

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: P1210393

Luminaire Tested: **ARCH3-110-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210393
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: ARCH3-110-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15936 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 111.9
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

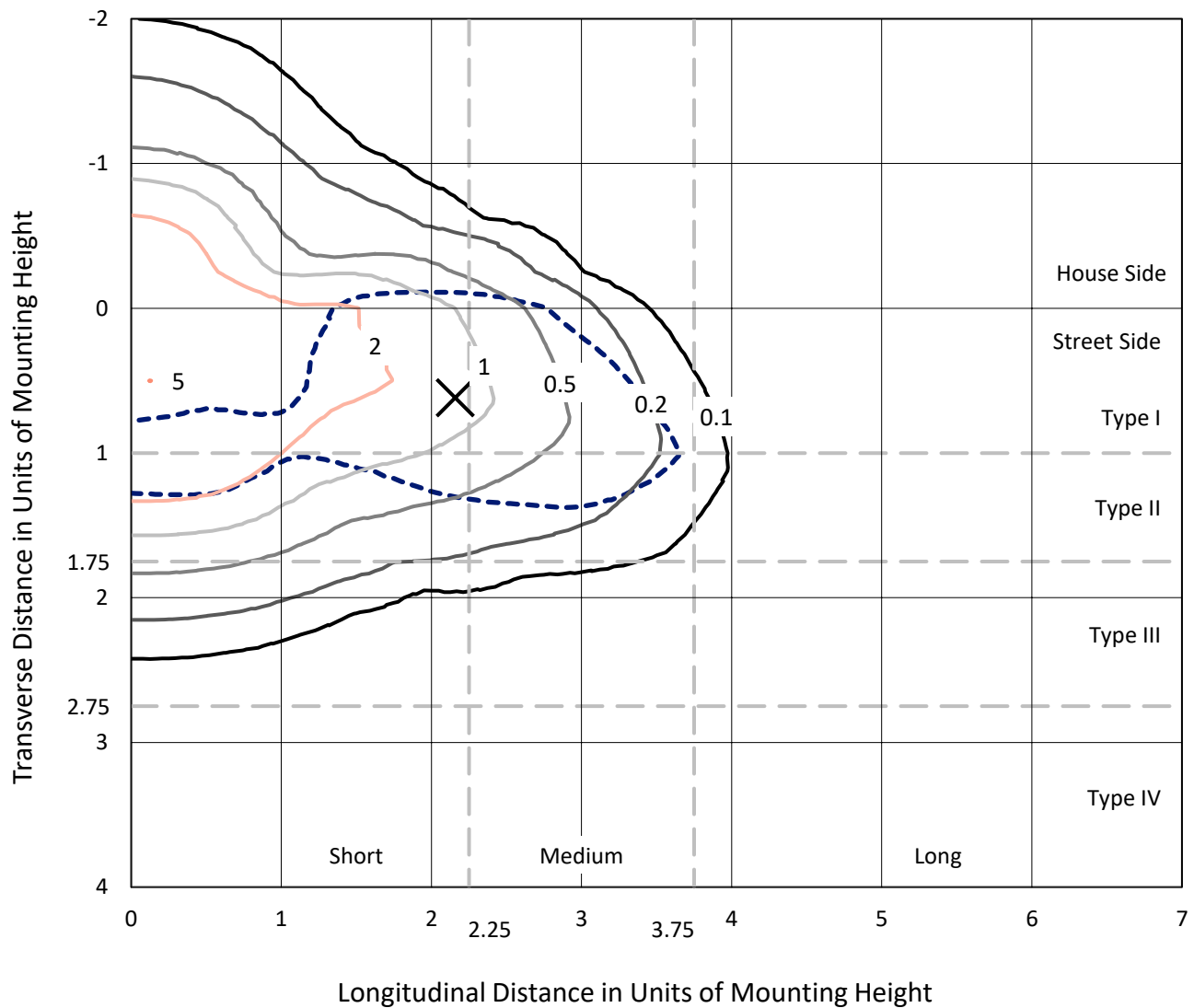


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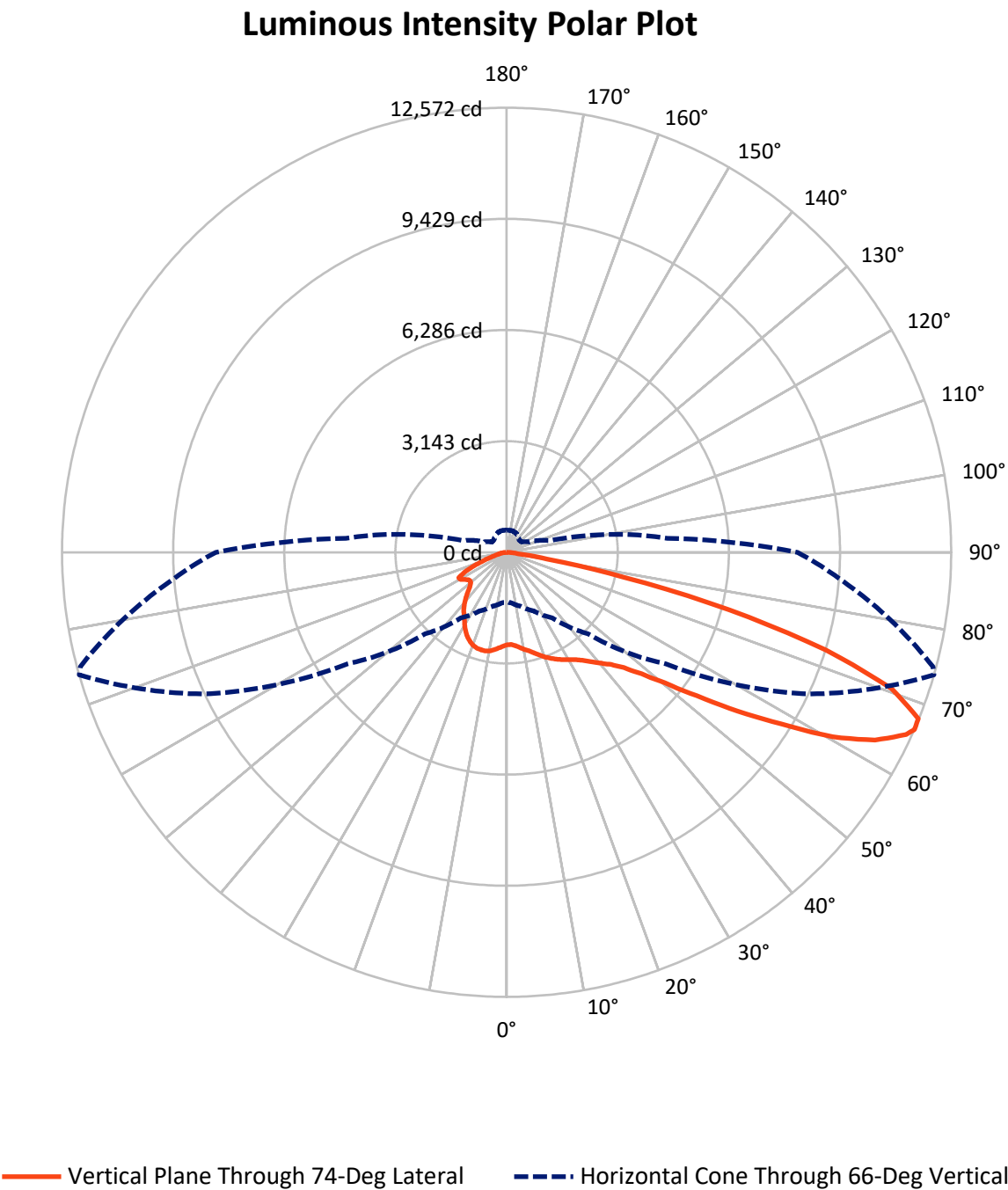
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3880.8	0.0	3880.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	12055.1	0.0	12055.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	15936.0	0.0	15936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.6
10°-20°	766.4	4.8
20°-30°	1438.1	9.0
30°-40°	2212.1	13.9
40°-50°	2975.4	18.7
50°-60°	3518.8	22.1
60°-70°	3255.1	20.4
70°-80°	1369.4	8.6
80°-90°	151.5	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°	15936.0	100.0
0°-180°	15936.0	100.0

Coefficient of Utilization



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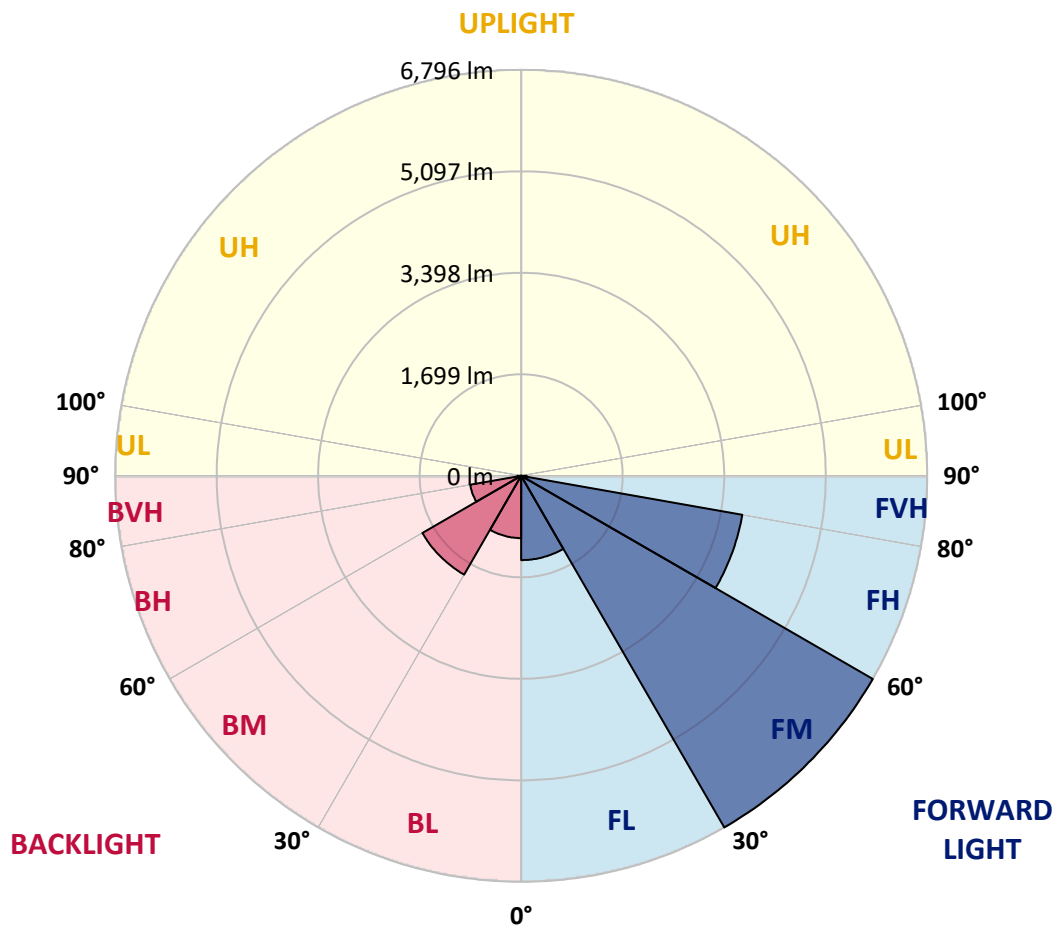
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1410.5	8.9			
FM	(30°-60°)	6795.8	42.6			
FH	(60°-80°)	3758.2	23.6			G2/5000
FVH	(80°-90°)	90.7	0.6			G1/100
BL	(0°-30°)	1043.1	6.5	B3/2500		
BM	(30°-60°)	1910.6	12.0	B2/2500		
BH	(60°-80°)	866.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	60.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4
2.5°	2604.2	2600.1	2608.3	2620.6	2626.8	2616.5	2612.4	2610.4	2610.4	2604.2	2614.5
5°	2481.2	2479.2	2497.6	2520.2	2563.2	2594.0	2635.0	2659.6	2651.4	2639.1	2647.3
7.5°	2321.3	2317.2	2339.7	2382.8	2442.2	2509.9	2610.4	2688.3	2719.1	2715.0	2712.9
10°	2382.8	2378.7	2376.6	2364.3	2384.8	2450.4	2555.0	2692.4	2797.0	2799.0	2801.1
12.5°	2596.0	2606.3	2596.0	2557.1	2512.0	2487.4	2548.9	2702.7	2862.6	2874.9	2926.2
15°	2887.2	2877.0	2856.5	2811.3	2741.6	2667.8	2622.7	2749.8	2956.9	2967.2	3080.0
17.5°	3143.5	3151.7	3139.4	3096.4	3014.4	2918.0	2780.6	2831.9	3057.4	3086.1	3244.0
20°	3422.4	3455.2	3438.8	3385.5	3317.8	3174.3	3002.1	2950.8	3168.1	3188.7	3414.2
22.5°	3744.4	3779.2	3748.5	3697.2	3641.8	3465.5	3244.0	3096.4	3260.4	3303.5	3578.3
25°	4129.9	4162.7	4134.0	4054.0	3984.3	3769.0	3504.4	3260.4	3350.6	3397.8	3711.6
27.5°	4435.4	4460.0	4486.7	4439.5	4332.9	4109.4	3775.1	3430.6	3440.9	3490.1	3834.6
30°	4708.1	4769.7	4792.2	4798.4	4708.1	4458.0	4051.9	3607.0	3518.8	3570.1	3957.6
32.5°	5081.3	5173.6	5136.7	5173.6	5120.3	4786.1	4339.0	3789.5	3619.3	3666.4	4074.5
35°	5626.8	5700.6	5604.2	5575.5	5489.4	5118.3	4615.9	3978.1	3752.6	3803.8	4185.2
37.5°	6213.3	6297.3	6157.9	6043.1	5879.0	5446.3	4853.7	4226.2	3937.1	3978.1	4287.8
40°	6725.9	6795.6	6674.6	6522.9	6248.1	5735.5	5058.8	4400.5	4121.7	4172.9	4406.7
42.5°	7199.6	7244.7	7109.4	6963.8	6596.7	5995.9	5280.2	4585.1	4337.0	4386.2	4503.1
45°	7679.4	7714.3	7525.6	7318.5	6887.9	6233.8	5524.3	4843.5	4652.8	4718.4	4658.9
47.5°	7765.6	7775.8	7743.0	7603.6	7117.6	6461.4	5825.7	5190.0	5134.7	5206.4	4927.5
50°	7168.8	7261.1	7464.1	7601.5	7209.8	6652.1	6127.1	5686.3	5799.0	5891.3	5485.3
52.5°	6010.3	6098.4	6568.0	7088.9	6988.4	6695.1	6451.1	6315.8	6736.2	6846.9	6244.0
55°	4788.1	4866.0	5362.3	6112.8	6272.7	6498.3	6797.7	7119.6	7931.6	8005.5	7076.6
57.5°	3943.3	3986.3	4341.1	5062.9	5319.2	5868.8	6984.3	8075.2	9147.6	9260.4	7800.4
60°	3233.8	3280.9	3545.5	4140.1	4480.5	4968.6	6836.6	9018.5	10599.5	10599.5	8729.3
62.5°	2434.0	2475.1	2721.1	3186.6	3758.7	4205.7	6365.0	9643.9	11694.5	11645.2	9401.9
65°	1671.2	1704.0	1882.4	2192.1	2706.8	3584.4	5721.1	9652.1	12420.4	12354.8	9689.0
66°	1402.6	1431.3	1583.0	1833.2	2265.9	3252.2	5493.5	9477.8	12572.1	12479.8	9568.0
67.5°	1107.3	1127.8	1228.3	1375.9	1661.0	2632.9	5134.7	8983.6	12557.8	12502.4	9260.4
70°	791.5	805.9	879.7	910.5	982.2	1523.6	4078.6	7868.1	11550.9	11567.3	8050.6
72.5°	613.1	635.7	680.8	686.9	670.5	810.0	2475.1	6563.9	9449.1	9442.9	5975.4
75°	494.2	506.5	529.0	541.4	537.3	522.9	1047.8	4896.8	6504.4	6580.3	3346.5
77.5°	389.6	387.6	408.1	424.5	436.8	410.1	479.8	2870.8	3410.1	3313.7	1257.0
80°	287.1	287.1	315.8	321.9	340.4	344.5	319.9	1107.3	1170.9	1064.3	326.0
82.5°	188.7	188.7	219.4	223.5	242.0	268.6	231.7	332.2	324.0	307.6	147.6
85°	102.5	98.4	108.7	123.0	133.3	157.9	139.4	166.1	170.2	168.1	98.4
87.5°	20.5	18.5	28.7	32.8	36.9	49.2	45.1	67.7	94.3	92.3	43.1
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°	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4	2612.4
2.5°	2628.8	2626.8	2649.4	2676.0	2706.8	2725.2	2733.4	2747.8	2737.5	2741.6	2753.9
5°	2667.8	2674.0	2706.8	2741.6	2756.0	2745.7	2723.2	2715.0	2696.5	2692.4	2688.3
7.5°	2725.2	2735.5	2768.3	2776.5	2733.4	2661.7	2610.4	2581.7	2550.9	2542.7	2538.6
10°	2819.5	2825.7	2833.9	2749.8	2643.2	2546.8	2483.3	2456.6	2436.1	2419.7	2423.8
12.5°	2938.5	2934.4	2870.8	2696.5	2544.8	2446.3	2403.3	2386.9	2372.5	2362.3	2360.2
15°	3088.2	3059.5	2877.0	2622.7	2452.5	2370.5	2339.7	2333.6	2317.2	2317.2	2315.1
17.5°	3239.9	3166.1	2872.9	2544.8	2364.3	2319.2	2300.8	2296.7	2292.5	2290.5	2296.7
20°	3391.7	3260.4	2840.1	2448.4	2302.8	2276.1	2272.0	2274.1	2270.0	2276.1	2272.0
22.5°	3524.9	3321.9	2778.5	2345.9	2259.7	2257.7	2247.4	2251.5	2265.9	2267.9	2274.1
25°	3627.5	3344.5	2688.3	2251.5	2229.0	2224.9	2237.2	2253.6	2265.9	2267.9	2278.2
27.5°	3711.6	3332.2	2575.5	2177.7	2175.7	2198.2	2235.1	2241.3	2243.3	2243.3	2235.1
30°	3775.1	3305.5	2432.0	2095.7	2105.9	2161.3	2196.2	2196.2	2179.8	2175.7	2188.0
32.5°	3789.5	3270.7	2276.1	2011.6	2028.0	2093.6	2136.7	2122.4	2103.9	2103.9	2112.1
35°	3801.8	3223.5	2151.1	1896.8	1921.4	1999.3	2040.3	2011.6	1991.1	1985.0	1982.9
37.5°	3797.7	3205.1	2038.3	1751.2	1784.0	1859.9	1886.5	1859.9	1829.1	1814.8	1833.2
40°	3801.8	3192.8	1896.8	1591.3	1624.1	1669.2	1704.0	1683.5	1654.8	1617.9	1636.4
42.5°	3826.4	3209.2	1740.9	1435.4	1435.4	1460.0	1519.5	1505.1	1435.4	1421.1	1437.5
45°	3957.6	3297.3	1585.1	1279.6	1257.0	1273.4	1334.9	1273.4	1230.3	1230.3	1244.7
47.5°	4275.5	3461.4	1447.7	1142.2	1088.9	1121.7	1138.1	1080.7	1047.8	1039.6	1054.0
50°	4923.4	3789.5	1365.7	1029.4	963.8	988.4	978.1	976.1	943.3	947.4	955.6
52.5°	5907.7	4429.3	1341.1	974.0	892.0	898.2	887.9	892.0	885.9	906.4	912.5
55°	6980.2	5103.9	1371.8	982.2	842.8	799.7	803.8	824.3	848.9	881.7	887.9
57.5°	7782.0	5442.2	1451.8	1037.6	781.3	715.7	725.9	764.9	812.0	838.7	853.0
60°	8378.7	5401.2	1568.7	1051.9	707.5	639.8	658.2	715.7	756.7	779.2	793.6
62.5°	8573.5	5144.9	1597.4	947.4	611.1	568.0	613.1	672.6	691.0	715.7	725.9
65°	8413.5	4782.0	1388.2	769.0	537.3	514.7	580.3	625.4	650.0	662.3	664.4
66°	8224.9	4564.6	1275.5	699.2	510.6	498.3	568.0	604.9	629.5	627.5	629.5
67.5°	7810.7	4109.4	1093.0	600.8	471.6	473.7	547.5	572.1	580.3	574.2	574.2
70°	6401.9	2893.4	783.3	455.2	414.2	442.9	492.1	498.3	516.7	508.5	508.5
72.5°	3947.4	1421.1	524.9	348.6	369.1	414.2	412.2	432.7	475.7	488.0	496.2
75°	1939.8	576.2	346.5	295.3	330.1	346.5	342.4	393.7	455.2	508.5	527.0
77.5°	736.2	287.1	242.0	258.4	266.6	260.4	272.7	356.8	455.2	551.6	570.1
80°	227.6	198.9	190.7	213.3	201.0	190.7	205.1	295.3	385.5	418.3	418.3
82.5°	137.4	155.8	147.6	145.6	135.3	137.4	147.6	211.2	297.3	311.7	311.7
85°	96.4	102.5	84.1	80.0	77.9	75.9	75.9	123.0	176.3	174.3	180.5
87.5°	36.9	41.0	30.8	30.8	28.7	20.5	16.4	20.5	20.5	14.4	10.3
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)