

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: P841009

Luminaire Tested: **ARCH4-120-727-U-5WQ**

Issue Date: 5/27/2024

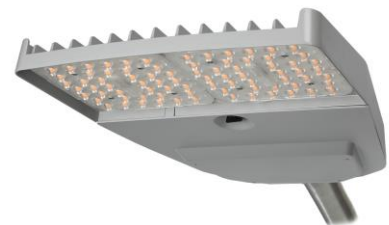
Test Information

Test Method: LM-79-08
Report Number: P841009
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: ARCH4-120-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19455 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 122
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

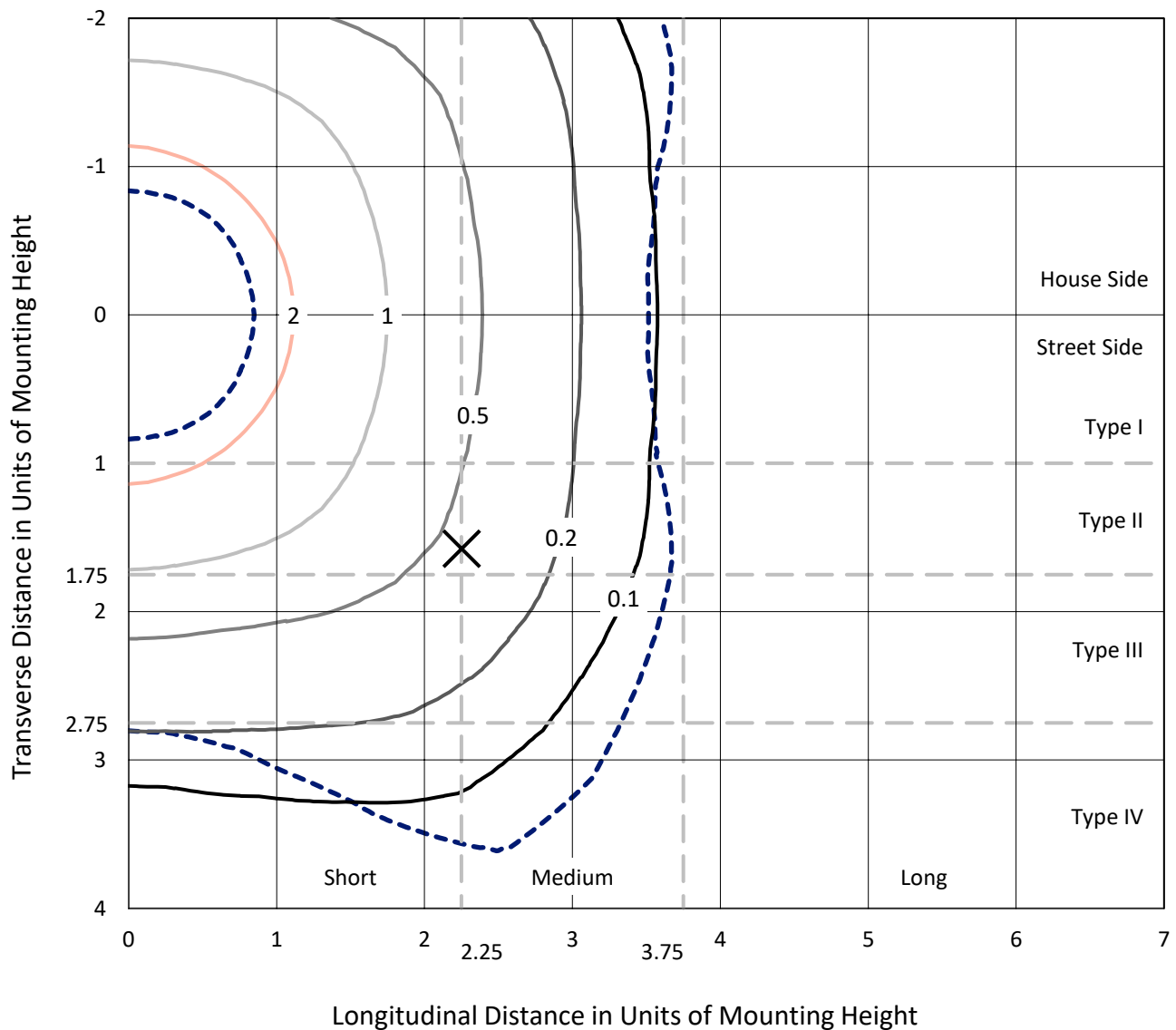


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Iso-Footcandle Lines of Horizontal Illumination

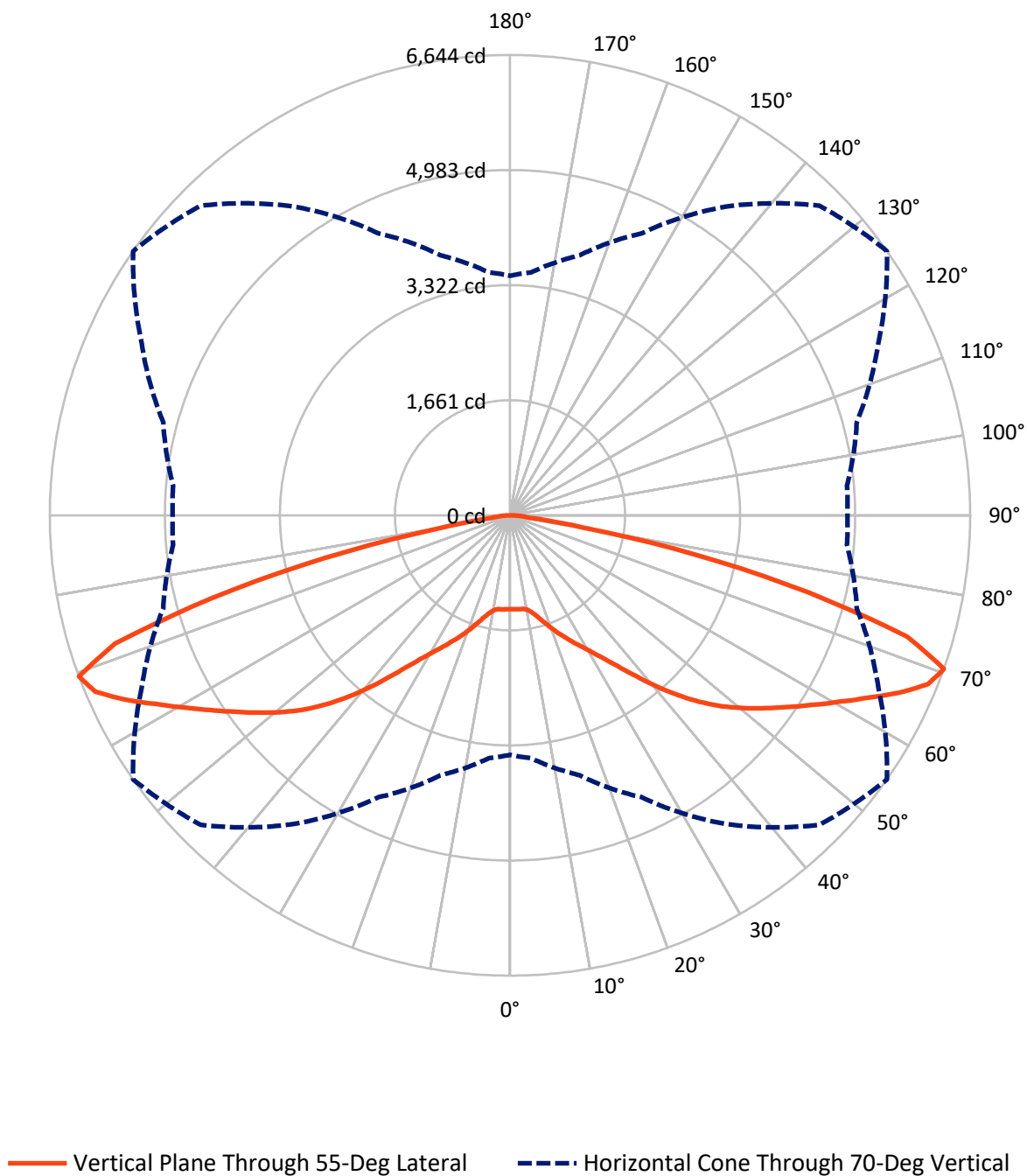
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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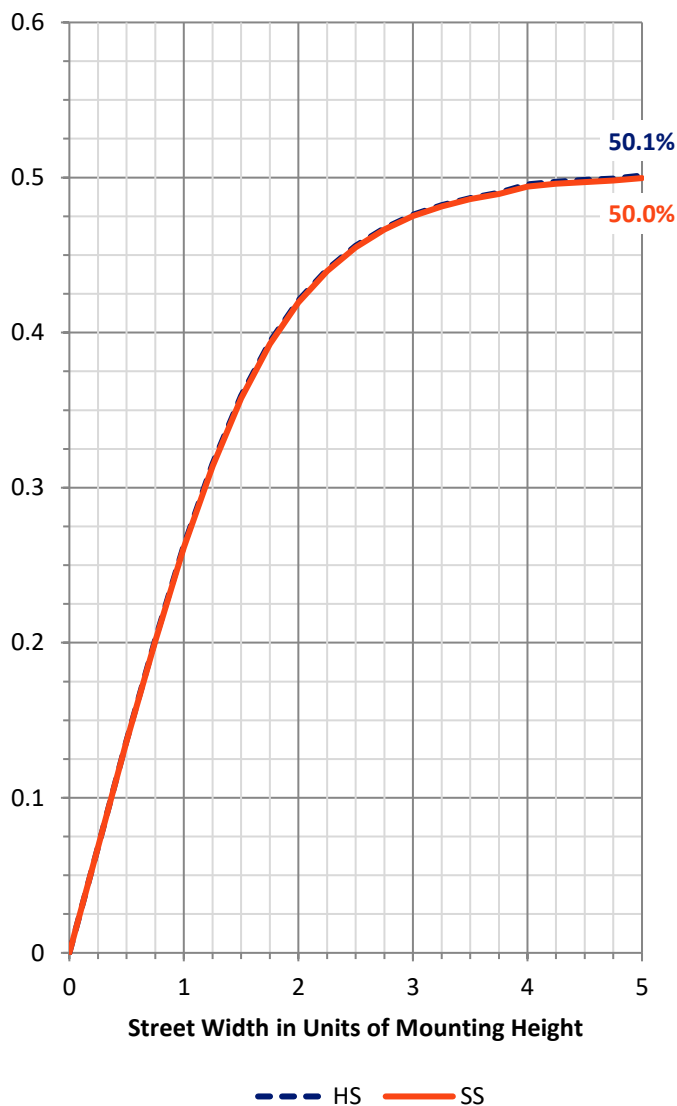
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9727.5	0.0	9727.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9727.5	0.0	9727.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19455.0	0.0	19455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	0.7
10°-20°	445.6	2.3
20°-30°	925.9	4.8
30°-40°	1710.1	8.8
40°-50°	3004.2	15.4
50°-60°	4332.8	22.3
60°-70°	5302.9	27.3
70°-80°	3374.3	17.3
80°-90°	228.3	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°	19455.0	100.0
0°-180°	19455.0	100.0

Coefficient of Utilization



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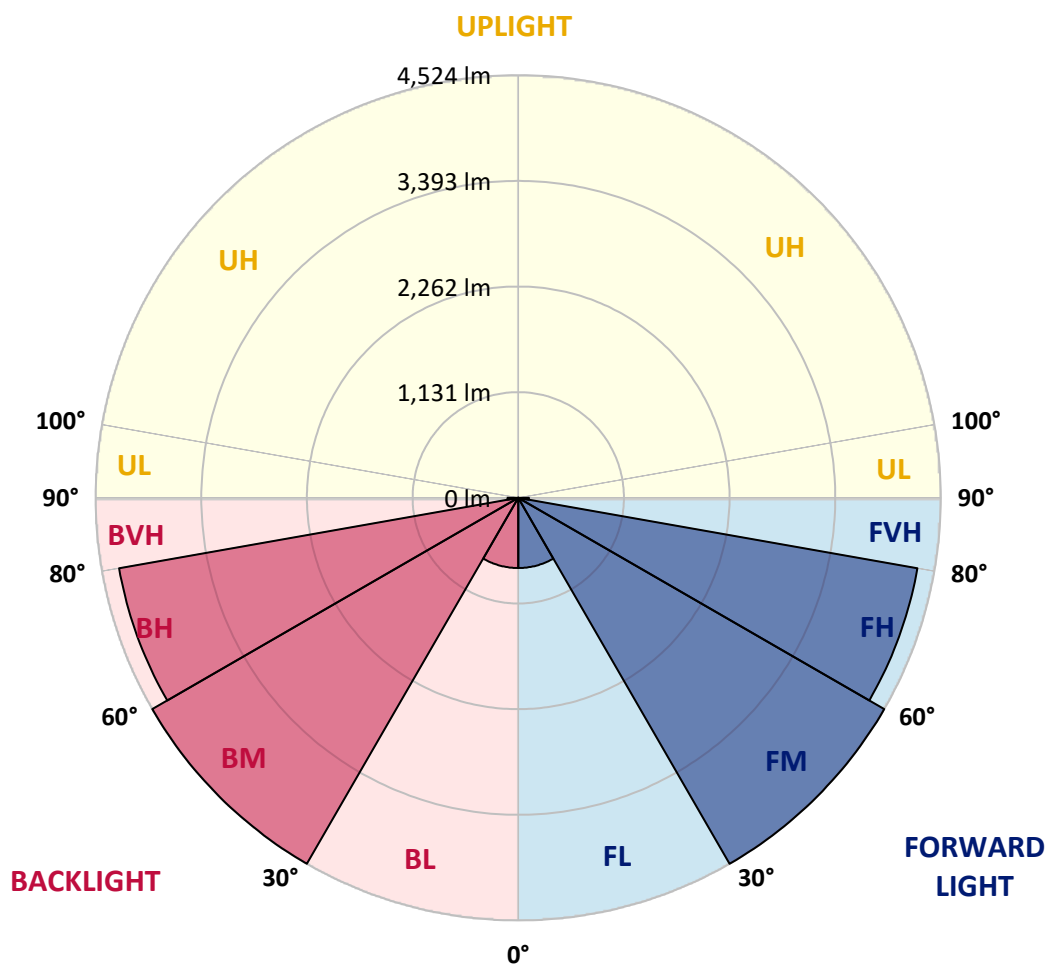
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.2	3.9			
FM	(30°-60°)	4523.5	23.3			
FH	(60°-80°)	4338.6	22.3			G2/5000
FVH	(80°-90°)	114.2	0.6			G2/225
BL	(0°-30°)	751.2	3.9	B2/1000		
BM	(30°-60°)	4523.5	23.3	B3/5000		
BH	(60°-80°)	4338.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	114.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2
2.5°	1374.3	1374.3	1370.7	1370.7	1363.4	1359.8	1356.2	1356.2	1352.6	1352.6	1349.0
5°	1381.5	1381.5	1381.5	1377.9	1374.3	1370.7	1363.4	1356.2	1352.6	1349.0	1345.3
7.5°	1385.1	1385.1	1381.5	1381.5	1377.9	1374.3	1363.4	1352.6	1349.0	1345.3	1345.3
10°	1414.1	1410.4	1406.8	1399.6	1399.6	1399.6	1385.1	1374.3	1370.7	1370.7	1370.7
12.5°	1482.8	1479.2	1471.9	1461.1	1461.1	1464.7	1443.0	1428.5	1428.5	1424.9	1424.9
15°	1584.0	1580.4	1573.2	1555.1	1551.5	1558.7	1526.2	1511.7	1511.7	1511.7	1508.1
17.5°	1696.2	1688.9	1678.1	1663.6	1663.6	1663.6	1631.1	1613.0	1602.1	1602.1	1598.5
20°	1790.2	1786.6	1786.6	1782.9	1793.8	1793.8	1750.4	1721.5	1696.2	1681.7	1678.1
22.5°	1873.4	1869.7	1877.0	1891.4	1913.1	1920.4	1869.7	1826.3	1786.6	1757.6	1750.4
25°	1985.5	1981.9	1978.2	1999.9	2036.1	2047.0	1992.7	1938.5	1898.7	1884.2	1877.0
27.5°	2104.8	2108.4	2112.1	2133.7	2162.7	2180.8	2126.5	2075.9	2043.3	2021.6	2014.4
30°	2238.6	2245.9	2256.7	2289.3	2311.0	2318.2	2271.2	2235.0	2206.1	2188.0	2177.1
32.5°	2408.6	2423.1	2437.5	2466.5	2477.3	2470.1	2448.4	2423.1	2401.4	2376.1	2372.4
35°	2661.8	2676.2	2672.6	2683.5	2687.1	2679.8	2669.0	2654.5	2643.7	2611.1	2607.5
37.5°	2980.0	2994.5	2972.8	2961.9	2936.6	2940.2	2936.6	2947.5	2951.1	2918.5	2914.9
40°	3301.9	3316.4	3287.4	3258.5	3233.2	3222.3	3240.4	3276.6	3276.6	3254.9	3254.9
42.5°	3645.5	3656.3	3609.3	3573.1	3540.6	3533.3	3544.2	3587.6	3598.4	3594.8	3594.8
45°	3989.0	3981.8	3920.3	3884.1	3855.2	3837.1	3840.7	3873.3	3895.0	3905.8	3905.8
47.5°	4253.0	4242.2	4191.6	4162.6	4144.5	4119.2	4119.2	4137.3	4148.2	4151.8	4151.8
50°	4462.8	4451.9	4401.3	4397.7	4397.7	4386.8	4376.0	4372.4	4365.1	4368.8	4368.8
52.5°	4643.6	4629.2	4593.0	4600.2	4632.8	4640.0	4625.5	4596.6	4567.7	4556.8	4560.4
55°	4838.9	4817.2	4788.3	4810.0	4875.1	4904.0	4882.3	4824.4	4773.8	4741.3	4741.3
57.5°	4994.4	4969.1	4969.1	5030.6	5149.9	5207.8	5160.8	5052.3	4965.5	4929.3	4932.9
60°	4885.9	4864.2	4951.0	5222.3	5446.5	5544.1	5464.6	5272.9	5131.8	5088.5	5095.7
62.5°	4672.6	4658.1	4766.6	5186.1	5714.1	5916.6	5797.3	5522.4	5312.7	5262.0	5262.0
65°	4357.9	4354.3	4506.2	5023.4	5775.6	6274.7	6173.4	5793.7	5522.4	5453.7	5468.2
67.5°	4032.4	4032.4	4169.9	4744.9	5703.3	6426.6	6506.1	6039.6	5623.7	5453.7	5457.3
70°	3457.4	3518.9	3884.1	4488.1	5439.3	6318.1	6643.6	5866.0	5182.5	4882.3	4871.5
72.5°	2278.4	2358.0	3084.9	4039.7	5178.9	5923.9	5996.2	5153.5	4303.7	3952.9	3934.8
75°	1374.3	1443.0	1999.9	3153.6	4553.2	4770.2	4451.9	4039.7	3215.1	2940.2	2940.2
77.5°	405.1	452.1	922.2	1999.9	3150.0	3135.5	2744.9	2379.7	1902.3	1616.6	1638.3
80°	238.7	245.9	300.2	911.4	1305.6	1374.3	1059.6	661.8	661.8	491.8	477.4
82.5°	184.4	184.4	191.7	227.8	314.6	350.8	267.6	227.8	260.4	220.6	209.8
85°	130.2	130.2	130.2	133.8	137.4	141.0	148.3	151.9	166.4	137.4	130.2
87.5°	39.8	43.4	47.0	54.2	65.1	68.7	72.3	65.1	65.1	61.5	57.9
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)