

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: P1210581

Luminaire Tested: **ARCH3-170-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19632 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - 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



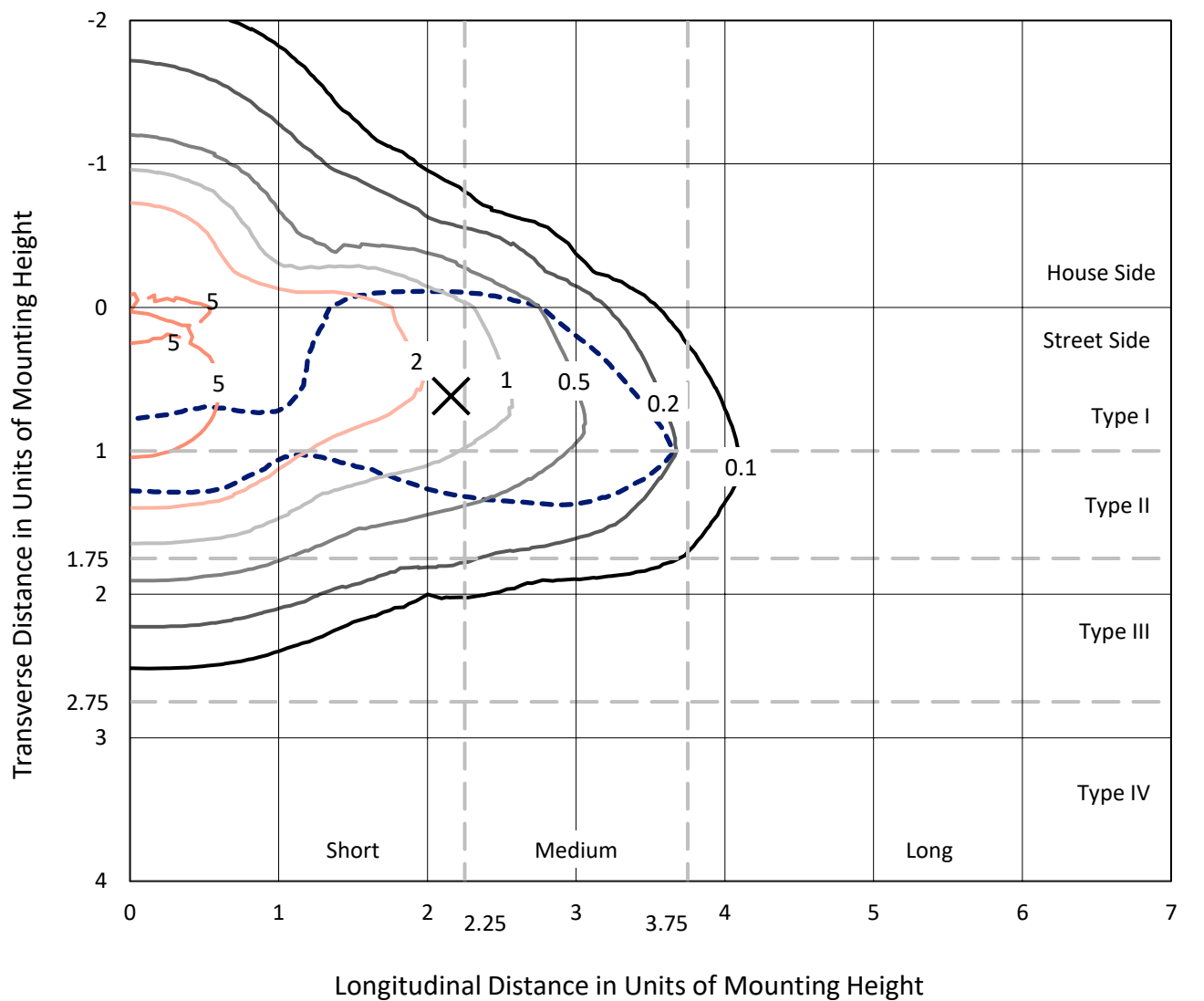
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

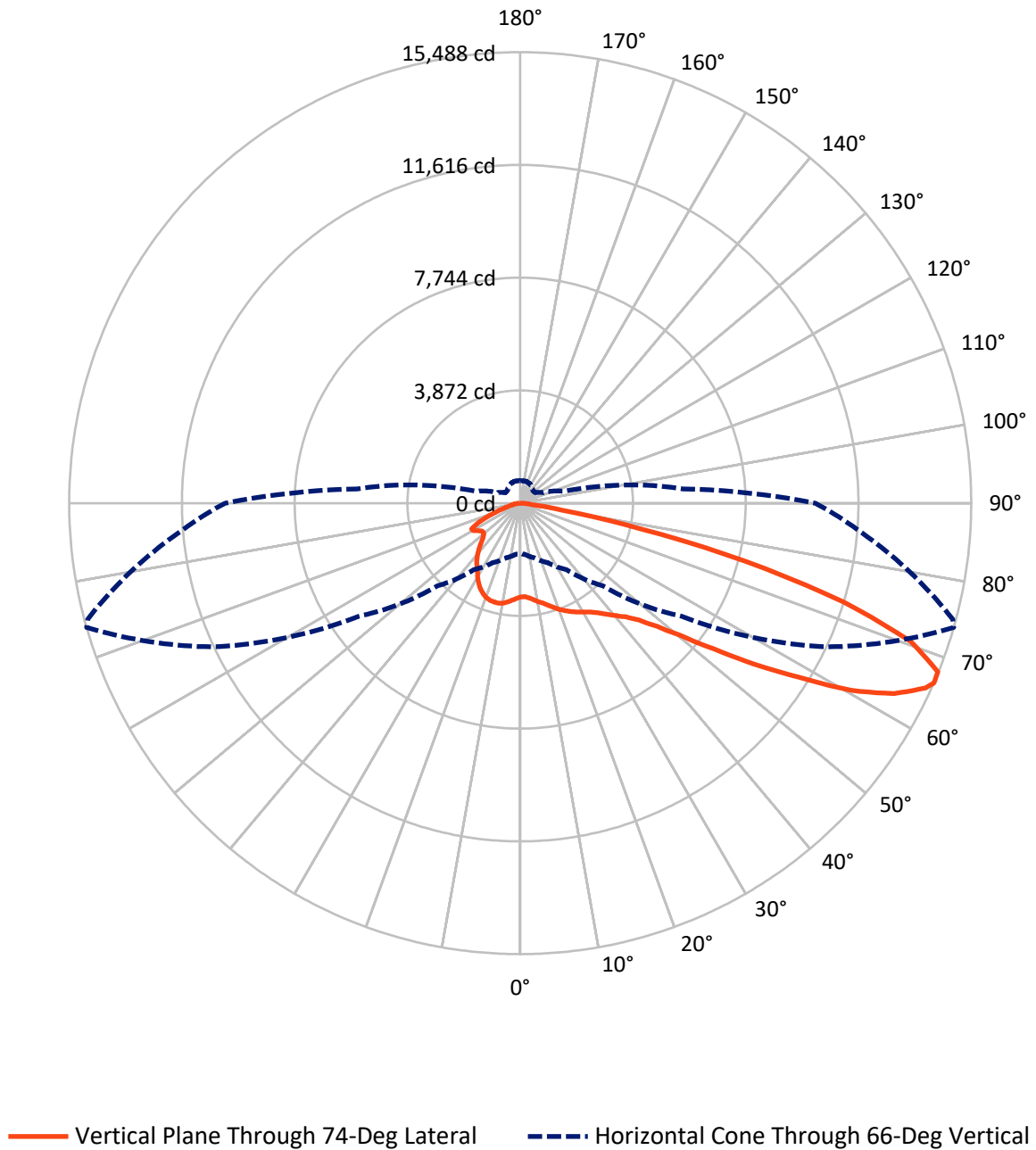
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4780.9	0.0	4780.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	14851.1	0.0	14851.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	19632.0	0.0	19632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	1.6
10°-20°	944.1	4.8
20°-30°	1771.6	9.0
30°-40°	2725.1	13.9
40°-50°	3665.5	18.7
50°-60°	4334.9	22.1
60°-70°	4010.0	20.4
70°-80°	1687.0	8.6
80°-90°	186.7	1.0
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°	19632.0	100.0
0°-180°	19632.0	100.0

Coefficient of Utilization



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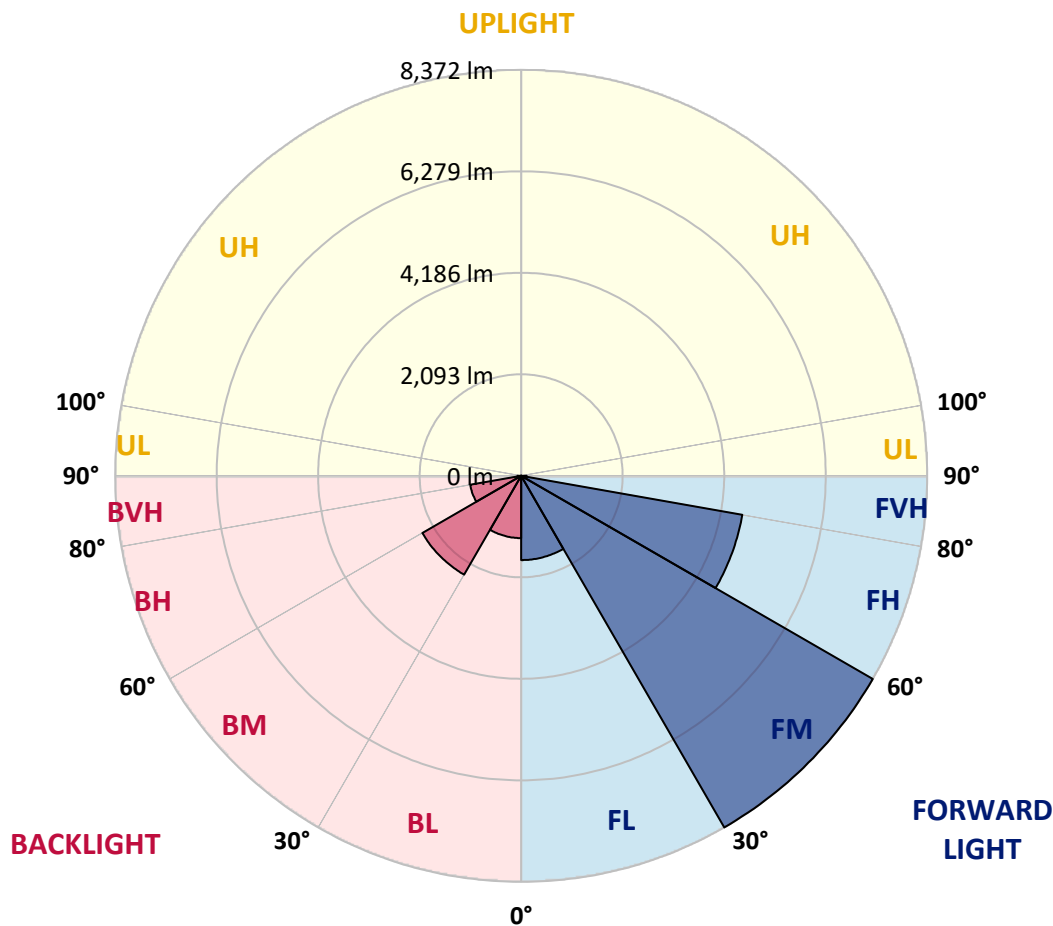
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1737.7	8.9			
FM	(30°-60°)	8371.9	42.6			
FH	(60°-80°)	4629.8	23.6			G2/5000
FVH	(80°-90°)	111.7	0.6			G2/225
BL	(0°-30°)	1285.0	6.5	B3/2500		
BM	(30°-60°)	2353.7	12.0	B2/2500		
BH	(60°-80°)	1067.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	75.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	3208.2	3203.2	3213.3	3228.4	3236.0	3223.4	3218.3	3215.8	3215.8	3208.2	3220.9
5°	3056.7	3054.1	3076.9	3104.7	3157.7	3195.6	3246.1	3276.4	3266.3	3251.2	3261.3
7.5°	2859.6	2854.6	2882.4	2935.4	3008.7	3092.0	3215.8	3311.8	3349.7	3344.6	3342.1
10°	2935.4	2930.4	2927.8	2912.7	2937.9	3018.8	3147.6	3316.9	3445.7	3448.2	3450.7
12.5°	3198.1	3210.8	3198.1	3150.1	3094.6	3064.2	3140.0	3329.5	3526.5	3541.7	3604.8
15°	3556.8	3544.2	3519.0	3463.4	3377.5	3286.5	3231.0	3387.6	3642.7	3655.4	3794.3
17.5°	3872.6	3882.7	3867.6	3814.5	3713.5	3594.7	3425.5	3488.6	3766.5	3801.9	3996.4
20°	4216.2	4256.6	4236.4	4170.7	4087.3	3910.5	3698.3	3635.2	3902.9	3928.2	4206.1
22.5°	4612.8	4655.7	4617.8	4554.7	4486.5	4269.2	3996.4	3814.5	4016.6	4069.7	4408.2
25°	5087.7	5128.1	5092.8	4994.2	4908.3	4643.1	4317.2	4016.6	4127.8	4185.9	4572.4
27.5°	5464.1	5494.4	5527.3	5469.2	5337.8	5062.4	4650.7	4226.3	4238.9	4299.5	4723.9
30°	5800.1	5875.9	5903.7	5911.2	5800.1	5491.9	4991.7	4443.5	4334.9	4398.1	4875.5
32.5°	6259.8	6373.5	6328.0	6373.5	6307.8	5896.1	5345.4	4668.4	4458.7	4516.8	5019.5
35°	6931.8	7022.7	6904.0	6868.6	6762.6	6305.3	5686.4	4900.8	4622.9	4686.0	5155.9
37.5°	7654.3	7757.9	7586.1	7444.6	7242.5	6709.5	5979.4	5206.4	4850.2	4900.8	5282.2
40°	8285.8	8371.7	8222.7	8035.7	7697.2	7065.7	6232.1	5421.2	5077.6	5140.8	5428.7
42.5°	8869.4	8925.0	8758.2	8578.9	8126.7	7386.5	6504.9	5648.5	5342.8	5403.5	5547.5
45°	9460.5	9503.4	9271.0	9015.9	8485.4	7679.5	6805.5	5966.8	5731.9	5812.7	5739.5
47.5°	9566.6	9579.2	9538.8	9367.0	8768.3	7960.0	7176.8	6393.7	6325.5	6413.9	6070.4
50°	8831.5	8945.2	9195.3	9364.5	8882.0	8194.9	7548.2	7005.1	7144.0	7257.7	6757.5
52.5°	7404.2	7512.8	8091.3	8733.0	8609.2	8247.9	7947.3	7780.6	8298.5	8434.9	7692.2
55°	5898.6	5994.6	6605.9	7530.5	7727.5	8005.4	8374.2	8770.9	9771.2	9862.2	8717.8
57.5°	4857.8	4910.9	5347.9	6237.1	6552.9	7229.9	8604.1	9948.0	11269.2	11408.2	9609.5
60°	3983.8	4041.9	4367.7	5100.3	5519.7	6120.9	8422.2	11110.1	13057.8	13057.8	10753.9
62.5°	2998.6	3049.1	3352.2	3925.7	4630.5	5181.2	7841.2	11880.6	14406.7	14346.1	11582.5
65°	2058.8	2099.2	2319.0	2700.5	3334.5	4415.7	7048.0	11890.7	15301.0	15220.2	11936.1
66°	1727.9	1763.3	1950.2	2258.4	2791.4	4006.5	6767.6	11675.9	15487.9	15374.3	11787.1
67.5°	1364.1	1389.4	1513.2	1695.1	2046.2	3243.6	6325.5	11067.1	15470.3	15402.0	11408.2
70°	975.1	992.8	1083.7	1121.6	1210.0	1876.9	5024.5	9692.9	14229.9	14250.1	9917.7
72.5°	755.3	783.1	838.7	846.3	826.1	997.8	3049.1	8086.3	11640.6	11633.0	7361.3
75°	608.8	624.0	651.8	666.9	661.9	644.2	1290.9	6032.5	8013.0	8106.5	4122.7
77.5°	480.0	477.4	502.7	522.9	538.1	505.2	591.1	3536.6	4201.0	4082.3	1548.5
80°	353.7	353.7	389.0	396.6	419.3	424.4	394.1	1364.1	1442.4	1311.1	401.7
82.5°	232.4	232.4	270.3	275.4	298.1	330.9	285.5	409.2	399.1	378.9	181.9
85°	126.3	121.3	133.9	151.6	164.2	194.5	171.8	204.6	209.7	207.1	121.3
87.5°	25.3	22.7	35.4	40.4	45.5	60.6	55.6	83.4	116.2	113.7	53.0
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°	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3	3218.3
2.5°	3238.5	3236.0	3263.8	3296.6	3334.5	3357.3	3367.4	3385.1	3372.4	3377.5	3392.6
5°	3286.5	3294.1	3334.5	3377.5	3395.2	3382.5	3354.8	3344.6	3321.9	3316.9	3311.8
7.5°	3357.3	3369.9	3410.3	3420.4	3367.4	3279.0	3215.8	3180.4	3142.6	3132.4	3127.4
10°	3473.5	3481.1	3491.2	3387.6	3256.2	3137.5	3059.2	3026.3	3001.1	2980.9	2985.9
12.5°	3620.0	3614.9	3536.6	3321.9	3135.0	3013.7	2960.7	2940.5	2922.8	2910.1	2907.6
15°	3804.4	3769.0	3544.2	3231.0	3021.3	2920.2	2882.4	2874.8	2854.6	2854.6	2852.0
17.5°	3991.3	3900.4	3539.2	3135.0	2912.7	2857.1	2834.4	2829.3	2824.3	2821.7	2829.3
20°	4178.3	4016.6	3498.7	3016.2	2836.9	2804.0	2799.0	2801.5	2796.5	2804.0	2799.0
22.5°	4342.5	4092.4	3423.0	2889.9	2783.8	2781.3	2768.7	2773.7	2791.4	2793.9	2801.5
25°	4468.8	4120.2	3311.8	2773.7	2745.9	2740.9	2756.0	2776.3	2791.4	2793.9	2806.6
27.5°	4572.4	4105.0	3172.9	2682.8	2680.3	2708.1	2753.5	2761.1	2763.6	2763.6	2753.5
30°	4650.7	4072.2	2996.0	2581.7	2594.4	2662.6	2705.5	2705.5	2685.3	2680.3	2695.4
32.5°	4668.4	4029.2	2804.0	2478.2	2498.4	2579.2	2632.3	2614.6	2591.8	2591.8	2602.0
35°	4683.5	3971.1	2649.9	2336.7	2367.0	2463.0	2513.5	2478.2	2452.9	2445.3	2442.8
37.5°	4678.5	3948.4	2511.0	2157.3	2197.8	2291.2	2324.1	2291.2	2253.3	2235.7	2258.4
40°	4683.5	3933.2	2336.7	1960.3	2000.7	2056.3	2099.2	2074.0	2038.6	1993.1	2015.9
42.5°	4713.8	3953.5	2144.7	1768.3	1768.3	1798.6	1871.9	1854.2	1768.3	1750.6	1770.8
45°	4875.5	4062.1	1952.7	1576.3	1548.5	1568.8	1644.5	1568.8	1515.7	1515.7	1533.4
47.5°	5267.1	4264.2	1783.5	1407.1	1341.4	1381.8	1402.0	1331.3	1290.9	1280.8	1298.5
50°	6065.3	4668.4	1682.4	1268.1	1187.3	1217.6	1205.0	1202.5	1162.0	1167.1	1177.2
52.5°	7277.9	5456.5	1652.1	1199.9	1098.9	1106.5	1093.8	1098.9	1091.3	1116.6	1124.1
55°	8599.1	6287.6	1690.0	1210.0	1038.3	985.2	990.3	1015.5	1045.8	1086.3	1093.8
57.5°	9586.8	6704.4	1788.5	1278.2	962.5	881.6	894.3	942.3	1000.4	1033.2	1050.9
60°	10321.9	6653.9	1932.5	1295.9	871.5	788.2	810.9	881.6	932.2	959.9	977.6
62.5°	10561.9	6338.2	1967.9	1167.1	752.8	699.7	755.3	828.6	851.3	881.6	894.3
65°	10364.9	5891.0	1710.2	947.3	661.9	634.1	714.9	770.5	800.8	816.0	818.5
66°	10132.5	5623.2	1571.3	861.4	629.0	613.9	699.7	745.2	775.5	773.0	775.5
67.5°	9622.2	5062.4	1346.4	740.2	581.0	583.5	674.5	704.8	714.9	707.3	707.3
70°	7886.7	3564.4	965.0	560.8	510.3	545.7	606.3	613.9	636.6	626.5	626.5
72.5°	4862.9	1750.6	646.7	429.4	454.7	510.3	507.8	533.0	586.1	601.2	611.3
75°	2389.8	709.9	426.9	363.8	406.7	426.9	421.9	485.0	560.8	626.5	649.2
77.5°	906.9	353.7	298.1	318.3	328.4	320.8	336.0	439.6	560.8	679.5	702.3
80°	280.4	245.0	234.9	262.7	247.6	234.9	252.6	363.8	474.9	515.3	515.3
82.5°	169.3	192.0	181.9	179.4	166.7	169.3	181.9	260.2	366.3	384.0	384.0
85°	118.7	126.3	103.6	98.5	96.0	93.5	93.5	151.6	217.3	214.7	222.3
87.5°	45.5	50.5	37.9	37.9	35.4	25.3	20.2	25.3	25.3	17.7	12.6
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)