

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: P399627

Luminaire Tested: **ARCH-L-PA3-170-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399627
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-PA3-170-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21777 lumens
Efficiency: N/A
Efficacy: 125.9 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

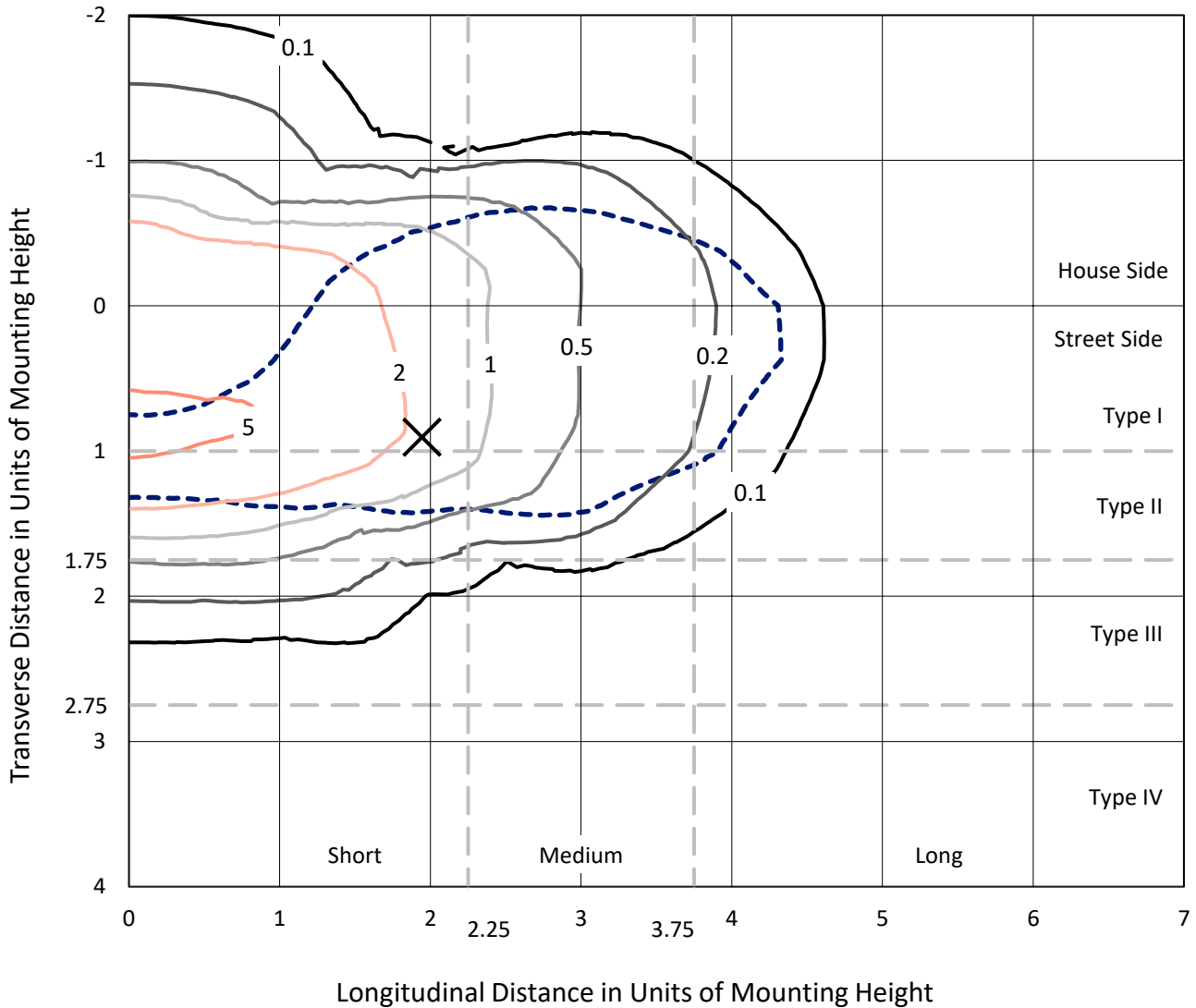
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

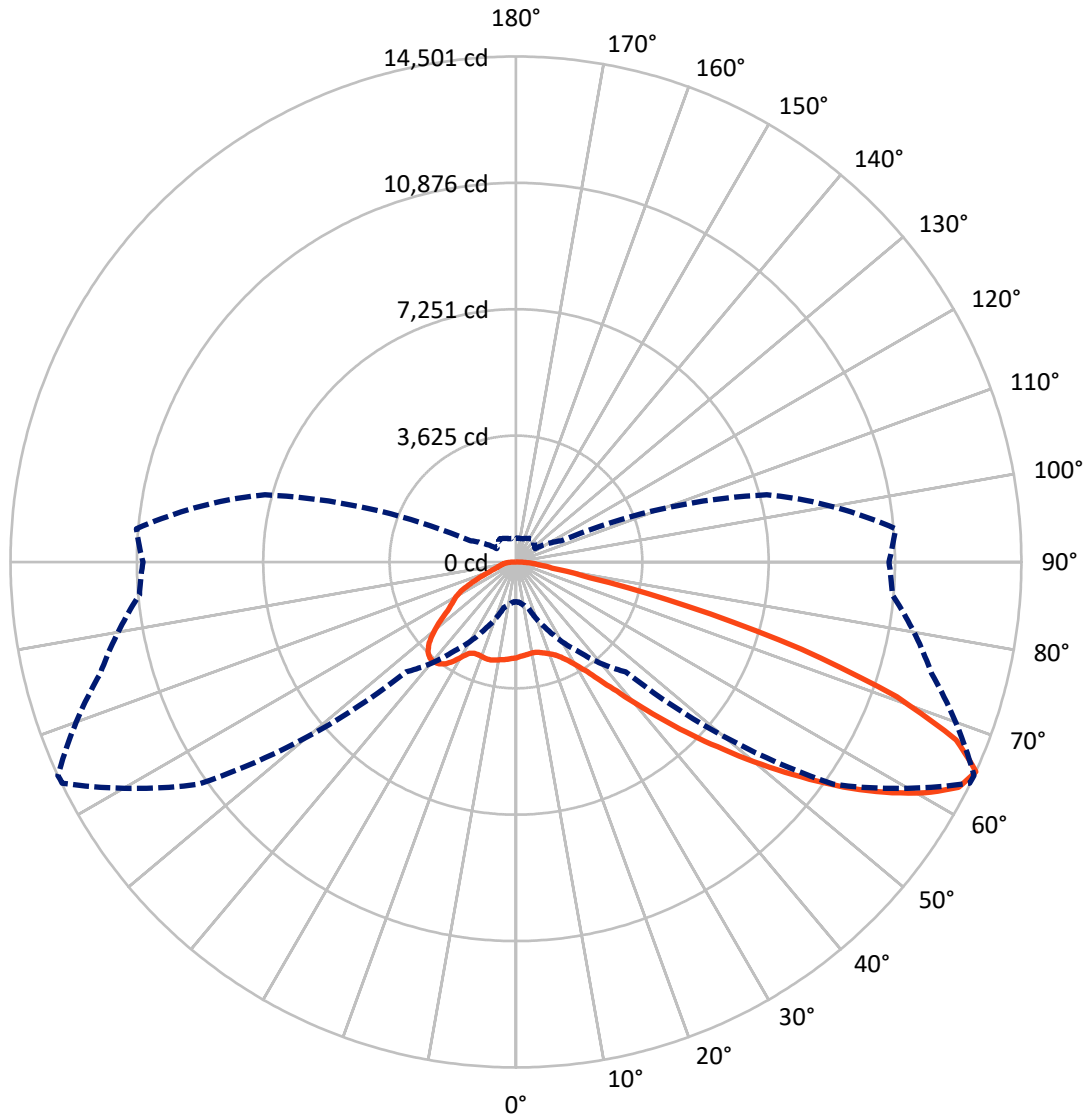
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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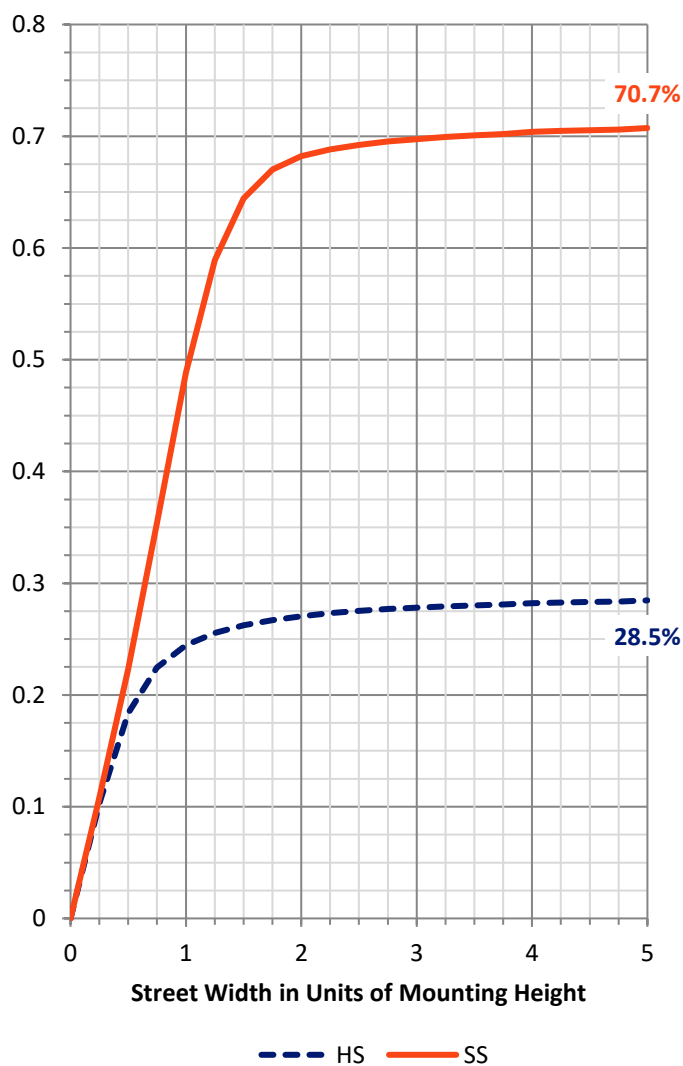
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6296.1	0.0	6296.1
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15481.0	0.0	15481.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	21777.0	0.0	21777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.2
10°-20°	782.7	3.6
20°-30°	1390.3	6.4
30°-40°	2352.1	10.8
40°-50°	4094.5	18.8
50°-60°	5291.4	24.3
60°-70°	4630.3	21.3
70°-80°	2518.5	11.6
80°-90°	455.1	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°	21777.0	100.0
0°-180°	21777.0	100.0

Coefficient of Utilization



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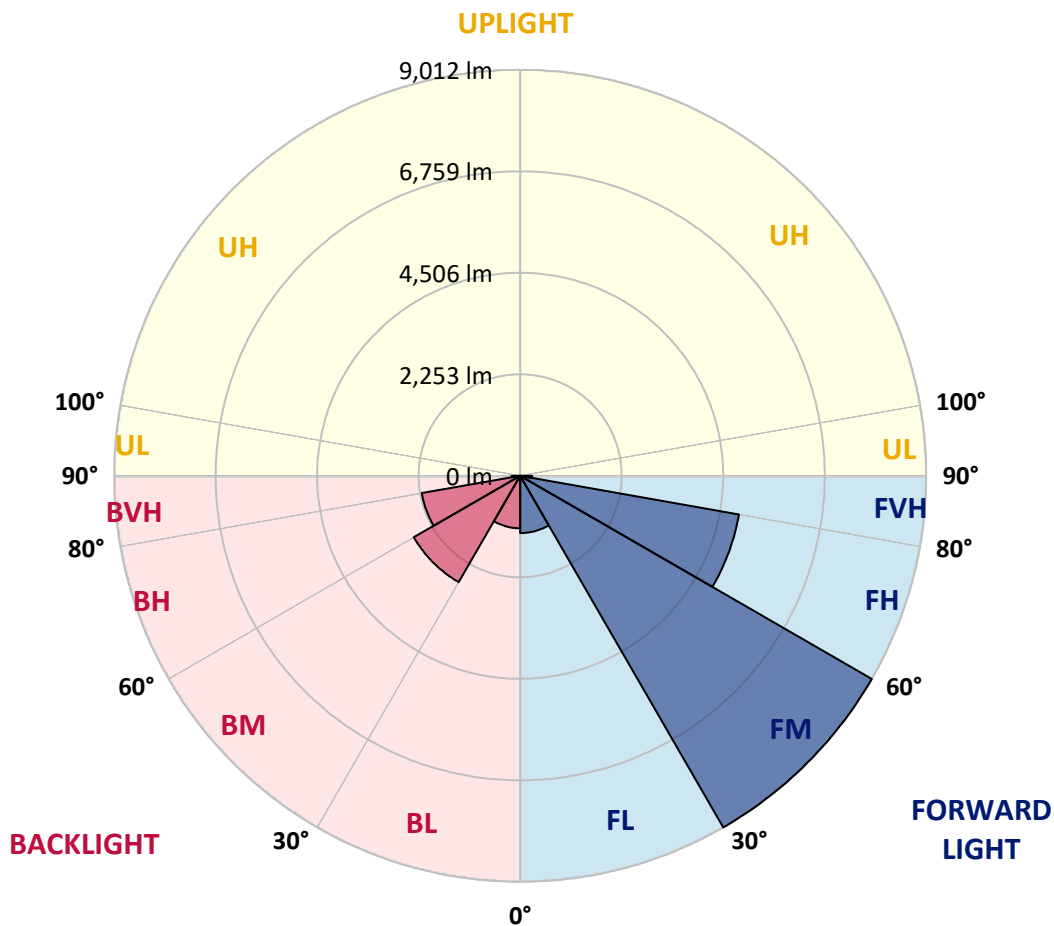
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.6	5.8			
FM (30°-60°)	9011.9	41.4			
FH (60°-80°)	4930.6	22.6			G2/5000
FVH (80°-90°)	267.8	1.2			G3/500
BL (0°-30°)	1164.5	5.3	B3/2500		
BM (30°-60°)	2726.0	12.5	B3/5000		
BH (60°-80°)	2218.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	187.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7
2.5°	2703.0	2700.1	2694.4	2700.1	2703.0	2708.7	2705.9	2711.6	2708.7	2717.3	2731.7
5°	2634.2	2628.5	2625.6	2639.9	2648.5	2662.9	2668.6	2688.7	2685.8	2700.1	2723.1
7.5°	2556.8	2556.8	2554.0	2571.2	2582.6	2608.4	2628.5	2662.9	2665.7	2691.5	2717.3
10°	2496.6	2499.5	2496.6	2511.0	2528.2	2559.7	2594.1	2642.8	2645.7	2682.9	2708.7
12.5°	2473.7	2473.7	2473.7	2493.8	2516.7	2559.7	2599.8	2651.4	2657.1	2697.3	2720.2
15°	2505.2	2508.1	2502.4	2522.4	2548.2	2599.8	2637.1	2691.5	2697.3	2734.5	2748.9
17.5°	2617.0	2628.5	2614.1	2625.6	2619.9	2660.0	2694.4	2748.9	2751.7	2783.3	2789.0
20°	2837.7	2849.2	2826.3	2811.9	2760.3	2757.5	2771.8	2814.8	2814.8	2834.9	2820.5
22.5°	3178.8	3190.3	3150.2	3095.7	2972.4	2912.3	2880.7	2900.8	2897.9	2906.5	2869.3
25°	3631.7	3628.8	3580.1	3479.8	3282.0	3135.8	3058.4	3026.9	3026.9	3009.7	2963.8
27.5°	4193.5	4150.5	4064.5	3944.2	3669.0	3465.5	3299.2	3219.0	3204.6	3153.0	3067.0
30°	4792.6	4761.1	4637.8	4463.0	4144.8	3884.0	3608.8	3448.3	3439.7	3327.9	3198.9
32.5°	5497.7	5446.1	5308.6	5099.3	4718.1	4351.2	4007.2	3763.6	3749.2	3571.5	3393.8
35°	6403.5	6360.5	6093.9	5884.7	5394.5	4913.0	4506.0	4182.1	4170.6	3952.8	3726.3
37.5°	7489.9	7378.1	7120.1	6727.4	6211.5	5641.1	5125.1	4718.1	4703.7	4463.0	4176.3
40°	8458.7	8358.4	8129.1	7767.9	7214.7	6581.2	5881.8	5388.8	5374.5	5082.1	4720.9
42.5°	9175.3	9106.5	8957.5	8748.2	8352.7	7968.6	6847.8	6200.0	6174.2	5795.8	5345.8
45°	9590.9	9536.5	9450.5	9502.1	9496.3	9424.7	8000.1	7166.0	7082.8	6592.7	6042.3
47.5°	9490.6	9441.9	9476.3	9877.6	10430.8	10846.4	9341.6	8154.9	8043.1	7403.9	6784.7
50°	8765.4	8785.5	8966.1	9734.3	10975.4	11898.4	10829.2	9281.4	9132.3	8220.8	7489.9
52.5°	7444.0	7492.7	7931.3	9006.2	10915.2	12580.6	12173.6	10445.1	10247.3	9017.7	8131.9
55°	5913.4	6036.6	6604.2	7733.5	10129.8	12629.3	13188.3	11614.6	11396.8	9765.8	8690.9
57.5°	4374.1	4557.6	5214.0	6251.6	8625.0	11858.3	13695.6	12732.5	12468.8	10508.2	9281.4
60°	2774.7	2886.5	3643.2	4867.1	6601.3	9972.2	13629.7	13684.1	13454.8	11247.7	9897.6
62.5°	1771.4	1825.9	2207.1	3471.2	4614.9	7383.8	12910.2	14403.6	14248.8	11921.3	10482.4
65°	1138.0	1160.9	1355.8	2135.5	3141.6	4457.2	11118.7	14481.0	14501.1	12342.7	10843.6
67.5°	925.8	937.3	1009.0	1318.5	2221.5	2462.2	7745.0	13380.3	13623.9	12233.7	10720.3
70°	842.7	857.1	931.6	1052.0	1719.8	1699.8	3749.2	11196.1	11594.5	11606.0	10172.8
72.5°	710.9	730.9	831.3	994.6	1330.0	1341.5	1588.0	7974.3	8561.9	10373.5	9350.2
75°	593.3	604.8	690.8	877.1	1126.5	1072.0	1115.0	4227.9	5076.4	8318.3	8475.9
77.5°	481.6	493.0	556.1	699.4	1000.4	834.1	877.1	1751.4	2164.1	5646.8	6928.1
80°	344.0	355.4	427.1	544.6	756.7	751.0	650.7	966.0	1049.1	3052.7	4500.2
82.5°	246.5	255.1	323.9	389.8	524.5	753.9	490.2	656.4	687.9	1352.9	1814.4
85°	166.3	166.3	223.6	258.0	338.2	475.8	395.6	444.3	464.4	642.1	490.2
87.5°	71.7	71.7	120.4	131.9	177.7	220.7	295.2	223.6	229.3	346.8	200.6
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°	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7	2751.7
2.5°	2740.3	2743.1	2748.9	2766.1	2777.5	2794.7	2803.3	2814.8	2814.8	2809.1	2811.9
5°	2734.5	2743.1	2763.2	2794.7	2814.8	2846.3	2869.3	2886.5	2892.2	2886.5	2889.3
7.5°	2731.7	2746.0	2780.4	2826.3	2854.9	2895.1	2926.6	2946.6	2961.0	2955.2	2958.1
10°	2723.1	2746.0	2789.0	2846.3	2889.3	2929.4	2958.1	2966.7	2975.3	2969.6	2966.7
12.5°	2734.5	2760.3	2806.2	2875.0	2923.7	2955.2	2963.8	2949.5	2929.4	2918.0	2915.1
15°	2757.5	2783.3	2829.1	2900.8	2943.8	2955.2	2935.2	2889.3	2843.5	2817.7	2814.8
17.5°	2789.0	2806.2	2843.5	2906.5	2940.9	2926.6	2886.5	2832.0	2797.6	2777.5	2780.4
20°	2809.1	2809.1	2837.7	2886.5	2915.1	2903.7	2854.9	2794.7	2740.3	2714.5	2705.9
22.5°	2837.7	2823.4	2826.3	2869.3	2909.4	2892.2	2789.0	2682.9	2605.5	2576.9	2574.0
25°	2915.1	2875.0	2849.2	2875.0	2969.6	2829.1	2622.7	2499.5	2427.8	2402.0	2404.9
27.5°	3009.7	2955.2	2900.8	2943.8	3018.3	2685.8	2410.6	2270.2	2227.2	2207.1	2215.7
30°	3104.3	3032.6	2961.0	3115.8	2983.9	2462.2	2138.3	2000.7	1963.5	1949.1	1960.6
32.5°	3279.1	3161.6	3075.6	3345.1	2877.9	2207.1	1843.1	1717.0	1682.6	1665.4	1659.6
35°	3571.5	3422.5	3336.5	3545.7	2728.8	1923.3	1573.6	1484.8	1447.5	1410.3	1404.5
37.5°	3992.9	3812.3	3734.9	3660.4	2519.6	1642.4	1367.3	1307.1	1252.6	1195.3	1192.4
40°	4497.4	4262.3	4205.0	3712.0	2230.1	1378.7	1223.9	1166.6	1097.8	1043.4	1046.2
42.5°	5079.2	4778.3	4655.0	3697.6	1871.8	1238.3	1120.8	1057.7	997.5	948.8	945.9
45°	5701.2	5360.1	5076.4	3597.3	1516.3	1140.8	1057.7	983.2	923.0	868.5	862.8
47.5°	6389.2	6008.0	5466.2	3402.4	1252.6	1072.0	1020.4	914.4	859.9	825.5	825.5
50°	7082.8	6627.1	5824.5	3107.2	1097.8	1020.4	966.0	877.1	834.1	805.5	805.5
52.5°	7676.2	7272.0	6119.7	2754.6	1000.4	977.4	928.7	859.9	814.1	788.3	785.4
55°	8252.3	7871.1	6383.4	2404.9	920.1	920.1	920.1	845.6	794.0	771.1	768.2
57.5°	8825.6	8501.7	6658.6	2175.6	848.5	871.4	902.9	828.4	776.8	756.7	753.9
60°	9473.4	9258.4	6976.8	2015.1	785.4	819.8	880.0	808.3	748.1	730.9	728.1
62.5°	10161.4	10161.4	7266.3	1788.6	728.1	776.8	845.6	782.5	722.3	708.0	705.1
65°	10700.2	10932.4	7452.6	1450.4	670.7	733.8	805.5	748.1	687.9	685.1	679.3
67.5°	10763.3	11127.3	7335.1	1095.0	619.1	687.9	765.3	710.9	653.5	653.5	644.9
70°	10310.4	10680.2	6968.2	819.8	581.9	642.1	713.7	665.0	610.5	616.3	601.9
72.5°	9553.7	9645.4	6056.7	647.8	538.9	593.3	650.7	613.4	564.7	564.7	544.6
75°	8556.2	8046.0	4399.9	541.7	487.3	536.0	587.6	556.1	513.1	498.8	487.3
77.5°	6810.5	5830.2	2556.8	467.2	444.3	481.6	516.0	493.0	455.8	424.2	424.2
80°	4150.5	3416.7	1129.4	404.2	392.7	421.4	444.3	418.5	387.0	355.4	346.8
82.5°	1579.4	1318.5	547.5	346.8	344.0	361.2	378.4	352.6	329.6	315.3	272.3
85°	432.8	398.4	375.5	289.5	283.8	280.9	301.0	289.5	258.0	212.1	189.2
87.5°	163.4	186.3	203.5	177.7	189.2	174.8	200.6	183.4	163.4	106.1	94.6
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)