

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: P835920

Luminaire Tested: **ARCH3-110-750-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17957 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

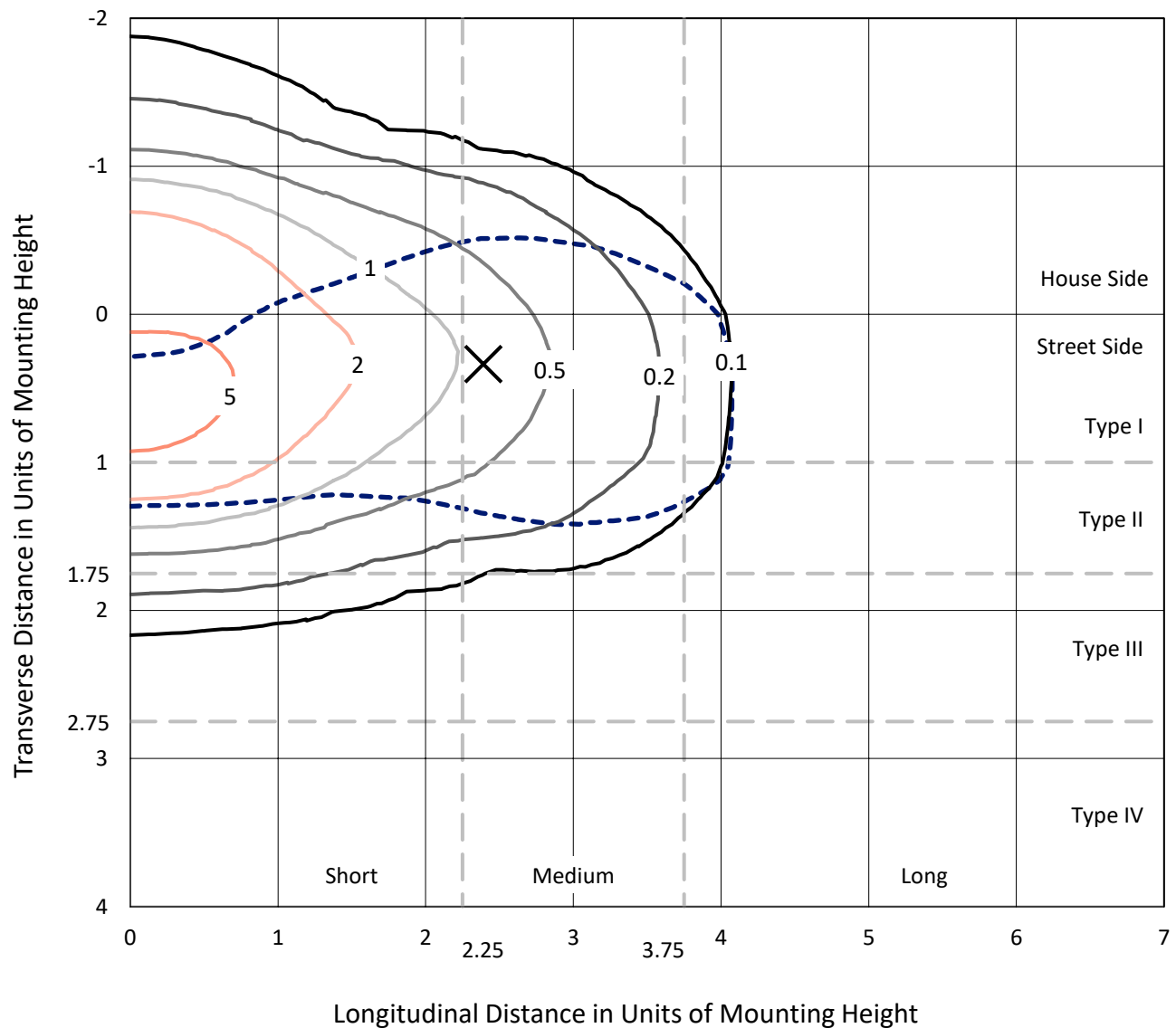
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

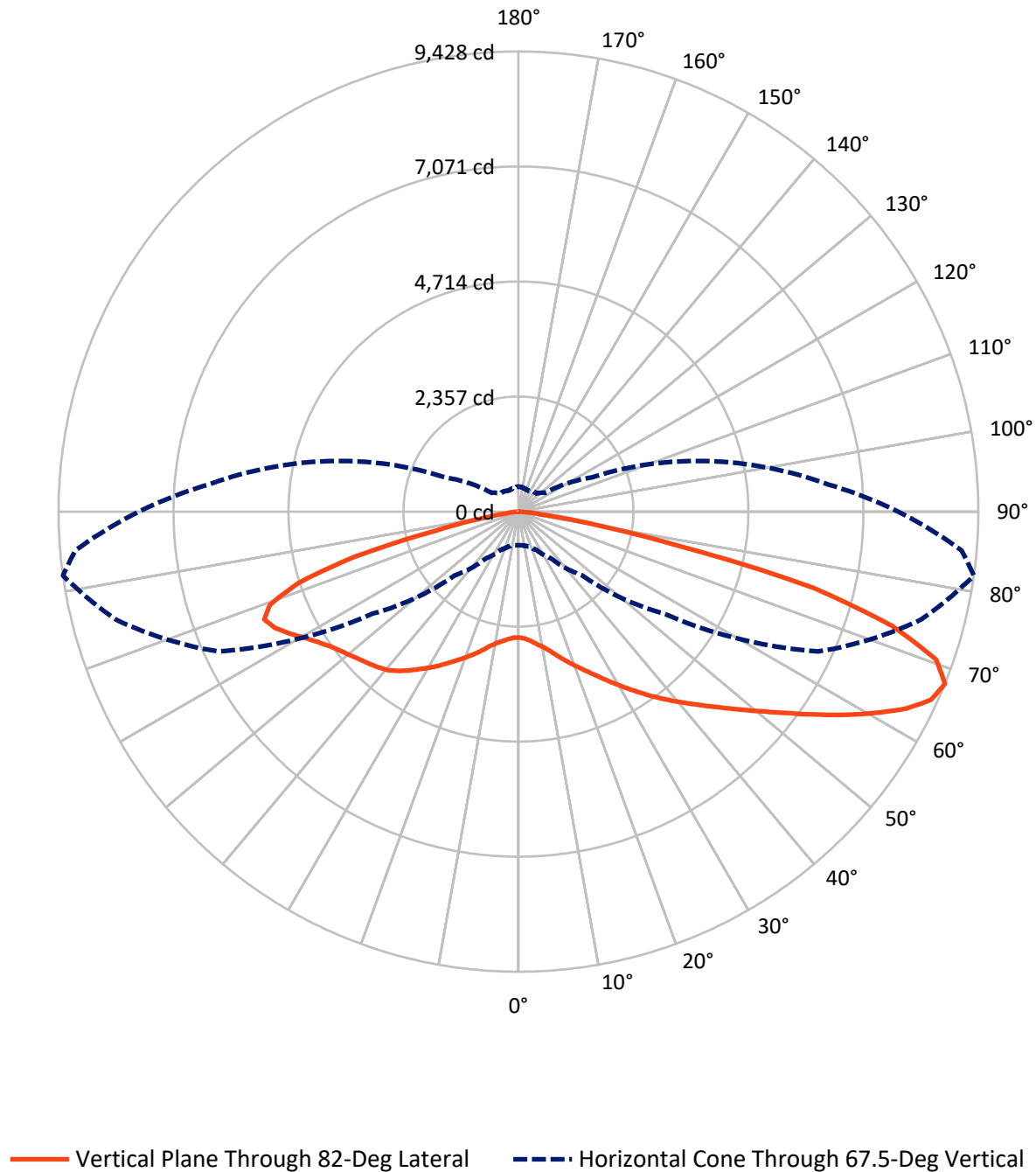
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5468.6	0.0	5468.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12488.4	0.0	12488.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	17957.0	0.0	17957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.5
10°-20°	960.9	5.4
20°-30°	1931.2	10.8
30°-40°	3033.6	16.9
40°-50°	3695.6	20.6
50°-60°	3491.9	19.4
60°-70°	2883.5	16.1
70°-80°	1570.2	8.7
80°-90°	123.4	0.7
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°	17957.0	100.0
0°-180°	17957.0	100.0

Coefficient of Utilization



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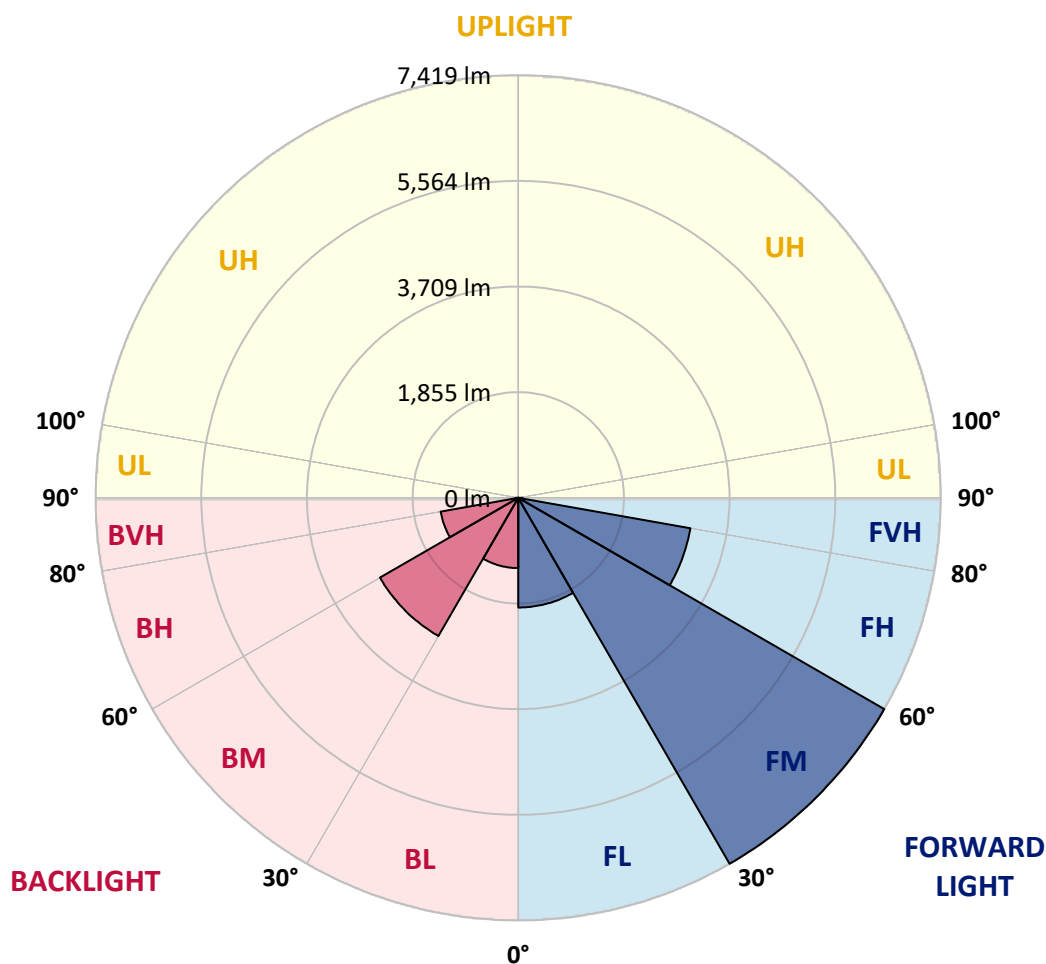
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1925.7	10.7			
FM	(30°-60°)	7418.8	41.3			
FH	(60°-80°)	3069.5	17.1			G2/5000
FVH	(80°-90°)	74.4	0.4			G1/100
BL	(0°-30°)	1233.2	6.9	B3/2500		
BM	(30°-60°)	2802.2	15.6	B3/5000		
BH	(60°-80°)	1384.1	7.7	B3/2500		G3/2500
BVH	(80°-90°)	49.0	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3
2.5°	2698.6	2698.6	2719.5	2719.5	2701.2	2672.6	2664.7	2633.5	2604.8	2604.8	2607.4
5°	2956.8	2954.2	2969.8	2949.0	2904.6	2847.3	2808.2	2740.4	2683.0	2664.7	2662.1
7.5°	3272.3	3269.7	3277.5	3243.6	3160.1	3066.3	2988.1	2878.6	2784.7	2745.6	2735.1
10°	3624.3	3621.7	3613.8	3556.5	3444.4	3298.3	3181.0	3029.8	2889.0	2826.4	2813.4
12.5°	4028.4	4023.2	4004.9	3921.5	3767.7	3579.9	3410.5	3214.9	3027.2	2941.1	2912.4
15°	4479.5	4471.7	4437.8	4336.1	4130.1	3892.8	3673.8	3423.5	3194.0	3081.9	3042.8
17.5°	4954.0	4954.0	4901.9	4750.7	4521.2	4226.6	3955.4	3637.3	3368.7	3230.5	3183.6
20°	5436.4	5433.8	5368.6	5186.1	4914.9	4576.0	4231.8	3882.4	3548.6	3381.8	3324.4
22.5°	5944.8	5939.6	5858.8	5650.2	5326.9	4943.6	4542.1	4124.9	3746.8	3546.0	3473.0
25°	6528.9	6521.1	6422.0	6166.5	5783.2	5350.4	4891.5	4409.1	3973.7	3728.6	3642.5
27.5°	7149.4	7139.0	7021.7	6724.4	6304.7	5783.2	5277.3	4737.6	4224.0	3931.9	3835.5
30°	7702.2	7694.4	7566.6	7261.6	6779.2	6213.4	5645.0	5066.1	4487.3	4148.3	4028.4
32.5°	8119.4	8119.4	8004.7	7704.8	7204.2	6625.4	6015.2	5376.4	4761.1	4380.4	4239.6
35°	8372.3	8380.1	8281.0	8041.2	7569.2	7013.9	6398.5	5741.5	5053.1	4628.1	4476.9
37.5°	8408.8	8434.9	8377.5	8215.9	7822.1	7337.2	6774.0	6093.5	5355.6	4878.4	4708.9
40°	8239.3	8257.6	8260.2	8197.6	7926.4	7569.2	7105.1	6466.3	5676.3	5141.8	4946.2
42.5°	7900.4	7913.4	7936.9	7955.1	7850.8	7670.9	7358.0	6813.1	6017.8	5410.3	5180.9
45°	7462.3	7459.7	7498.8	7577.1	7571.8	7613.6	7498.8	7128.6	6372.4	5715.4	5441.6
47.5°	6807.9	6794.8	6933.0	7110.3	7199.0	7394.5	7501.4	7376.3	6758.3	6051.7	5738.9
50°	5783.2	5770.1	6072.6	6489.8	6750.5	7047.8	7358.0	7524.9	7162.5	6429.8	6062.2
52.5°	4536.8	4523.8	4907.1	5637.2	6205.6	6638.4	7068.6	7558.8	7545.8	6852.2	6427.2
55°	3374.0	3363.5	3736.4	4526.4	5446.8	6163.9	6714.0	7470.2	7905.6	7337.2	6870.5
57.5°	2377.9	2372.7	2696.0	3350.5	4471.7	5585.0	6372.4	7298.1	8236.7	7863.9	7371.1
60°	1668.7	1660.9	1895.6	2401.4	3381.8	4711.5	6033.5	7068.6	8484.4	8382.7	7903.0
62.5°	1123.8	1118.6	1285.4	1707.8	2401.4	3626.9	5519.8	6914.8	8625.2	8904.2	8440.1
65°	852.6	850.0	925.6	1157.7	1700.0	2604.8	4703.7	6896.5	8643.5	9295.3	8896.4
67.5°	688.3	691.0	732.7	865.7	1175.9	1851.2	3647.7	6781.8	8547.0	9428.3	9118.0
70°	563.2	563.2	581.4	670.1	868.3	1248.9	2547.4	6260.3	8278.4	9081.5	8854.7
72.5°	430.2	432.8	490.2	542.3	654.5	876.1	1632.2	5180.9	7644.8	8007.3	7835.2
75°	341.6	339.0	372.9	445.9	508.4	625.8	1001.2	3715.5	6505.4	6257.7	6148.2
77.5°	245.1	242.5	268.6	331.1	385.9	443.3	597.1	1874.7	3538.2	3251.4	3170.6
80°	166.9	161.7	185.1	229.4	255.5	260.7	292.0	719.6	1543.6	1454.9	1436.7
82.5°	86.0	86.0	99.1	130.4	133.0	135.6	130.4	232.1	511.0	477.2	456.3
85°	33.9	33.9	36.5	44.3	44.3	46.9	46.9	60.0	54.8	52.1	49.5
87.5°	2.6	2.6	5.2	5.2	7.8	7.8	7.8	10.4	13.0	13.0	13.0
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°	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3
2.5°	2602.2	2591.7	2557.8	2550.0	2544.8	2537.0	2539.6	2521.3	2513.5	2516.1	2505.7
5°	2649.1	2630.8	2589.1	2570.9	2565.7	2557.8	2565.7	2552.6	2539.6	2544.8	2539.6
7.5°	2714.3	2688.2	2636.1	2617.8	2615.2	2607.4	2617.8	2607.4	2597.0	2602.2	2591.7
10°	2782.1	2748.2	2690.8	2672.6	2672.6	2670.0	2680.4	2664.7	2654.3	2656.9	2651.7
12.5°	2881.2	2836.8	2774.3	2758.6	2750.8	2758.6	2761.2	2740.4	2722.1	2724.7	2716.9
15°	3001.1	2951.6	2883.8	2860.3	2855.1	2852.5	2842.0	2816.0	2792.5	2789.9	2782.1
17.5°	3131.5	3068.9	2988.1	2964.6	2941.1	2933.3	2907.2	2873.3	2836.8	2836.8	2826.4
20°	3256.6	3186.2	3089.7	3055.9	3022.0	2990.7	2946.3	2891.6	2844.7	2836.8	2826.4
22.5°	3392.2	3308.8	3196.7	3147.1	3087.1	3024.6	2949.0	2875.9	2816.0	2802.9	2795.1
25°	3543.4	3439.1	3306.2	3233.2	3136.7	3040.2	2928.1	2834.2	2763.8	2743.0	2737.8
27.5°	3710.3	3585.2	3423.5	3316.6	3175.8	3024.6	2881.2	2769.0	2683.0	2656.9	2649.1
30°	3879.8	3731.2	3530.4	3374.0	3175.8	2975.0	2795.1	2664.7	2565.7	2529.2	2523.9
32.5°	4049.3	3882.4	3626.9	3405.2	3144.5	2891.6	2683.0	2529.2	2417.0	2372.7	2383.1
35°	4252.6	4049.3	3715.5	3418.3	3092.4	2789.9	2555.2	2375.3	2260.6	2221.5	2229.3
37.5°	4463.8	4216.1	3785.9	3407.8	3019.3	2675.2	2411.8	2237.1	2093.7	2025.9	2033.8
40°	4646.4	4367.4	3835.5	3371.3	2925.5	2544.8	2271.0	2041.6	1843.4	1778.2	1770.4
42.5°	4818.4	4479.5	3861.5	3316.6	2818.6	2393.6	2070.3	1775.6	1577.5	1496.6	1499.2
45°	4998.4	4589.0	3851.1	3243.6	2685.6	2216.3	1812.1	1514.9	1340.2	1267.2	1269.8
47.5°	5204.3	4706.3	3840.7	3165.4	2523.9	1986.8	1564.4	1285.4	1134.2	1082.1	1076.8
50°	5423.4	4836.7	3827.6	3068.9	2344.0	1731.3	1319.3	1071.6	943.9	910.0	902.2
52.5°	5671.1	4977.5	3819.8	2954.2	2127.6	1460.1	1100.3	883.9	797.9	774.4	771.8
55°	5968.3	5141.8	3830.2	2816.0	1866.9	1204.6	915.2	761.4	704.0	691.0	688.3
57.5°	6330.7	5353.0	3861.5	2654.3	1593.1	983.0	779.6	685.7	649.2	638.8	638.8
60°	6724.4	5592.8	3918.9	2471.8	1319.3	810.9	691.0	625.8	610.1	623.2	623.2
62.5°	7149.4	5874.4	4020.6	2250.2	1063.8	685.7	620.6	576.2	565.8	591.9	594.5
65°	7543.2	6148.2	4085.8	1984.2	844.8	594.5	565.8	526.7	531.9	558.0	555.4
67.5°	7785.6	6375.1	3994.5	1650.5	670.1	526.7	508.4	474.5	487.6	508.4	511.0
70°	7637.0	6247.3	3543.4	1246.3	524.1	458.9	445.9	425.0	435.4	461.5	471.9
72.5°	6909.6	5595.4	2756.0	842.2	422.4	385.9	391.1	380.7	393.7	417.2	440.6
75°	5608.5	4229.2	1848.6	539.7	333.7	328.5	336.4	328.5	333.7	357.2	370.2
77.5°	2928.1	2062.4	920.4	336.4	247.7	255.5	268.6	271.2	286.8	292.0	297.2
80°	1366.3	928.2	383.3	187.7	164.3	179.9	206.0	208.6	213.8	221.6	224.2
82.5°	445.9	279.0	177.3	101.7	93.9	101.7	133.0	159.1	161.7	177.3	177.3
85°	46.9	28.7	39.1	41.7	36.5	44.3	60.0	57.4	26.1	15.6	15.6
87.5°	13.0	10.4	13.0	13.0	10.4	10.4	7.8	2.6	0.0	0.0	0.0
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)