

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: P399899

Luminaire Tested: **ARCH-L-PA3-200-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23058 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

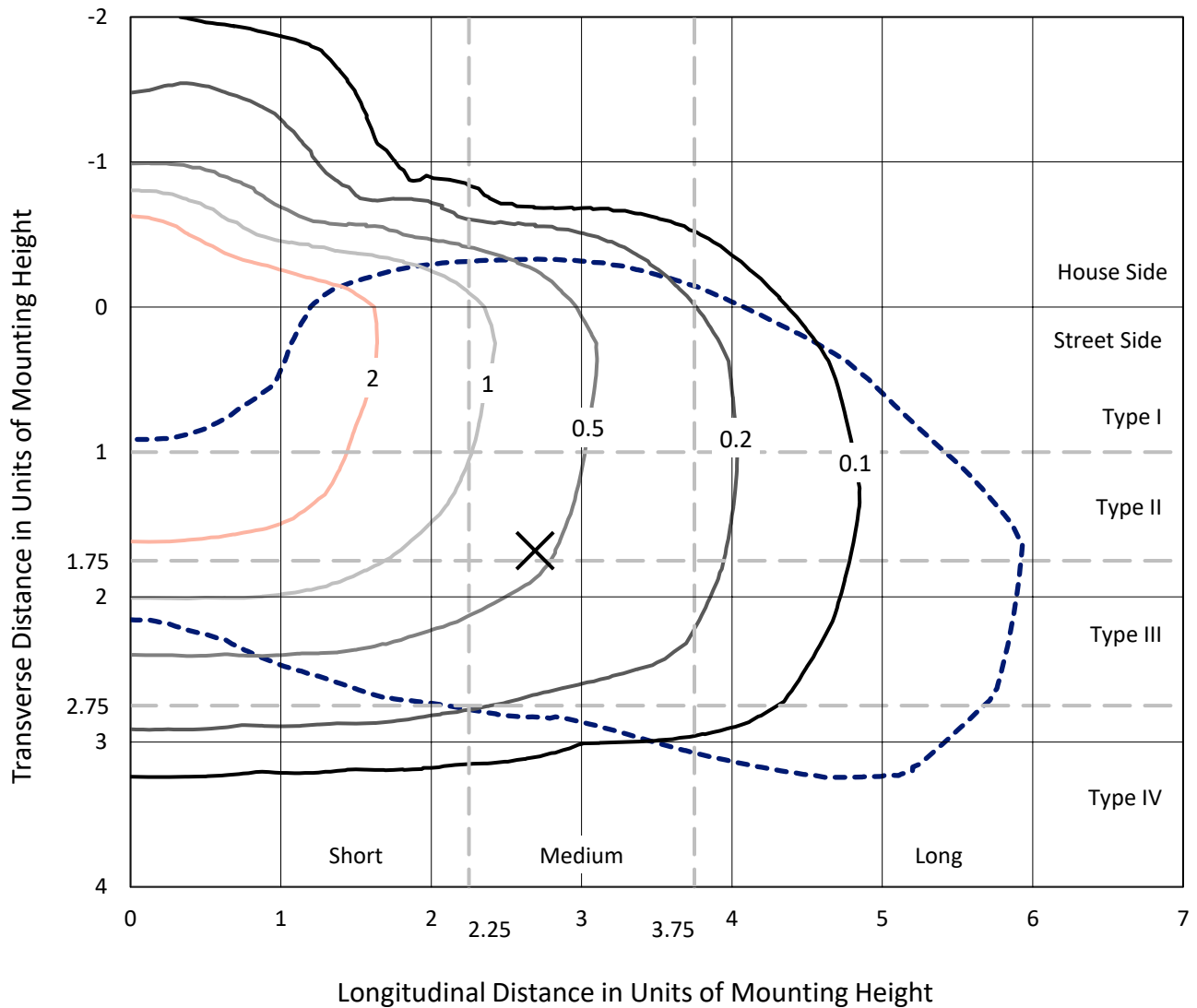
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

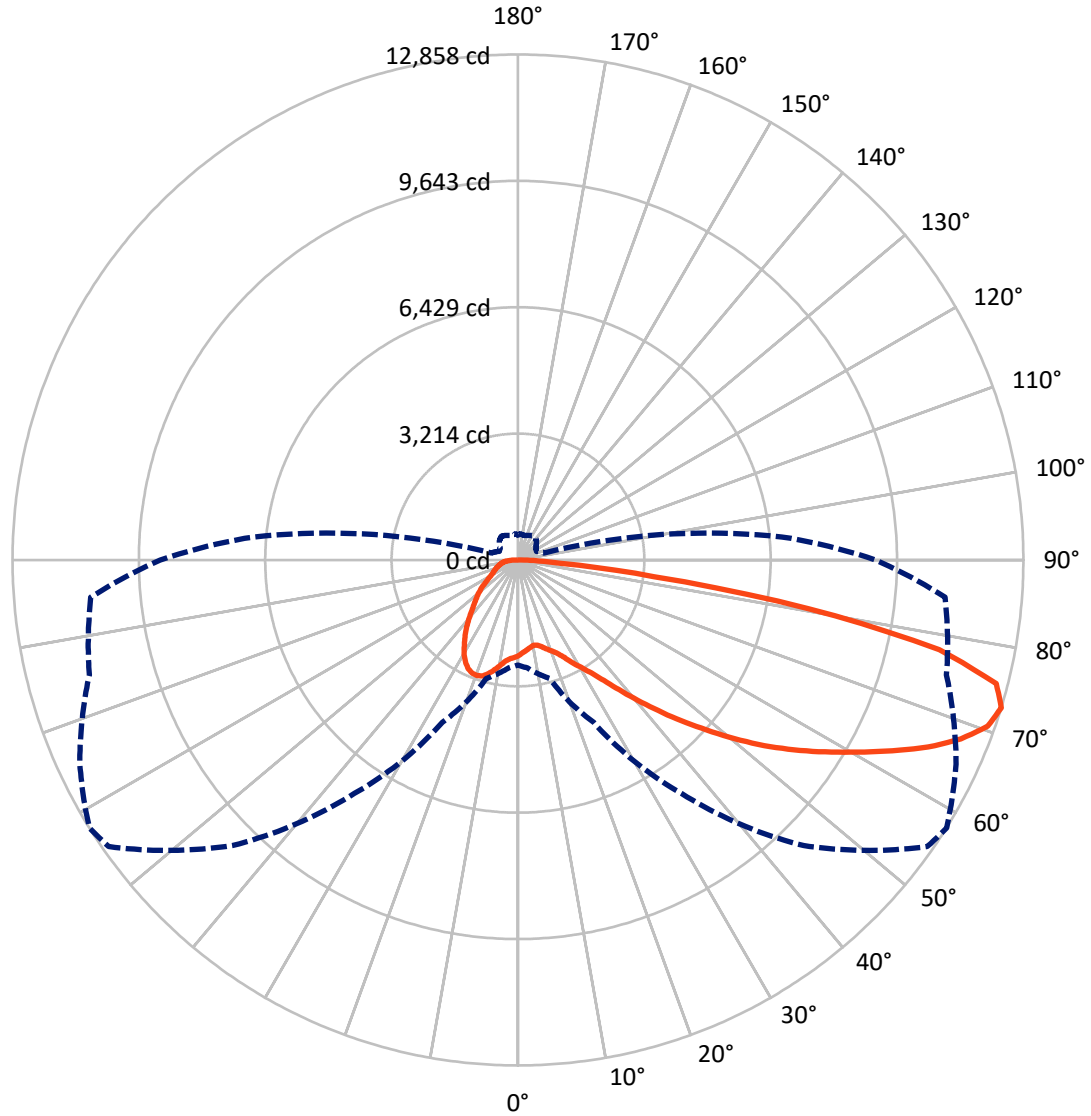
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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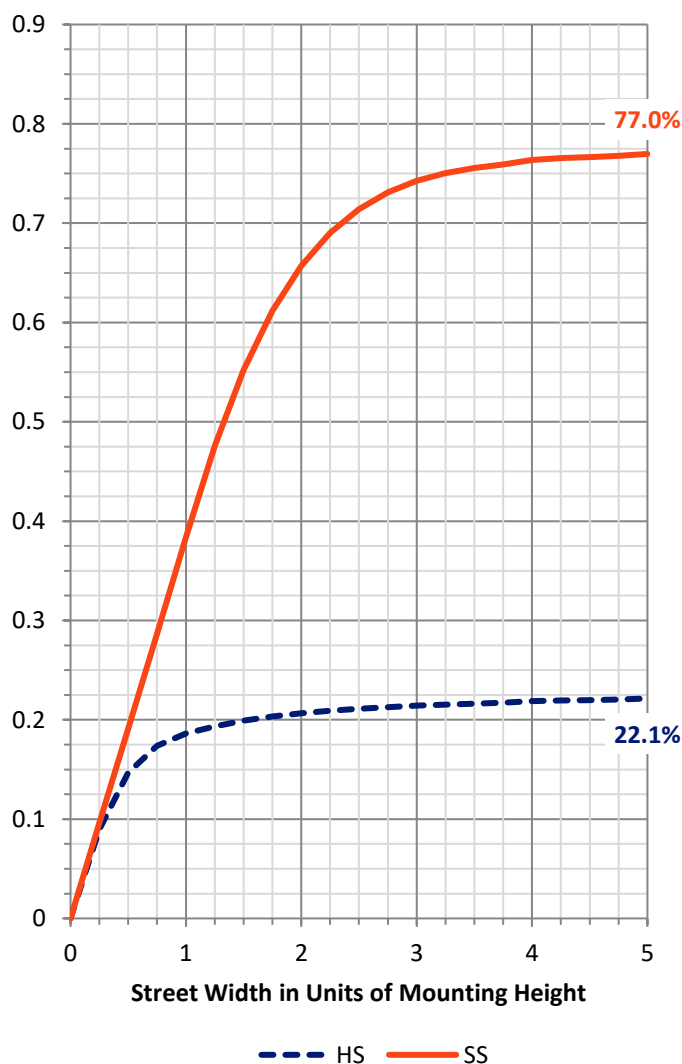
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5229.3	0.0	5229.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17828.7	0.0	17828.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	23058.0	0.0	23058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	1.0
10°-20°	744.0	3.2
20°-30°	1332.8	5.8
30°-40°	2005.0	8.7
40°-50°	3246.7	14.1
50°-60°	4887.4	21.2
60°-70°	5751.9	24.9
70°-80°	4078.6	17.7
80°-90°	777.2	3.4
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°	23058.0	100.0
0°-180°	23058.0	100.0

Coefficient of Utilization

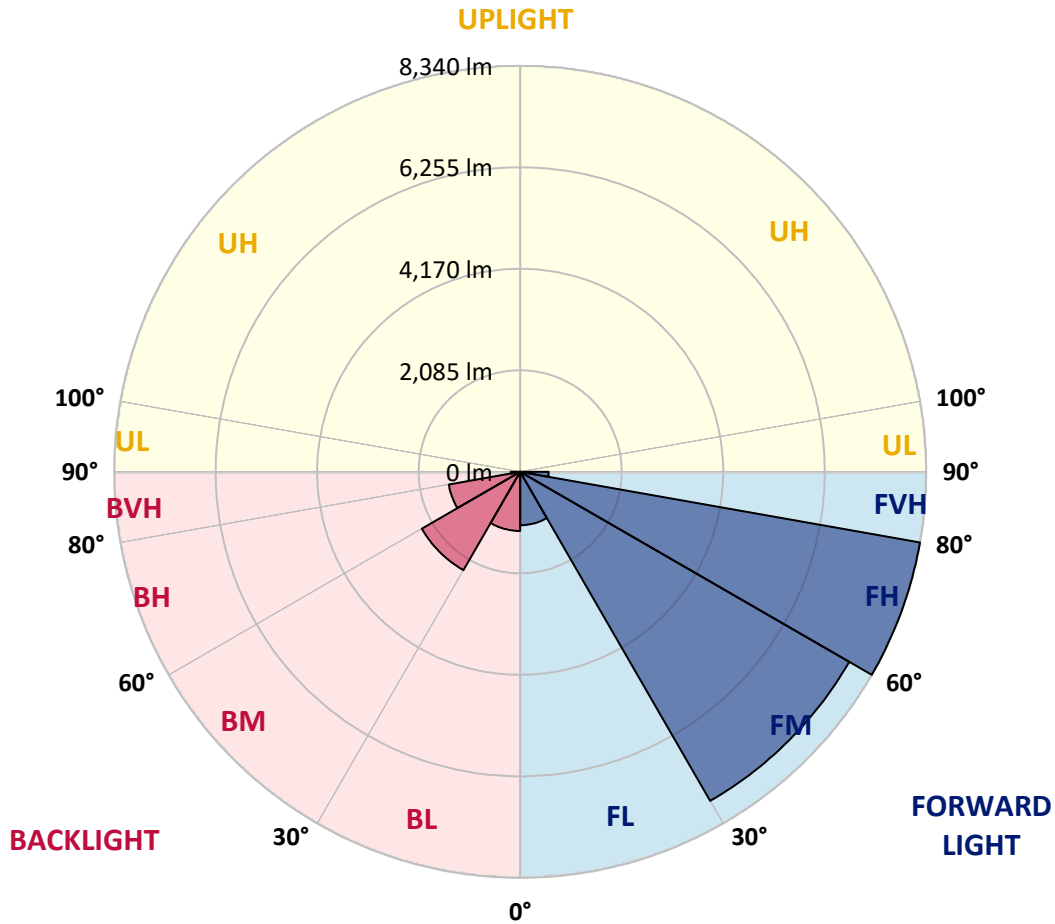


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.5	4.8			
FM (30°-60°)	7805.8	33.9			
FH (60°-80°)	8340.2	36.2			G4/12000
FVH (80°-90°)	586.2	2.5			G4/750
BL (0°-30°)	1214.7	5.3	B3/2500		
BM (30°-60°)	2333.3	10.1	B2/2500		
BH (60°-80°)	1490.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	191.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1
2.5°	2340.8	2328.6	2331.7	2331.7	2343.9	2349.9	2353.0	2362.1	2368.2	2383.4	2404.7
5°	2231.2	2222.1	2225.1	2228.2	2249.5	2270.8	2289.1	2301.2	2319.5	2343.9	2374.3
7.5°	2152.1	2146.0	2149.0	2155.1	2173.4	2197.7	2228.2	2246.4	2273.8	2319.5	2371.2
10°	2094.2	2094.2	2097.3	2109.5	2127.7	2158.2	2182.5	2203.8	2258.6	2340.8	2420.0
12.5°	2048.6	2048.6	2057.7	2082.1	2112.5	2143.0	2200.8	2225.1	2298.2	2410.8	2505.2
15°	2045.5	2048.6	2051.6	2072.9	2106.4	2173.4	2258.6	2295.2	2383.4	2517.4	2626.9
17.5°	2094.2	2097.3	2085.1	2091.2	2130.8	2225.1	2337.8	2380.4	2493.0	2639.1	2751.7
20°	2243.4	2243.4	2206.9	2173.4	2200.8	2304.3	2432.1	2474.7	2599.5	2760.9	2873.5
22.5°	2547.8	2563.0	2477.8	2404.7	2362.1	2420.0	2535.6	2581.3	2721.3	2894.8	3007.4
25°	2916.1	2931.3	2815.7	2712.2	2633.0	2623.9	2700.0	2748.7	2864.4	3044.0	3138.3
27.5°	3272.3	3244.9	3138.3	3040.9	2940.5	2858.3	2916.1	2958.7	3092.7	3229.6	3287.5
30°	3552.3	3531.0	3427.5	3357.5	3263.1	3156.6	3123.1	3168.8	3278.4	3406.2	3436.6
32.5°	3862.8	3847.6	3744.1	3652.8	3573.6	3473.2	3400.1	3421.4	3482.3	3573.6	3591.9
35°	4258.5	4292.0	4182.4	3996.7	3908.5	3811.0	3759.3	3765.4	3811.0	3868.9	3838.4
37.5°	4675.5	4715.1	4721.2	4429.0	4310.3	4222.0	4167.2	4188.5	4243.3	4282.9	4188.5
40°	5448.7	5409.1	5250.8	5034.7	4852.1	4766.9	4690.8	4687.7	4727.3	4797.3	4626.8
42.5°	6474.5	6438.0	6118.4	5838.3	5549.1	5451.7	5302.6	5238.7	5256.9	5345.2	5107.8
45°	7457.7	7442.5	7186.8	6861.1	6514.1	6325.4	5984.4	5829.2	5814.0	5884.0	5600.9
47.5°	8331.3	8264.4	8078.7	7826.0	7789.5	7296.4	6669.3	6459.3	6386.2	6425.8	6109.2
50°	9265.8	9037.5	8781.8	8626.6	8891.4	8431.8	7360.3	7141.1	6961.6	6988.9	6660.2
52.5°	9762.0	9378.5	9211.0	9256.7	9612.8	9436.3	8112.2	7844.3	7555.1	7594.7	7208.1
55°	9335.8	9332.8	9405.9	9688.9	10185.1	9981.2	8827.5	8526.1	8209.6	8218.7	7838.2
57.5°	8751.4	8870.1	9247.6	9871.6	10894.4	10553.4	9530.7	9211.0	8921.9	8876.2	8553.5
60°	8218.7	8349.6	8897.5	9841.1	11140.9	11077.0	10200.3	9920.3	9685.9	9552.0	9305.4
62.5°	7409.0	7506.4	8282.6	9646.3	10933.9	11454.4	10879.1	10687.4	10510.8	10233.8	10115.1
65°	6456.3	6489.7	7308.6	9004.1	10675.2	11600.6	11554.9	11469.7	11299.2	10891.3	10915.7
67.5°	5424.3	5491.3	6209.7	7978.2	10109.0	11533.6	12078.5	12148.5	11947.6	11335.7	11427.0
70°	4325.5	4407.7	4952.5	6559.7	9147.1	11244.4	12562.4	12675.1	12288.5	11481.8	11521.4
72.5°	2675.6	2754.8	3120.1	4556.8	7250.7	10273.4	12711.6	12857.7	12297.6	11287.0	10906.5
75°	925.4	934.5	1220.6	2185.6	4304.2	7756.0	12224.6	12568.5	11911.0	10577.8	9491.1
77.5°	423.1	438.3	541.8	901.0	1908.6	4185.5	10093.8	10955.2	10736.1	9469.8	7305.5
80°	292.2	298.3	374.4	538.8	1101.9	1473.3	6371.0	7494.2	7877.8	7332.9	4681.6
82.5°	219.2	225.3	289.2	365.3	794.5	715.3	2426.0	3482.3	4328.5	4249.4	1957.3
85°	210.0	207.0	225.3	243.5	529.7	426.2	785.3	1077.6	1689.4	1445.9	493.1
87.5°	91.3	100.5	231.3	137.0	277.0	197.9	340.9	398.8	514.4	447.5	176.6
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°	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1	2432.1
2.5°	2413.9	2420.0	2438.2	2465.6	2480.8	2511.3	2532.6	2544.8	2553.9	2556.9	2556.9
5°	2392.6	2404.7	2444.3	2490.0	2532.6	2596.5	2654.3	2687.8	2712.2	2721.3	2724.3
7.5°	2398.6	2429.1	2486.9	2553.9	2608.7	2690.9	2760.9	2827.8	2882.6	2903.9	2903.9
10°	2456.5	2499.1	2578.2	2666.5	2736.5	2821.8	2894.8	2952.6	3016.6	3053.1	3059.2
12.5°	2544.8	2596.5	2700.0	2797.4	2876.5	2943.5	3010.5	3053.1	3083.5	3110.9	3117.0
15°	2669.6	2733.5	2837.0	2937.4	3007.4	3050.1	3068.3	3068.3	3065.3	3068.3	3074.4
17.5°	2794.4	2855.2	2958.7	3059.2	3092.7	3068.3	3047.0	3040.9	3037.9	3031.8	3034.8
20°	2916.1	2974.0	3062.2	3138.3	3110.9	3025.7	2998.3	2995.3	2986.1	2980.0	2974.0
22.5°	3037.9	3080.5	3153.5	3180.9	3071.4	2949.6	2916.1	2897.9	2885.7	2870.5	2855.2
25°	3177.9	3190.1	3244.9	3202.3	2974.0	2809.6	2760.9	2733.5	2721.3	2706.1	2693.9
27.5°	3308.8	3308.8	3317.9	3168.8	2830.9	2623.9	2550.8	2502.1	2499.1	2496.1	2493.0
30°	3427.5	3412.3	3381.8	3068.3	2645.2	2395.6	2286.0	2237.3	2255.6	2270.8	2273.8
32.5°	3567.5	3537.1	3451.9	2931.3	2423.0	2139.9	2006.0	1984.7	2006.0	2024.2	2012.1
35°	3786.7	3731.9	3524.9	2773.1	2209.9	1905.5	1777.7	1747.2	1741.1	1738.1	1713.8
37.5°	4100.2	4005.9	3582.7	2602.6	1999.9	1698.5	1604.2	1540.2	1482.4	1421.5	1412.4
40°	4483.8	4322.4	3622.3	2407.8	1777.7	1525.0	1424.6	1342.4	1245.0	1138.4	1126.3
42.5°	4903.8	4663.4	3640.6	2191.7	1582.9	1382.0	1257.2	1153.7	1044.1	961.9	946.7
45°	5357.4	5031.7	3625.4	1984.7	1424.6	1260.2	1120.2	1007.6	919.3	861.4	849.3
47.5°	5798.8	5454.8	3582.7	1820.3	1302.8	1156.7	1013.6	910.1	843.2	779.3	764.0
50°	6364.9	5859.6	3531.0	1692.4	1168.9	1053.2	946.7	837.1	761.0	730.6	724.5
52.5°	6992.0	6264.5	3470.1	1531.1	1038.0	971.0	904.1	806.7	782.3	724.5	715.3
55°	7670.8	6745.4	3457.9	1327.2	922.3	913.2	861.4	834.0	840.1	724.5	709.2
57.5°	8386.1	7259.9	3485.3	1123.2	828.0	861.4	879.7	858.4	849.3	739.7	709.2
60°	9131.9	7756.0	3403.2	934.5	754.9	818.8	901.0	846.2	779.3	733.6	712.3
62.5°	9856.4	8173.0	3047.0	800.6	700.1	806.7	888.8	800.6	724.5	724.5	715.3
65°	10383.0	8358.7	2383.4	703.2	663.6	791.4	867.5	770.1	709.2	730.6	718.4
67.5°	10443.8	8167.0	1601.1	627.1	633.1	764.0	818.8	742.7	694.0	748.8	730.6
70°	10069.4	7667.8	980.2	569.2	593.6	715.3	776.2	715.3	672.7	733.6	706.2
72.5°	9098.4	6736.3	691.0	520.5	551.0	669.7	736.6	691.0	642.3	663.6	636.2
75°	7463.8	5220.4	547.9	474.9	508.3	627.1	703.2	654.5	605.7	596.6	578.4
77.5°	5287.4	3345.3	441.4	438.3	462.7	575.3	657.5	611.8	563.1	544.9	532.7
80°	3040.9	1640.7	380.5	395.7	420.1	523.6	602.7	563.1	517.5	490.1	471.8
82.5°	1162.8	572.3	334.8	344.0	371.4	468.8	547.9	514.4	468.8	493.1	414.0
85°	377.5	313.5	274.0	283.1	310.5	389.6	484.0	456.6	404.8	359.2	331.8
87.5°	167.4	170.5	146.1	161.3	194.8	258.7	353.1	334.8	295.3	246.6	237.4
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)