

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: P799413

Luminaire Tested: **ARCH2-110-740-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13817 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.5
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

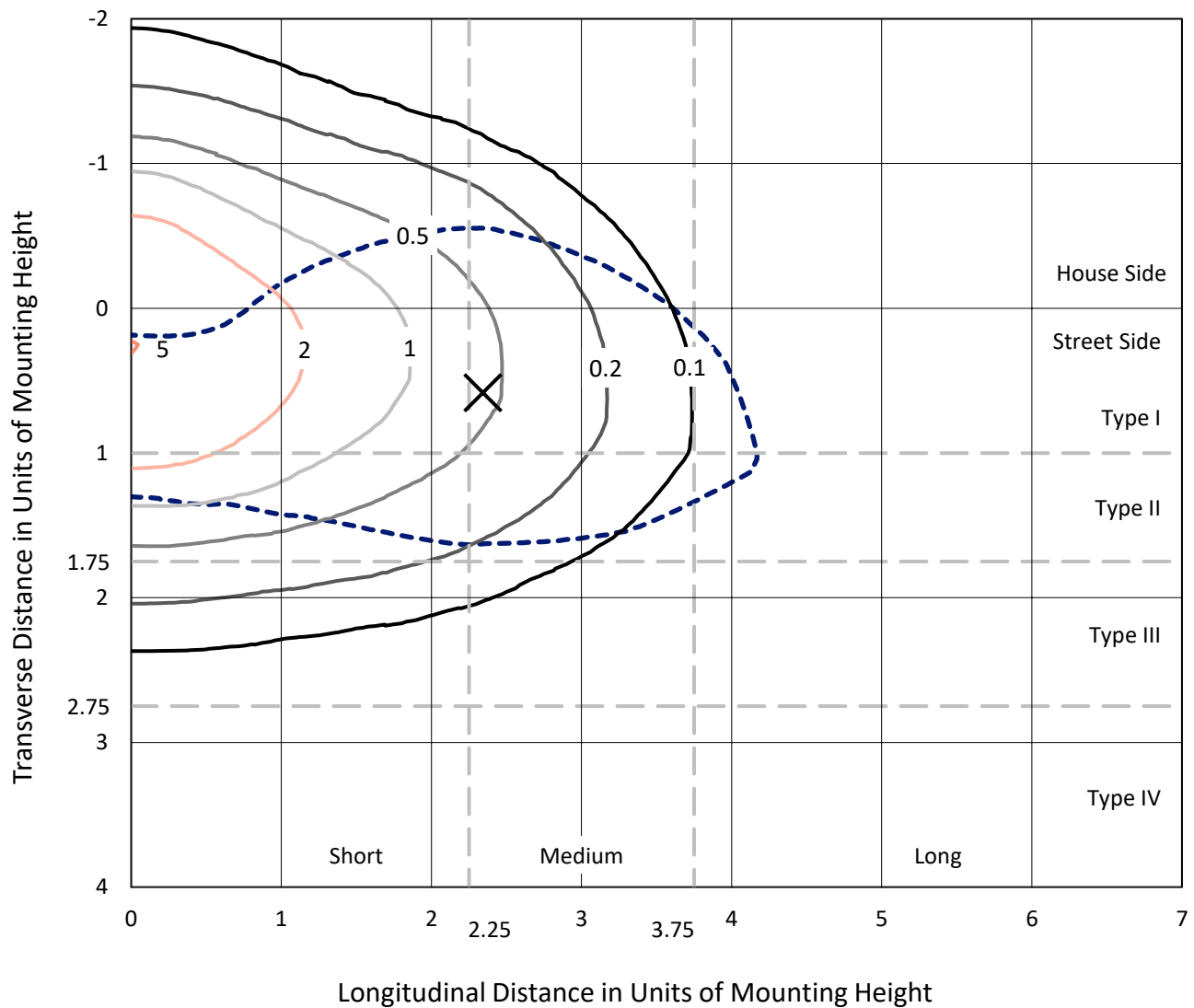


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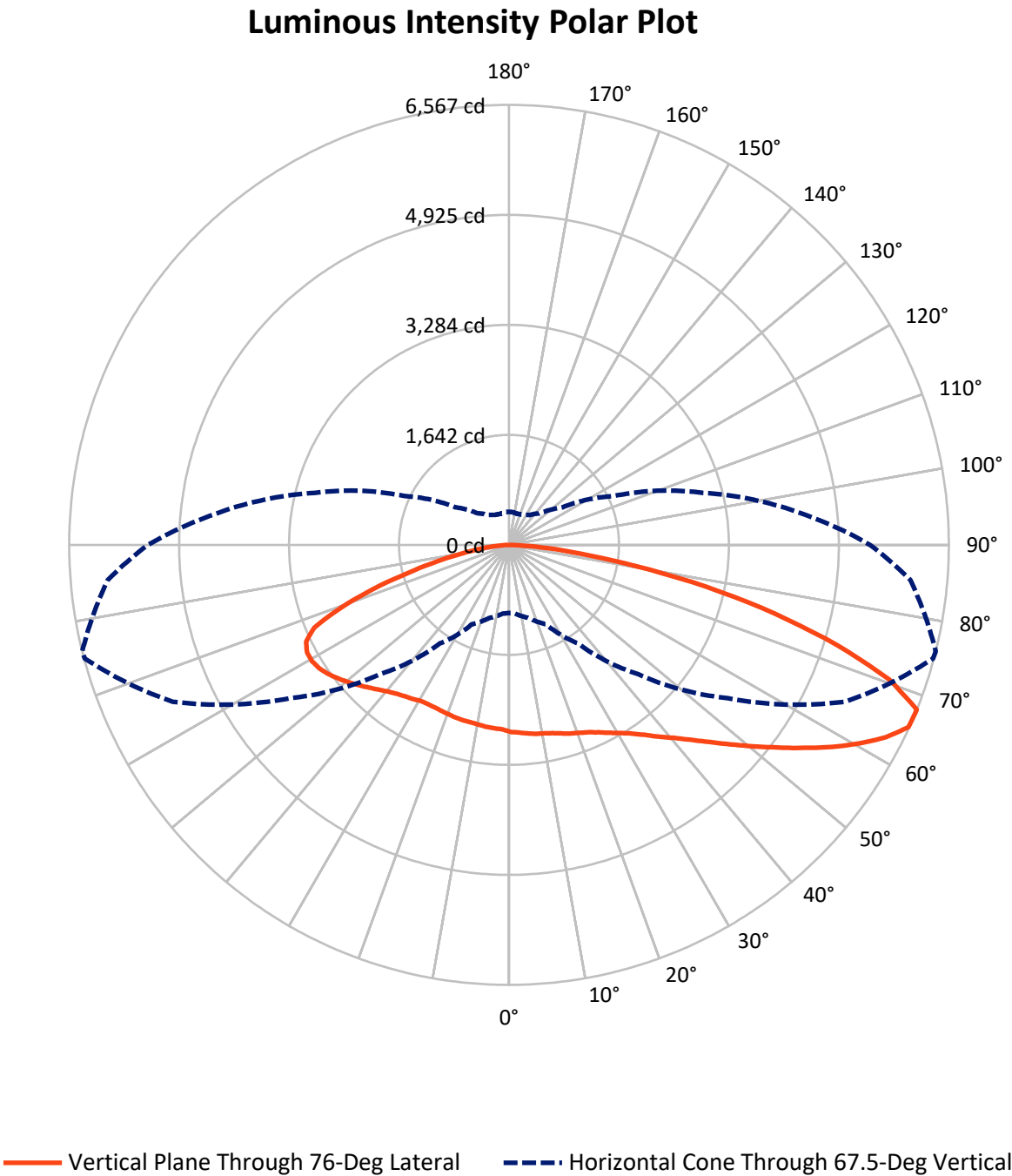
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4668.8	0.0	4668.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9148.2	0.0	9148.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	13817.0	0.0	13817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	1.9
10°-20°	822.8	6.0
20°-30°	1397.9	10.1
30°-40°	1989.1	14.4
40°-50°	2512.1	18.2
50°-60°	2719.8	19.7
60°-70°	2529.7	18.3
70°-80°	1358.7	9.8
80°-90°	217.7	1.6
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°	13817.0	100.0
0°-180°	13817.0	100.0

Coefficient of Utilization



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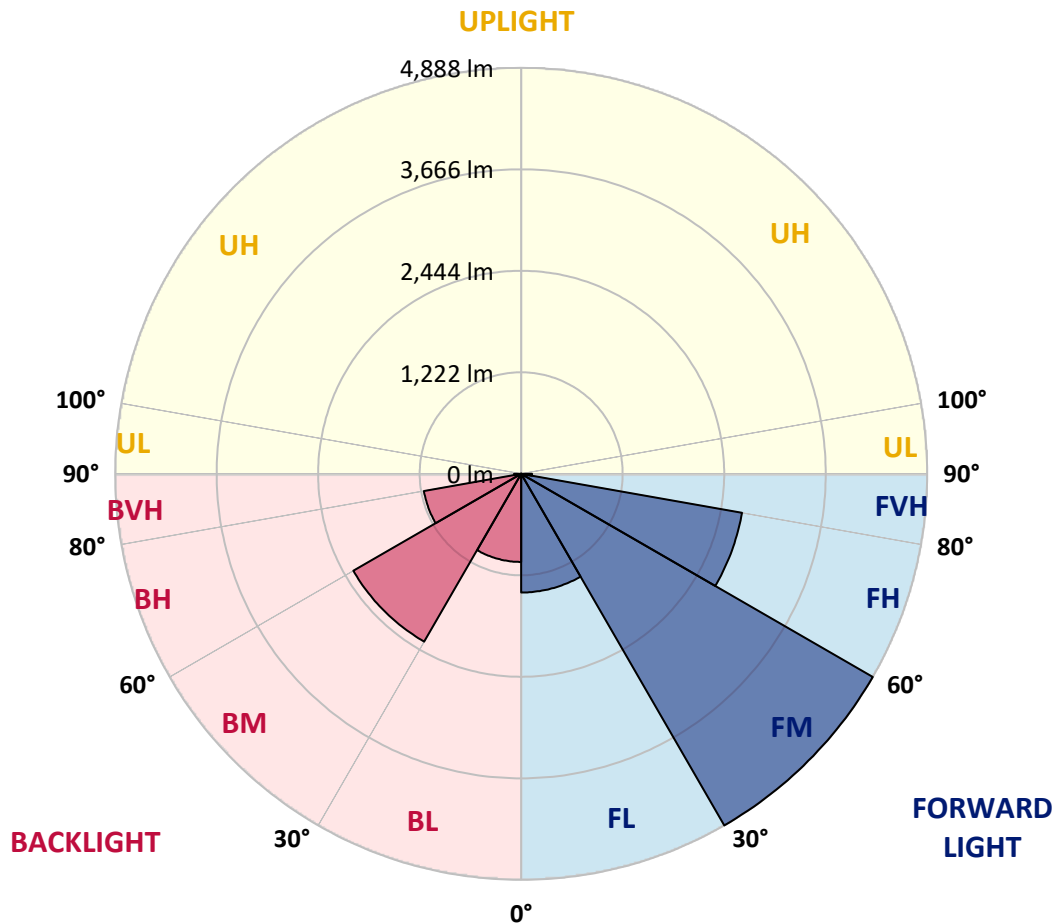
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.8	10.3			
FM	(30°-60°)	4887.9	35.4			
FH	(60°-80°)	2699.7	19.5			G2/5000
FVH	(80°-90°)	131.7	1.0			G2/225
BL	(0°-30°)	1061.0	7.7	B3/2500		
BM	(30°-60°)	2333.1	16.9	B2/2500		
BH	(60°-80°)	1188.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	86.0	0.6			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°	76°	85°
0°	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
2.5°	2875.7	2870.5	2850.0	2852.6	2852.6	2850.0	2819.2	2806.4	2806.4	2803.8	2775.6
5°	2978.3	2970.6	2947.5	2942.4	2932.1	2919.3	2870.5	2842.3	2829.5	2826.9	2788.4
7.5°	3098.8	3088.6	3060.4	3045.0	3019.3	2986.0	2924.4	2880.8	2850.0	2847.4	2793.6
10°	3219.4	3209.1	3175.8	3147.6	3111.7	3057.8	2978.3	2914.1	2865.4	2860.3	2796.1
12.5°	3363.1	3352.8	3311.8	3275.8	3222.0	3150.1	3045.0	2957.7	2891.0	2883.4	2803.8
15°	3514.4	3499.0	3458.0	3416.9	3350.2	3257.9	3132.2	3016.7	2932.1	2919.3	2826.9
17.5°	3640.1	3619.6	3586.2	3545.2	3470.8	3363.1	3219.4	3075.7	2970.6	2960.3	2850.0
20°	3747.8	3732.5	3696.5	3658.1	3578.5	3460.5	3301.5	3134.7	3006.5	2993.7	2868.0
22.5°	3850.5	3829.9	3809.4	3781.2	3694.0	3563.1	3396.4	3206.6	3052.7	3037.3	2891.0
25°	3968.5	3945.4	3937.7	3922.3	3819.7	3686.3	3511.8	3296.4	3116.8	3098.8	2932.1
27.5°	4114.7	4089.0	4073.6	4073.6	3950.5	3812.0	3635.0	3401.5	3191.2	3175.8	2983.4
30°	4268.6	4237.8	4214.7	4214.7	4076.2	3937.7	3755.5	3506.7	3275.8	3257.9	3050.1
32.5°	4404.6	4373.8	4348.1	4345.6	4201.9	4063.4	3881.2	3622.1	3378.4	3355.4	3132.2
35°	4509.7	4481.5	4458.4	4463.6	4327.6	4191.6	4022.3	3776.1	3506.7	3481.1	3239.9
37.5°	4573.9	4563.6	4550.8	4568.7	4443.0	4314.8	4168.5	3924.8	3652.9	3629.8	3373.3
40°	4607.2	4599.5	4650.8	4673.9	4540.5	4425.1	4314.8	4078.8	3812.0	3786.3	3527.2
42.5°	4655.9	4720.1	4740.6	4735.5	4612.3	4509.7	4448.2	4245.5	3999.2	3976.2	3711.9
45°	4481.5	4466.1	4579.0	4640.6	4617.5	4563.6	4573.9	4445.6	4217.3	4194.2	3924.8
47.5°	4248.1	4227.5	4291.7	4443.0	4532.8	4584.1	4686.7	4653.4	4468.7	4448.2	4173.7
50°	3755.5	3783.8	4022.3	4225.0	4402.0	4579.0	4781.6	4876.6	4745.7	4725.2	4440.5
52.5°	3209.1	3237.4	3486.2	3953.1	4242.9	4540.5	4850.9	5099.7	5045.9	5022.8	4725.2
55°	2811.5	2873.1	3155.3	3493.9	4017.2	4419.9	4892.0	5328.0	5369.1	5348.6	5035.6
57.5°	2416.5	2462.7	2675.6	2975.7	3709.4	4209.6	4889.4	5541.0	5707.7	5687.2	5351.1
60°	1952.2	2011.2	2180.5	2503.7	3298.9	3958.2	4817.6	5707.7	6033.5	6018.1	5656.4
62.5°	1634.1	1652.0	1772.6	2052.2	2770.5	3640.1	4655.9	5797.5	6328.5	6318.2	5930.9
65°	1316.0	1318.5	1428.9	1662.3	2260.0	3245.1	4381.5	5764.1	6551.7	6556.8	6128.4
67.5°	1015.8	1028.7	1128.7	1305.7	1795.7	2732.0	3989.0	5538.4	6554.2	6567.1	6015.5
70°	702.9	713.1	864.5	1036.4	1387.8	2177.9	3458.0	4940.7	6015.5	6025.8	5392.2
72.5°	495.1	500.2	661.8	828.6	1085.1	1641.8	2608.9	4086.5	5128.0	5135.7	4535.4
75°	369.4	374.5	466.9	628.5	831.1	1136.4	1782.9	3129.6	4096.7	4096.7	3581.1
77.5°	261.7	264.2	302.7	433.5	554.1	767.0	1072.3	2049.6	3006.5	3011.6	2608.9
80°	177.0	179.6	197.5	292.4	346.3	415.6	582.3	1074.8	1895.7	1903.4	1657.2
82.5°	92.3	97.5	110.3	148.8	174.4	230.9	300.1	546.4	1049.2	1069.7	995.3
85°	35.9	35.9	41.0	48.7	64.1	89.8	138.5	207.8	474.6	490.0	438.7
87.5°	12.8	12.8	15.4	15.4	18.0	20.5	23.1	30.8	53.9	53.9	51.3
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°	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0	2791.0
2.5°	2765.4	2765.4	2752.5	2757.7	2755.1	2750.0	2744.8	2752.5	2744.8	2726.9	2724.3
5°	2770.5	2765.4	2744.8	2742.3	2734.6	2724.3	2711.5	2716.6	2703.8	2688.4	2685.8
7.5°	2773.0	2762.8	2734.6	2724.3	2708.9	2688.4	2667.9	2667.9	2649.9	2634.5	2632.0
10°	2767.9	2755.1	2716.6	2696.1	2667.9	2637.1	2608.9	2601.2	2580.7	2562.7	2562.7
12.5°	2770.5	2752.5	2703.8	2670.4	2632.0	2593.5	2557.6	2547.3	2529.3	2511.4	2508.8
15°	2785.9	2760.2	2698.7	2655.0	2598.6	2555.0	2516.5	2508.8	2493.4	2480.6	2480.6
17.5°	2801.3	2767.9	2691.0	2629.4	2560.1	2511.4	2475.5	2475.5	2465.2	2457.5	2457.5
20°	2809.0	2770.5	2675.6	2593.5	2514.0	2462.7	2429.3	2434.4	2431.9	2429.3	2429.3
22.5°	2826.9	2775.6	2662.7	2560.1	2465.2	2411.3	2380.6	2388.3	2385.7	2385.7	2388.3
25°	2855.1	2788.4	2652.5	2529.3	2419.0	2360.0	2326.7	2331.8	2331.8	2331.8	2331.8
27.5°	2893.6	2814.1	2649.9	2501.1	2372.9	2306.2	2265.1	2265.1	2254.9	2257.4	2260.0
30°	2952.6	2862.8	2655.0	2475.5	2324.1	2239.5	2190.7	2183.0	2180.5	2185.6	2188.2
32.5°	3024.4	2929.5	2685.8	2457.5	2272.8	2165.1	2103.5	2100.9	2093.3	2093.3	2093.3
35°	3114.2	2993.7	2714.0	2455.0	2221.5	2085.6	2018.9	2011.2	1993.2	1985.5	1985.5
37.5°	3229.7	3093.7	2747.4	2437.0	2177.9	2008.6	1929.1	1903.4	1882.9	1880.3	1880.3
40°	3370.8	3206.6	2796.1	2416.5	2131.7	1929.1	1823.9	1780.3	1782.9	1793.1	1793.1
42.5°	3537.5	3345.1	2857.7	2406.2	2065.0	1847.0	1700.8	1649.5	1667.4	1677.7	1680.2
45°	3732.5	3509.3	2927.0	2393.4	2003.5	1754.6	1569.9	1505.8	1513.5	1516.1	1518.6
47.5°	3958.2	3691.4	2998.8	2383.1	1934.2	1639.2	1426.3	1341.6	1339.1	1323.7	1328.8
50°	4194.2	3883.8	3073.2	2365.2	1849.6	1503.2	1274.9	1174.9	1154.4	1131.3	1133.8
52.5°	4445.6	4081.3	3142.4	2337.0	1744.4	1364.7	1131.3	1023.5	982.5	956.8	962.0
55°	4722.6	4284.0	3209.1	2293.3	1634.1	1226.2	1003.0	892.7	841.4	820.9	823.4
57.5°	4976.6	4478.9	3257.9	2239.5	1513.5	1100.5	890.1	782.4	749.1	746.5	749.1
60°	5222.9	4643.1	3278.4	2165.1	1390.4	985.1	785.0	702.9	679.8	692.6	695.2
62.5°	5430.7	4748.3	3268.1	2065.0	1264.7	874.8	700.3	641.3	625.9	651.6	654.1
65°	5551.2	4781.6	3196.3	1921.4	1128.7	767.0	620.8	556.7	549.0	564.4	572.1
67.5°	5392.2	4573.9	3001.4	1723.9	977.4	667.0	543.8	492.5	479.7	492.5	492.5
70°	4779.1	3963.3	2539.6	1410.9	810.6	569.5	472.0	436.1	425.8	436.1	433.5
72.5°	3981.3	3296.4	2000.9	1100.5	638.7	479.7	410.4	377.1	366.8	356.6	351.4
75°	3088.6	2503.7	1451.9	808.1	482.3	384.8	343.7	313.0	287.3	297.6	292.4
77.5°	2262.6	1757.2	1028.7	559.2	346.3	297.6	269.4	246.3	228.3	248.8	246.3
80°	1457.1	1136.4	687.5	374.5	238.6	207.8	197.5	184.7	202.7	264.2	269.4
82.5°	890.1	720.8	410.4	243.7	156.5	138.5	128.3	128.3	207.8	228.3	230.9
85°	397.6	382.2	223.2	125.7	87.2	79.5	71.8	92.3	84.7	61.6	64.1
87.5°	64.1	66.7	48.7	43.6	33.3	33.3	25.7	18.0	12.8	7.7	7.7
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)