

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: P841450

Luminaire Tested: **ARCH4-180-730-U-5WQ**

Issue Date: 5/27/2024

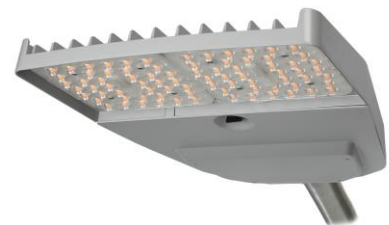
Test Information

Test Method: LM-79-08
Report Number: P841450
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: ARCH4-180-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28034 lumens
Efficiency: N/A
Efficacy: 155.7 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): 180
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



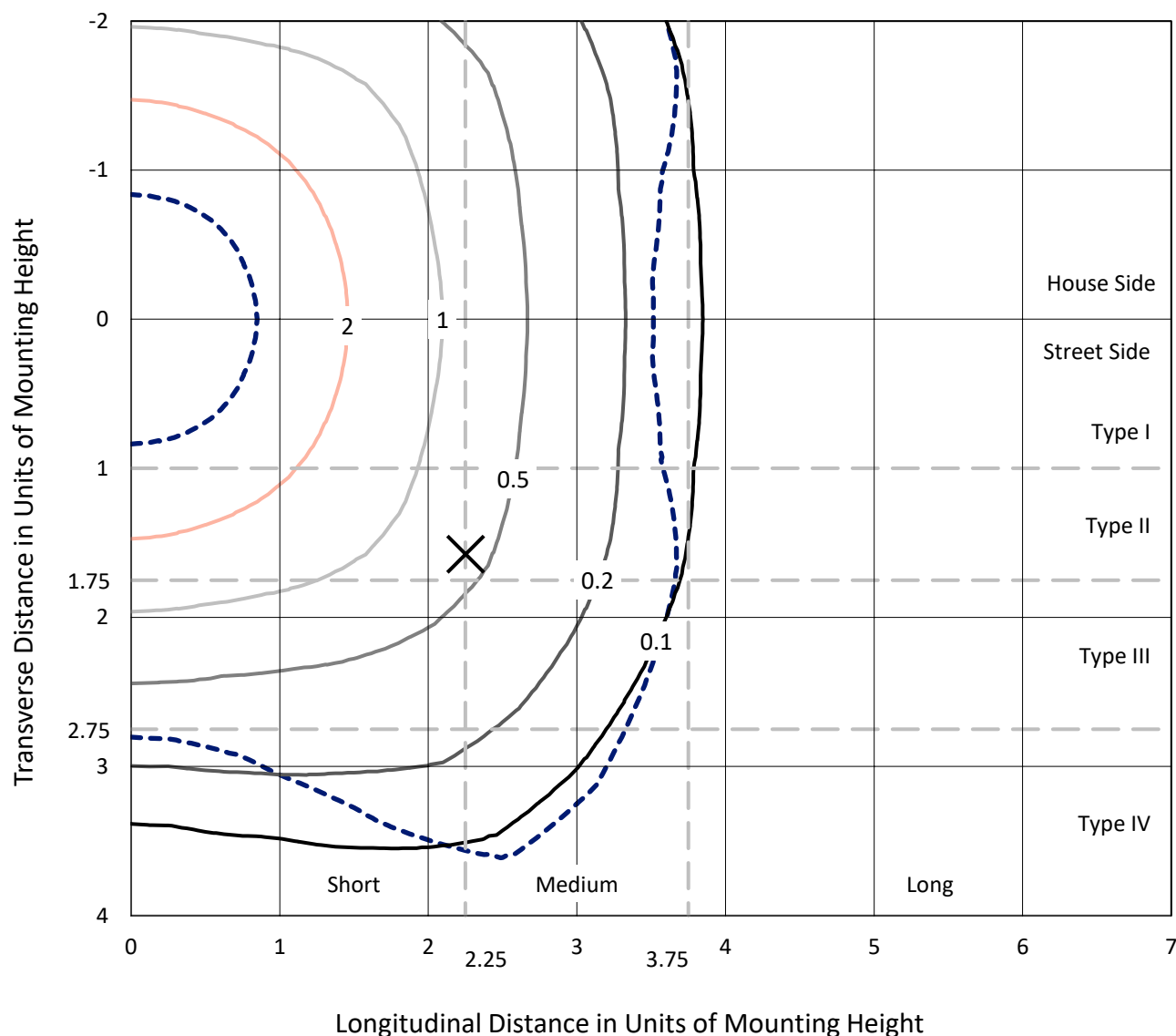
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

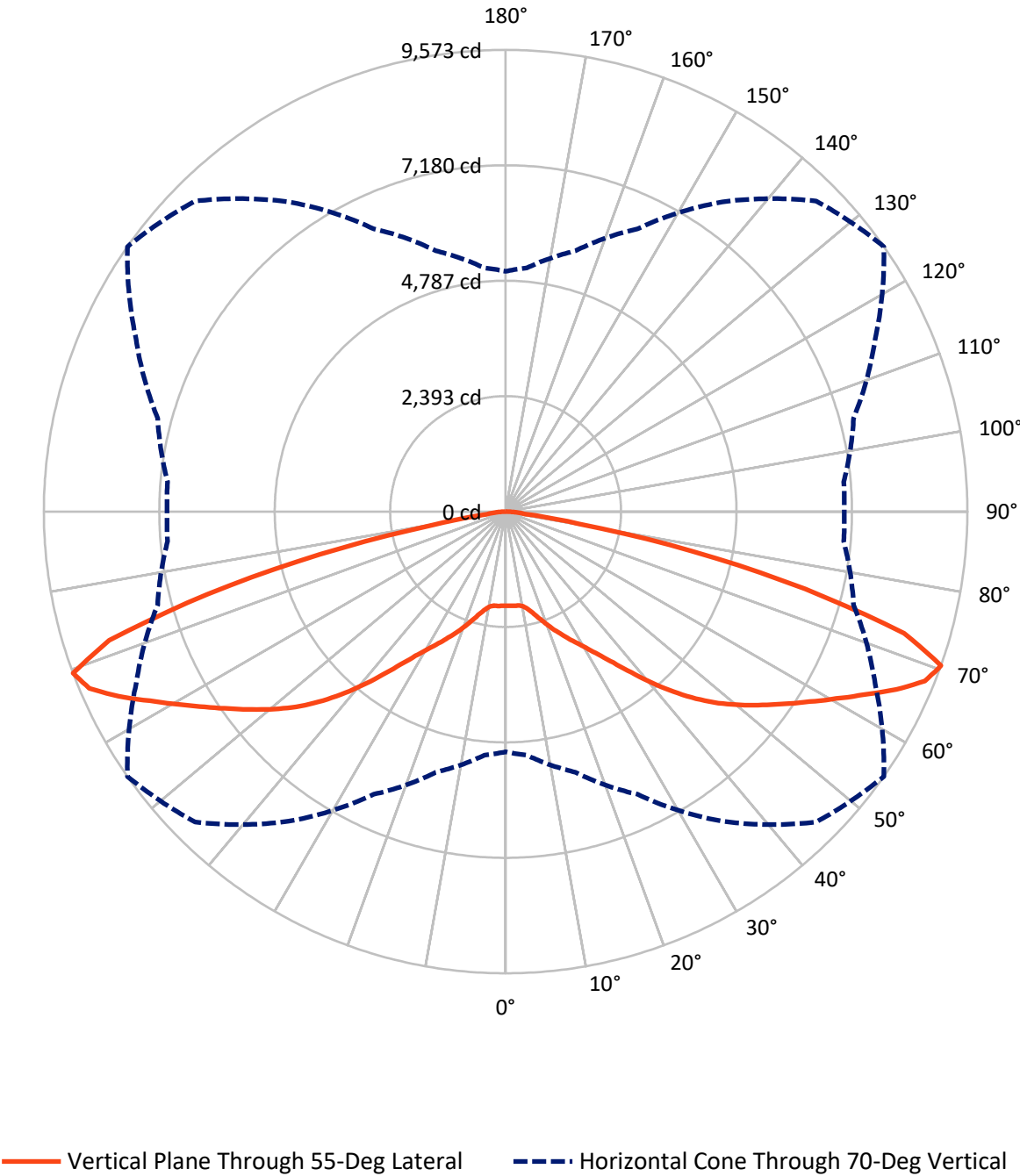
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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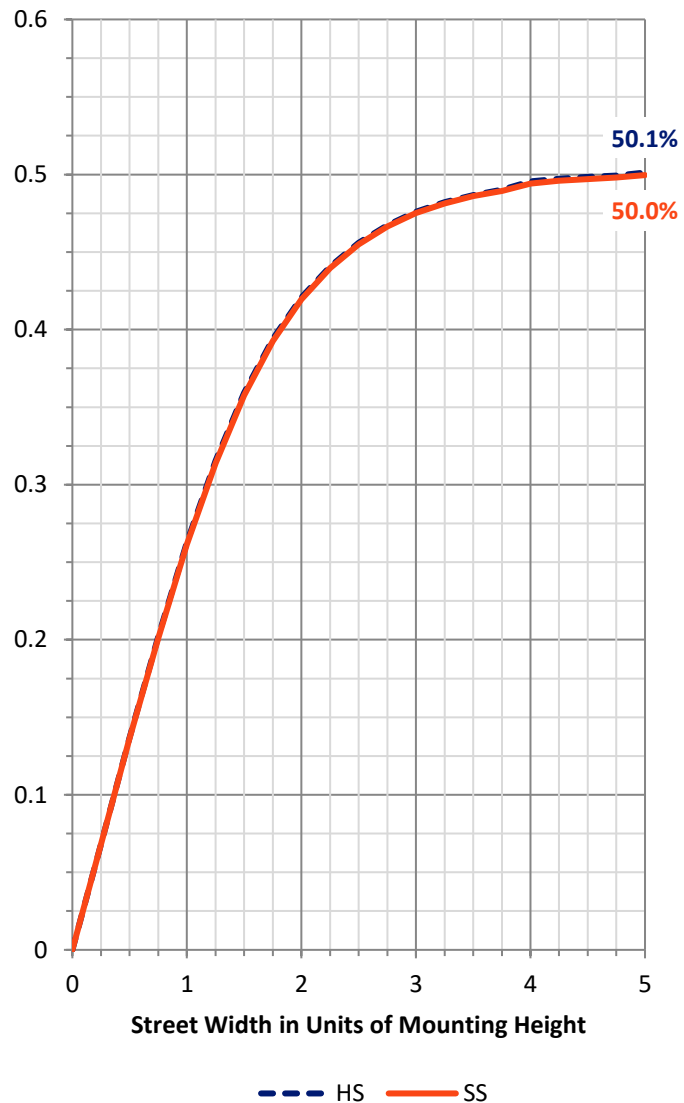
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14017.0	0.0	14017.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14017.0	0.0	14017.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28034.0	0.0	28034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	0.7
10°-20°	642.1	2.3
20°-30°	1334.2	4.8
30°-40°	2464.1	8.8
40°-50°	4329.0	15.4
50°-60°	6243.4	22.3
60°-70°	7641.2	27.3
70°-80°	4862.3	17.3
80°-90°	329.0	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°	28034.0	100.0
0°-180°	28034.0	100.0

Coefficient of Utilization



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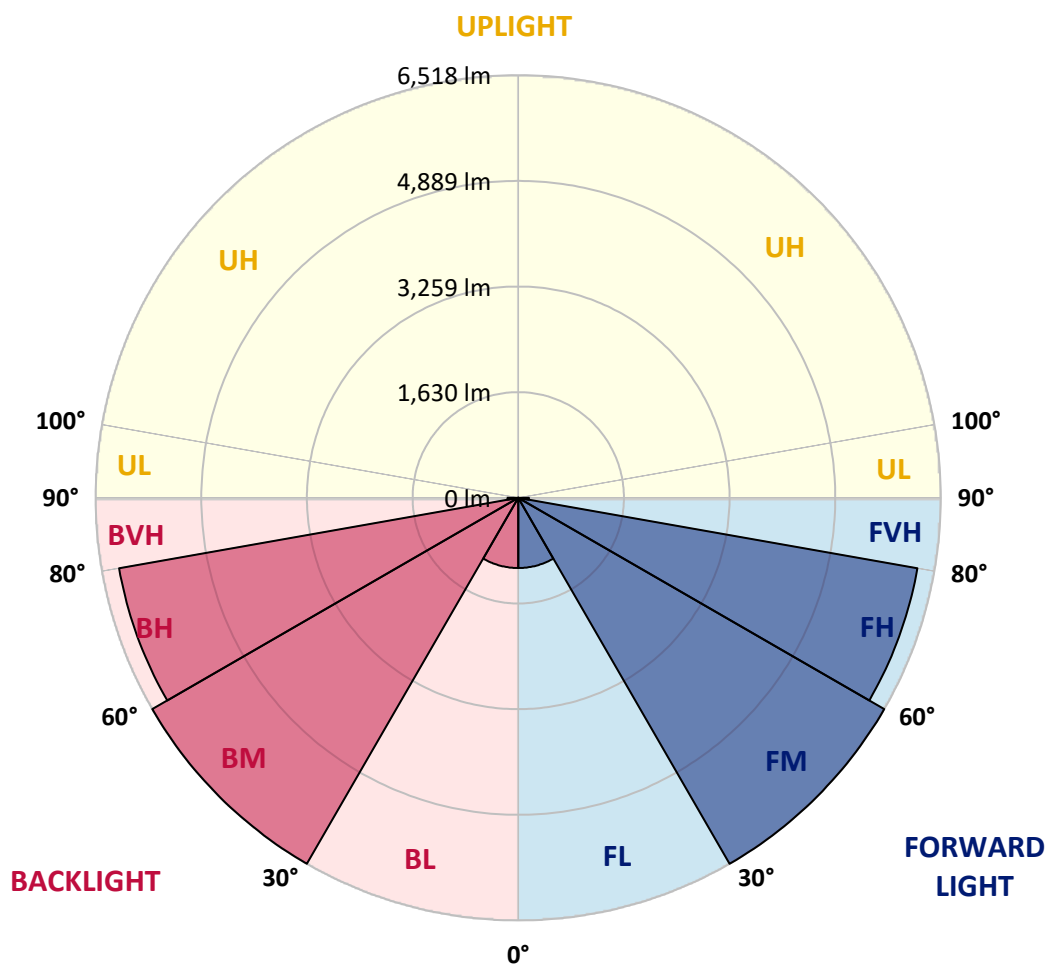
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1082.5	3.9			
FM	(30°-60°)	6518.3	23.3			
FH	(60°-80°)	6251.8	22.3			G3/7500
FVH	(80°-90°)	164.5	0.6			G2/225
BL	(0°-30°)	1082.5	3.9	B3/2500		
BM	(30°-60°)	6518.3	23.3	B4/8500		
BH	(60°-80°)	6251.8	22.3	B5		G3/7500
BVH	(80°-90°)	164.5	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°	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	1980.3	1980.3	1975.1	1975.1	1964.7	1959.4	1954.2	1954.2	1949.0	1949.0	1943.8
5°	1990.7	1990.7	1990.7	1985.5	1980.3	1975.1	1964.7	1954.2	1949.0	1943.8	1938.6
7.5°	1995.9	1995.9	1990.7	1990.7	1985.5	1980.3	1964.7	1949.0	1943.8	1938.6	1938.6
10°	2037.6	2032.4	2027.2	2016.8	2016.8	2016.8	1995.9	1980.3	1975.1	1975.1	1975.1
12.5°	2136.6	2131.4	2121.0	2105.4	2105.4	2110.6	2079.3	2058.5	2058.5	2053.2	2053.2
15°	2282.5	2277.3	2266.9	2240.9	2235.6	2246.1	2199.2	2178.3	2178.3	2178.3	2173.1
17.5°	2444.1	2433.7	2418.0	2397.2	2397.2	2397.2	2350.3	2324.2	2308.6	2308.6	2303.4
20°	2579.6	2574.4	2574.4	2569.2	2584.8	2584.8	2522.3	2480.6	2444.1	2423.3	2418.0
22.5°	2699.4	2694.2	2704.7	2725.5	2756.8	2767.2	2694.2	2631.7	2574.4	2532.7	2522.3
25°	2861.0	2855.8	2850.6	2881.8	2934.0	2949.6	2871.4	2793.3	2735.9	2715.1	2704.7
27.5°	3033.0	3038.2	3043.4	3074.7	3116.4	3142.4	3064.2	2991.3	2944.4	2913.1	2902.7
30°	3225.8	3236.2	3251.8	3298.7	3330.0	3340.4	3272.7	3220.6	3178.9	3152.8	3137.2
32.5°	3470.7	3491.6	3512.4	3554.1	3569.7	3559.3	3528.0	3491.6	3460.3	3423.8	3418.6
35°	3835.5	3856.4	3851.1	3866.8	3872.0	3861.6	3845.9	3825.1	3809.5	3762.6	3757.3
37.5°	4294.1	4314.9	4283.7	4268.0	4231.6	4236.8	4231.6	4247.2	4252.4	4205.5	4200.3
40°	4757.9	4778.8	4737.1	4695.4	4658.9	4643.3	4669.3	4721.4	4721.4	4690.2	4690.2
42.5°	5253.0	5268.6	5200.9	5148.8	5101.9	5091.4	5107.1	5169.6	5185.2	5180.0	5180.0
45°	5748.1	5737.6	5649.0	5596.9	5555.2	5529.2	5534.4	5581.3	5612.6	5628.2	5628.2
47.5°	6128.5	6112.8	6039.9	5998.2	5972.1	5935.7	5935.7	5961.7	5977.4	5982.6	5982.6
50°	6430.7	6415.1	6342.1	6336.9	6336.9	6321.3	6305.7	6300.5	6290.0	6295.2	6295.2
52.5°	6691.3	6670.5	6618.3	6628.8	6675.7	6686.1	6665.2	6623.6	6581.9	6566.2	6571.4
55°	6972.7	6941.4	6899.7	6931.0	7024.8	7066.5	7035.2	6951.9	6878.9	6832.0	6832.0
57.5°	7196.8	7160.3	7160.3	7248.9	7420.9	7504.3	7436.5	7280.2	7155.1	7103.0	7108.2
60°	7040.5	7009.2	7134.3	7525.1	7848.2	7988.9	7874.3	7598.1	7394.8	7332.3	7342.7
62.5°	6733.0	6712.1	6868.5	7473.0	8233.8	8525.7	8353.7	7957.6	7655.4	7582.4	7582.4
65°	6279.6	6274.4	6493.3	7238.5	8322.4	9041.6	8895.7	8348.5	7957.6	7858.6	7879.5
67.5°	5810.6	5810.6	6008.6	6837.2	8218.2	9260.5	9375.1	8702.9	8103.6	7858.6	7863.8
70°	4982.0	5070.6	5596.9	6467.2	7837.8	9104.1	9573.1	8452.7	7467.8	7035.2	7019.6
72.5°	3283.1	3397.8	4445.2	5821.0	7462.6	8536.1	8640.3	7426.1	6201.4	5695.9	5669.9
75°	1980.3	2079.3	2881.8	4544.2	6561.0	6873.7	6415.1	5821.0	4632.8	4236.8	4236.8
77.5°	583.7	651.4	1328.9	2881.8	4539.0	4518.2	3955.4	3429.0	2741.1	2329.4	2360.7
80°	343.9	354.4	432.5	1313.2	1881.3	1980.3	1526.9	953.7	953.7	708.7	687.9
82.5°	265.8	265.8	276.2	328.3	453.4	505.5	385.6	328.3	375.2	317.9	302.3
85°	187.6	187.6	187.6	192.8	198.0	203.2	213.7	218.9	239.7	198.0	187.6
87.5°	57.3	62.5	67.7	78.2	93.8	99.0	104.2	93.8	93.8	88.6	83.4
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)