

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: P1210647

Luminaire Tested: **ARCH3-190-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210647
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: ARCH3-190-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20901 lumens
Efficiency: N/A
Efficacy: 110.4 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

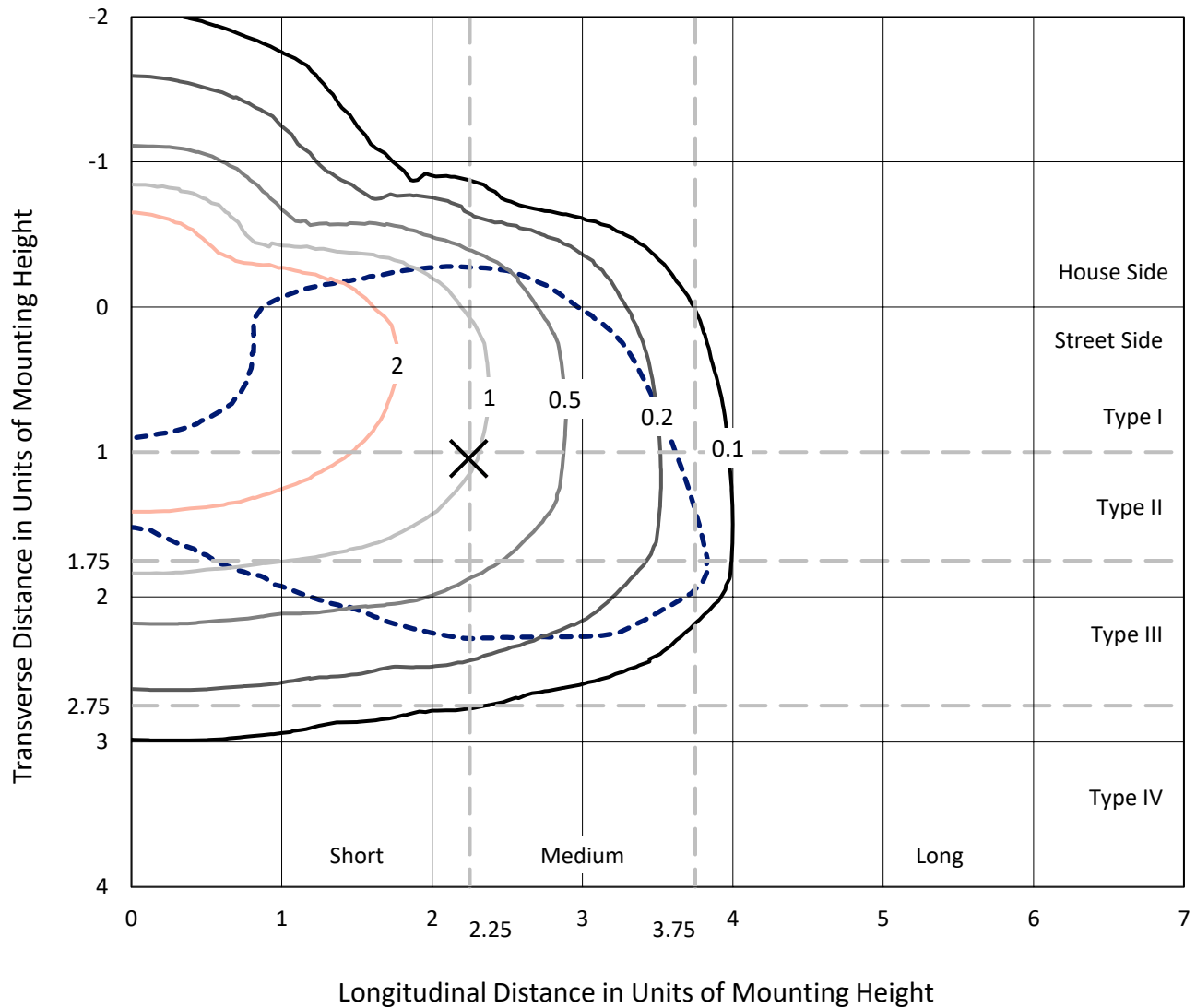


REPORT NUMBER: P1210647

CATALOG NUMBER: ARCH3-190-722-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

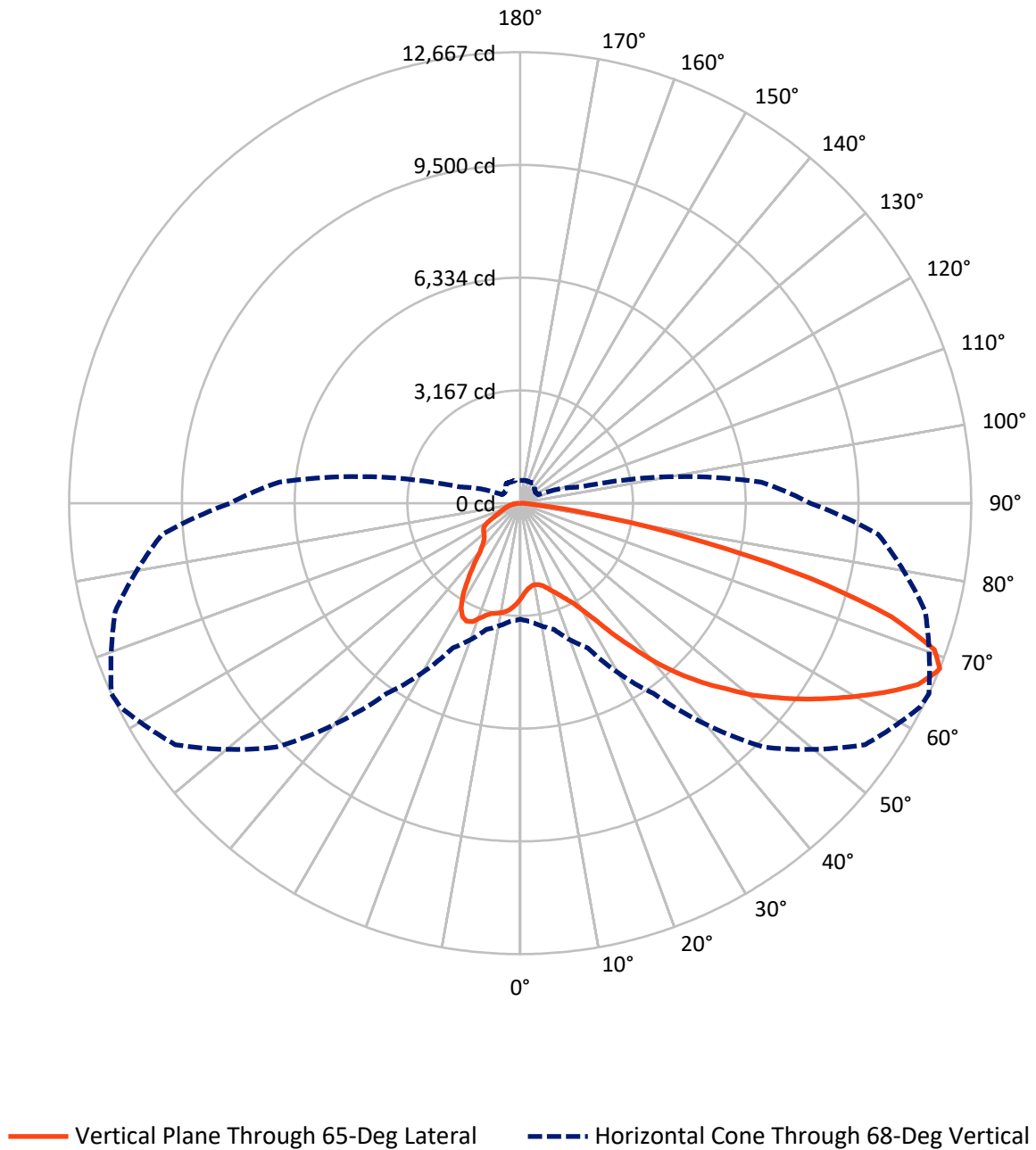


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1210647

CATALOG NUMBER: ARCH3-190-722-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5124.3	0.0	5124.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15776.7	0.0	15776.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	20901.0	0.0	20901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	1.2
10°-20°	831.1	4.0
20°-30°	1504.3	7.2
30°-40°	2366.3	11.3
40°-50°	3524.4	16.9
50°-60°	4623.3	22.1
60°-70°	5055.9	24.2
70°-80°	2501.8	12.0
80°-90°	238.6	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°	20901.0	100.0
0°-180°	20901.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210647

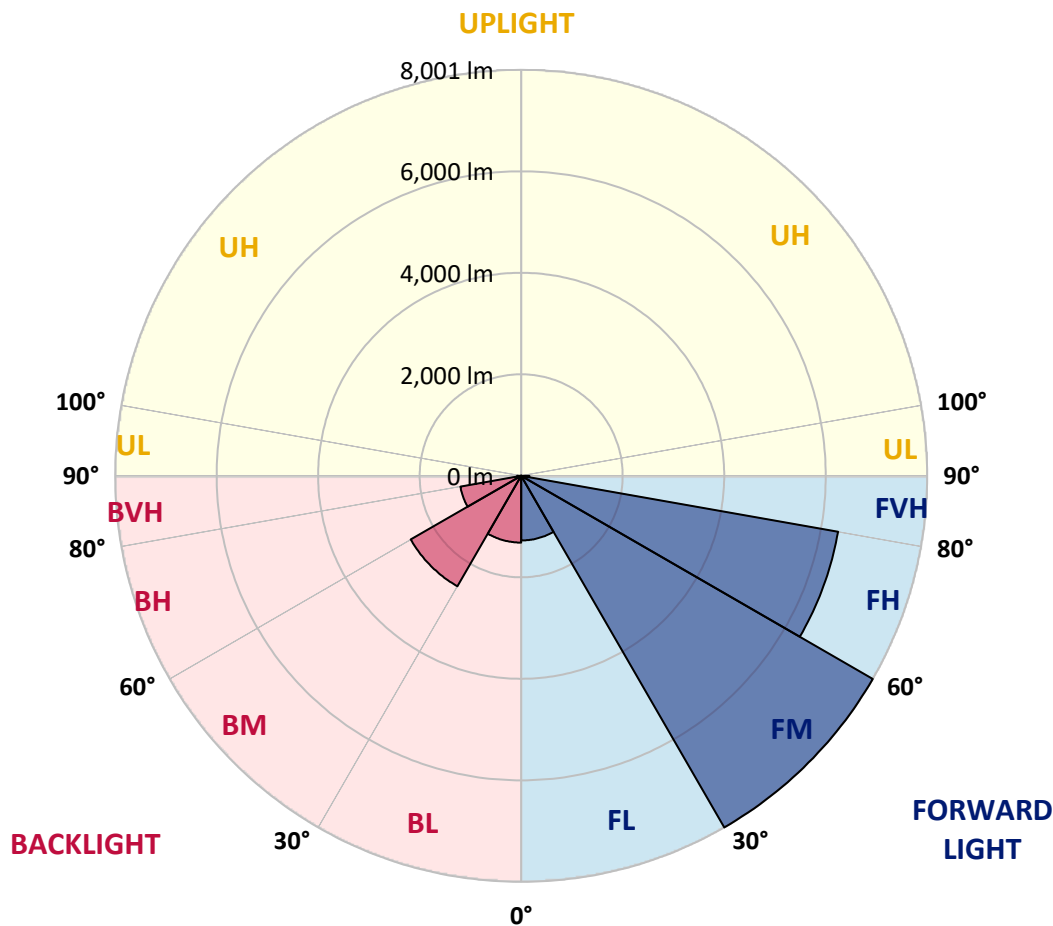
CATALOG NUMBER: ARCH3-190-722-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1274.1	6.1			
FM	(30°-60°)	8000.6	38.3			
FH	(60°-80°)	6341.4	30.3			G3/7500
FVH	(80°-90°)	160.5	0.8			G2/225
BL	(0°-30°)	1316.5	6.3	B3/2500		
BM	(30°-60°)	2513.4	12.0	B3/5000		
BH	(60°-80°)	1216.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	78.1	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



REPORT NUMBER: P1210647

CATALOG NUMBER: ARCH3-190-722-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9
2.5°	2331.3	2325.9	2339.4	2352.9	2382.5	2417.5	2466.1	2506.5	2511.9	2587.3	2646.6
5°	2193.9	2185.8	2199.2	2215.4	2228.9	2272.0	2323.2	2382.5	2406.8	2517.3	2643.9
7.5°	2207.3	2204.6	2210.0	2204.6	2204.6	2223.5	2258.5	2317.8	2344.8	2476.8	2657.4
10°	2285.5	2290.9	2293.6	2277.4	2261.2	2253.1	2263.9	2304.4	2323.2	2479.5	2716.7
12.5°	2414.9	2422.9	2425.6	2396.0	2374.4	2339.4	2320.5	2336.7	2350.2	2506.5	2800.3
15°	2590.0	2595.4	2576.6	2557.7	2503.8	2460.7	2414.9	2401.4	2406.8	2563.1	2894.6
17.5°	2794.9	2786.8	2786.8	2741.0	2670.9	2603.5	2528.1	2517.3	2517.3	2654.7	3029.3
20°	3018.6	3026.7	3002.4	2940.4	2870.3	2765.2	2689.8	2641.2	2646.6	2759.8	3193.8
22.5°	3342.0	3355.5	3290.8	3201.8	3094.0	2972.8	2864.9	2786.8	2789.5	2897.3	3363.5
25°	3689.7	3695.1	3654.6	3536.0	3390.5	3218.0	3075.2	2975.4	2972.8	3050.9	3581.9
27.5°	4045.4	4069.7	3988.8	3875.6	3740.9	3525.3	3336.6	3201.8	3180.3	3285.4	3854.1
30°	4412.0	4441.6	4363.4	4252.9	4085.8	3902.6	3678.9	3522.6	3509.1	3649.2	4217.9
32.5°	4781.2	4789.3	4727.3	4635.7	4484.7	4312.2	4131.7	3959.2	3945.7	4174.8	4689.6
35°	5083.1	5107.3	5064.2	5042.6	4932.1	4773.1	4597.9	4498.2	4533.2	4827.0	5301.4
37.5°	5446.9	5471.2	5422.6	5417.3	5382.2	5244.8	5123.5	5131.6	5166.6	5565.5	5945.5
40°	5972.5	5999.4	5875.4	5821.5	5821.5	5686.8	5646.3	5837.7	5883.5	6293.2	6616.6
42.5°	6417.2	6460.3	6387.5	6352.5	6247.4	6153.0	6201.5	6471.1	6549.2	6988.5	7201.4
45°	6632.8	6665.1	6751.4	6853.8	6751.4	6586.9	6770.2	7074.8	7185.3	7630.0	7786.3
47.5°	6748.7	6778.3	6878.0	7152.9	7223.0	7085.5	7344.3	7724.3	7799.8	8266.0	8344.2
50°	6764.8	6859.2	6988.5	7263.4	7584.2	7603.0	7921.0	8384.6	8473.6	8891.3	8834.7
52.5°	6632.8	6670.5	6937.3	7400.9	7756.6	8080.1	8549.0	9018.0	9082.7	9478.8	9268.6
55°	6417.2	6471.1	6737.9	7368.5	7923.7	8532.8	9187.8	9640.6	9713.3	10050.2	9670.2
57.5°	6223.1	6250.1	6535.7	7274.2	8090.8	8985.6	9756.4	10290.1	10338.6	10551.5	9966.7
60°	6007.5	6037.1	6322.8	7072.1	8214.8	9327.9	10349.4	10945.0	10988.1	11079.8	10311.6
62.5°	5449.6	5527.8	5886.2	6737.9	8182.5	9718.7	10982.7	11591.8	11645.7	11546.0	10583.9
65°	4425.4	4535.9	4975.2	5980.5	7880.6	9972.1	11500.2	12187.5	12279.1	11896.4	10656.6
67.5°	3436.3	3514.5	3867.5	4746.2	6821.4	9845.4	11834.4	12597.1	12624.1	11839.8	10252.4
68°	3258.4	3336.6	3673.5	4487.4	6527.7	9694.5	11826.3	12607.9	12667.2	11777.8	10096.0
70°	2493.0	2582.0	2902.7	3554.9	5260.9	8735.0	11333.1	12349.2	12341.1	11028.6	9125.8
72.5°	1557.8	1609.0	1830.0	2242.4	3479.4	6646.2	9619.0	10891.1	10912.7	8991.0	6999.3
75°	989.1	989.1	978.3	1086.1	1784.2	3786.7	7150.2	8384.6	8400.8	6295.9	4412.0
77.5°	859.8	835.5	719.6	609.1	711.5	1471.6	4231.4	5414.6	5325.6	3390.5	2094.1
80°	725.0	684.6	590.2	490.5	458.2	460.9	1625.2	2749.1	2630.5	1220.9	695.3
82.5°	522.9	487.8	444.7	385.4	353.1	274.9	339.6	795.1	776.2	353.1	226.4
85°	283.0	256.0	250.6	253.3	212.9	169.8	142.8	175.2	175.2	153.6	129.4
87.5°	99.7	72.8	86.2	97.0	83.5	70.1	56.6	67.4	70.1	67.4	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210647

CATALOG NUMBER: ARCH3-190-722-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9	2670.9
2.5°	2681.7	2708.6	2773.3	2829.9	2870.3	2905.4	2924.2	2932.3	2951.2	2953.9	2948.5
5°	2703.2	2773.3	2870.3	2953.9	2999.7	3018.6	3024.0	3026.7	3018.6	3024.0	3018.6
7.5°	2759.8	2848.8	2986.2	3059.0	3067.1	3037.4	3040.1	3029.3	3040.1	3050.9	3050.9
10°	2846.1	2959.3	3088.6	3115.6	3080.6	3064.4	3096.7	3161.4	3183.0	3212.6	3212.6
12.5°	2959.3	3094.0	3185.7	3161.4	3129.1	3183.0	3277.3	3342.0	3363.5	3374.3	3366.2
15°	3088.6	3234.2	3280.0	3199.1	3258.4	3374.3	3406.7	3368.9	3315.0	3290.8	3304.3
17.5°	3253.0	3374.3	3347.4	3293.5	3428.2	3444.4	3339.3	3218.0	3131.8	3099.4	3121.0
20°	3425.5	3530.6	3406.7	3430.9	3514.5	3342.0	3142.5	2986.2	2910.8	2897.3	2918.8
22.5°	3608.8	3676.2	3466.0	3589.9	3466.0	3115.6	2875.7	2794.9	2776.0	2797.6	2816.4
25°	3816.3	3808.2	3568.4	3638.5	3285.4	2838.0	2695.2	2689.8	2689.8	2703.2	2730.2
27.5°	4050.8	3924.1	3670.8	3573.8	2972.8	2608.9	2582.0	2584.6	2576.6	2579.3	2592.7
30°	4323.0	4080.5	3784.0	3360.9	2622.4	2436.4	2425.6	2417.5	2398.7	2393.3	2398.7
32.5°	4665.3	4244.9	3899.9	3010.5	2315.1	2258.5	2253.1	2210.0	2164.2	2158.8	2177.7
35°	5099.2	4544.0	3959.2	2571.2	2061.8	2059.1	2040.2	1972.8	1913.6	1913.6	1900.1
37.5°	5595.1	4929.4	3983.4	2142.6	1851.6	1865.0	1811.1	1724.9	1679.1	1652.1	1660.2
40°	6101.8	5368.7	3980.7	1768.0	1668.3	1671.0	1630.6	1525.5	1412.3	1344.9	1361.1
42.5°	6589.6	5767.6	3910.7	1568.6	1520.1	1512.0	1479.6	1336.8	1242.5	1188.6	1191.3
45°	6980.4	6180.0	3802.9	1450.0	1385.3	1398.8	1326.0	1239.8	1153.5	1105.0	1102.3
47.5°	7371.2	6492.6	3630.4	1377.2	1285.6	1261.3	1231.7	1172.4	1107.7	1053.8	1056.5
50°	7727.0	6759.4	3468.7	1328.7	1194.0	1132.0	1137.4	1102.3	1045.7	997.2	994.5
52.5°	7977.6	6934.6	3379.7	1301.8	1083.5	1016.1	1034.9	1016.1	962.2	927.1	924.4
55°	8228.3	7069.4	3409.4	1266.7	962.2	908.3	940.6	935.2	905.6	894.8	897.5
57.5°	8430.4	7171.8	3514.5	1202.0	846.3	813.9	867.8	851.7	830.1	832.8	832.8
60°	8627.2	7303.9	3638.5	1053.8	746.6	749.3	800.5	770.8	757.3	781.6	784.3
62.5°	8832.0	7446.7	3536.0	838.2	660.3	679.2	738.5	714.2	719.6	754.6	765.4
65°	8807.8	7433.2	2881.1	687.3	584.8	622.6	711.5	703.4	706.1	719.6	725.0
67.5°	8311.8	6958.9	1980.9	584.8	530.9	576.8	690.0	657.6	660.3	652.2	654.9
68°	8144.7	6791.8	1746.5	568.7	520.2	566.0	679.2	649.5	652.2	644.1	641.4
70°	7233.8	5816.1	1105.0	501.3	482.4	536.3	625.3	614.5	611.8	606.4	606.4
72.5°	5514.3	4293.4	582.2	433.9	439.3	490.5	557.9	579.5	566.0	568.7	584.8
75°	3651.9	2582.0	404.3	371.9	385.4	420.4	495.9	539.0	525.6	533.6	525.6
77.5°	1932.4	1390.7	323.4	315.3	315.3	339.6	409.7	477.0	477.0	471.7	463.6
80°	633.4	490.5	258.7	248.0	253.3	266.8	328.8	390.8	398.9	388.1	382.7
82.5°	212.9	226.4	194.1	180.6	186.0	196.7	248.0	299.2	301.9	280.3	274.9
85°	132.1	150.9	121.3	118.6	118.6	121.3	150.9	164.4	150.9	134.8	140.1
87.5°	62.0	75.5	56.6	48.5	40.4	35.0	27.0	10.8	10.8	5.4	5.4
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)