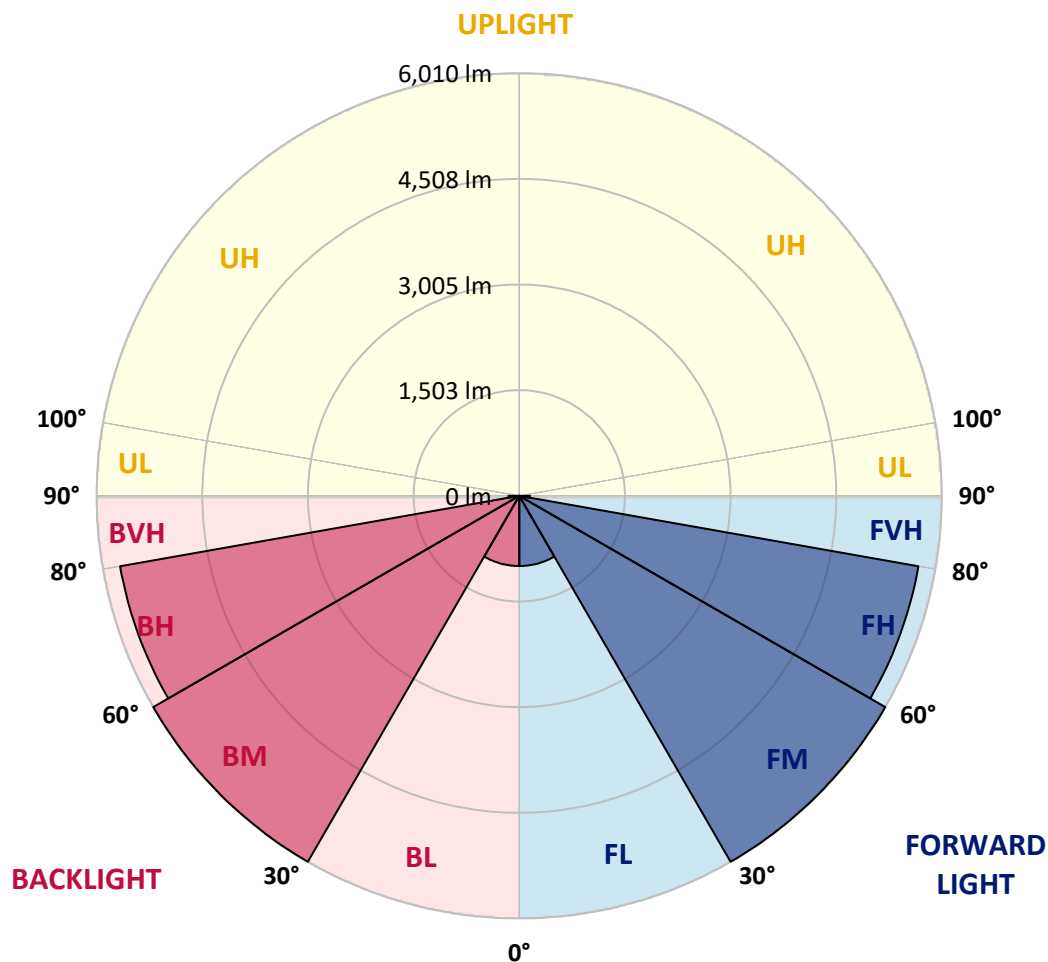
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	998.1	3.9			
FM	(30°-60°)	6010.5	23.3			
FH	(60°-80°)	5764.7	22.3			G3/7500
FVH	(80°-90°)	151.7	0.6			G2/225
BL	(0°-30°)	998.1	3.9	B2/1000		
BM	(30°-60°)	6010.5	23.3	B4/8500		
BH	(60°-80°)	5764.7	22.3	B5		G3/7500
BVH	(80°-90°)	151.7	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°	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0	1802.0
2.5°	1826.0	1826.0	1821.2	1821.2	1811.6	1806.8	1802.0	1802.0	1797.2	1797.2	1792.4
5°	1835.6	1835.6	1835.6	1830.8	1826.0	1821.2	1811.6	1802.0	1797.2	1792.4	1787.6
7.5°	1840.4	1840.4	1835.6	1835.6	1830.8	1826.0	1811.6	1797.2	1792.4	1787.6	1787.6
10°	1878.9	1874.1	1869.3	1859.7	1859.7	1859.7	1840.4	1826.0	1821.2	1821.2	1821.2
12.5°	1970.2	1965.4	1955.8	1941.3	1941.3	1946.1	1917.3	1898.1	1898.1	1893.3	1893.3
15°	2104.7	2099.9	2090.3	2066.3	2061.5	2071.1	2027.8	2008.6	2008.6	2008.6	2003.8
17.5°	2253.7	2244.1	2229.7	2210.4	2210.4	2210.4	2167.2	2143.2	2128.7	2128.7	2123.9
20°	2378.6	2373.8	2373.8	2369.0	2383.4	2383.4	2325.8	2287.3	2253.7	2234.5	2229.7
22.5°	2489.1	2484.3	2494.0	2513.2	2542.0	2551.6	2484.3	2426.7	2373.8	2335.4	2325.8
25°	2638.1	2633.3	2628.5	2657.3	2705.4	2719.8	2647.7	2575.6	2522.8	2503.6	2494.0
27.5°	2796.7	2801.5	2806.3	2835.1	2873.6	2897.6	2825.5	2758.2	2715.0	2686.2	2676.6
30°	2974.5	2984.1	2998.5	3041.8	3070.6	3080.2	3017.7	2969.7	2931.2	2907.2	2892.8
32.5°	3200.3	3219.6	3238.8	3277.2	3291.6	3282.0	3253.2	3219.6	3190.7	3157.1	3152.3
35°	3536.7	3555.9	3551.1	3565.5	3570.3	3560.7	3546.3	3527.1	3512.7	3469.4	3464.6
37.5°	3959.6	3978.8	3950.0	3935.5	3901.9	3906.7	3901.9	3916.3	3921.1	3877.9	3873.1
40°	4387.2	4406.5	4368.0	4329.6	4295.9	4281.5	4305.6	4353.6	4353.6	4324.8	4324.8
42.5°	4843.7	4858.2	4795.7	4747.6	4704.4	4694.8	4709.2	4766.9	4781.3	4776.5	4776.5
45°	5300.2	5290.6	5208.9	5160.9	5122.5	5098.4	5103.2	5146.5	5175.3	5189.7	5189.7
47.5°	5651.0	5636.6	5569.3	5530.9	5506.9	5473.2	5473.2	5497.3	5511.7	5516.5	5516.5
50°	5929.7	5915.3	5848.1	5843.2	5843.2	5828.8	5814.4	5809.6	5800.0	5804.8	5804.8
52.5°	6170.0	6150.8	6102.7	6112.3	6155.6	6165.2	6146.0	6107.5	6069.1	6054.7	6059.5
55°	6429.5	6400.7	6362.2	6391.1	6477.5	6516.0	6487.2	6410.3	6343.0	6299.8	6299.8
57.5°	6636.1	6602.5	6602.5	6684.2	6842.8	6919.6	6857.2	6713.0	6597.7	6549.6	6554.4
60°	6492.0	6463.1	6578.5	6938.9	7236.8	7366.5	7260.8	7006.1	6818.7	6761.1	6770.7
62.5°	6208.5	6189.2	6333.4	6890.8	7592.4	7861.5	7702.9	7337.7	7059.0	6991.7	6991.7
65°	5790.4	5785.6	5987.4	6674.6	7674.1	8337.2	8202.7	7698.1	7337.7	7246.4	7265.6
67.5°	5357.9	5357.9	5540.5	6304.6	7578.0	8539.0	8644.7	8024.9	7472.2	7246.4	7251.2
70°	4593.9	4675.6	5160.9	5963.4	7227.2	8394.9	8827.3	7794.2	6886.0	6487.2	6472.7
72.5°	3027.3	3133.1	4098.9	5367.5	6881.2	7871.1	7967.2	6847.6	5718.3	5252.2	5228.2
75°	1826.0	1917.3	2657.3	4190.2	6049.9	6338.2	5915.3	5367.5	4271.9	3906.7	3906.7
77.5°	538.2	600.7	1225.4	2657.3	4185.4	4166.2	3647.2	3161.9	2527.6	2148.0	2176.8
80°	317.2	326.8	398.8	1210.9	1734.7	1826.0	1408.0	879.4	879.4	653.5	634.3
82.5°	245.1	245.1	254.7	302.7	418.1	466.1	355.6	302.7	346.0	293.1	278.7
85°	173.0	173.0	173.0	177.8	182.6	187.4	197.0	201.8	221.0	182.6	173.0
87.5°	52.9	57.7	62.5	72.1	86.5	91.3	96.1	86.5	86.5	81.7	76.9
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)