

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: P842737

Luminaire Tested: **ARCH4-90-727-U-5WQ**

Issue Date: 5/27/2024

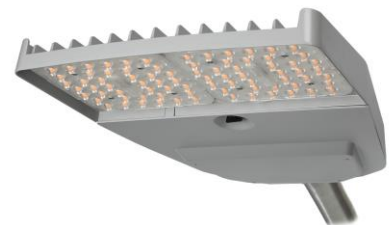
Test Information

Test Method: LM-79-08
Report Number: P842737
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: ARCH4-90-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15182 lumens
Efficiency: N/A
Efficacy: 163.1 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): 93.1
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

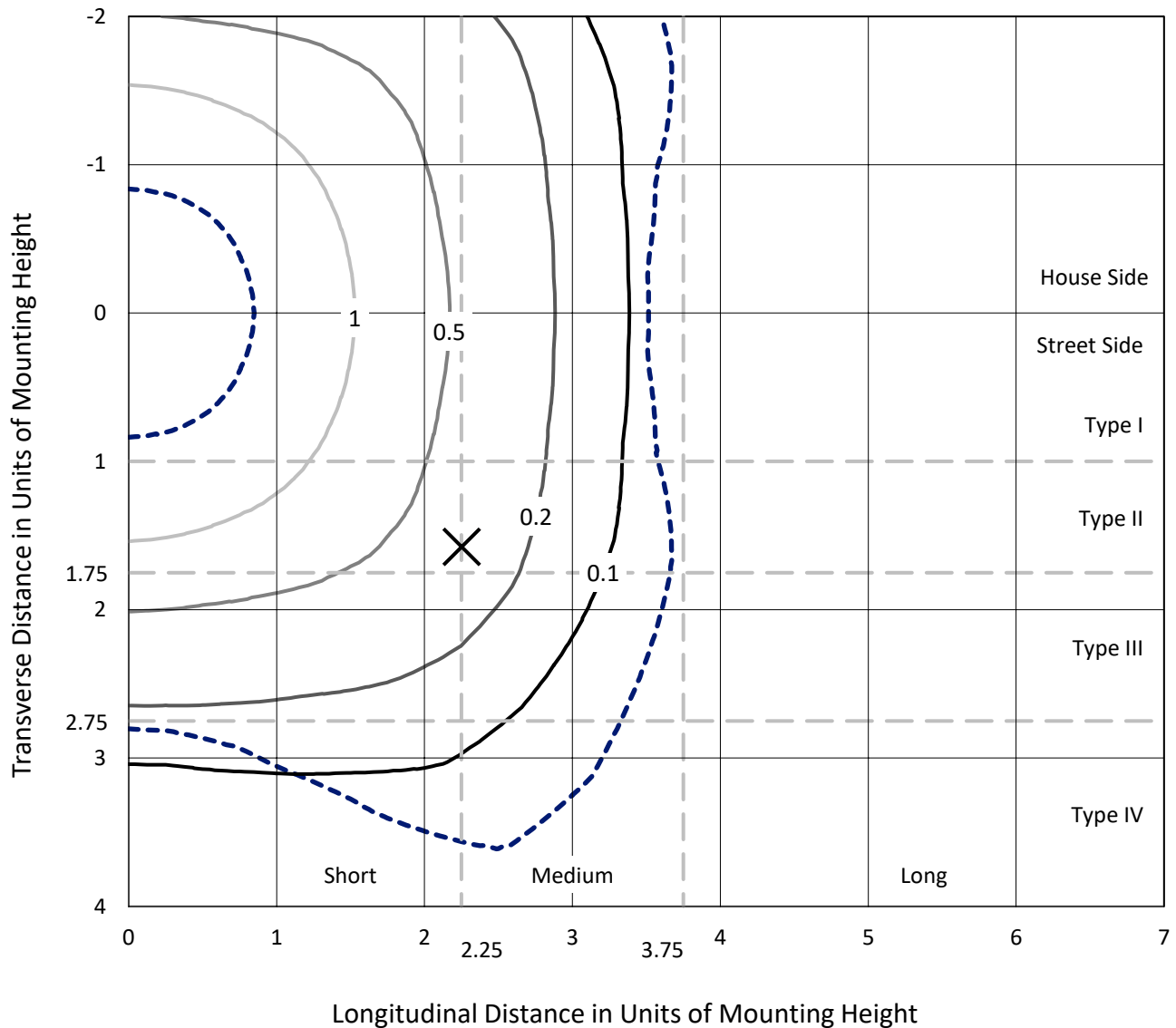


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

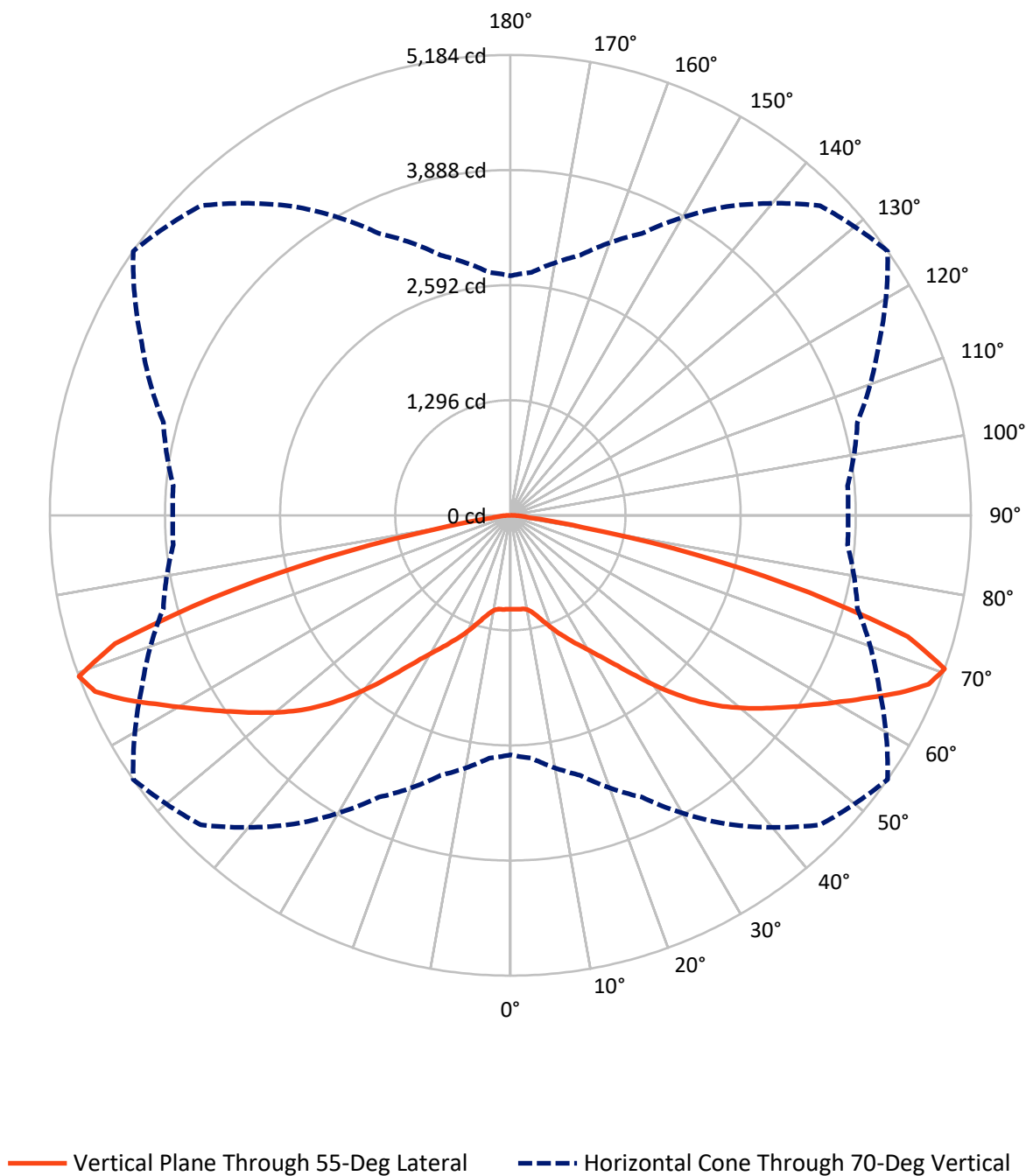


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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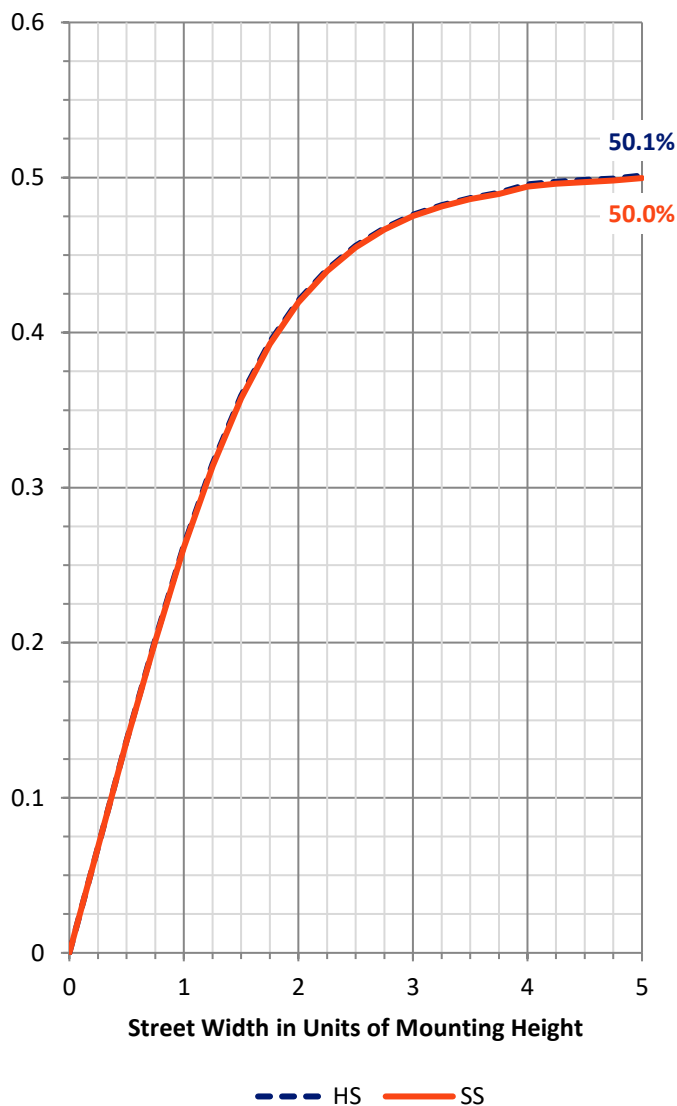
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7591.0	0.0	7591.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7591.0	0.0	7591.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15182.0	0.0	15182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	0.7
10°-20°	347.7	2.3
20°-30°	722.5	4.8
30°-40°	1334.5	8.8
40°-50°	2344.4	15.4
50°-60°	3381.2	22.3
60°-70°	4138.2	27.3
70°-80°	2633.2	17.3
80°-90°	178.2	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°	15182.0	100.0
0°-180°	15182.0	100.0

Coefficient of Utilization



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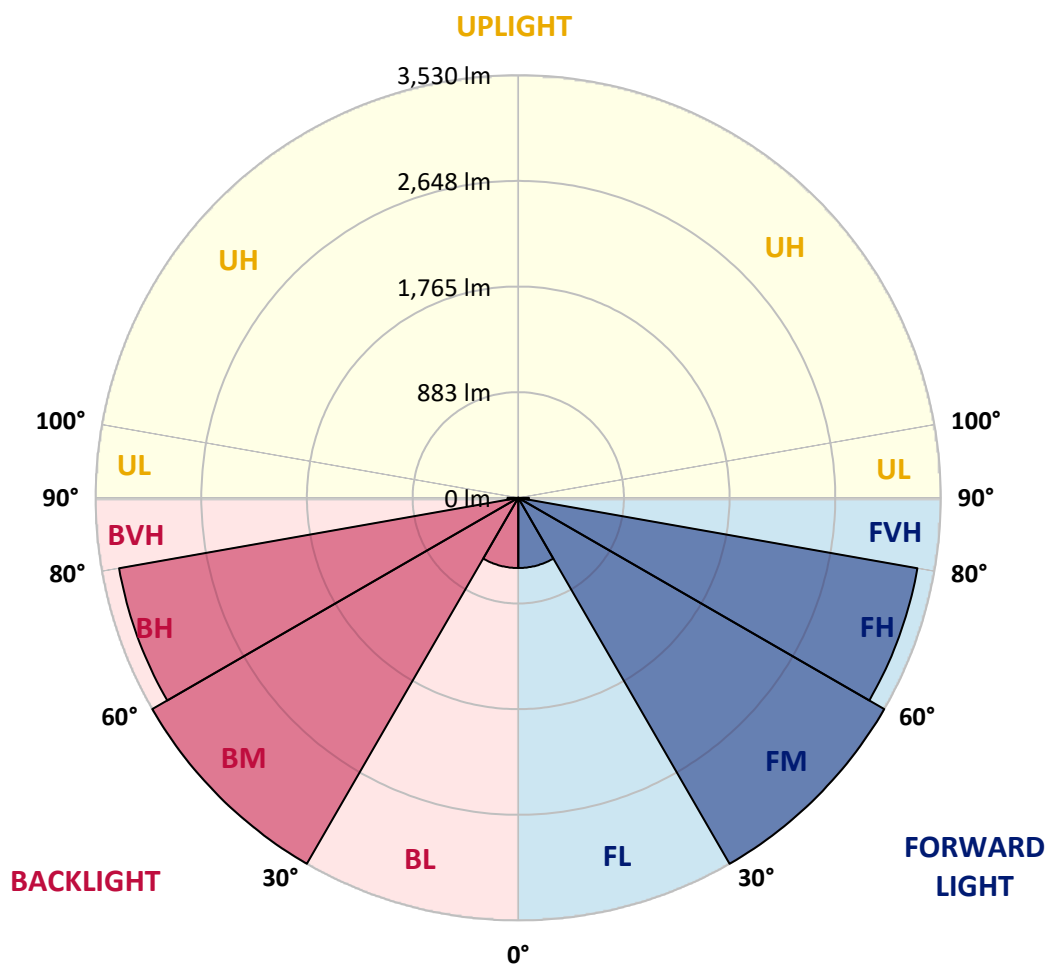
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.2	3.9			
FM	(30°-60°)	3530.0	23.3			
FH	(60°-80°)	3385.7	22.3			G2/5000
FVH	(80°-90°)	89.1	0.6			G1/100
BL	(0°-30°)	586.2	3.9	B2/1000		
BM	(30°-60°)	3530.0	23.3	B3/5000		
BH	(60°-80°)	3385.7	22.3	B4/5000		G2/5000
BVH	(80°-90°)	89.1	0.6			G1/100
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°	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1072.4	1072.4	1069.6	1069.6	1064.0	1061.2	1058.3	1058.3	1055.5	1055.5	1052.7
5°	1078.1	1078.1	1078.1	1075.3	1072.4	1069.6	1064.0	1058.3	1055.5	1052.7	1049.9
7.5°	1080.9	1080.9	1078.1	1078.1	1075.3	1072.4	1064.0	1055.5	1052.7	1049.9	1049.9
10°	1103.5	1100.7	1097.8	1092.2	1092.2	1092.2	1080.9	1072.4	1069.6	1069.6	1069.6
12.5°	1157.1	1154.3	1148.6	1140.2	1140.2	1143.0	1126.1	1114.8	1114.8	1112.0	1112.0
15°	1236.1	1233.3	1227.7	1213.6	1210.7	1216.4	1191.0	1179.7	1179.7	1179.7	1176.9
17.5°	1323.6	1318.0	1309.5	1298.2	1298.2	1298.2	1272.8	1258.7	1250.2	1250.2	1247.4
20°	1397.0	1394.2	1394.2	1391.3	1399.8	1399.8	1365.9	1343.4	1323.6	1312.3	1309.5
22.5°	1461.9	1459.1	1464.7	1476.0	1492.9	1498.6	1459.1	1425.2	1394.2	1371.6	1365.9
25°	1549.4	1546.6	1543.7	1560.7	1588.9	1597.4	1555.0	1512.7	1481.7	1470.4	1464.7
27.5°	1642.5	1645.3	1648.2	1665.1	1687.7	1701.8	1659.5	1619.9	1594.5	1577.6	1572.0
30°	1746.9	1752.6	1761.1	1786.5	1803.4	1809.0	1772.3	1744.1	1721.5	1707.4	1699.0
32.5°	1879.6	1890.9	1902.2	1924.7	1933.2	1927.6	1910.6	1890.9	1873.9	1854.2	1851.4
35°	2077.1	2088.4	2085.6	2094.1	2096.9	2091.3	2082.8	2071.5	2063.0	2037.6	2034.8
37.5°	2325.5	2336.8	2319.9	2311.4	2291.6	2294.5	2291.6	2300.1	2302.9	2277.5	2274.7
40°	2576.7	2588.0	2565.4	2542.8	2523.1	2514.6	2528.7	2556.9	2556.9	2540.0	2540.0
42.5°	2844.8	2853.3	2816.6	2788.3	2762.9	2757.3	2765.8	2799.6	2808.1	2805.3	2805.3
45°	3112.9	3107.3	3059.3	3031.1	3008.5	2994.4	2997.2	3022.6	3039.5	3048.0	3048.0
47.5°	3318.9	3310.5	3270.9	3248.4	3234.3	3214.5	3214.5	3228.6	3237.1	3239.9	3239.9
50°	3482.6	3474.1	3434.6	3431.8	3431.8	3423.3	3414.9	3412.1	3406.4	3409.2	3409.2
52.5°	3623.7	3612.4	3584.2	3589.9	3615.3	3620.9	3609.6	3587.0	3564.5	3556.0	3558.8
55°	3776.1	3759.2	3736.6	3753.5	3804.3	3826.9	3810.0	3764.8	3725.3	3699.9	3699.9
57.5°	3897.5	3877.7	3877.7	3925.7	4018.8	4064.0	4027.3	3942.6	3874.9	3846.7	3849.5
60°	3812.8	3795.9	3863.6	4075.3	4250.2	4326.4	4264.4	4114.8	4004.7	3970.8	3976.5
62.5°	3646.3	3635.0	3719.7	4047.0	4459.1	4617.1	4524.0	4309.5	4145.8	4106.3	4106.3
65°	3400.8	3397.9	3516.5	3920.0	4507.1	4896.5	4817.5	4521.2	4309.5	4255.9	4267.2
67.5°	3146.8	3146.8	3254.0	3702.7	4450.6	5015.1	5077.2	4713.1	4388.5	4255.9	4258.7
70°	2698.0	2746.0	3031.1	3502.4	4244.6	4930.4	5184.4	4577.6	4044.2	3810.0	3801.5
72.5°	1778.0	1840.1	2407.3	3152.4	4041.4	4622.8	4679.2	4021.6	3358.4	3084.7	3070.6
75°	1072.4	1126.1	1560.7	2461.0	3553.2	3722.5	3474.1	3152.4	2508.9	2294.5	2294.5
77.5°	316.1	352.8	719.7	1560.7	2458.1	2446.9	2142.1	1857.0	1484.5	1261.5	1278.5
80°	186.3	191.9	234.2	711.2	1018.8	1072.4	826.9	516.5	516.5	383.8	372.5
82.5°	143.9	143.9	149.6	177.8	245.5	273.8	208.8	177.8	203.2	172.2	163.7
85°	101.6	101.6	101.6	104.4	107.2	110.1	115.7	118.5	129.8	107.2	101.6
87.5°	31.0	33.9	36.7	42.3	50.8	53.6	56.4	50.8	50.8	48.0	45.2
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)