

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: P841072

Luminaire Tested: **ARCH4-130-722-U-5WQ**

Issue Date: 5/27/2024

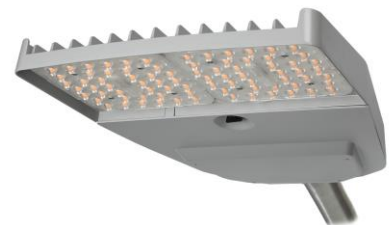
Test Information

Test Method: LM-79-08
Report Number: P841072
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: ARCH4-130-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18938 lumens
Efficiency: N/A
Efficacy: 143.5 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): 132
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



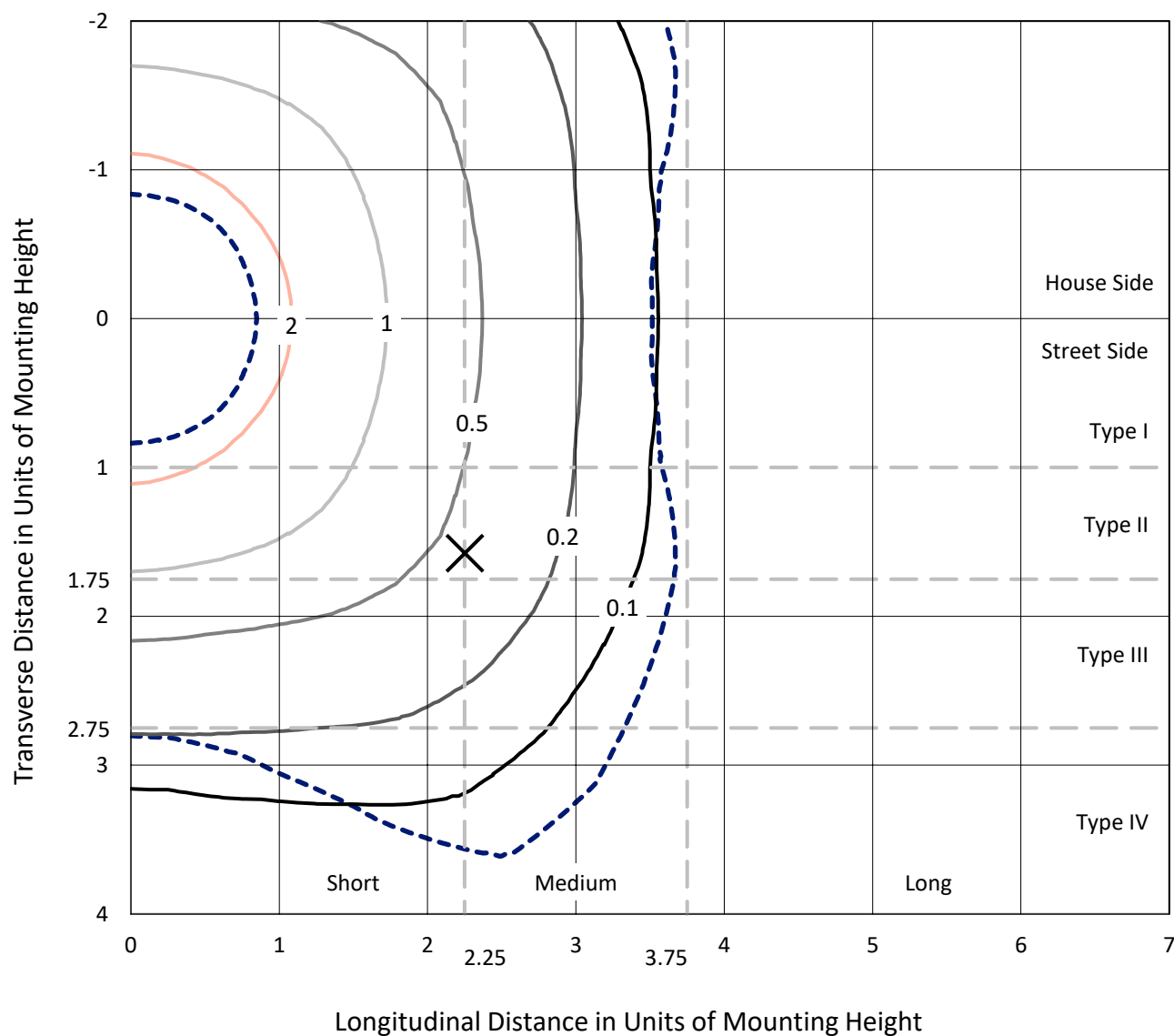
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

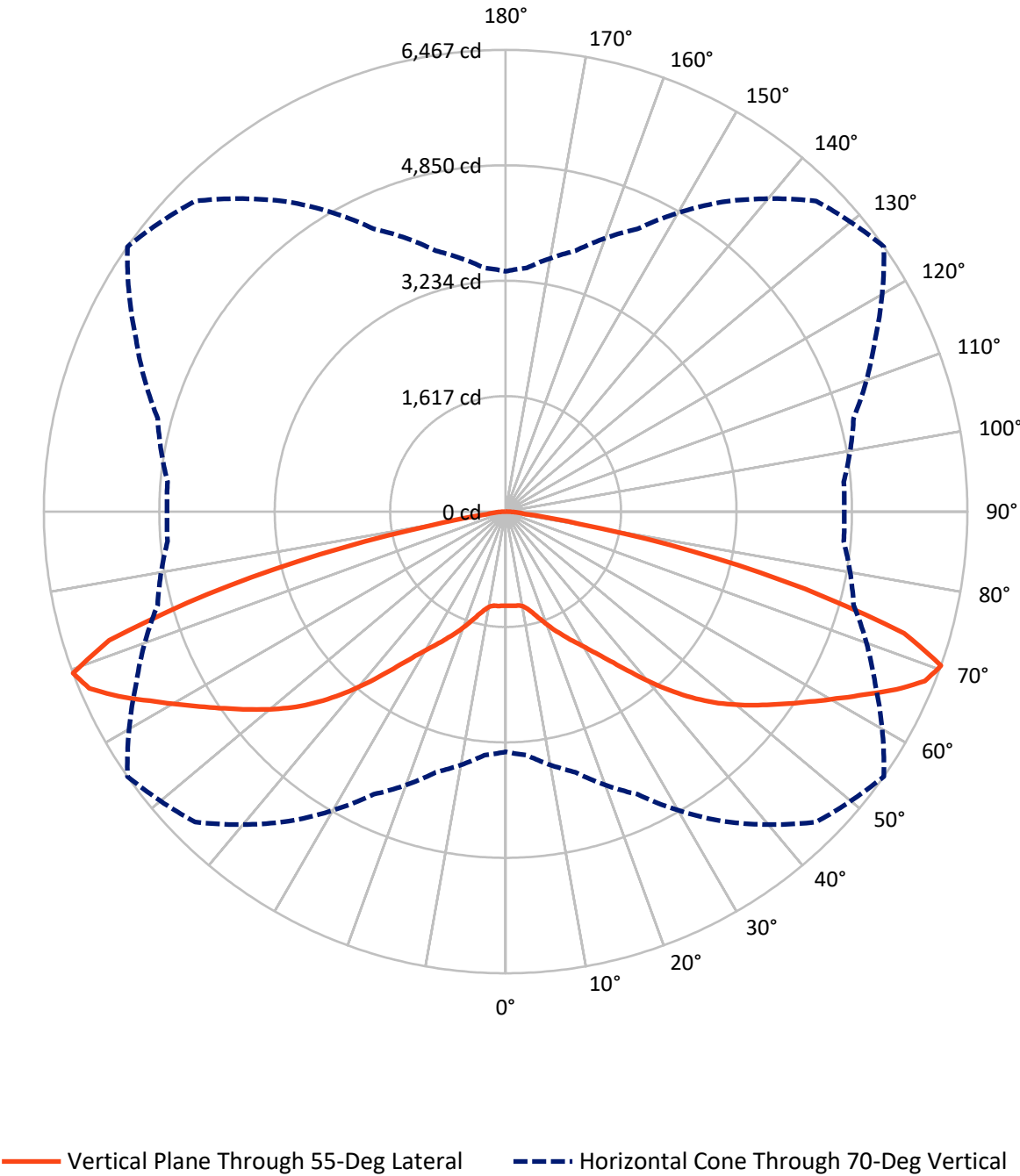
--- 1/2 Max cd



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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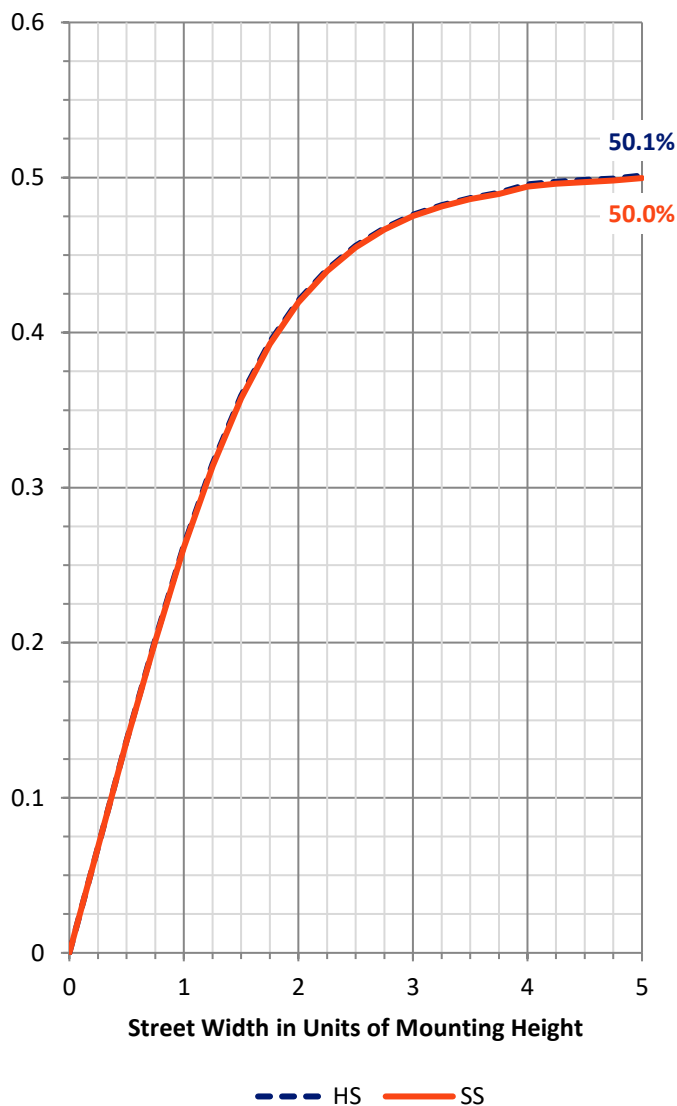
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9469.0	0.0	9469.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9469.0	0.0	9469.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18938.0	0.0	18938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	0.7
10°-20°	433.8	2.3
20°-30°	901.3	4.8
30°-40°	1664.6	8.8
40°-50°	2924.4	15.4
50°-60°	4217.7	22.3
60°-70°	5161.9	27.3
70°-80°	3284.7	17.3
80°-90°	222.3	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°	18938.0	100.0
0°-180°	18938.0	100.0

Coefficient of Utilization



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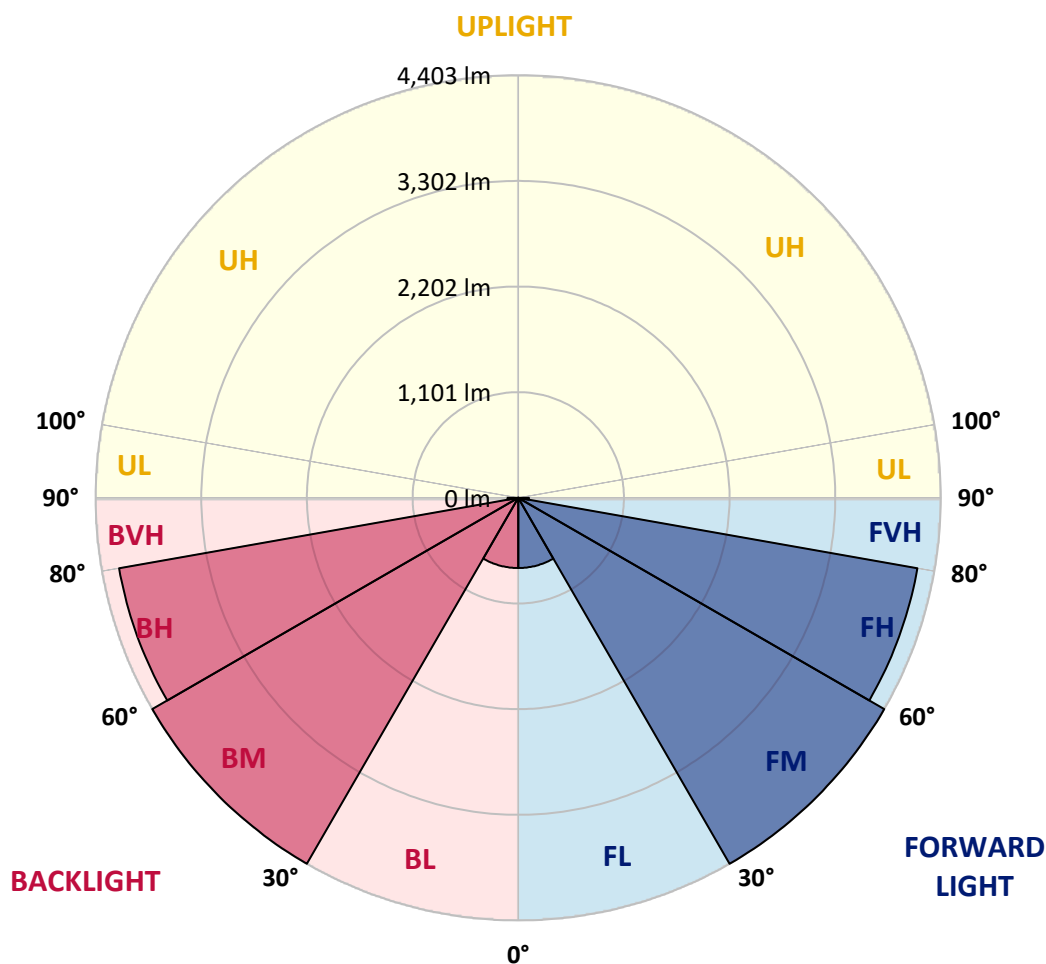
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.2	3.9			
FM	(30°-60°)	4403.3	23.3			
FH	(60°-80°)	4223.3	22.3			G2/5000
FVH	(80°-90°)	111.1	0.6			G2/225
BL	(0°-30°)	731.2	3.9	B2/1000		
BM	(30°-60°)	4403.3	23.3	B3/5000		
BH	(60°-80°)	4223.3	22.3	B4/5000		G2/5000
BVH	(80°-90°)	111.1	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°	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2	1320.2
2.5°	1337.8	1337.8	1334.2	1334.2	1327.2	1323.7	1320.2	1320.2	1316.6	1316.6	1313.1
5°	1344.8	1344.8	1344.8	1341.3	1337.8	1334.2	1327.2	1320.2	1316.6	1313.1	1309.6
7.5°	1348.3	1348.3	1344.8	1344.8	1341.3	1337.8	1327.2	1316.6	1313.1	1309.6	1309.6
10°	1376.5	1373.0	1369.4	1362.4	1362.4	1362.4	1348.3	1337.8	1334.2	1334.2	1334.2
12.5°	1443.4	1439.9	1432.8	1422.2	1422.2	1425.8	1404.6	1390.6	1390.6	1387.0	1387.0
15°	1541.9	1538.4	1531.4	1513.8	1510.3	1517.3	1485.6	1471.5	1471.5	1471.5	1468.0
17.5°	1651.1	1644.0	1633.5	1619.4	1619.4	1619.4	1587.7	1570.1	1559.5	1559.5	1556.0
20°	1742.6	1739.1	1739.1	1735.6	1746.1	1746.1	1703.9	1675.7	1651.1	1637.0	1633.5
22.5°	1823.6	1820.1	1827.1	1841.2	1862.3	1869.3	1820.1	1777.8	1739.1	1710.9	1703.9
25°	1932.7	1929.2	1925.7	1946.8	1982.0	1992.6	1939.8	1886.9	1848.2	1834.1	1827.1
27.5°	2048.9	2052.4	2055.9	2077.0	2105.2	2122.8	2070.0	2020.7	1989.0	1967.9	1960.9
30°	2179.1	2186.2	2196.7	2228.4	2249.5	2256.6	2210.8	2175.6	2147.5	2129.9	2119.3
32.5°	2344.6	2358.7	2372.8	2400.9	2411.5	2404.4	2383.3	2358.7	2337.6	2312.9	2309.4
35°	2591.0	2605.1	2601.6	2612.2	2615.7	2608.6	2598.1	2584.0	2573.4	2541.7	2538.2
37.5°	2900.8	2914.9	2893.8	2883.2	2858.6	2862.1	2858.6	2869.1	2872.7	2841.0	2837.5
40°	3214.1	3228.2	3200.1	3171.9	3147.3	3136.7	3154.3	3189.5	3189.5	3168.4	3168.4
42.5°	3548.6	3559.1	3513.4	3478.2	3446.5	3439.4	3450.0	3492.3	3502.8	3499.3	3499.3
45°	3883.0	3876.0	3816.1	3780.9	3752.8	3735.2	3738.7	3770.4	3791.5	3802.1	3802.1
47.5°	4140.0	4129.5	4080.2	4052.0	4034.4	4009.8	4009.8	4027.4	4037.9	4041.4	4041.4
50°	4344.2	4333.6	4284.4	4280.8	4280.8	4270.3	4259.7	4256.2	4249.1	4252.7	4252.7
52.5°	4520.2	4506.1	4470.9	4478.0	4509.7	4516.7	4502.6	4474.5	4446.3	4435.7	4439.2
55°	4710.3	4689.2	4661.0	4682.2	4745.5	4773.7	4752.6	4696.2	4647.0	4615.3	4615.3
57.5°	4861.7	4837.1	4837.1	4896.9	5013.1	5069.4	5023.6	4918.0	4833.5	4798.3	4801.9
60°	4756.1	4735.0	4819.5	5083.5	5301.8	5396.8	5319.4	5132.8	4995.5	4953.2	4960.3
62.5°	4548.4	4534.3	4639.9	5048.3	5562.3	5759.4	5643.2	5375.7	5171.5	5122.2	5122.2
65°	4242.1	4238.6	4386.4	4889.9	5622.1	6107.9	6009.4	5639.7	5375.7	5308.8	5322.9
67.5°	3925.3	3925.3	4059.0	4618.8	5551.7	6255.8	6333.2	5879.1	5474.3	5308.8	5312.3
70°	3365.5	3425.4	3780.9	4368.8	5294.7	6150.2	6467.0	5710.1	5044.8	4752.6	4742.0
72.5°	2217.9	2295.3	3002.9	3932.3	5041.2	5766.4	5836.9	5016.6	4189.3	3847.8	3830.2
75°	1337.8	1404.6	1946.8	3069.8	4432.2	4643.4	4333.6	3932.3	3129.7	2862.1	2862.1
77.5°	394.3	440.1	897.7	1946.8	3066.3	3052.2	2672.0	2316.4	1851.7	1573.6	1594.7
80°	232.3	239.4	292.2	887.1	1270.9	1337.8	1031.5	644.2	644.2	478.8	464.7
82.5°	179.5	179.5	186.6	221.8	306.3	341.5	260.5	221.8	253.5	214.7	204.2
85°	126.7	126.7	126.7	130.3	133.8	137.3	144.3	147.9	161.9	133.8	126.7
87.5°	38.7	42.2	45.8	52.8	63.4	66.9	70.4	63.4	63.4	59.8	56.3
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)