

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: P399699

Luminaire Tested: **ARCH-L-PA3-180-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399699
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-PA3-180-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22297 lumens
Efficiency: N/A
Efficacy: 123.2 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

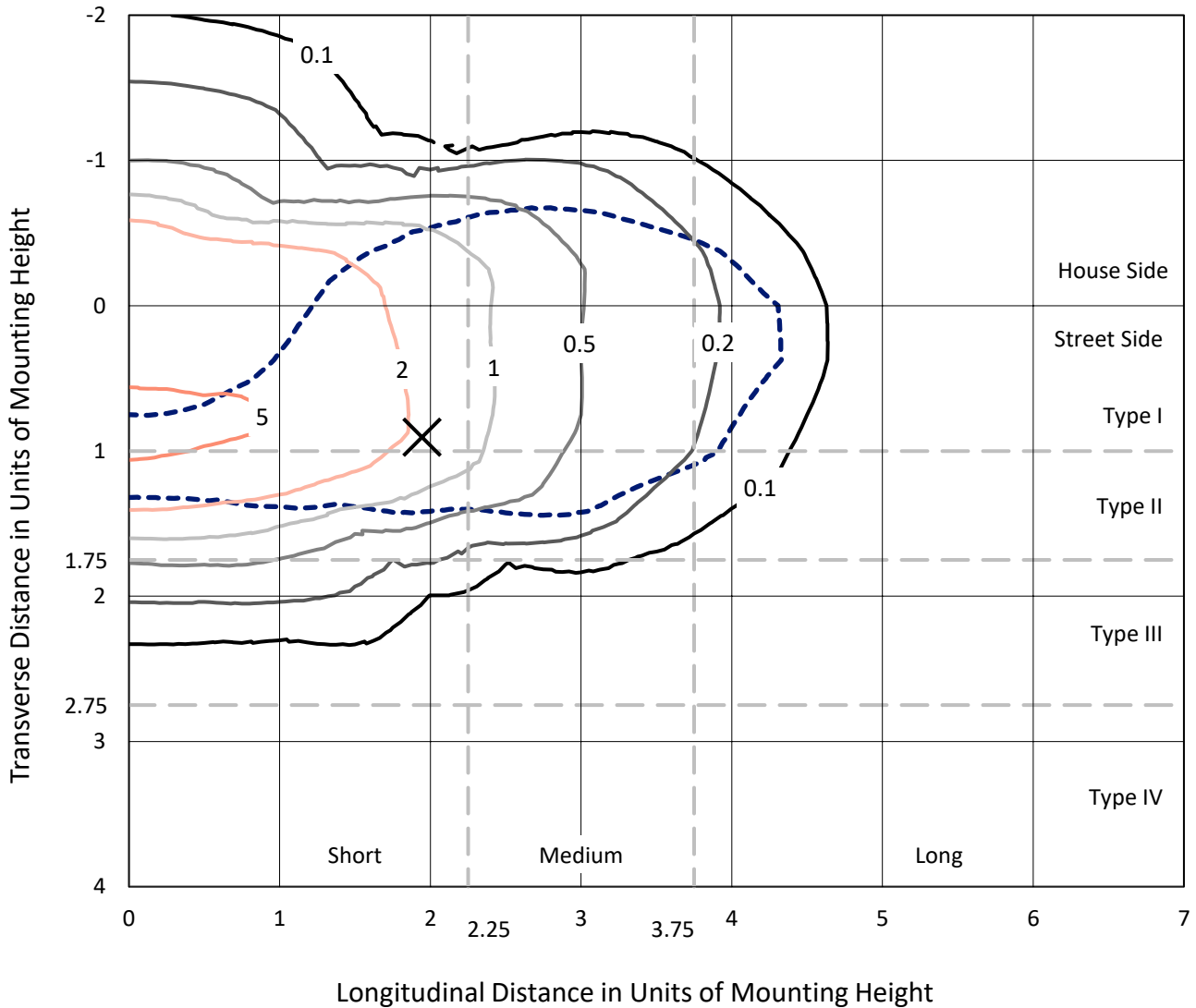
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: ARCH-L-PA3-180-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

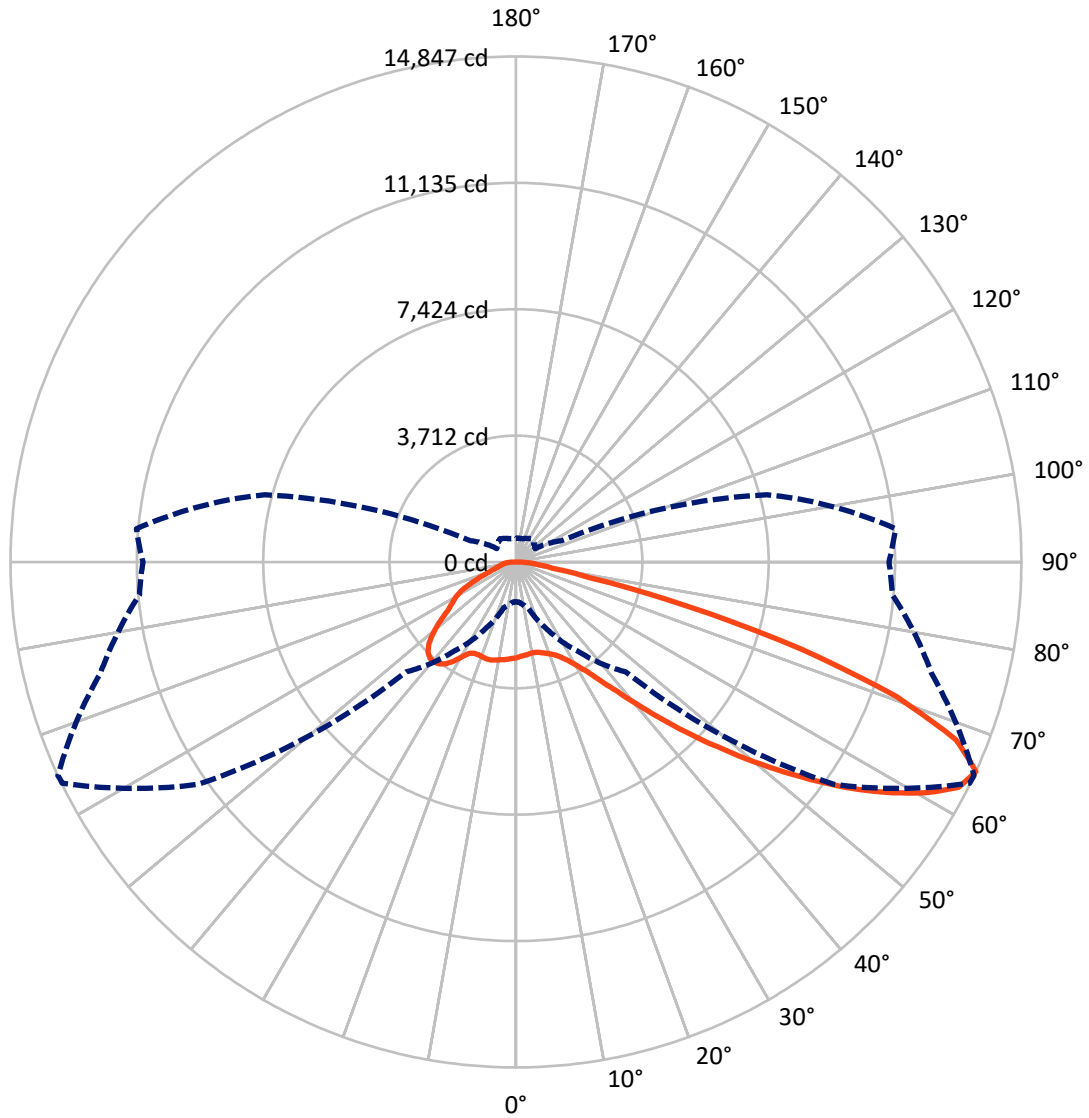
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P399699
CATALOG NUMBER: ARCH-L-PA3-180-727-U-T2U

Luminous Intensity Polar Plot



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

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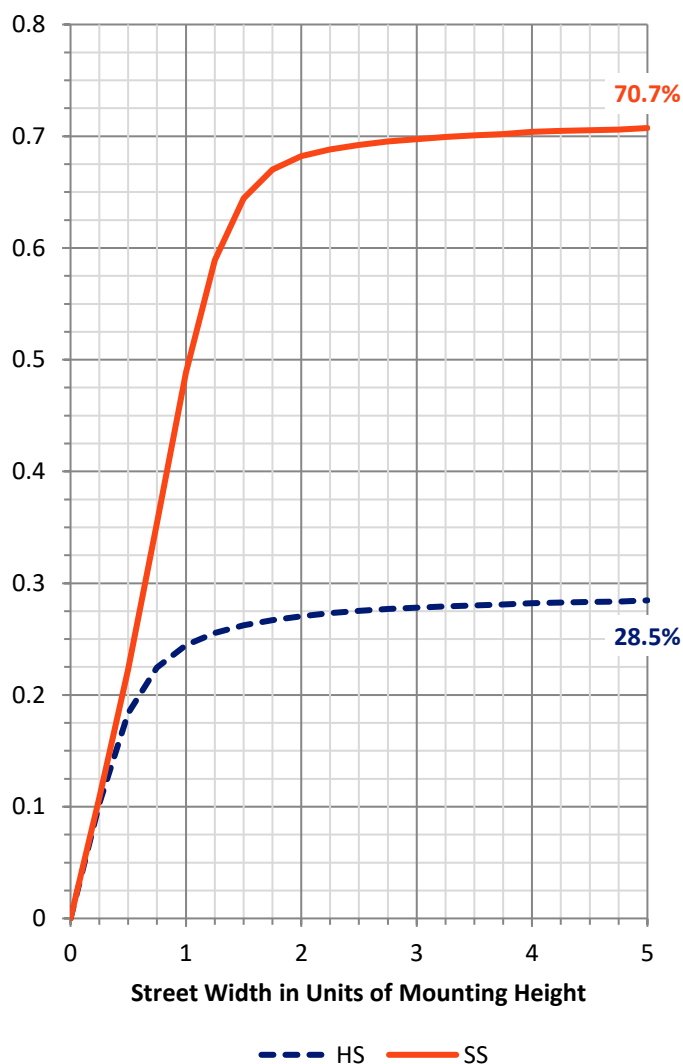
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6446.4	0.0	6446.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15850.6	0.0	15850.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	22297.0	0.0	22297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	1.2
10°-20°	801.4	3.6
20°-30°	1423.5	6.4
30°-40°	2408.2	10.8
40°-50°	4192.3	18.8
50°-60°	5417.7	24.3
60°-70°	4740.8	21.3
70°-80°	2578.7	11.6
80°-90°	465.9	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°	22297.0	100.0
0°-180°	22297.0	100.0

Coefficient of Utilization



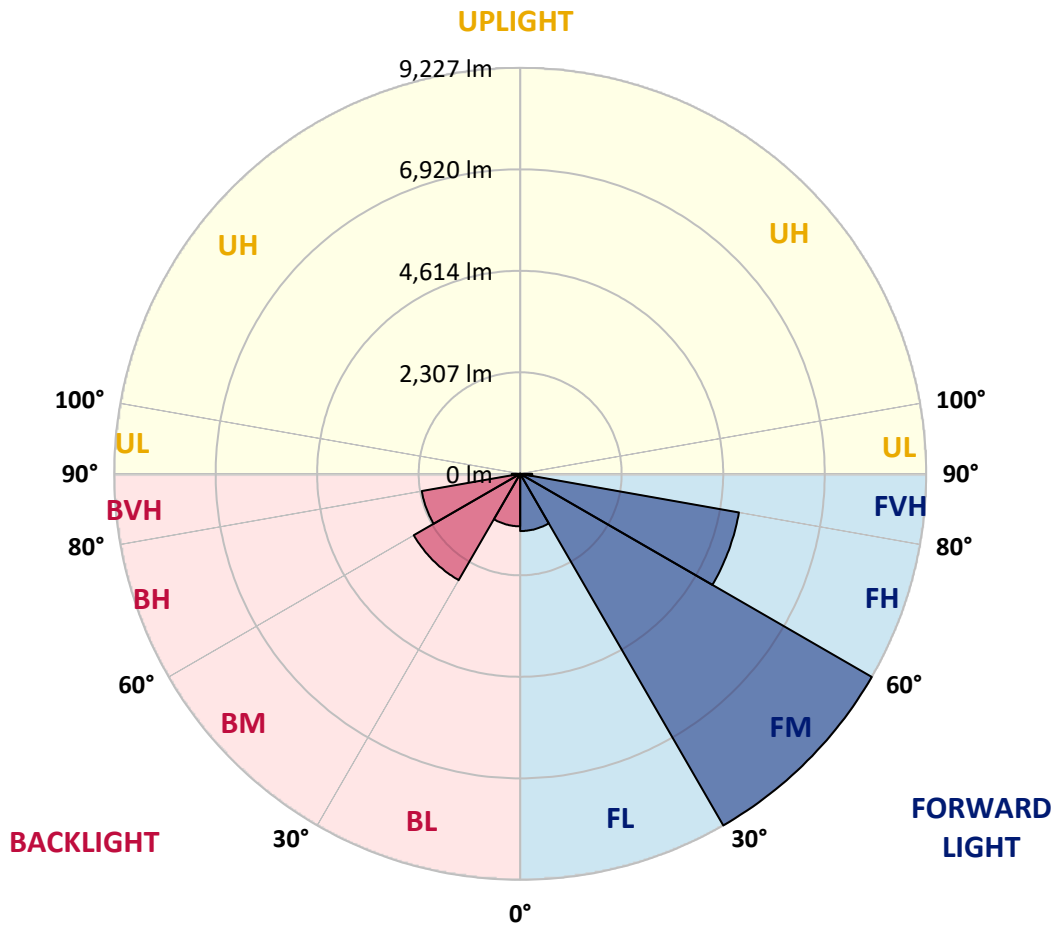
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 CATALOG NUMBER: ARCH-L-PA3-180-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.0	5.8			
FM (30°-60°)	9227.1	41.4			
FH (60°-80°)	5048.4	22.6			G3/7500
FVH (80°-90°)	274.2	1.2			G3/500
BL (0°-30°)	1192.4	5.3	B3/2500		
BM (30°-60°)	2791.1	12.5	B3/5000		
BH (60°-80°)	2271.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	191.7	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: P399699

CATALOG NUMBER: ARCH-L-PA3-180-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4
2.5°	2767.5	2764.6	2758.7	2764.6	2767.5	2773.4	2770.5	2776.4	2773.4	2782.2	2796.9
5°	2697.1	2691.2	2688.3	2703.0	2711.8	2726.5	2732.3	2752.9	2749.9	2764.6	2788.1
7.5°	2617.9	2617.9	2614.9	2632.5	2644.3	2670.7	2691.2	2726.5	2729.4	2755.8	2782.2
10°	2556.2	2559.2	2556.2	2570.9	2588.5	2620.8	2656.0	2705.9	2708.9	2747.0	2773.4
12.5°	2532.8	2532.8	2532.8	2553.3	2576.8	2620.8	2661.9	2714.7	2720.6	2761.7	2785.2
15°	2565.0	2568.0	2562.1	2582.7	2609.1	2661.9	2700.0	2755.8	2761.7	2799.8	2814.5
17.5°	2679.5	2691.2	2676.6	2688.3	2682.4	2723.5	2758.7	2814.5	2817.4	2849.7	2855.6
20°	2905.5	2917.2	2893.7	2879.1	2826.2	2823.3	2838.0	2882.0	2882.0	2902.6	2887.9
22.5°	3254.7	3266.5	3225.4	3169.6	3043.4	2981.8	2949.5	2970.1	2967.1	2975.9	2937.8
25°	3718.4	3715.5	3665.6	3562.9	3360.4	3210.7	3131.5	3099.2	3099.2	3081.6	3034.6
27.5°	4293.7	4249.6	4161.6	4038.3	3756.6	3548.2	3378.0	3295.8	3281.1	3228.3	3140.3
30°	4907.0	4874.8	4748.6	4569.5	4243.8	3976.7	3695.0	3530.6	3521.8	3407.3	3275.3
32.5°	5629.0	5576.2	5435.3	5221.1	4830.7	4455.1	4102.9	3853.4	3838.8	3656.8	3474.8
35°	6556.4	6512.4	6239.5	6025.2	5523.4	5030.3	4613.6	4281.9	4270.2	4047.1	3815.3
37.5°	7668.7	7554.3	7290.1	6888.1	6359.8	5775.8	5247.5	4830.7	4816.1	4569.5	4276.1
40°	8660.7	8558.0	8323.2	7953.4	7387.0	6738.4	6022.3	5517.5	5502.8	5203.5	4833.7
42.5°	9394.4	9324.0	9171.4	8957.1	8552.1	8158.8	7011.3	6348.0	6321.6	5934.2	5473.5
45°	9820.0	9764.2	9676.1	9729.0	9723.1	9649.7	8191.1	7337.1	7252.0	6750.1	6186.6
47.5°	9717.2	9667.3	9702.6	10113.4	10679.9	11105.4	9564.6	8349.6	8235.1	7580.7	6946.8
50°	8974.7	8995.3	9180.2	9966.7	11237.5	12182.5	11087.8	9503.0	9350.4	8417.1	7668.7
52.5°	7621.8	7671.7	8120.7	9221.2	11175.8	12881.0	12464.2	10694.5	10492.0	9233.0	8326.1
55°	6054.6	6180.8	6761.9	7918.2	10371.7	12930.9	13503.2	11891.9	11668.9	9999.0	8898.4
57.5°	4478.6	4666.4	5338.5	6400.9	8830.9	12141.4	14022.6	13036.5	12766.5	10759.1	9503.0
60°	2840.9	2955.4	3730.2	4983.3	6758.9	10210.3	13955.1	14010.9	13776.1	11516.3	10134.0
62.5°	1813.7	1869.5	2259.8	3554.1	4725.1	7560.1	13218.5	14747.5	14589.1	12206.0	10732.7
65°	1165.1	1188.6	1388.2	2186.5	3216.6	4563.7	11384.2	14826.8	14847.3	12637.4	11102.5
67.5°	948.0	959.7	1033.1	1350.0	2274.5	2521.0	7929.9	13699.8	13949.3	12525.9	10976.3
70°	862.8	877.5	953.8	1077.1	1760.9	1740.4	3838.8	11463.5	11871.4	11883.1	10415.7
72.5°	727.8	748.4	851.1	1018.4	1361.8	1373.5	1625.9	8164.7	8766.3	10621.2	9573.4
75°	607.5	619.2	707.3	898.1	1153.4	1097.6	1141.7	4328.9	5197.6	8516.9	8678.3
77.5°	493.1	504.8	569.4	716.1	1024.3	854.0	898.1	1793.2	2215.8	5781.6	7093.5
80°	352.2	363.9	437.3	557.6	774.8	768.9	666.2	989.0	1074.1	3125.6	4607.7
82.5°	252.4	261.2	331.6	399.1	537.1	771.9	501.9	672.1	704.4	1385.2	1857.7
85°	170.2	170.2	228.9	264.1	346.3	487.2	405.0	454.9	475.4	657.4	501.9
87.5°	73.4	73.4	123.3	135.0	182.0	226.0	302.3	228.9	234.8	355.1	205.4
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°	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4	2817.4
2.5°	2805.7	2808.6	2814.5	2832.1	2843.9	2861.5	2870.3	2882.0	2882.0	2876.1	2879.1
5°	2799.8	2808.6	2829.2	2861.5	2882.0	2914.3	2937.8	2955.4	2961.2	2955.4	2958.3
7.5°	2796.9	2811.6	2846.8	2893.7	2923.1	2964.2	2996.5	3017.0	3031.7	3025.8	3028.7
10°	2788.1	2811.6	2855.6	2914.3	2958.3	2999.4	3028.7	3037.6	3046.4	3040.5	3037.6
12.5°	2799.8	2826.2	2873.2	2943.6	2993.5	3025.8	3034.6	3019.9	2999.4	2987.7	2984.7
15°	2823.3	2849.7	2896.7	2970.1	3014.1	3025.8	3005.3	2958.3	2911.4	2884.9	2882.0
17.5°	2855.6	2873.2	2911.4	2975.9	3011.1	2996.5	2955.4	2899.6	2864.4	2843.9	2846.8
20°	2876.1	2876.1	2905.5	2955.4	2984.7	2973.0	2923.1	2861.5	2805.7	2779.3	2770.5
22.5°	2905.5	2890.8	2893.7	2937.8	2978.9	2961.2	2855.6	2747.0	2667.8	2638.4	2635.5
25°	2984.7	2943.6	2917.2	2943.6	3040.5	2896.7	2685.4	2559.2	2485.8	2459.4	2462.3
27.5°	3081.6	3025.8	2970.1	3014.1	3090.4	2749.9	2468.2	2324.4	2280.4	2259.8	2268.6
30°	3178.4	3105.1	3031.7	3190.2	3055.2	2521.0	2189.4	2048.5	2010.4	1995.7	2007.4
32.5°	3357.5	3237.1	3149.1	3425.0	2946.6	2259.8	1887.1	1758.0	1722.7	1705.1	1699.3
35°	3656.8	3504.2	3416.1	3630.4	2794.0	1969.3	1611.2	1520.2	1482.1	1443.9	1438.1
37.5°	4088.2	3903.3	3824.1	3747.8	2579.7	1681.7	1399.9	1338.3	1282.5	1223.8	1220.9
40°	4604.8	4364.1	4305.4	3800.6	2283.3	1411.7	1253.2	1194.5	1124.0	1068.3	1071.2
42.5°	5200.5	4892.4	4766.2	3785.9	1916.4	1267.8	1147.5	1083.0	1021.3	971.4	968.5
45°	5837.4	5488.1	5197.6	3683.2	1552.5	1168.1	1083.0	1006.6	945.0	889.3	883.4
47.5°	6541.7	6151.4	5596.7	3483.6	1282.5	1097.6	1044.8	936.2	880.5	845.2	845.2
50°	7252.0	6785.3	5963.6	3181.4	1124.0	1044.8	989.0	898.1	854.0	824.7	824.7
52.5°	7859.5	7445.7	6265.9	2820.4	1024.3	1000.8	950.9	880.5	833.5	807.1	804.1
55°	8449.4	8059.1	6535.9	2462.3	942.1	942.1	942.1	865.8	812.9	789.5	786.5
57.5°	9036.4	8704.7	6817.6	2227.5	868.7	892.2	924.5	848.2	795.3	774.8	771.9
60°	9699.6	9479.5	7143.4	2063.2	804.1	839.4	901.0	827.6	766.0	748.4	745.4
62.5°	10404.0	10404.0	7439.8	1831.3	745.4	795.3	865.8	801.2	739.6	724.9	722.0
65°	10955.7	11193.5	7630.6	1485.0	686.8	751.3	824.7	766.0	704.4	701.4	695.6
67.5°	11020.3	11393.0	7510.2	1121.1	633.9	704.4	783.6	727.8	669.1	669.1	660.3
70°	10556.6	10935.2	7134.6	839.4	595.8	657.4	730.8	680.9	625.1	631.0	616.3
72.5°	9781.8	9875.7	6201.3	663.3	551.7	607.5	666.2	628.1	578.2	578.2	557.6
75°	8760.5	8238.1	4505.0	554.7	498.9	548.8	601.6	569.4	525.3	510.7	498.9
77.5°	6973.2	5969.5	2617.9	478.4	454.9	493.1	528.3	504.8	466.6	434.4	434.4
80°	4249.6	3498.3	1156.3	413.8	402.1	431.4	454.9	428.5	396.2	363.9	355.1
82.5°	1617.1	1350.0	560.6	355.1	352.2	369.8	387.4	361.0	337.5	322.8	278.8
85°	443.2	407.9	384.5	296.4	290.5	287.6	308.2	296.4	264.1	217.2	193.7
87.5°	167.3	190.8	208.4	182.0	193.7	179.0	205.4	187.8	167.3	108.6	96.8
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)