

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: P1210603

Luminaire Tested: **ARCH3-170-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23510 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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

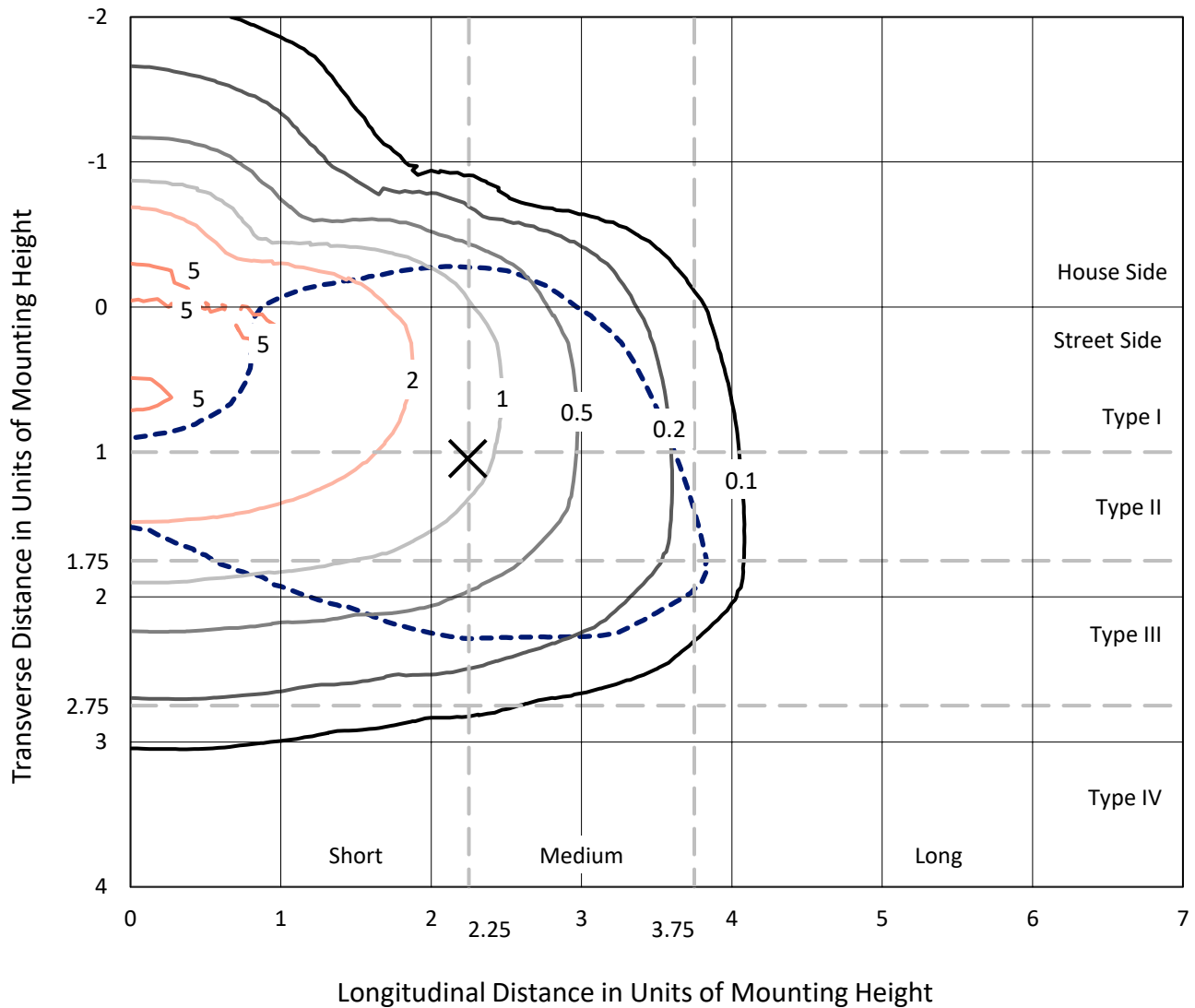


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Iso-Footcandle Lines of Horizontal Illumination

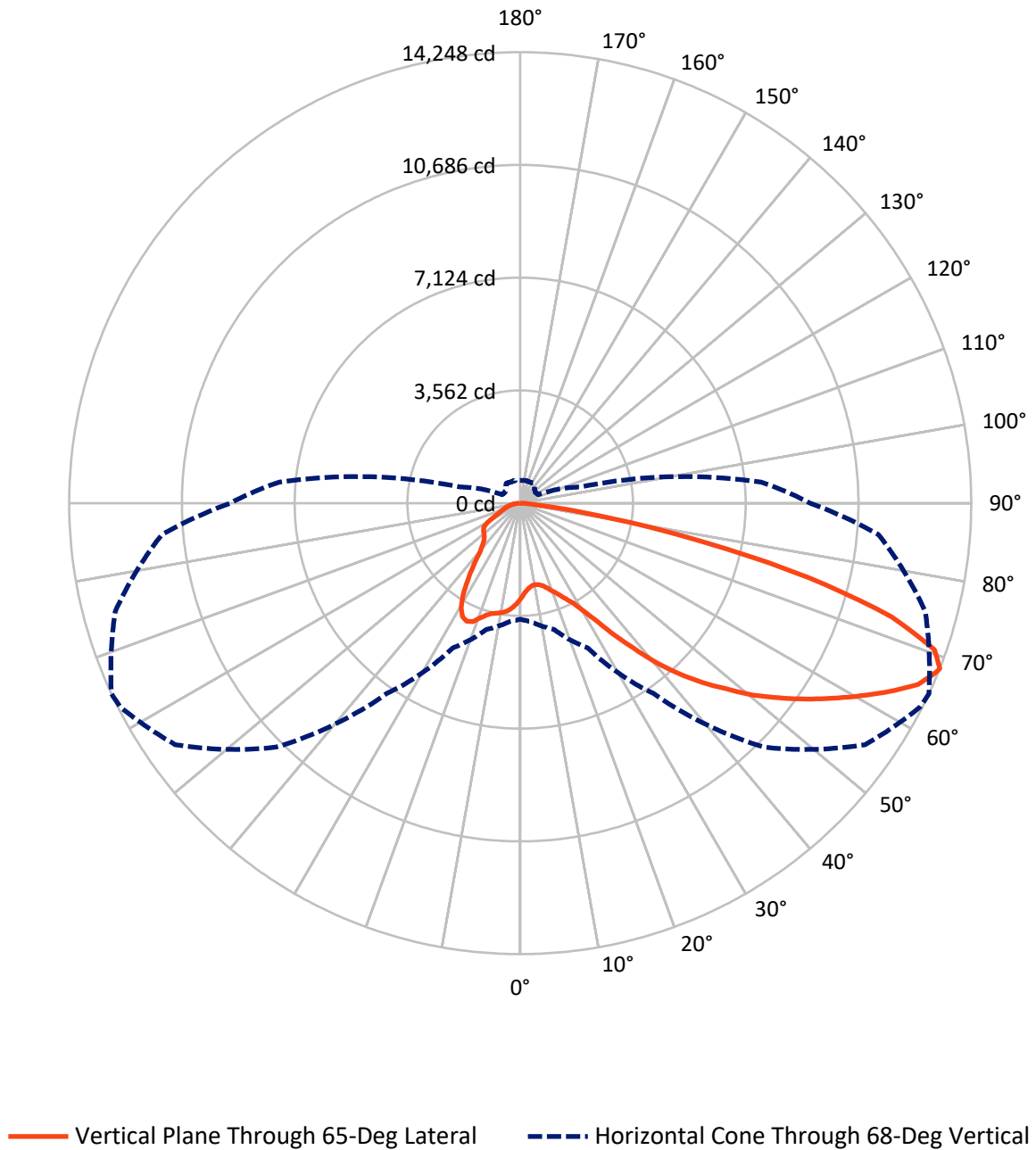
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5764.0	0.0	5764.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17746.0	0.0	17746.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	23510.0	0.0	23510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.2
10°-20°	934.9	4.0
20°-30°	1692.0	7.2
30°-40°	2661.7	11.3
40°-50°	3964.3	16.9
50°-60°	5200.4	22.1
60°-70°	5687.0	24.2
70°-80°	2814.1	12.0
80°-90°	268.4	1.1
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°	23510.0	100.0
0°-180°	23510.0	100.0

Coefficient of Utilization



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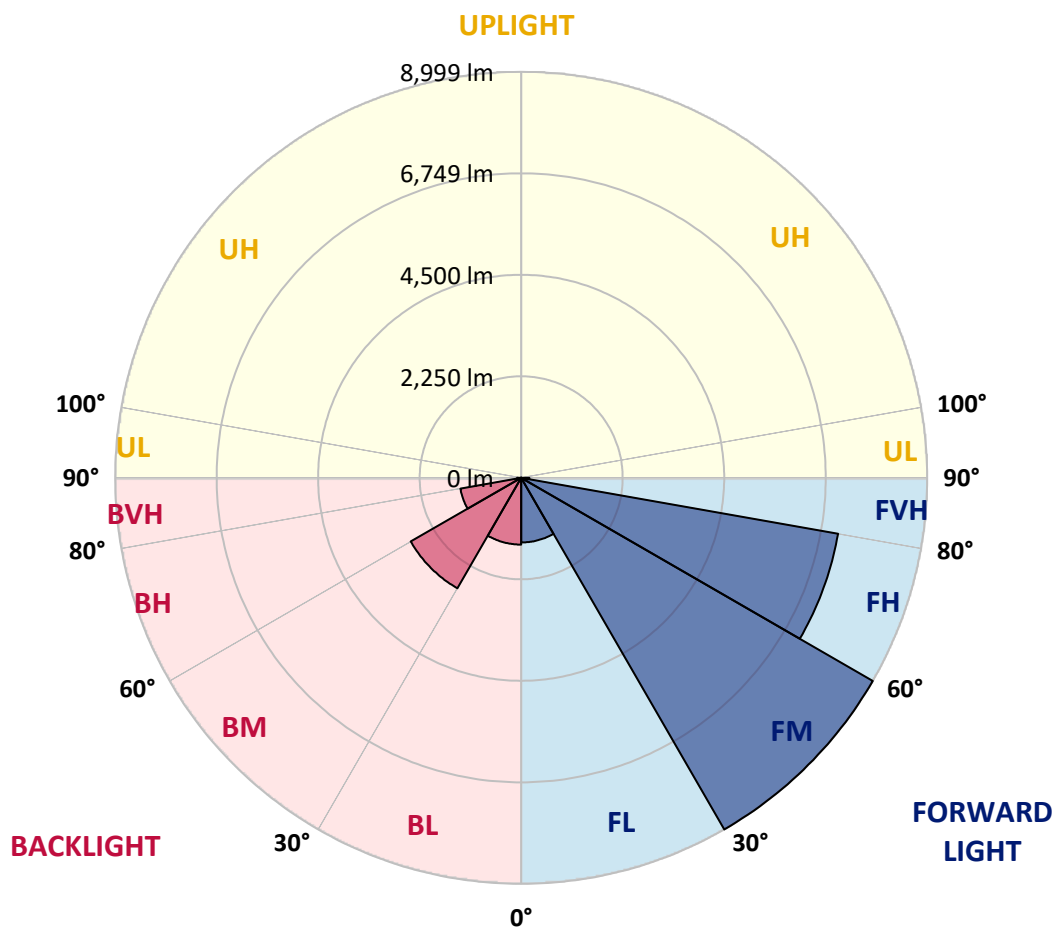
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.2	6.1			
FM	(30°-60°)	8999.3	38.3			
FH	(60°-80°)	7133.0	30.3			G3/7500
FVH	(80°-90°)	180.5	0.8			G2/225
BL	(0°-30°)	1480.8	6.3	B3/2500		
BM	(30°-60°)	2827.2	12.0	B3/5000		
BH	(60°-80°)	1368.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	87.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3
2.5°	2622.3	2616.3	2631.4	2646.6	2679.9	2719.3	2773.9	2819.4	2825.4	2910.3	2977.0
5°	2467.7	2458.6	2473.8	2492.0	2507.1	2555.6	2613.2	2679.9	2707.2	2831.5	2974.0
7.5°	2482.9	2479.8	2485.9	2479.8	2479.8	2501.1	2540.5	2607.2	2637.5	2786.0	2989.1
10°	2570.8	2576.8	2579.9	2561.7	2543.5	2534.4	2546.5	2592.0	2613.2	2789.1	3055.8
12.5°	2716.3	2725.4	2728.4	2695.1	2670.8	2631.4	2610.2	2628.4	2643.5	2819.4	3149.8
15°	2913.3	2919.4	2898.2	2877.0	2816.3	2767.8	2716.3	2701.1	2707.2	2883.0	3255.9
17.5°	3143.7	3134.6	3134.6	3083.1	3004.3	2928.5	2843.6	2831.5	2831.5	2986.1	3407.5
20°	3395.4	3404.5	3377.2	3307.4	3228.6	3110.4	3025.5	2970.9	2977.0	3104.3	3592.4
22.5°	3759.2	3774.3	3701.6	3601.5	3480.2	3343.8	3222.6	3134.6	3137.7	3258.9	3783.4
25°	4150.2	4156.3	4110.8	3977.4	3813.7	3619.7	3459.0	3346.9	3343.8	3431.7	4029.0
27.5°	4550.4	4577.7	4486.7	4359.4	4207.8	3965.3	3753.1	3601.5	3577.3	3695.5	4335.2
30°	4962.7	4996.0	4908.1	4783.8	4595.9	4389.7	4138.1	3962.3	3947.1	4104.8	4744.4
32.5°	5378.0	5387.1	5317.4	5214.3	5044.5	4850.5	4647.4	4453.4	4438.2	4695.9	5274.9
35°	5717.6	5744.8	5696.3	5672.1	5547.8	5368.9	5171.9	5059.7	5099.1	5429.6	5963.1
37.5°	6126.8	6154.1	6099.5	6093.5	6054.1	5899.4	5763.0	5772.1	5811.5	6260.2	6687.7
40°	6718.0	6748.3	6608.8	6548.2	6548.2	6396.6	6351.2	6566.4	6617.9	7078.7	7442.5
42.5°	7218.2	7266.7	7184.8	7145.4	7027.2	6921.1	6975.7	7278.8	7366.7	7860.9	8100.4
45°	7460.7	7497.1	7594.1	7709.3	7594.1	7409.2	7615.3	7957.9	8082.2	8582.4	8758.2
47.5°	7591.1	7624.4	7736.6	8045.8	8124.6	7970.0	8261.0	8688.5	8773.4	9297.8	9385.8
50°	7609.3	7715.4	7860.9	8170.1	8530.9	8552.1	8909.8	9431.2	9531.3	10001.2	9937.5
52.5°	7460.7	7503.2	7803.3	8324.7	8724.9	9088.7	9616.2	10143.7	10216.4	10662.1	10425.6
55°	7218.2	7278.8	7578.9	8288.3	8912.8	9598.0	10334.6	10843.9	10925.8	11304.7	10877.3
57.5°	6999.9	7030.2	7351.6	8182.2	9100.8	10107.3	10974.3	11574.6	11629.1	11868.6	11210.8
60°	6757.4	6790.7	7112.1	7954.9	9240.2	10492.3	11641.3	12311.2	12359.7	12462.8	11598.8
62.5°	6129.8	6217.8	6621.0	7578.9	9203.9	10931.9	12353.7	13038.8	13099.4	12987.3	11905.0
65°	4977.8	5102.1	5596.3	6727.1	8864.3	11216.8	12935.7	13708.8	13811.9	13381.4	11986.9
67.5°	3865.3	3953.2	4350.3	5338.6	7672.9	11074.3	13311.7	14169.6	14199.9	13317.7	11532.1
68°	3665.2	3753.1	4132.0	5047.6	7342.5	10904.6	13302.6	14181.7	14248.4	13248.0	11356.3
70°	2804.2	2904.3	3265.0	3998.6	5917.6	9825.3	12747.8	13890.7	13881.6	12405.2	10264.9
72.5°	1752.3	1809.9	2058.4	2522.3	3913.8	7475.9	10819.7	12250.6	12274.9	10113.3	7873.0
75°	1112.6	1112.6	1100.5	1221.7	2006.9	4259.4	8042.8	9431.2	9449.4	7081.8	4962.7
77.5°	967.1	939.8	809.4	685.1	800.3	1655.2	4759.6	6090.4	5990.4	3813.7	2355.5
80°	815.5	770.0	663.9	551.7	515.4	518.4	1828.0	3092.2	2958.8	1373.3	782.1
82.5°	588.1	548.7	500.2	433.5	397.1	309.2	382.0	894.3	873.1	397.1	254.7
85°	318.3	288.0	281.9	285.0	239.5	191.0	160.7	197.1	197.1	172.8	145.5
87.5°	112.2	81.9	97.0	109.1	94.0	78.8	63.7	75.8	78.8	75.8	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3	3004.3
2.5°	3016.4	3046.7	3119.5	3183.2	3228.6	3268.0	3289.3	3298.4	3319.6	3322.6	3316.5
5°	3040.7	3119.5	3228.6	3322.6	3374.1	3395.4	3401.4	3404.5	3395.4	3401.4	3395.4
7.5°	3104.3	3204.4	3359.0	3440.8	3449.9	3416.6	3419.6	3407.5	3419.6	3431.7	3431.7
10°	3201.3	3328.7	3474.2	3504.5	3465.1	3446.9	3483.3	3556.0	3580.3	3613.6	3613.6
12.5°	3328.7	3480.2	3583.3	3556.0	3519.7	3580.3	3686.4	3759.2	3783.4	3795.5	3786.4
15°	3474.2	3637.9	3689.4	3598.5	3665.2	3795.5	3831.9	3789.5	3728.8	3701.6	3716.7
17.5°	3659.1	3795.5	3765.2	3704.6	3856.2	3874.4	3756.1	3619.7	3522.7	3486.3	3510.6
20°	3853.1	3971.4	3831.9	3859.2	3953.2	3759.2	3534.8	3359.0	3274.1	3258.9	3283.2
22.5°	4059.3	4135.1	3898.6	4038.1	3898.6	3504.5	3234.7	3143.7	3122.5	3146.8	3168.0
25°	4292.7	4283.6	4013.8	4092.6	3695.5	3192.2	3031.6	3025.5	3025.5	3040.7	3071.0
27.5°	4556.5	4414.0	4129.0	4019.9	3343.8	2934.6	2904.3	2907.3	2898.2	2901.2	2916.4
30°	4862.6	4589.8	4256.3	3780.4	2949.7	2740.5	2728.4	2719.3	2698.1	2692.0	2698.1
32.5°	5247.7	4774.7	4386.7	3386.3	2604.1	2540.5	2534.4	2485.9	2434.4	2428.3	2449.5
35°	5735.7	5111.2	4453.4	2892.1	2319.2	2316.1	2294.9	2219.1	2152.4	2152.4	2137.3
37.5°	6293.6	5544.8	4480.7	2410.1	2082.7	2097.9	2037.2	1940.2	1888.7	1858.4	1867.5
40°	6863.5	6038.9	4477.6	1988.7	1876.5	1879.6	1834.1	1715.9	1588.5	1512.8	1530.9
42.5°	7412.2	6487.6	4398.8	1764.4	1709.8	1700.7	1664.3	1503.7	1397.6	1336.9	1340.0
45°	7851.8	6951.4	4277.6	1631.0	1558.2	1573.4	1491.5	1394.5	1297.5	1242.9	1239.9
47.5°	8291.4	7303.1	4083.5	1549.1	1446.1	1418.8	1385.4	1318.7	1246.0	1185.3	1188.4
50°	8691.5	7603.2	3901.6	1494.6	1343.0	1273.3	1279.3	1239.9	1176.3	1121.7	1118.7
52.5°	8973.5	7800.2	3801.6	1464.3	1218.7	1142.9	1164.1	1142.9	1082.3	1042.9	1039.8
55°	9255.4	7951.8	3834.9	1424.8	1082.3	1021.6	1058.0	1052.0	1018.6	1006.5	1009.5
57.5°	9482.8	8067.0	3953.2	1352.1	951.9	915.5	976.2	958.0	933.7	936.8	936.8
60°	9704.1	8215.6	4092.6	1185.3	839.7	842.8	900.4	867.0	851.9	879.2	882.2
62.5°	9934.5	8376.2	3977.4	942.8	742.7	764.0	830.7	803.4	809.4	848.8	861.0
65°	9907.2	8361.1	3240.8	773.1	657.9	700.3	800.3	791.2	794.3	809.4	815.5
67.5°	9349.4	7827.5	2228.2	657.9	597.2	648.8	776.1	739.7	742.7	733.6	736.7
68°	9161.4	7639.6	1964.5	639.7	585.1	636.6	764.0	730.6	733.6	724.5	721.5
70°	8136.8	6542.1	1242.9	563.9	542.7	603.3	703.3	691.2	688.2	682.1	682.1
72.5°	6202.6	4829.3	654.8	488.1	494.1	551.7	627.5	651.8	636.6	639.7	657.9
75°	4107.8	2904.3	454.7	418.4	433.5	472.9	557.8	606.3	591.2	600.3	591.2
77.5°	2173.6	1564.3	363.8	354.7	354.7	382.0	460.8	536.6	536.6	530.5	521.4
80°	712.4	551.7	291.0	278.9	285.0	300.1	369.9	439.6	448.7	436.5	430.5
82.5°	239.5	254.7	218.3	203.1	209.2	221.3	278.9	336.5	339.5	315.3	309.2
85°	148.5	169.8	136.4	133.4	133.4	136.4	169.8	184.9	169.8	151.6	157.6
87.5°	69.7	84.9	63.7	54.6	45.5	39.4	30.3	12.1	12.1	6.1	6.1
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)