

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: P230980

Luminaire Tested: **ARCH-M-AF48-130-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-M-AF48-130-D-U-5WQ-7050
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 845mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16574 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 131
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



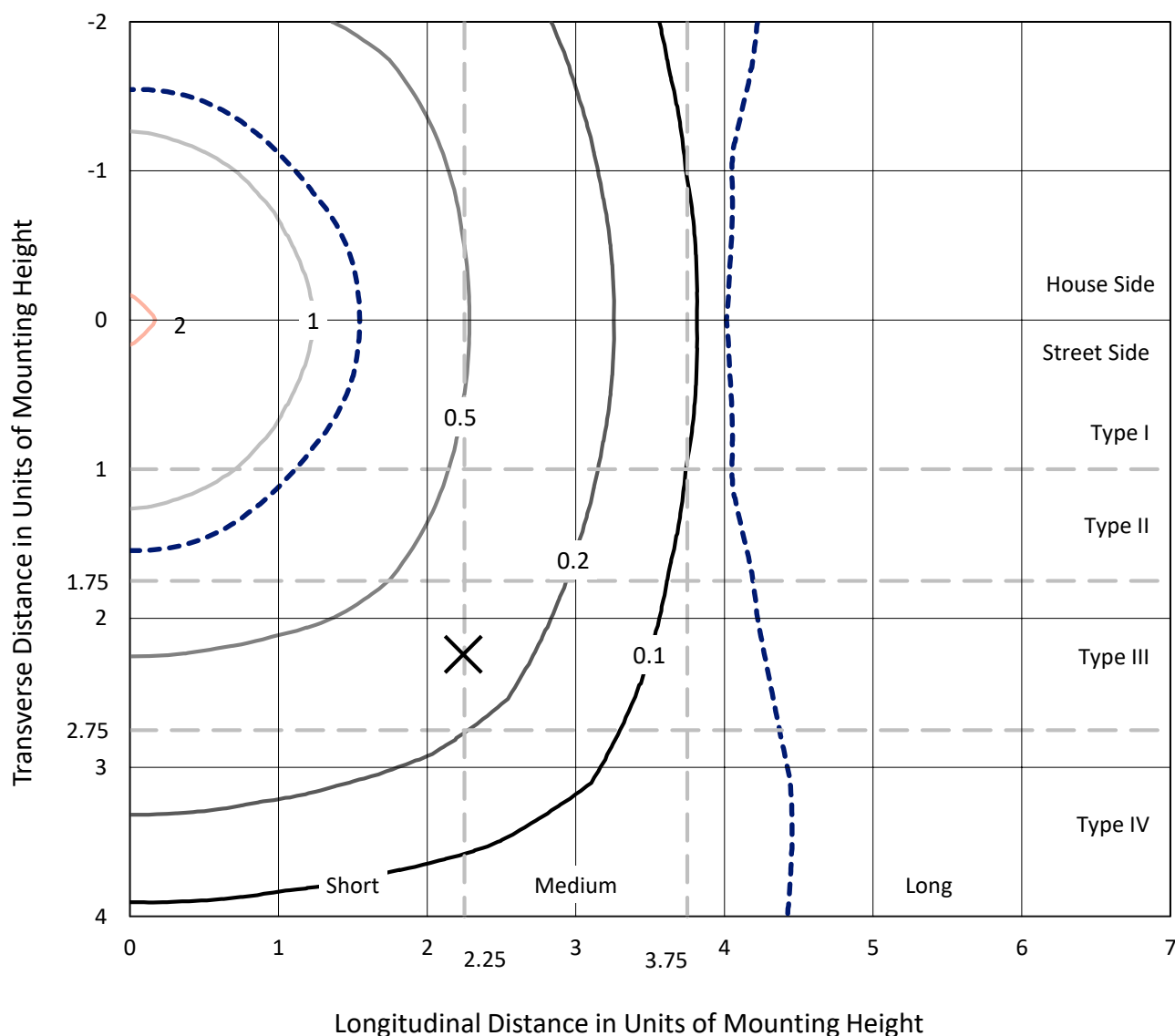
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

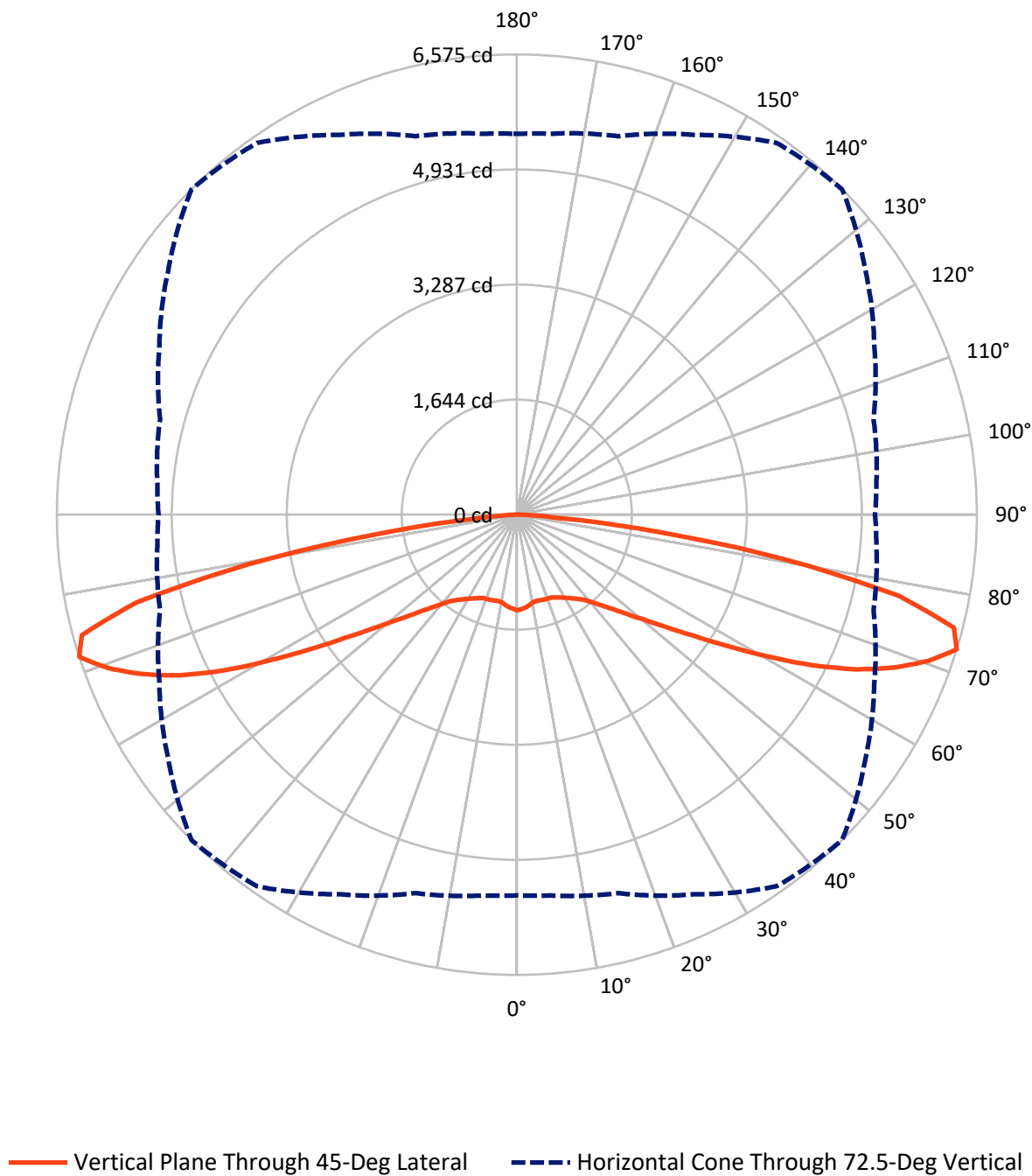


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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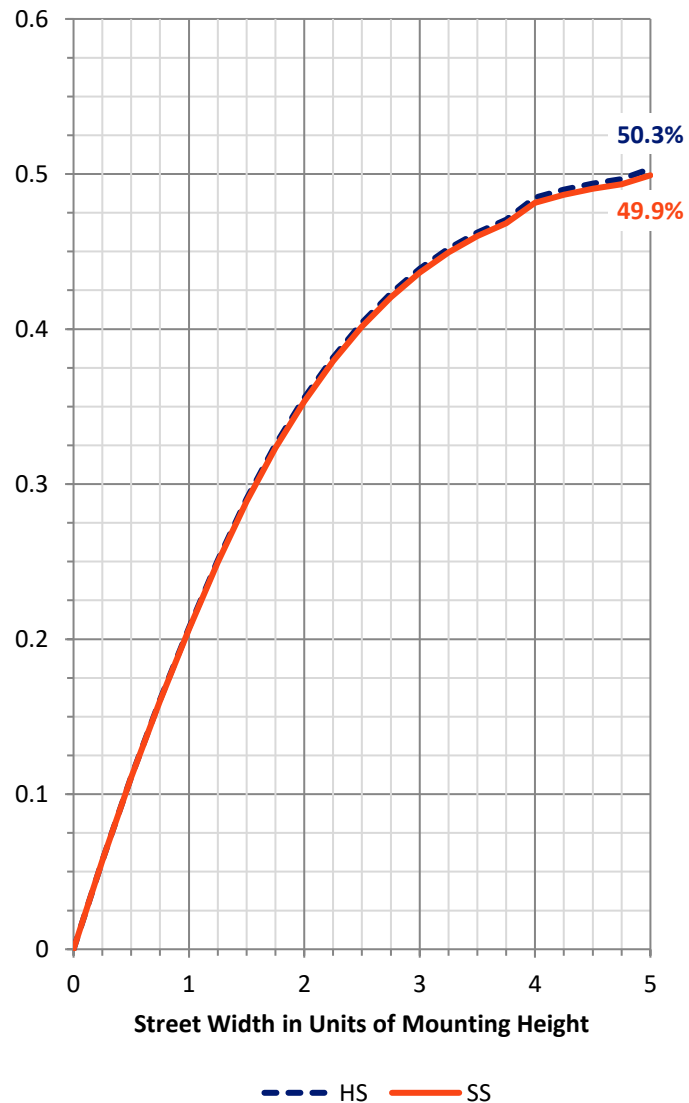
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8287.0	0.0	8287.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8287.0	0.0	8287.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16574.0	0.0	16574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	0.8
10°-20°	362.7	2.2
20°-30°	606.9	3.7
30°-40°	932.5	5.6
40°-50°	1544.0	9.3
50°-60°	2745.0	16.6
60°-70°	4802.3	29.0
70°-80°	4886.0	29.5
80°-90°	568.9	3.4
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°	16574.0	100.0
0°-180°	16574.0	100.0

Coefficient of Utilization



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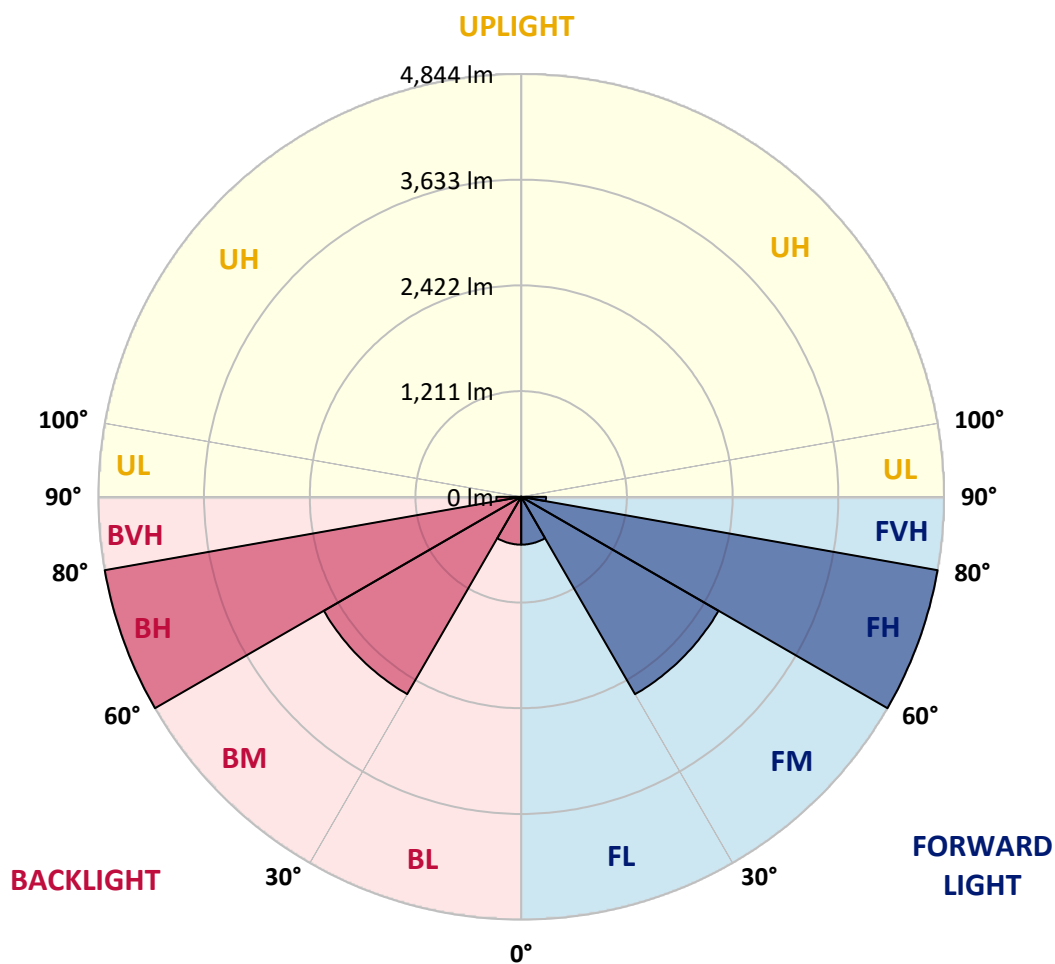
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.6	3.3			
FM	(30°-60°)	2610.8	15.8			
FH	(60°-80°)	4844.1	29.2			G2/5000
FVH	(80°-90°)	284.5	1.7			G3/500
BL	(0°-30°)	547.6	3.3	B2/1000		
BM	(30°-60°)	2610.8	15.8	B3/5000		
BH	(60°-80°)	4844.1	29.2	B4/5000		G2/5000
BVH	(80°-90°)	284.5	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1353.5	1356.6	1350.3	1350.3	1350.3	1347.2	1350.3	1347.2	1350.3	1353.5	1353.5
5°	1340.8	1340.8	1334.5	1334.5	1334.5	1331.4	1334.5	1334.5	1337.7	1340.8	1340.8
7.5°	1312.4	1312.4	1309.3	1306.1	1303.0	1303.0	1306.1	1306.1	1309.3	1312.4	1312.4
10°	1296.7	1293.5	1287.2	1277.7	1274.6	1271.4	1277.7	1284.1	1293.5	1303.0	1299.8
12.5°	1290.4	1287.2	1274.6	1265.1	1258.8	1262.0	1268.3	1274.6	1290.4	1299.8	1296.7
15°	1296.7	1290.4	1274.6	1258.8	1262.0	1268.3	1274.6	1274.6	1293.5	1303.0	1303.0
17.5°	1296.7	1293.5	1274.6	1262.0	1265.1	1274.6	1277.7	1274.6	1290.4	1306.1	1306.1
20°	1299.8	1299.8	1274.6	1265.1	1268.3	1277.7	1280.9	1277.7	1290.4	1309.3	1309.3
22.5°	1306.1	1303.0	1277.7	1271.4	1277.7	1284.1	1287.2	1284.1	1296.7	1312.4	1315.6
25°	1318.8	1312.4	1290.4	1287.2	1299.8	1309.3	1309.3	1303.0	1309.3	1325.1	1325.1
27.5°	1334.5	1331.4	1306.1	1306.1	1321.9	1340.8	1331.4	1318.8	1325.1	1340.8	1340.8
30°	1362.9	1359.8	1334.5	1334.5	1356.6	1378.7	1356.6	1340.8	1350.3	1366.1	1369.2
32.5°	1403.9	1403.9	1381.9	1375.5	1413.4	1422.9	1413.4	1381.9	1388.2	1410.3	1410.3
35°	1473.4	1467.0	1445.0	1441.8	1479.7	1476.5	1473.4	1445.0	1451.3	1476.5	1476.5
37.5°	1564.8	1561.7	1542.8	1533.3	1552.2	1539.6	1545.9	1533.3	1549.1	1568.0	1571.2
40°	1681.6	1678.4	1662.6	1650.0	1656.3	1637.4	1643.7	1650.0	1665.8	1678.4	1681.6
42.5°	1826.7	1826.7	1810.9	1788.8	1779.4	1769.9	1769.9	1782.5	1798.3	1814.1	1814.1
45°	2006.5	2006.5	1987.6	1965.5	1937.1	1921.3	1927.7	1940.3	1959.2	1978.1	1984.4
47.5°	2217.9	2217.9	2192.7	2170.6	2142.2	2123.3	2123.3	2129.6	2158.0	2173.7	2183.2
50°	2454.5	2445.1	2419.8	2397.7	2382.0	2356.7	2359.9	2356.7	2382.0	2404.1	2410.4
52.5°	2700.6	2697.5	2672.2	2665.9	2675.4	2662.8	2662.8	2631.2	2640.7	2653.3	2650.1
55°	3006.6	2997.2	2975.1	2987.7	3025.6	3044.5	3038.2	2987.7	2959.3	2965.6	2962.5
57.5°	3341.1	3331.6	3325.3	3363.2	3448.3	3527.2	3511.4	3394.7	3341.1	3344.2	3347.4
60°	3681.8	3681.8	3700.7	3795.4	3978.4	4107.7	4060.4	3864.8	3770.1	3751.2	3744.9
62.5°	4032.0	4041.5	4082.5	4240.2	4521.0	4735.5	4615.7	4338.0	4196.1	4158.2	4145.6
65°	4439.0	4448.4	4508.4	4704.0	5076.3	5331.8	5126.8	4864.9	4666.1	4587.3	4574.6
67.5°	5029.0	5035.3	5082.6	5271.9	5622.1	5827.1	5615.8	5382.3	5167.8	5076.3	5070.0
70°	5559.0	5565.3	5606.3	5855.5	6177.3	6249.9	6016.4	5719.9	5495.9	5423.3	5410.7
72.5°	5439.1	5461.2	5596.8	5984.9	6480.2	6574.9	6082.7	5637.9	5278.2	5158.3	5120.4
75°	4562.0	4596.7	4811.3	5394.9	6183.7	6451.8	5691.5	4874.4	4338.0	4107.7	4047.8
77.5°	2662.8	2792.1	3161.2	3909.0	5035.3	5581.1	4688.2	3568.2	2665.9	2287.3	2161.1
80°	728.8	798.2	1066.4	1798.3	3158.1	3909.0	2990.9	1637.4	883.4	662.5	615.2
82.5°	230.3	306.0	388.1	517.4	1239.9	2060.2	1110.5	482.7	378.6	312.3	277.6
85°	123.0	132.5	217.7	252.4	372.3	577.4	343.9	252.4	227.2	167.2	157.7
87.5°	63.1	66.3	123.0	123.0	164.1	135.7	148.3	135.7	129.4	82.0	72.6
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)