

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: P841441

Luminaire Tested: **ARCH4-180-727-U-5WQ**

Issue Date: 5/27/2024

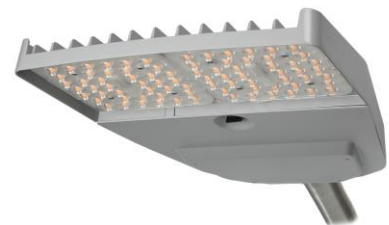
Test Information

Test Method: LM-79-08
Report Number: P841441
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: ARCH4-180-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

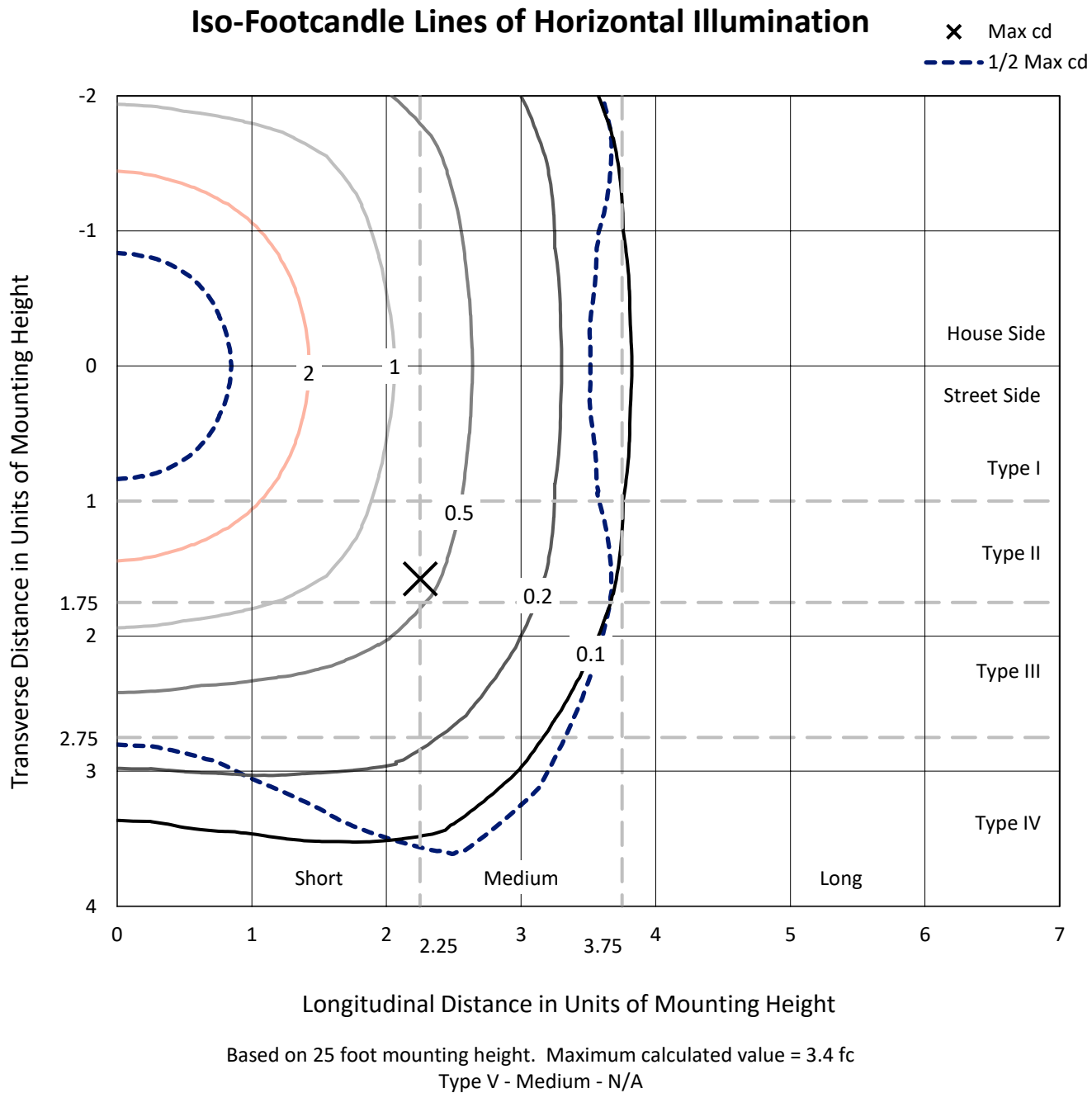
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27053 lumens
Efficiency: N/A
Efficacy: 150.3 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

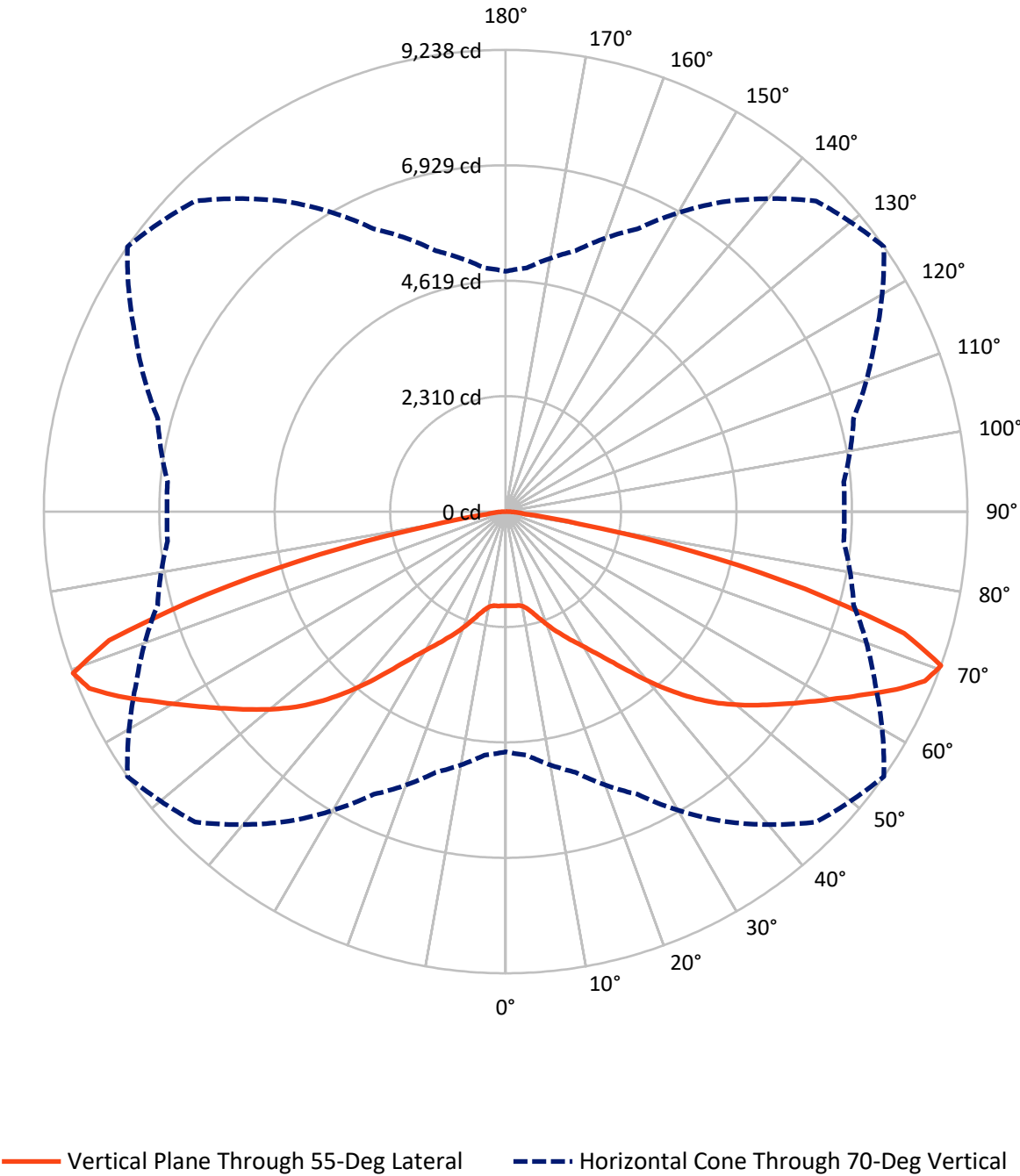


REPORT NUMBER: P841441
CATALOG NUMBER: ARCH4-180-727-U-5WQ



REPORT NUMBER: P841441
CATALOG NUMBER: ARCH4-180-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841441

CATALOG NUMBER: ARCH4-180-727-U-5WQ

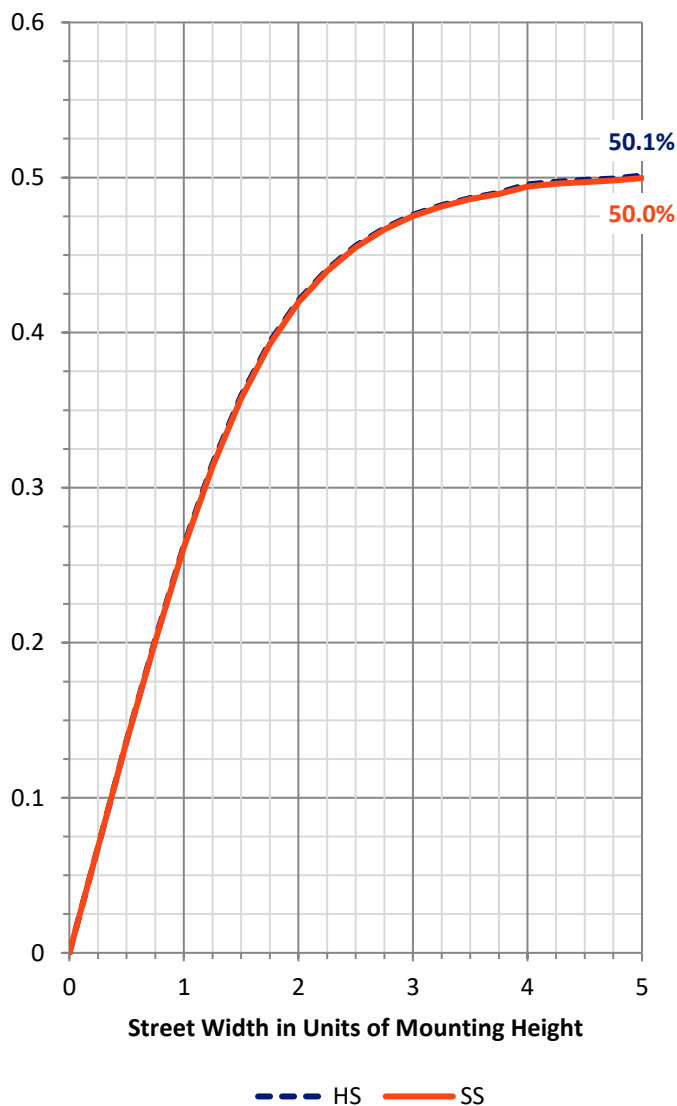
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13526.5	0.0	13526.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13526.5	0.0	13526.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27053.0	0.0	27053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	0.7
10°-20°	619.6	2.3
20°-30°	1287.5	4.8
30°-40°	2377.9	8.8
40°-50°	4177.5	15.4
50°-60°	6024.9	22.3
60°-70°	7373.9	27.3
70°-80°	4692.1	17.3
80°-90°	317.5	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°	27053.0	100.0
0°-180°	27053.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841441

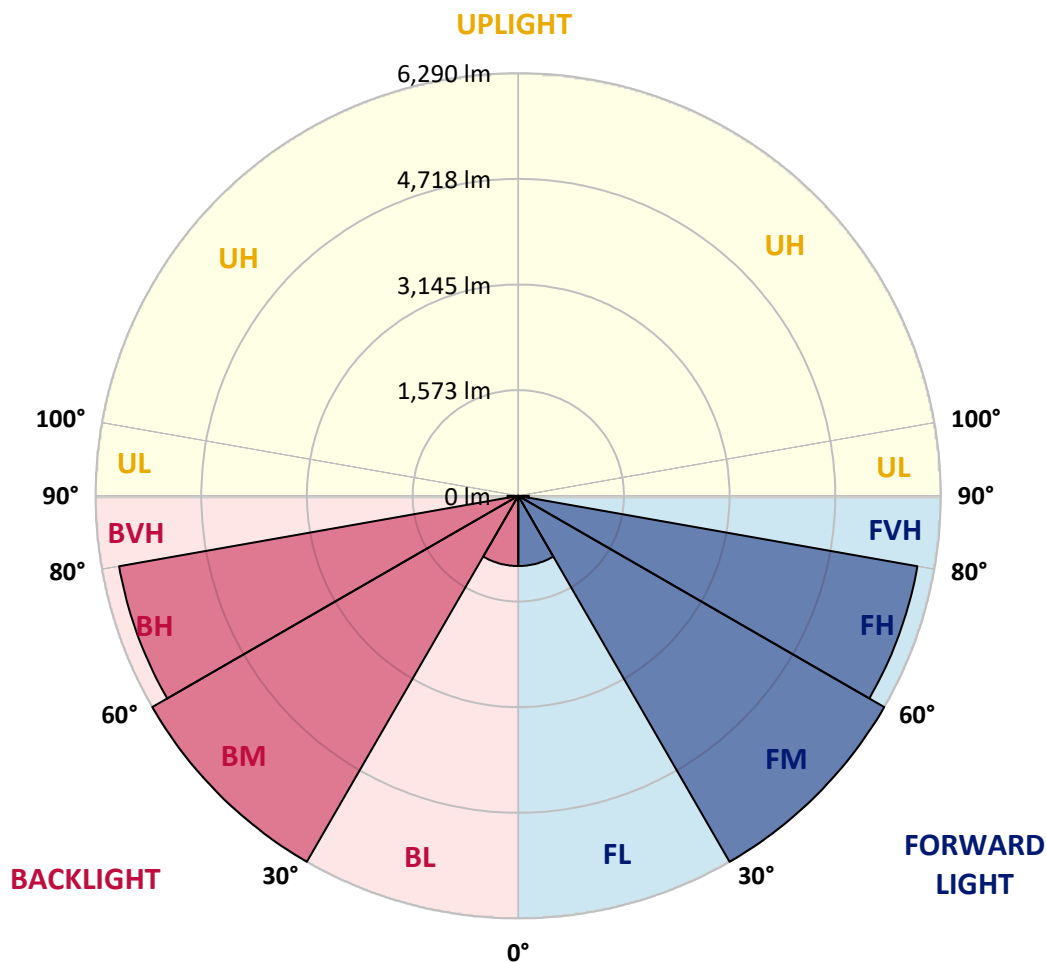
CATALOG NUMBER: ARCH4-180-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1044.6	3.9			
FM	(30°-60°)	6290.2	23.3			
FH	(60°-80°)	6033.0	22.3			G3/7500
FVH	(80°-90°)	158.7	0.6			G2/225
BL	(0°-30°)	1044.6	3.9	B3/2500		
BM	(30°-60°)	6290.2	23.3	B4/8500		
BH	(60°-80°)	6033.0	22.3	B5		G3/7500
BVH	(80°-90°)	158.7	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



REPORT NUMBER: P841441

CATALOG NUMBER: ARCH4-180-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1911.0	1911.0	1906.0	1906.0	1895.9	1890.9	1885.8	1885.8	1880.8	1880.8	1875.8
5°	1921.1	1921.1	1921.1	1916.0	1911.0	1906.0	1895.9	1885.8	1880.8	1875.8	1870.8
7.5°	1926.1	1926.1	1921.1	1921.1	1916.0	1911.0	1895.9	1880.8	1875.8	1870.8	1870.8
10°	1966.3	1961.3	1956.3	1946.2	1946.2	1946.2	1926.1	1911.0	1906.0	1906.0	1906.0
12.5°	2061.9	2056.8	2046.8	2031.7	2031.7	2036.7	2006.5	1986.4	1986.4	1981.4	1981.4
15°	2202.7	2197.6	2187.6	2162.4	2157.4	2167.5	2122.2	2102.1	2102.1	2102.1	2097.1
17.5°	2358.6	2348.5	2333.4	2313.3	2313.3	2313.3	2268.0	2242.9	2227.8	2227.8	2222.8
20°	2489.3	2484.3	2484.3	2479.3	2494.4	2494.4	2434.0	2393.8	2358.6	2338.5	2333.4
22.5°	2605.0	2600.0	2610.0	2630.1	2660.3	2670.4	2600.0	2539.6	2484.3	2444.1	2434.0
25°	2760.9	2755.9	2750.8	2781.0	2831.3	2846.4	2770.9	2695.5	2640.2	2620.1	2610.0
27.5°	2926.8	2931.9	2936.9	2967.1	3007.3	3032.4	2957.0	2886.6	2841.3	2811.2	2801.1
30°	3112.9	3123.0	3138.1	3183.3	3213.5	3223.5	3158.2	3107.9	3067.6	3042.5	3027.4
32.5°	3349.3	3369.4	3389.5	3429.7	3444.8	3434.8	3404.6	3369.4	3339.2	3304.0	3299.0
35°	3701.3	3721.4	3716.4	3731.5	3736.5	3726.4	3711.4	3691.2	3676.1	3630.9	3625.9
37.5°	4143.8	4164.0	4133.8	4118.7	4083.5	4088.5	4083.5	4098.6	4103.6	4058.3	4053.3
40°	4591.4	4611.5	4571.3	4531.1	4495.9	4480.8	4505.9	4556.2	4556.2	4526.0	4526.0
42.5°	5069.2	5084.2	5018.9	4968.6	4923.3	4913.3	4928.4	4988.7	5003.8	4998.8	4998.8
45°	5546.9	5536.9	5451.4	5401.1	5360.8	5335.7	5340.7	5386.0	5416.2	5431.2	5431.2
47.5°	5914.0	5898.9	5828.5	5788.3	5763.2	5728.0	5728.0	5753.1	5768.2	5773.2	5773.2
50°	6205.7	6190.6	6120.2	6115.2	6115.2	6100.1	6085.0	6080.0	6069.9	6074.9	6074.9
52.5°	6457.1	6437.0	6386.7	6396.8	6442.1	6452.1	6432.0	6391.8	6351.5	6336.5	6341.5
55°	6728.7	6698.5	6658.3	6688.5	6779.0	6819.2	6789.1	6708.6	6638.2	6592.9	6592.9
57.5°	6945.0	6909.8	6909.8	6995.2	7161.2	7241.7	7176.3	7025.4	6904.7	6854.4	6859.5
60°	6794.1	6763.9	6884.6	7261.8	7573.6	7709.4	7598.7	7332.2	7136.1	7075.7	7085.8
62.5°	6497.4	6477.3	6628.1	7211.5	7945.7	8227.3	8061.4	7679.2	7387.5	7317.1	7317.1
65°	6059.9	6054.8	6266.0	6985.2	8031.2	8725.2	8584.4	8056.3	7679.2	7583.6	7603.7
67.5°	5607.3	5607.3	5798.4	6598.0	7930.6	8936.4	9047.0	8398.3	7820.0	7583.6	7588.7
70°	4807.7	4893.2	5401.1	6240.9	7563.5	8785.5	9238.1	8156.9	7206.5	6789.1	6774.0
72.5°	3168.2	3278.9	4289.7	5617.3	7201.4	8237.4	8338.0	7166.2	5984.4	5496.6	5471.5
75°	1911.0	2006.5	2781.0	4385.2	6331.4	6633.2	6190.6	5617.3	4470.7	4088.5	4088.5
77.5°	563.2	628.6	1282.4	2781.0	4380.2	4360.1	3817.0	3309.0	2645.2	2247.9	2278.1
80°	331.9	342.0	417.4	1267.3	1815.4	1911.0	1473.5	920.3	920.3	683.9	663.8
82.5°	256.5	256.5	266.5	316.8	437.5	487.8	372.1	316.8	362.1	306.8	291.7
85°	181.0	181.0	181.0	186.1	191.1	196.1	206.2	211.2	231.3	191.1	181.0
87.5°	55.3	60.3	65.4	75.4	90.5	95.5	100.6	90.5	90.5	85.5	80.5
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)