

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: P400032

Luminaire Tested: **ARCH-L-PA3-220-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-220-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22684 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

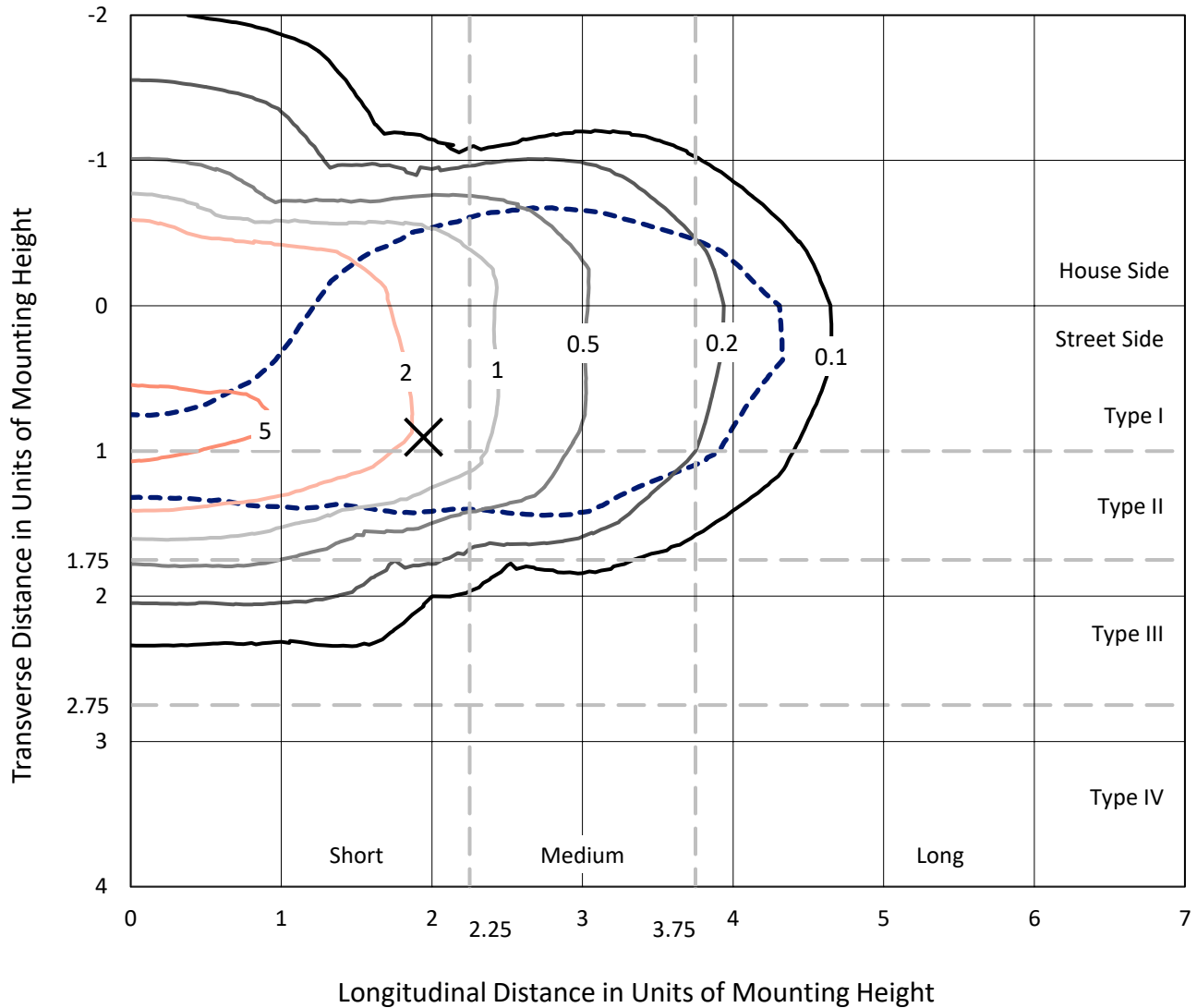
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400032
 CATALOG NUMBER: ARCH-L-PA3-220-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

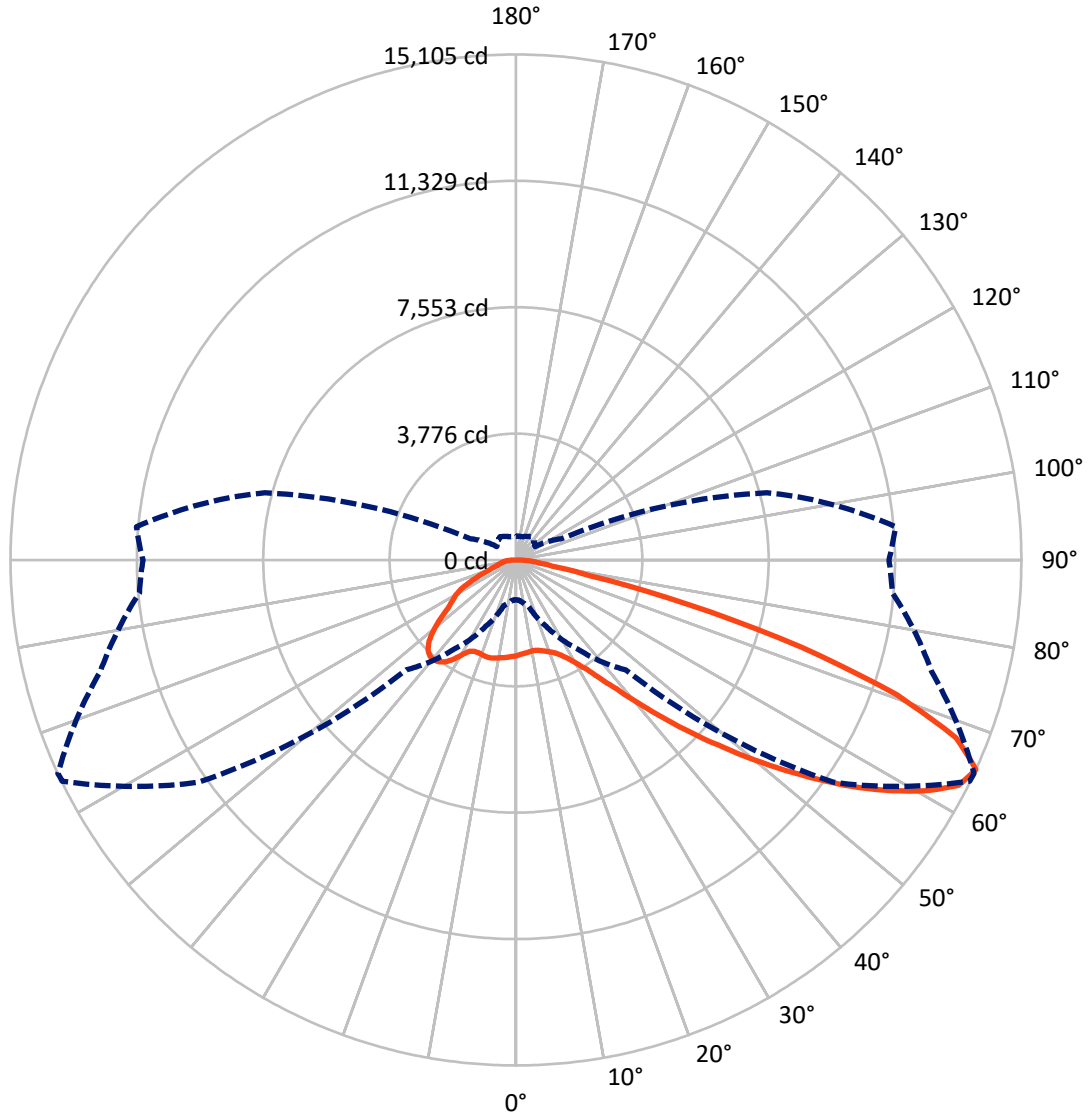
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P400032
CATALOG NUMBER: ARCH-L-PA3-220-827-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P400032
 CATALOG NUMBER: ARCH-L-PA3-220-827-U-T2U

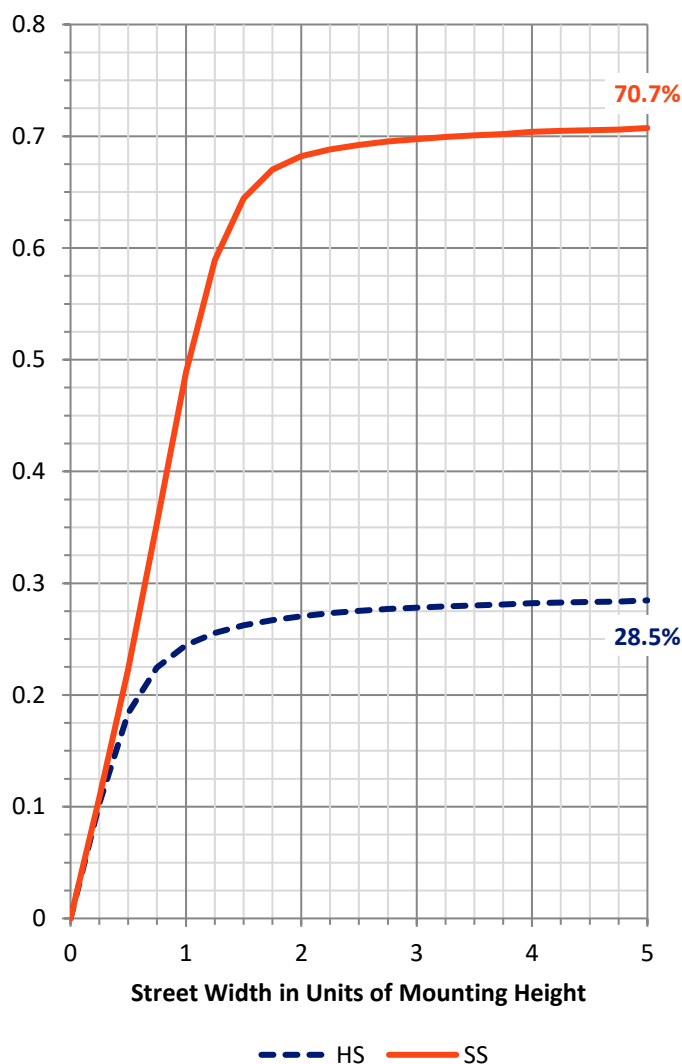
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6558.3	0.0	6558.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16125.7	0.0	16125.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	22684.0	0.0	22684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	1.2
10°-20°	815.3	3.6
20°-30°	1448.2	6.4
30°-40°	2450.0	10.8
40°-50°	4265.0	18.8
50°-60°	5511.8	24.3
60°-70°	4823.1	21.3
70°-80°	2623.4	11.6
80°-90°	474.0	2.1
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°	22684.0	100.0
0°-180°	22684.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400032

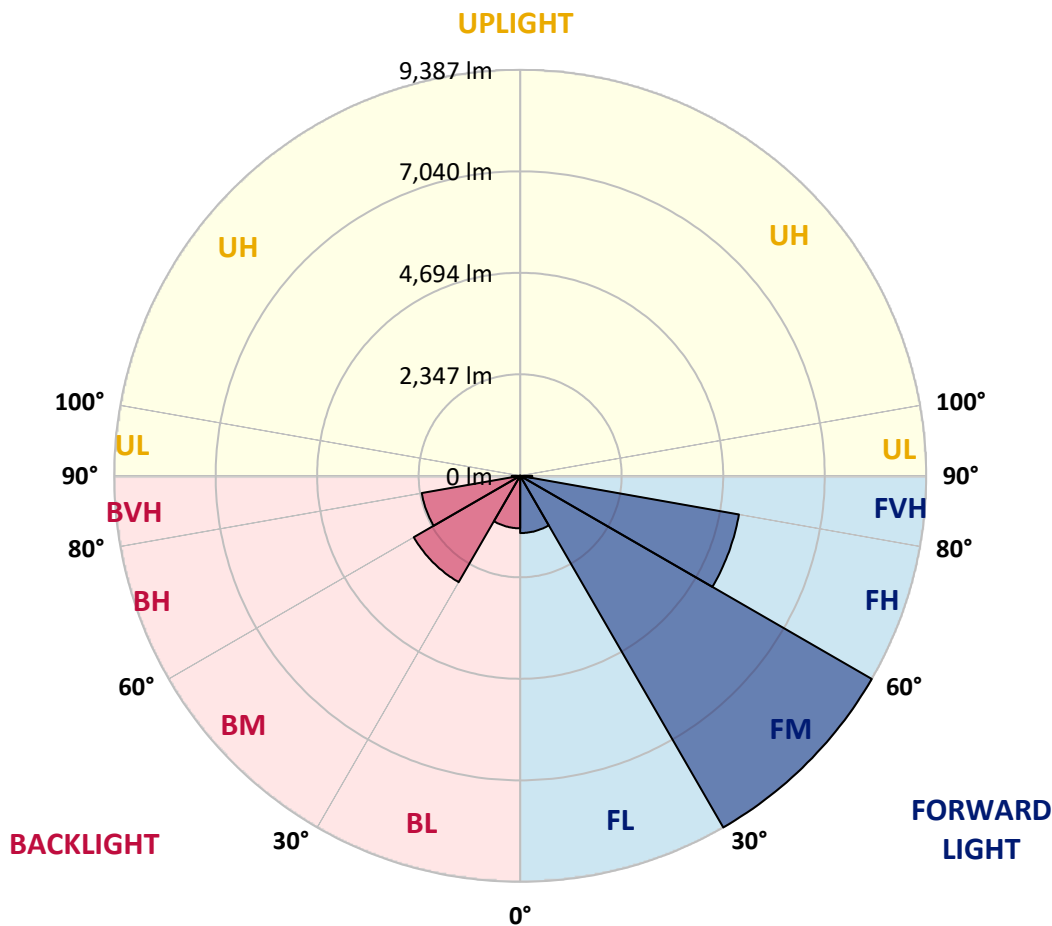
CATALOG NUMBER: ARCH-L-PA3-220-827-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.5	5.8			
FM (30°-60°)	9387.3	41.4			
FH (60°-80°)	5136.0	22.6			G3/7500
FVH (80°-90°)	278.9	1.2			G3/500
BL (0°-30°)	1213.1	5.3	B3/2500		
BM (30°-60°)	2839.6	12.5	B3/5000		
BH (60°-80°)	2310.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	195.1	0.9			G2/225
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 Short





REPORT NUMBER: P400032

CATALOG NUMBER: ARCH-L-PA3-220-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3
2.5°	2815.6	2812.6	2806.6	2812.6	2815.6	2821.6	2818.6	2824.5	2821.6	2830.5	2845.4
5°	2743.9	2738.0	2735.0	2749.9	2758.9	2773.8	2779.8	2800.7	2797.7	2812.6	2836.5
7.5°	2663.3	2663.3	2660.3	2678.2	2690.2	2717.1	2738.0	2773.8	2776.8	2803.6	2830.5
10°	2600.6	2603.6	2600.6	2615.5	2633.5	2666.3	2702.1	2752.9	2755.9	2794.7	2821.6
12.5°	2576.7	2576.7	2576.7	2597.6	2621.5	2666.3	2708.1	2761.8	2767.8	2809.6	2833.5
15°	2609.6	2612.6	2606.6	2627.5	2654.4	2708.1	2746.9	2803.6	2809.6	2848.4	2863.4
17.5°	2726.0	2738.0	2723.0	2735.0	2729.0	2770.8	2806.6	2863.4	2866.3	2899.2	2905.2
20°	2955.9	2967.9	2944.0	2929.0	2875.3	2872.3	2887.2	2932.0	2932.0	2952.9	2938.0
22.5°	3311.2	3323.2	3281.4	3224.6	3096.2	3033.5	3000.7	3021.6	3018.6	3027.6	2988.8
25°	3783.0	3780.0	3729.2	3624.7	3418.7	3266.4	3185.8	3153.0	3153.0	3135.1	3087.3
27.5°	4368.2	4323.4	4233.8	4108.4	3821.8	3609.8	3436.6	3353.0	3338.1	3284.4	3194.8
30°	4992.2	4959.4	4831.0	4648.8	4317.4	4045.7	3759.1	3591.9	3582.9	3466.5	3332.1
32.5°	5726.7	5673.0	5529.7	5311.7	4914.6	4532.4	4174.1	3920.3	3905.4	3720.3	3535.2
35°	6670.2	6625.4	6347.8	6129.8	5619.2	5117.6	4693.6	4356.2	4344.3	4117.4	3881.5
37.5°	7801.8	7685.4	7416.7	7007.6	6470.2	5876.0	5338.6	4914.6	4899.7	4648.8	4350.3
40°	8811.0	8706.5	8467.7	8091.4	7515.2	6855.3	6126.8	5613.3	5598.3	5293.8	4917.6
42.5°	9557.5	9485.8	9330.5	9112.6	8700.5	8300.4	7133.0	6458.2	6431.4	6037.2	5568.5
45°	9990.4	9933.7	9844.1	9897.8	9891.9	9817.2	8333.3	7464.4	7377.8	6867.3	6294.0
47.5°	9885.9	9835.1	9871.0	10289.0	10865.2	11298.2	9730.6	8494.5	8378.1	7712.3	7067.3
50°	9130.5	9151.4	9339.5	10139.7	11432.5	12393.9	11280.2	9667.9	9512.7	8563.2	7801.8
52.5°	7754.1	7804.8	8261.6	9381.3	11369.8	13104.6	12680.6	10880.2	10674.1	9393.2	8470.6
55°	6159.6	6288.0	6879.2	8055.6	10551.7	13155.3	13737.5	12098.4	11871.4	10172.5	9052.9
57.5°	4556.3	4747.4	5431.1	6512.0	8984.2	12352.1	14266.0	13262.8	12988.1	10945.8	9667.9
60°	2890.2	3006.7	3794.9	5069.8	6876.2	10387.5	14197.3	14254.1	14015.2	11716.2	10309.9
62.5°	1845.2	1901.9	2299.0	3615.8	4807.1	7691.4	13447.9	15003.5	14842.3	12417.8	10919.0
65°	1185.4	1209.2	1412.3	2224.4	3272.4	4642.9	11581.8	15084.1	15105.0	12856.7	11295.2
67.5°	964.4	976.3	1051.0	1373.5	2314.0	2564.8	8067.6	13937.6	14191.4	12743.3	11166.8
70°	877.8	892.7	970.4	1095.8	1791.5	1770.6	3905.4	11662.4	12077.5	12089.4	10596.5
72.5°	740.5	761.4	865.9	1036.1	1385.4	1397.3	1654.1	8306.4	8918.5	10805.5	9739.6
75°	618.1	630.0	719.6	913.6	1173.4	1116.7	1161.5	4404.0	5287.8	8664.7	8828.9
77.5°	501.6	513.6	579.2	728.5	1042.0	868.9	913.6	1824.3	2254.3	5882.0	7216.6
80°	358.3	370.2	444.9	567.3	788.2	782.3	677.8	1006.2	1092.8	3179.8	4687.7
82.5°	256.8	265.7	337.4	406.1	546.4	785.3	510.6	683.7	716.6	1409.3	1890.0
85°	173.2	173.2	232.9	268.7	352.3	495.6	412.0	462.8	483.7	668.8	510.6
87.5°	74.6	74.6	125.4	137.3	185.1	229.9	307.5	232.9	238.9	361.3	209.0
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: P400032

CATALOG NUMBER: ARCH-L-PA3-220-827-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3	2866.3
2.5°	2854.4	2857.4	2863.4	2881.3	2893.2	2911.1	2920.1	2932.0	2932.0	2926.1	2929.0
5°	2848.4	2857.4	2878.3	2911.1	2932.0	2964.9	2988.8	3006.7	3012.6	3006.7	3009.7
7.5°	2845.4	2860.4	2896.2	2944.0	2973.8	3015.6	3048.5	3069.4	3084.3	3078.3	3081.3
10°	2836.5	2860.4	2905.2	2964.9	3009.7	3051.5	3081.3	3090.3	3099.2	3093.3	3090.3
12.5°	2848.4	2875.3	2923.1	2994.7	3045.5	3078.3	3087.3	3072.4	3051.5	3039.5	3036.5
15°	2872.3	2899.2	2947.0	3021.6	3066.4	3078.3	3057.4	3009.7	2961.9	2935.0	2932.0
17.5°	2905.2	2923.1	2961.9	3027.6	3063.4	3048.5	3006.7	2949.9	2914.1	2893.2	2896.2
20°	2926.1	2926.1	2955.9	3006.7	3036.5	3024.6	2973.8	2911.1	2854.4	2827.5	2818.6
22.5°	2955.9	2941.0	2944.0	2988.8	3030.6	3012.6	2905.2	2794.7	2714.1	2684.2	2681.2
25°	3036.5	2994.7	2967.9	2994.7	3093.3	2947.0	2732.0	2603.6	2528.9	2502.1	2505.1
27.5°	3135.1	3078.3	3021.6	3066.4	3144.0	2797.7	2511.0	2364.7	2319.9	2299.0	2308.0
30°	3233.6	3158.9	3084.3	3245.5	3108.2	2564.8	2227.4	2084.1	2045.3	2030.3	2042.3
32.5°	3415.7	3293.3	3203.7	3484.4	2997.7	2299.0	1919.9	1788.5	1752.6	1734.7	1728.8
35°	3720.3	3565.0	3475.4	3693.4	2842.5	2003.5	1639.2	1546.6	1507.8	1469.0	1463.0
37.5°	4159.2	3971.1	3890.5	3812.8	2624.5	1710.8	1424.2	1361.5	1304.8	1245.1	1242.1
40°	4684.7	4439.8	4380.1	3866.6	2322.9	1436.2	1274.9	1215.2	1143.6	1086.8	1089.8
42.5°	5290.8	4977.3	4848.9	3851.6	1949.7	1289.9	1167.4	1101.8	1039.0	988.3	985.3
45°	5938.7	5583.4	5287.8	3747.1	1579.5	1188.3	1101.8	1024.1	961.4	904.7	898.7
47.5°	6655.3	6258.2	5693.9	3544.1	1304.8	1116.7	1062.9	952.5	895.7	859.9	859.9
50°	7377.8	6903.1	6067.1	3236.6	1143.6	1062.9	1006.2	913.6	868.9	839.0	839.0
52.5°	7995.9	7574.9	6374.6	2869.3	1042.0	1018.1	967.4	895.7	848.0	821.1	818.1
55°	8596.0	8198.9	6649.3	2505.1	958.4	958.4	958.4	880.8	827.1	803.2	800.2
57.5°	9193.2	8855.8	6936.0	2266.2	883.8	907.7	940.5	862.9	809.1	788.2	785.3
60°	9868.0	9644.0	7267.4	2099.0	818.1	853.9	916.6	842.0	779.3	761.4	758.4
62.5°	10584.6	10584.6	7568.9	1863.1	758.4	809.1	880.8	815.1	752.4	737.5	734.5
65°	11145.9	11387.7	7763.0	1510.8	698.7	764.4	839.0	779.3	716.6	713.6	707.6
67.5°	11211.6	11590.8	7640.6	1140.6	644.9	716.6	797.2	740.5	680.8	680.8	671.8
70°	10739.8	11125.0	7258.4	853.9	606.1	668.8	743.5	692.7	636.0	641.9	627.0
72.5°	9951.6	10047.1	6308.9	674.8	561.3	618.1	677.8	639.0	588.2	588.2	567.3
75°	8912.5	8381.1	4583.2	564.3	507.6	558.3	612.1	579.2	534.5	519.5	507.6
77.5°	7094.2	6073.1	2663.3	486.7	462.8	501.6	537.4	513.6	474.7	441.9	441.9
80°	4323.4	3559.0	1176.4	421.0	409.1	438.9	462.8	435.9	403.1	370.2	361.3
82.5°	1645.2	1373.5	570.3	361.3	358.3	376.2	394.1	367.3	343.4	328.4	283.6
85°	450.9	415.0	391.1	301.6	295.6	292.6	313.5	301.6	268.7	220.9	197.1
87.5°	170.2	194.1	212.0	185.1	197.1	182.1	209.0	191.1	170.2	110.5	98.5
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)