

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: P1210651

Luminaire Tested: **ARCH3-190-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210651
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: ARCH3-190-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

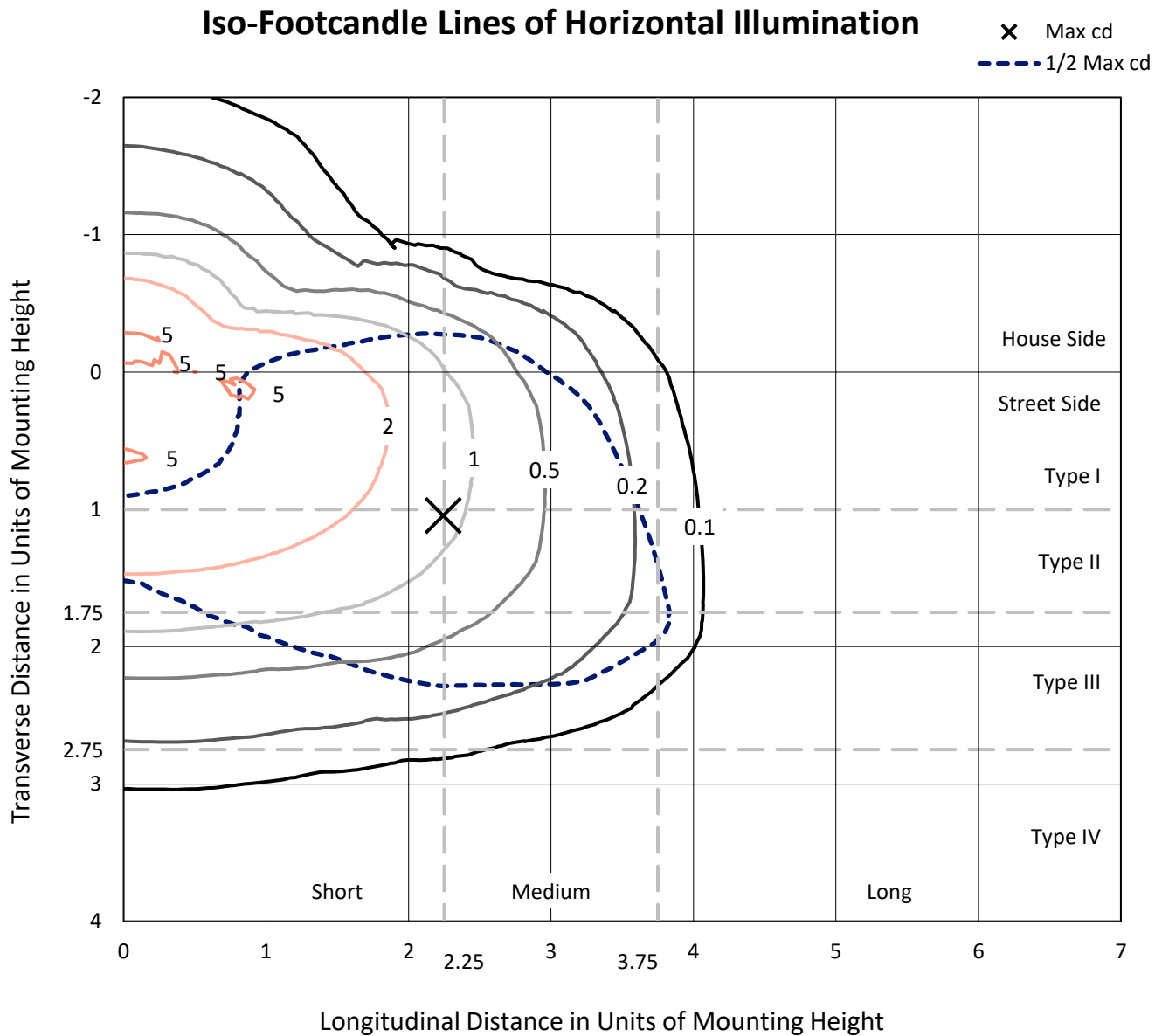
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23051 lumens
Efficiency: N/A
Efficacy: 121.7 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): 189.4
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



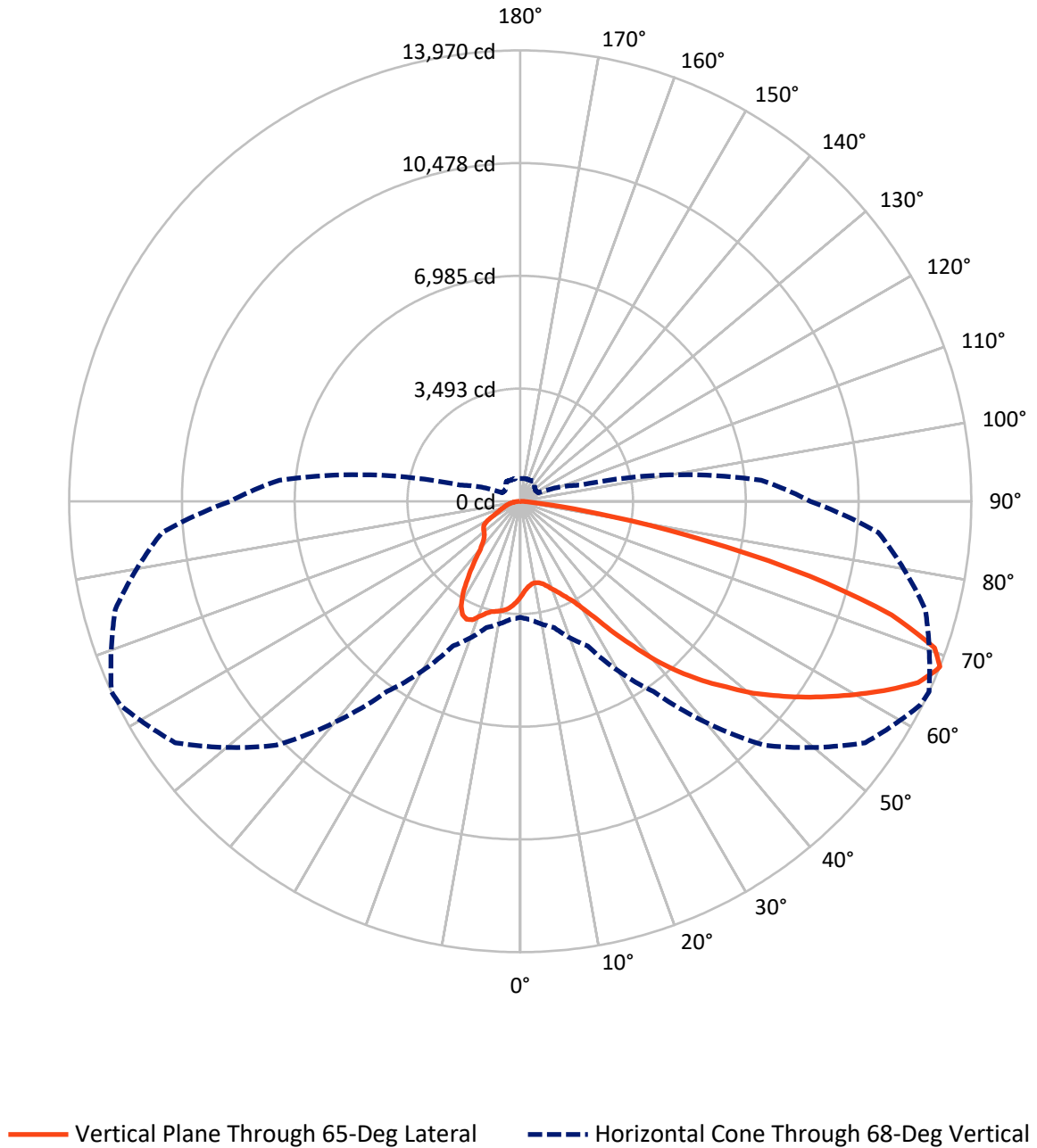
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Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5651.4	0.0	5651.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	17399.6	0.0	17399.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	23051.0	0.0	23051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	1.2
10°-20°	916.6	4.0
20°-30°	1659.0	7.2
30°-40°	2609.8	11.3
40°-50°	3886.9	16.9
50°-60°	5098.9	22.1
60°-70°	5576.0	24.2
70°-80°	2759.2	12.0
80°-90°	263.2	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°	23051.0	100.0
0°-180°	23051.0	100.0

Coefficient of Utilization



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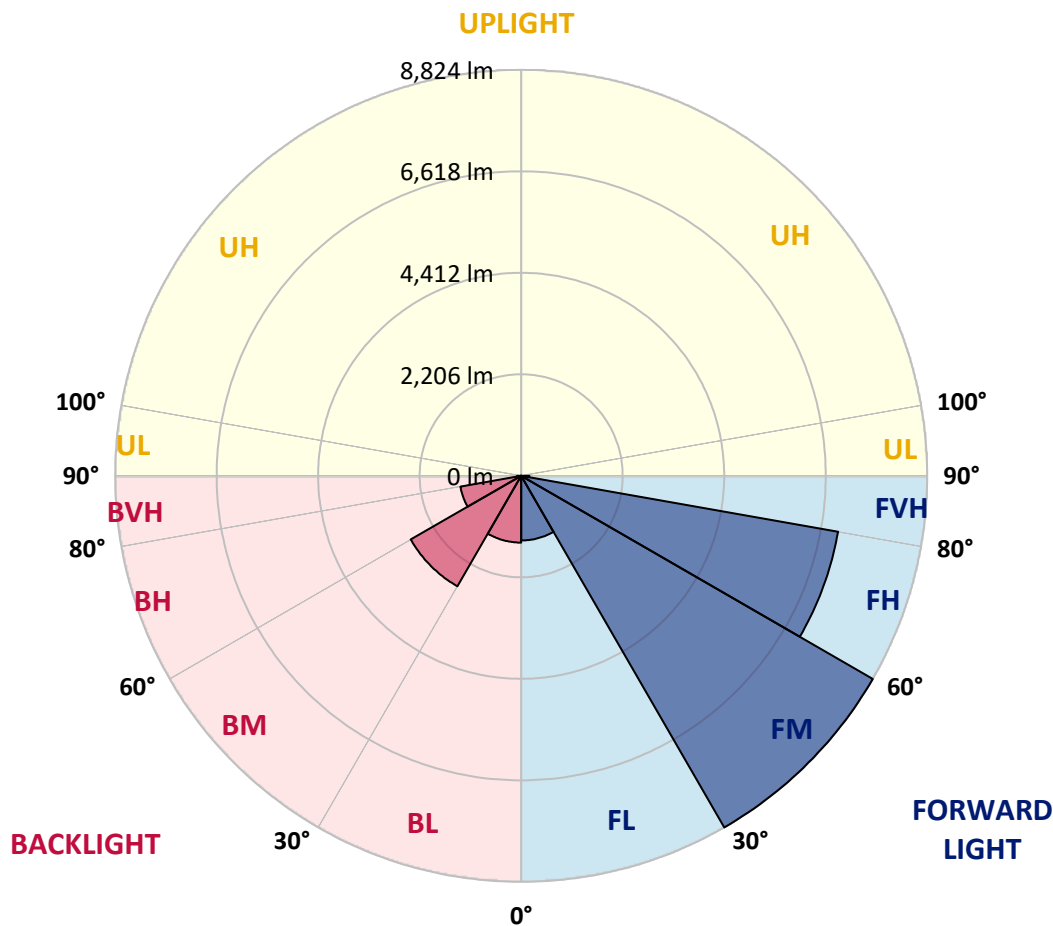
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1405.2	6.1			
FM	(30°-60°)	8823.6	38.3			
FH	(60°-80°)	6993.7	30.3			G3/7500
FVH	(80°-90°)	177.0	0.8			G2/225
BL	(0°-30°)	1451.9	6.3	B3/2500		
BM	(30°-60°)	2772.0	12.0	B3/5000		
BH	(60°-80°)	1341.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	86.2	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°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2571.1	2565.2	2580.0	2594.9	2627.6	2666.2	2719.7	2764.3	2770.3	2853.5	2918.9
5°	2419.5	2410.6	2425.5	2443.3	2458.2	2505.7	2562.2	2627.6	2654.3	2776.2	2915.9
7.5°	2434.4	2431.4	2437.4	2431.4	2431.4	2452.2	2490.9	2556.3	2586.0	2731.6	2930.8
10°	2520.6	2526.5	2529.5	2511.7	2493.8	2484.9	2496.8	2541.4	2562.2	2734.6	2996.2
12.5°	2663.3	2672.2	2675.2	2642.5	2618.7	2580.0	2559.2	2577.1	2591.9	2764.3	3088.3
15°	2856.5	2862.4	2841.6	2820.8	2761.3	2713.8	2663.3	2648.4	2654.3	2826.7	3192.3
17.5°	3082.4	3073.5	3073.5	3022.9	2945.6	2871.3	2788.1	2776.2	2776.2	2927.8	3341.0
20°	3329.1	3338.0	3311.2	3242.9	3165.6	3049.7	2966.4	2912.9	2918.9	3043.7	3522.3
22.5°	3685.8	3700.6	3629.3	3531.2	3412.3	3278.5	3159.6	3073.5	3076.4	3195.3	3709.5
25°	4069.2	4075.1	4030.6	3899.8	3739.3	3549.0	3391.5	3281.5	3278.5	3364.7	3950.3
27.5°	4461.6	4488.3	4399.1	4274.3	4125.7	3887.9	3679.8	3531.2	3507.4	3623.3	4250.5
30°	4865.8	4898.5	4812.3	4690.4	4506.1	4304.0	4057.3	3884.9	3870.1	4024.6	4651.8
32.5°	5273.0	5281.9	5213.6	5112.5	4946.1	4755.8	4556.7	4366.4	4351.6	4604.2	5172.0
35°	5605.9	5632.7	5585.1	5561.3	5439.5	5264.1	5070.9	4960.9	4999.6	5323.5	5846.7
37.5°	6007.2	6033.9	5980.4	5974.5	5935.9	5784.3	5650.5	5659.4	5698.1	6138.0	6557.1
40°	6586.8	6616.5	6479.8	6420.4	6420.4	6271.7	6227.2	6438.2	6488.7	6940.5	7297.2
42.5°	7077.3	7124.8	7044.6	7005.9	6890.0	6786.0	6839.5	7136.7	7222.9	7707.4	7942.2
45°	7315.0	7350.7	7445.8	7558.8	7445.8	7264.5	7466.6	7802.5	7924.4	8414.8	8587.2
47.5°	7442.9	7475.6	7585.5	7888.7	7966.0	7814.4	8099.8	8518.9	8602.1	9116.3	9202.5
50°	7460.7	7564.7	7707.4	8010.6	8364.3	8385.1	8735.9	9247.1	9345.2	9805.9	9743.5
52.5°	7315.0	7356.7	7650.9	8162.2	8554.5	8911.2	9428.4	9945.6	10017.0	10453.9	10222.0
55°	7077.3	7136.7	7431.0	8126.5	8738.8	9410.6	10132.9	10632.2	10712.5	11084.0	10664.9
57.5°	6863.2	6893.0	7208.0	8022.5	8923.1	9909.9	10760.0	11348.6	11402.1	11636.9	10991.9
60°	6625.5	6658.2	6973.2	7799.5	9059.8	10287.4	11414.0	12070.9	12118.4	12219.5	11372.4
62.5°	6010.2	6096.4	6491.7	7431.0	9024.2	10718.4	12112.5	12784.2	12843.7	12733.7	11672.6
65°	4880.7	5002.5	5487.0	6595.7	8691.3	10997.8	12683.2	13441.1	13542.2	13120.1	11752.8
67.5°	3789.8	3876.0	4265.4	5234.4	7523.1	10858.1	13051.8	13892.9	13922.7	13057.7	11307.0
68°	3593.6	3679.8	4051.4	4949.0	7199.1	10691.7	13042.8	13904.8	13970.2	12989.3	11134.6
70°	2749.5	2847.5	3201.3	3920.6	5802.1	9633.5	12498.9	13619.5	13610.6	12163.0	10064.5
72.5°	1718.0	1774.5	2018.3	2473.0	3837.4	7329.9	10608.5	12011.4	12035.2	9915.9	7719.3
75°	1090.9	1090.9	1079.0	1197.9	1967.7	4176.2	7885.7	9247.1	9264.9	6943.5	4865.8
77.5°	948.2	921.4	793.6	671.8	784.7	1622.9	4666.7	5971.5	5873.4	3739.3	2309.5
80°	799.6	755.0	651.0	541.0	505.3	508.3	1792.4	3031.8	2901.1	1346.5	766.9
82.5°	576.6	538.0	490.4	425.1	389.4	303.2	374.5	876.9	856.0	389.4	249.7
85°	312.1	282.4	276.4	279.4	234.8	187.3	157.5	193.2	193.2	169.4	142.7
87.5°	110.0	80.3	95.1	107.0	92.1	77.3	62.4	74.3	77.3	74.3	68.4
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°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2957.5	2987.3	3058.6	3121.0	3165.6	3204.2	3225.0	3234.0	3254.8	3257.7	3251.8
5°	2981.3	3058.6	3165.6	3257.7	3308.3	3329.1	3335.0	3338.0	3329.1	3335.0	3329.1
7.5°	3043.7	3141.8	3293.4	3373.7	3382.6	3349.9	3352.9	3341.0	3352.9	3364.7	3364.7
10°	3138.8	3263.7	3406.4	3436.1	3397.4	3379.6	3415.3	3486.6	3510.4	3543.1	3543.1
12.5°	3263.7	3412.3	3513.4	3486.6	3450.9	3510.4	3614.4	3685.8	3709.5	3721.4	3712.5
15°	3406.4	3566.9	3617.4	3528.2	3593.6	3721.4	3757.1	3715.5	3656.0	3629.3	3644.1
17.5°	3587.7	3721.4	3691.7	3632.3	3780.9	3798.7	3682.8	3549.0	3453.9	3418.2	3442.0
20°	3777.9	3893.8	3757.1	3783.9	3876.0	3685.8	3465.8	3293.4	3210.2	3195.3	3219.1
22.5°	3980.0	4054.3	3822.5	3959.2	3822.5	3436.1	3171.5	3082.4	3061.6	3085.3	3106.1
25°	4208.9	4200.0	3935.4	4012.7	3623.3	3129.9	2972.4	2966.4	2966.4	2981.3	3011.0
27.5°	4467.5	4327.8	4048.4	3941.4	3278.5	2877.3	2847.5	2850.5	2841.6	2844.6	2859.4
30°	4767.7	4500.2	4173.2	3706.6	2892.1	2687.0	2675.2	2666.2	2645.4	2639.5	2645.4
32.5°	5145.2	4681.5	4301.0	3320.2	2553.3	2490.9	2484.9	2437.4	2386.8	2380.9	2401.7
35°	5623.8	5011.4	4366.4	2835.7	2273.9	2270.9	2250.1	2175.8	2110.4	2110.4	2095.5
37.5°	6170.7	5436.5	4393.2	2363.0	2042.0	2056.9	1997.4	1902.3	1851.8	1822.1	1831.0
40°	6729.5	5921.0	4390.2	1949.9	1839.9	1842.9	1798.3	1682.4	1557.5	1483.2	1501.1
42.5°	7267.5	6360.9	4312.9	1729.9	1676.4	1667.5	1631.8	1474.3	1370.3	1310.8	1313.8
45°	7698.5	6815.7	4194.0	1599.1	1527.8	1542.7	1462.4	1367.3	1272.2	1218.7	1215.7
47.5°	8129.5	7160.5	4003.8	1518.9	1417.8	1391.1	1358.4	1293.0	1221.7	1162.2	1165.2
50°	8521.8	7454.8	3825.5	1465.4	1316.8	1248.4	1254.3	1215.7	1153.3	1099.8	1096.8
52.5°	8798.3	7648.0	3727.4	1435.7	1194.9	1120.6	1141.4	1120.6	1061.1	1022.5	1019.5
55°	9074.7	7796.6	3760.1	1397.0	1061.1	1001.7	1037.4	1031.4	998.7	986.8	989.8
57.5°	9297.6	7909.5	3876.0	1325.7	933.3	897.7	957.1	939.3	915.5	918.5	918.5
60°	9514.6	8055.2	4012.7	1162.2	823.4	826.3	882.8	850.1	835.2	862.0	865.0
62.5°	9740.5	8212.7	3899.8	924.4	728.2	749.0	814.4	787.7	793.6	832.3	844.2
65°	9713.8	8197.8	3177.5	758.0	645.0	686.6	784.7	775.8	778.8	793.6	799.6
67.5°	9166.8	7674.7	2184.7	645.0	585.6	636.1	760.9	725.3	728.2	719.3	722.3
68°	8982.6	7490.4	1926.1	627.2	573.7	624.2	749.0	716.3	719.3	710.4	707.4
70°	7977.9	6414.4	1218.7	552.9	532.1	591.5	689.6	677.7	674.7	668.8	668.8
72.5°	6081.5	4735.0	642.0	478.6	484.5	541.0	615.3	639.1	624.2	627.2	645.0
75°	4027.6	2847.5	445.9	410.2	425.1	463.7	546.9	594.5	579.6	588.5	579.6
77.5°	2131.2	1533.8	356.7	347.8	347.8	374.5	451.8	526.1	526.1	520.2	511.3
80°	698.5	541.0	285.3	273.5	279.4	294.3	362.6	431.0	439.9	428.0	422.1
82.5°	234.8	249.7	214.0	199.2	205.1	217.0	273.5	329.9	332.9	309.1	303.2
85°	145.6	166.5	133.8	130.8	130.8	133.8	166.5	181.3	166.5	148.6	154.6
87.5°	68.4	83.2	62.4	53.5	44.6	38.6	29.7	11.9	11.9	5.9	5.9
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)