

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: P399492

Luminaire Tested: **ARCH-L-PA3-150-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399492
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-PA3-150-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21620 lumens
Efficiency: N/A
Efficacy: 141.3 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

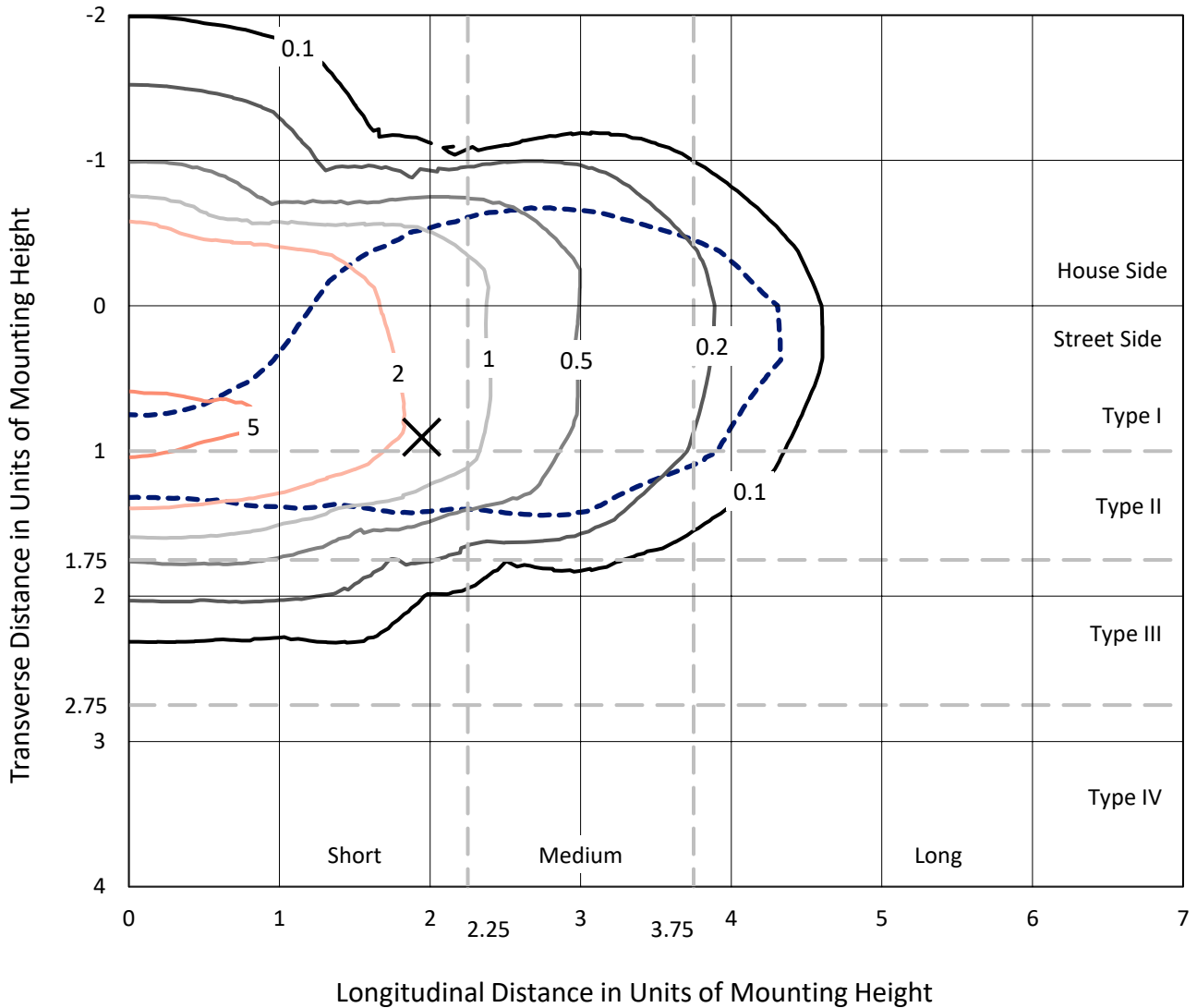
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399492
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

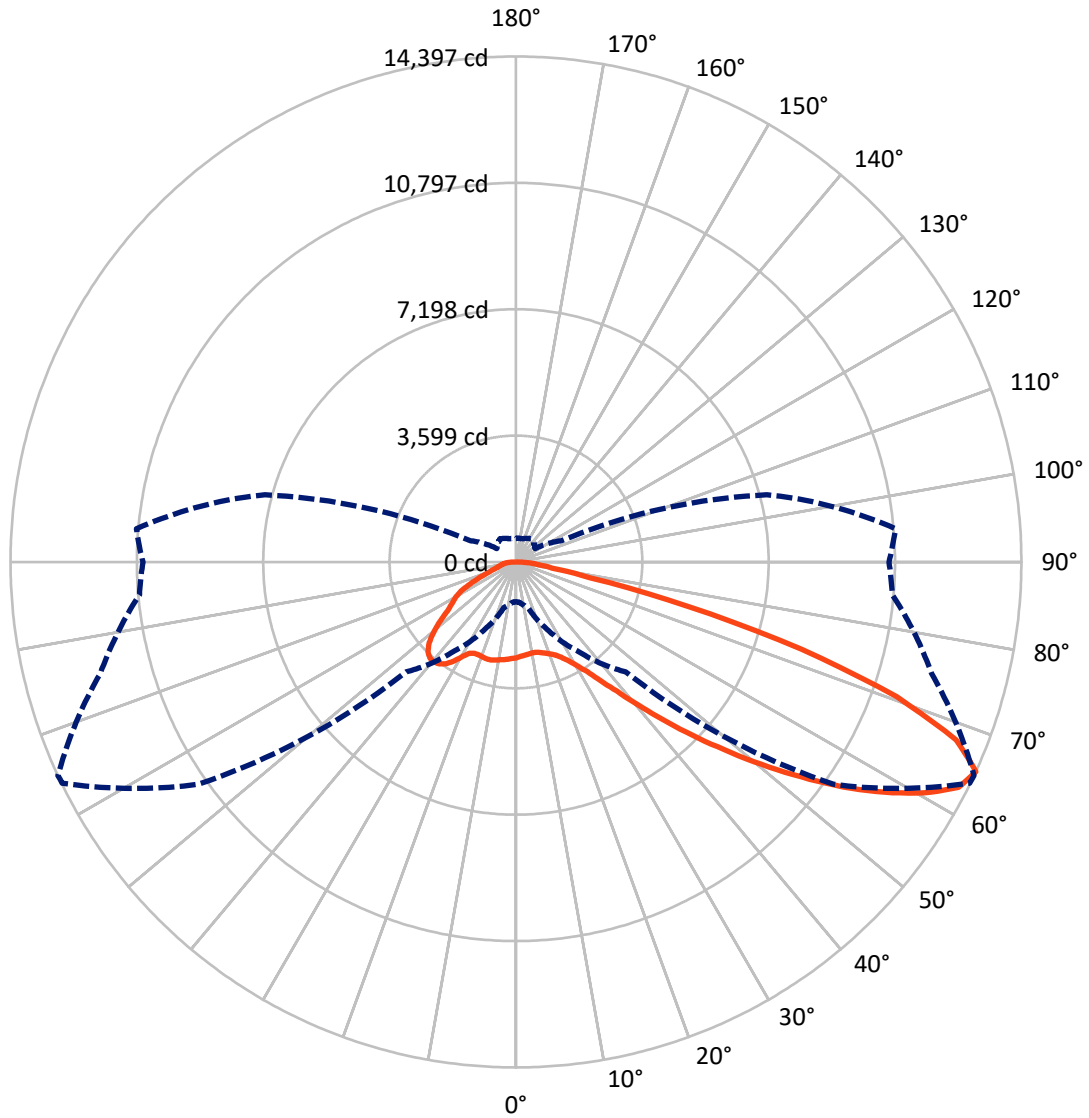
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P399492
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2U

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399492
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2U

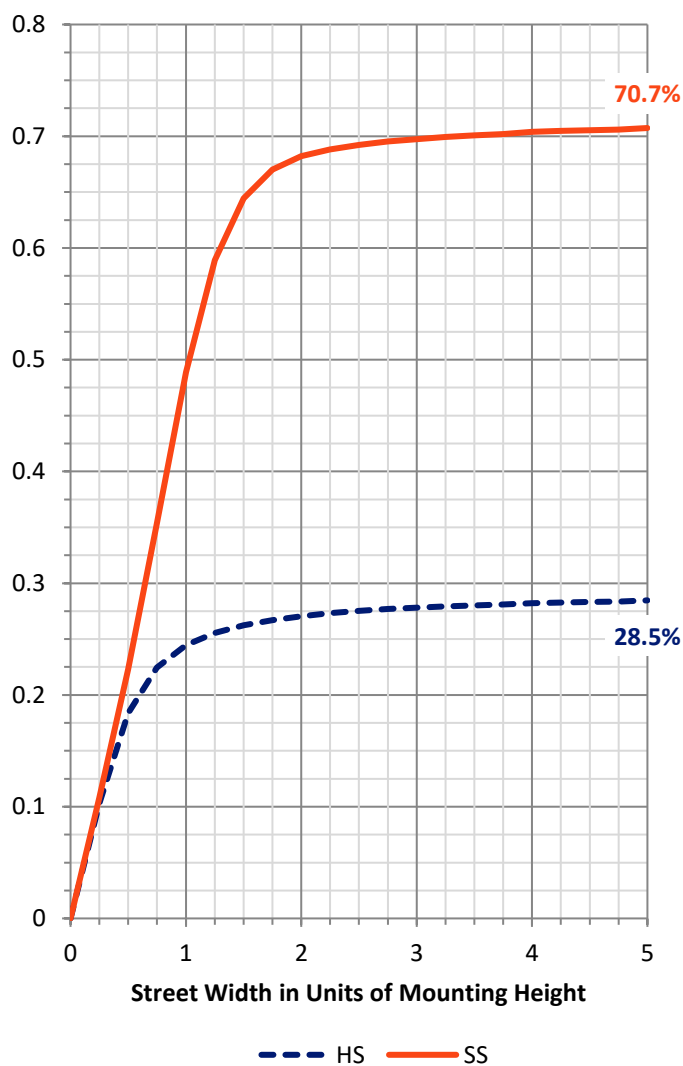
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6250.7	0.0	6250.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15369.3	0.0	15369.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	21620.0	0.0	21620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.2
10°-20°	777.1	3.6
20°-30°	1380.3	6.4
30°-40°	2335.1	10.8
40°-50°	4065.0	18.8
50°-60°	5253.2	24.3
60°-70°	4596.9	21.3
70°-80°	2500.4	11.6
80°-90°	451.8	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°	21620.0	100.0
0°-180°	21620.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399492

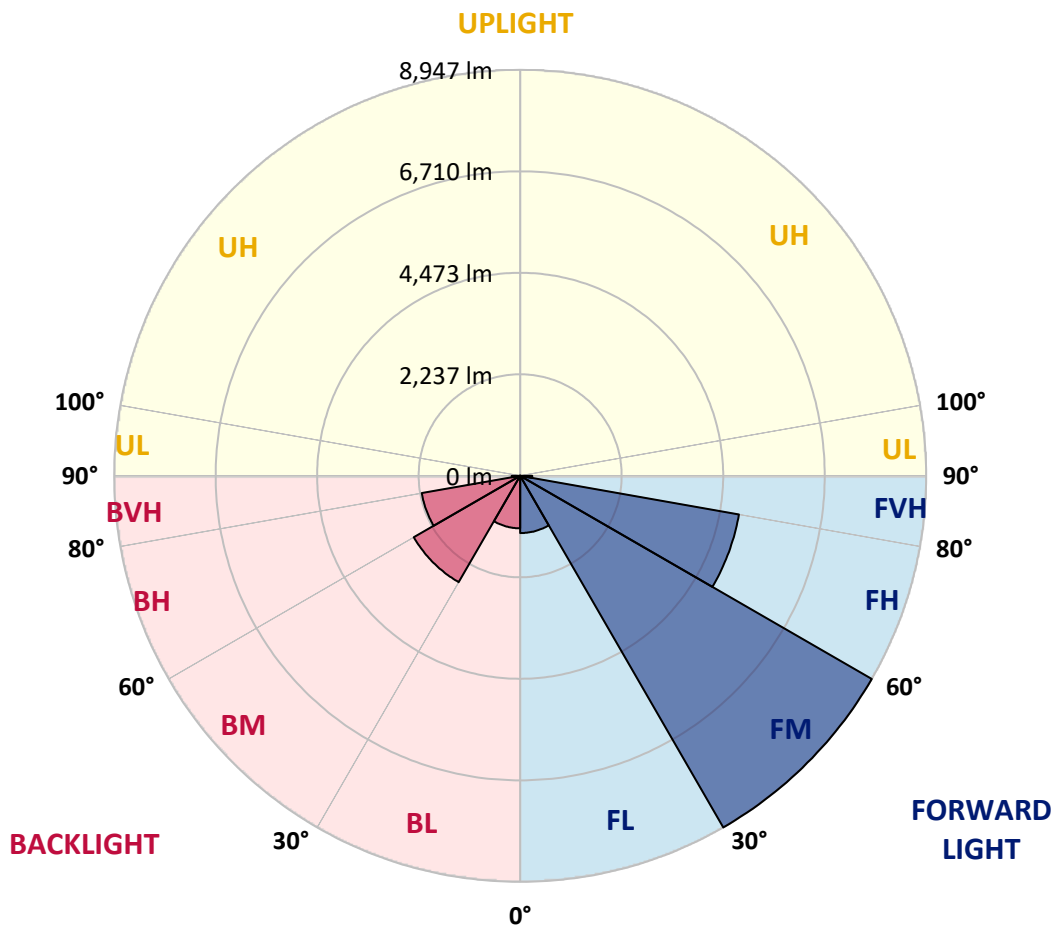
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.5	5.8			
FM (30°-60°)	8947.0	41.4			
FH (60°-80°)	4895.1	22.6			G2/5000
FVH (80°-90°)	265.8	1.2			G3/500
BL (0°-30°)	1156.2	5.3	B3/2500		
BM (30°-60°)	2706.4	12.5	B3/5000		
BH (60°-80°)	2202.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	185.9	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: P399492

CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9
2.5°	2683.5	2680.7	2675.0	2680.7	2683.5	2689.2	2686.4	2692.1	2689.2	2697.7	2712.0
5°	2615.2	2609.5	2606.7	2620.9	2629.4	2643.7	2649.4	2669.3	2666.4	2680.7	2703.4
7.5°	2538.4	2538.4	2535.5	2552.6	2564.0	2589.6	2609.5	2643.7	2646.5	2672.1	2697.7
10°	2478.6	2481.5	2478.6	2492.9	2509.9	2541.2	2575.4	2623.8	2626.6	2663.6	2689.2
12.5°	2455.9	2455.9	2455.9	2475.8	2498.5	2541.2	2581.1	2632.3	2638.0	2677.8	2700.6
15°	2487.2	2490.0	2484.3	2504.2	2529.8	2581.1	2618.1	2672.1	2677.8	2714.8	2729.0
17.5°	2598.1	2609.5	2595.3	2606.7	2601.0	2640.8	2675.0	2729.0	2731.9	2763.2	2768.9
20°	2817.3	2828.6	2805.9	2791.7	2740.4	2737.6	2751.8	2794.5	2794.5	2814.4	2800.2
22.5°	3155.9	3167.3	3127.5	3073.4	2951.0	2891.3	2860.0	2879.9	2877.0	2885.6	2848.6
25°	3605.5	3602.7	3554.3	3454.7	3258.4	3113.2	3036.4	3005.1	3005.1	2988.0	2942.5
27.5°	4163.3	4120.6	4035.2	3915.7	3642.5	3440.5	3275.4	3195.7	3181.5	3130.3	3044.9
30°	4758.1	4726.7	4604.4	4430.8	4114.9	3856.0	3582.8	3423.4	3414.9	3303.9	3175.8
32.5°	5458.1	5406.9	5270.3	5062.5	4684.1	4319.8	3978.3	3736.4	3722.2	3545.8	3369.3
35°	6357.3	6314.7	6050.0	5842.3	5355.7	4877.6	4473.5	4151.9	4140.5	3924.3	3699.4
37.5°	7435.9	7324.9	7068.8	6678.9	6166.7	5600.4	5088.2	4684.1	4669.8	4430.8	4146.2
40°	8397.7	8298.1	8070.5	7711.9	7162.7	6533.8	5839.4	5350.0	5335.7	5045.5	4686.9
42.5°	9109.2	9040.9	8892.9	8685.2	8292.4	7911.1	6798.4	6155.3	6129.7	5754.1	5307.3
45°	9521.8	9467.7	9382.4	9433.6	9427.9	9356.7	7942.4	7114.3	7031.8	6545.2	5998.8
47.5°	9422.2	9373.8	9408.0	9806.4	10355.6	10768.2	9274.2	8096.1	7985.1	7350.5	6735.8
50°	8702.2	8722.1	8901.4	9664.1	10896.3	11812.6	10751.1	9214.5	9066.5	8161.5	7435.9
52.5°	7390.3	7438.7	7874.1	8941.3	10836.5	12489.9	12085.8	10369.8	10173.5	8952.6	8073.3
55°	5870.7	5993.1	6556.5	7677.8	10056.8	12538.3	13093.2	11530.9	11314.6	9695.4	8628.2
57.5°	4342.6	4524.7	5176.4	6206.5	8562.8	11772.8	13596.9	12640.7	12378.9	10432.4	9214.5
60°	2754.7	2865.6	3616.9	4832.0	6553.7	9900.3	13531.4	13585.5	13357.8	11166.6	9826.3
62.5°	1758.7	1812.7	2191.2	3446.2	4581.6	7330.6	12817.1	14299.8	14146.1	11835.4	10406.8
65°	1129.8	1152.5	1346.0	2120.1	3118.9	4425.1	11038.6	14376.6	14396.5	12253.7	10765.4
67.5°	919.2	930.6	1001.7	1309.0	2205.4	2444.5	7689.1	13283.8	13525.7	12145.6	10643.0
70°	836.6	850.9	924.9	1044.4	1707.4	1687.5	3722.2	11115.4	11511.0	11522.3	10099.5
72.5°	705.7	725.7	825.3	987.5	1320.4	1331.8	1576.5	7916.8	8500.2	10298.7	9282.8
75°	589.1	600.4	685.8	870.8	1118.4	1064.3	1107.0	4197.4	5039.8	8258.3	8414.8
77.5°	478.1	489.5	552.1	694.4	993.2	828.1	870.8	1738.7	2148.5	5606.1	6878.1
80°	341.5	352.9	424.0	540.7	751.3	745.6	646.0	959.0	1041.5	3030.7	4467.8
82.5°	244.7	253.3	321.6	387.0	520.8	748.4	486.6	651.7	683.0	1343.2	1801.3
85°	165.1	165.1	222.0	256.1	335.8	472.4	392.7	441.1	461.0	637.4	486.6
87.5°	71.1	71.1	119.5	130.9	176.4	219.1	293.1	222.0	227.7	344.3	199.2
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: P399492

CATALOG NUMBER: ARCH-L-PA3-150-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9	2731.9
2.5°	2720.5	2723.4	2729.0	2746.1	2757.5	2774.6	2783.1	2794.5	2794.5	2788.8	2791.7
5°	2714.8	2723.4	2743.3	2774.6	2794.5	2825.8	2848.6	2865.6	2871.3	2865.6	2868.5
7.5°	2712.0	2726.2	2760.4	2805.9	2834.3	2874.2	2905.5	2925.4	2939.6	2933.9	2936.8
10°	2703.4	2726.2	2768.9	2825.8	2868.5	2908.3	2936.8	2945.3	2953.9	2948.2	2945.3
12.5°	2714.8	2740.4	2786.0	2854.3	2902.6	2933.9	2942.5	2928.3	2908.3	2896.9	2894.1
15°	2737.6	2763.2	2808.7	2879.9	2922.6	2933.9	2914.0	2868.5	2823.0	2797.3	2794.5
17.5°	2768.9	2786.0	2823.0	2885.6	2919.7	2905.5	2865.6	2811.6	2777.4	2757.5	2760.4
20°	2788.8	2788.8	2817.3	2865.6	2894.1	2882.7	2834.3	2774.6	2720.5	2694.9	2686.4
22.5°	2817.3	2803.0	2805.9	2848.6	2888.4	2871.3	2768.9	2663.6	2586.8	2558.3	2555.5
25°	2894.1	2854.3	2828.6	2854.3	2948.2	2808.7	2603.8	2481.5	2410.3	2384.7	2387.6
27.5°	2988.0	2933.9	2879.9	2922.6	2996.5	2666.4	2393.3	2253.8	2211.1	2191.2	2199.7
30°	3081.9	3010.8	2939.6	3093.3	2962.4	2444.5	2122.9	1986.3	1949.3	1935.1	1946.5
32.5°	3255.5	3138.8	3053.5	3321.0	2857.1	2191.2	1829.8	1704.6	1670.4	1653.4	1647.7
35°	3545.8	3397.8	3312.4	3520.2	2709.1	1909.5	1562.3	1474.1	1437.1	1400.1	1394.4
37.5°	3964.1	3784.8	3708.0	3634.0	2501.4	1630.6	1357.4	1297.7	1243.6	1186.7	1183.8
40°	4464.9	4231.6	4174.7	3685.2	2214.0	1368.8	1215.1	1158.2	1089.9	1035.8	1038.7
42.5°	5042.6	4743.8	4621.5	3671.0	1858.3	1229.4	1112.7	1050.1	990.3	941.9	939.1
45°	5660.1	5321.5	5039.8	3571.4	1505.4	1132.6	1050.1	976.1	916.3	862.3	856.6
47.5°	6343.1	5964.6	5426.8	3377.9	1243.6	1064.3	1013.1	907.8	853.7	819.6	819.6
50°	7031.8	6579.3	5782.5	3084.8	1089.9	1013.1	959.0	870.8	828.1	799.6	799.6
52.5°	7620.8	7219.6	6075.6	2734.7	993.2	970.4	922.0	853.7	808.2	782.6	779.7
55°	8192.8	7814.4	6337.4	2387.6	913.5	913.5	913.5	839.5	788.3	765.5	762.7
57.5°	8762.0	8440.4	6610.6	2159.9	842.3	865.1	896.4	822.4	771.2	751.3	748.4
60°	9405.1	9191.7	6926.5	2000.5	779.7	813.9	873.6	802.5	742.7	725.7	722.8
62.5°	10088.1	10088.1	7213.9	1775.7	722.8	771.2	839.5	776.9	717.1	702.9	700.0
65°	10623.1	10853.6	7398.9	1439.9	665.9	728.5	799.6	742.7	683.0	680.1	674.4
67.5°	10685.7	11047.1	7282.2	1087.1	614.7	683.0	759.8	705.7	648.8	648.8	640.3
70°	10236.1	10603.2	6918.0	813.9	577.7	637.4	708.6	660.2	606.1	611.8	597.6
72.5°	9484.8	9575.9	6013.0	643.1	535.0	589.1	646.0	609.0	560.6	560.6	540.7
75°	8494.5	7987.9	4368.2	537.8	483.8	532.2	583.4	552.1	509.4	495.2	483.8
77.5°	6761.4	5788.2	2538.4	463.9	441.1	478.1	512.2	489.5	452.5	421.2	421.2
80°	4120.6	3392.1	1121.2	401.2	389.9	418.3	441.1	415.5	384.2	352.9	344.3
82.5°	1568.0	1309.0	543.5	344.3	341.5	358.6	375.6	350.0	327.3	313.0	270.3
85°	429.7	395.6	372.8	287.4	281.7	278.9	298.8	287.4	256.1	210.6	187.8
87.5°	162.2	185.0	202.0	176.4	187.8	173.6	199.2	182.1	162.2	105.3	93.9
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)