

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: P399429

Luminaire Tested: **ARCH-L-PA3-140-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399429
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-PA3-140-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22409 lumens
Efficiency: N/A
Efficacy: 156.7 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

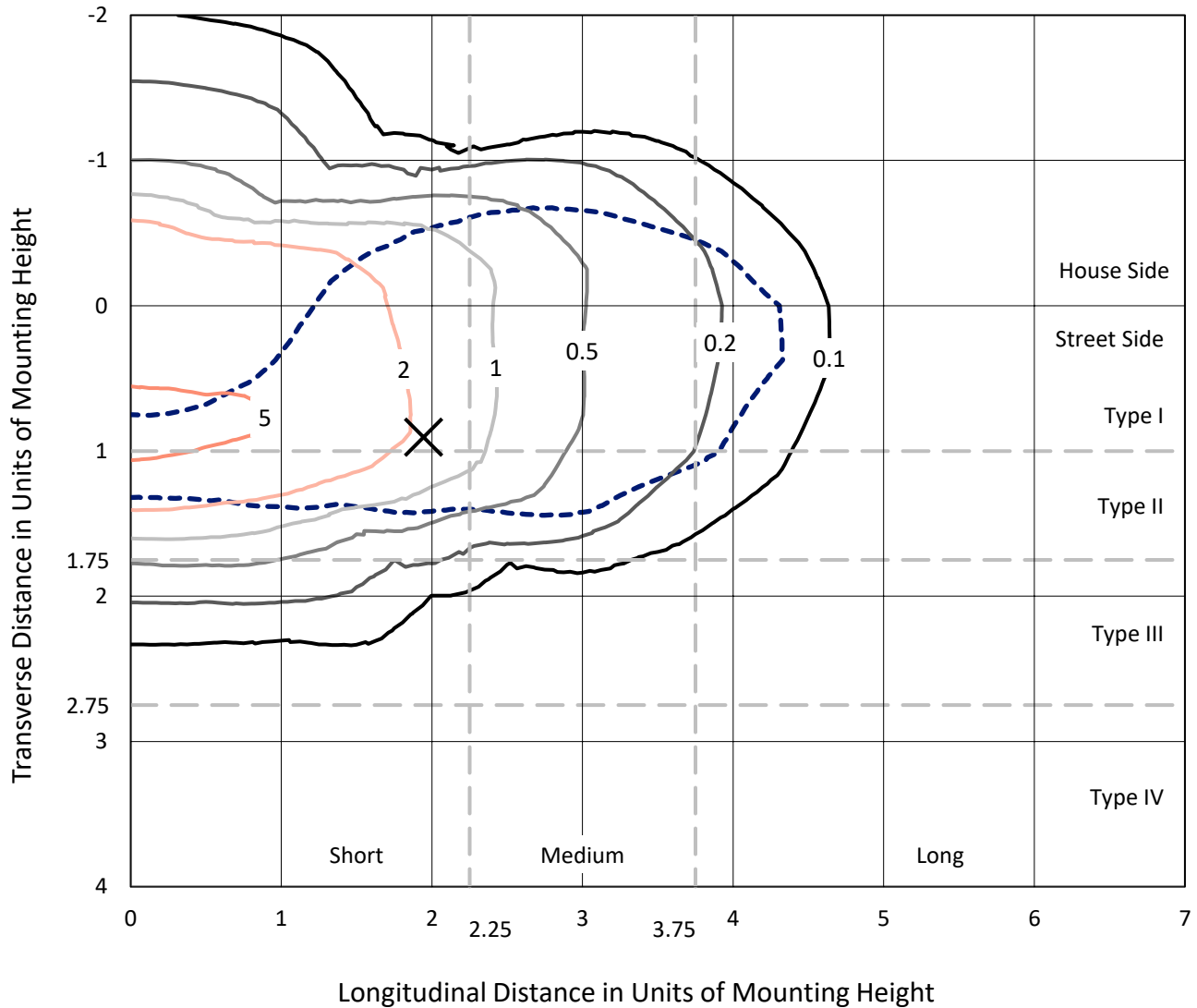
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

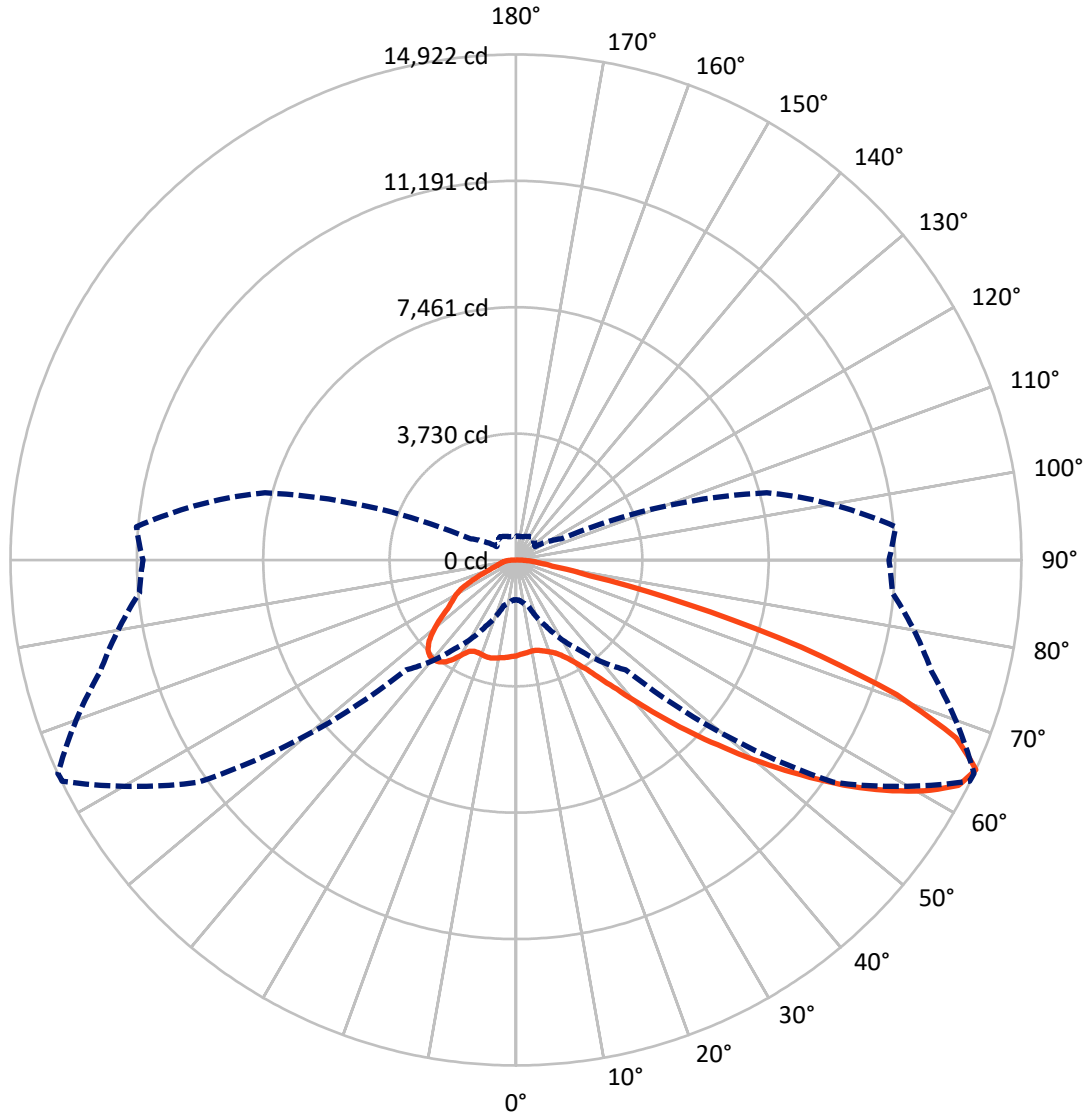
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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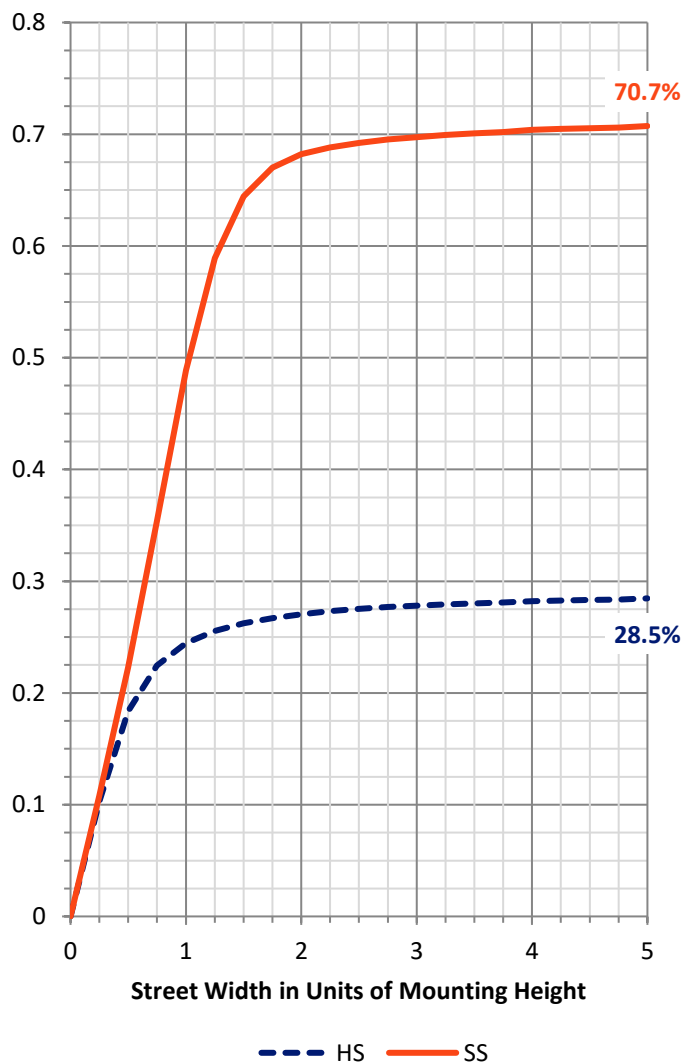
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6478.8	0.0	6478.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15930.2	0.0	15930.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	22409.0	0.0	22409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	1.2
10°-20°	805.4	3.6
20°-30°	1430.7	6.4
30°-40°	2420.3	10.8
40°-50°	4213.3	18.8
50°-60°	5445.0	24.3
60°-70°	4764.6	21.3
70°-80°	2591.6	11.6
80°-90°	468.3	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°	22409.0	100.0
0°-180°	22409.0	100.0

Coefficient of Utilization



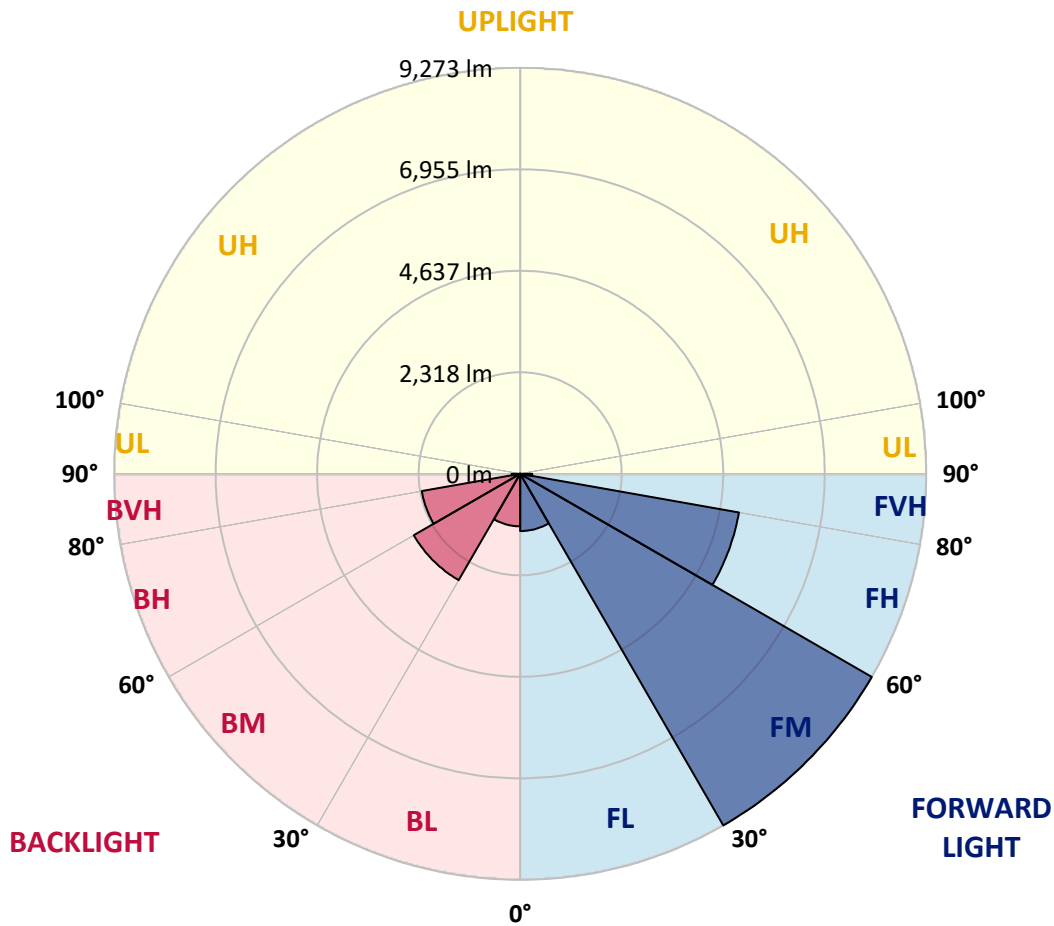
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.5	5.8			
FM (30°-60°)	9273.5	41.4			
FH (60°-80°)	5073.7	22.6			G3/7500
FVH (80°-90°)	275.5	1.2			G3/500
BL (0°-30°)	1198.3	5.3	B3/2500		
BM (30°-60°)	2805.2	12.5	B3/5000		
BH (60°-80°)	2282.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	192.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6
2.5°	2781.5	2778.5	2772.6	2778.5	2781.5	2787.3	2784.4	2790.3	2787.3	2796.2	2810.9
5°	2710.7	2704.8	2701.8	2716.6	2725.4	2740.2	2746.1	2766.7	2763.8	2778.5	2802.1
7.5°	2631.0	2631.0	2628.1	2645.8	2657.6	2684.1	2704.8	2740.2	2743.1	2769.7	2796.2
10°	2569.1	2572.0	2569.1	2583.8	2601.5	2634.0	2669.4	2719.5	2722.5	2760.8	2787.3
12.5°	2545.5	2545.5	2545.5	2566.1	2589.7	2634.0	2675.3	2728.4	2734.3	2775.6	2799.1
15°	2577.9	2580.9	2575.0	2595.6	2622.2	2675.3	2713.6	2769.7	2775.6	2813.9	2828.6
17.5°	2693.0	2704.8	2690.0	2701.8	2695.9	2737.2	2772.6	2828.6	2831.6	2864.0	2869.9
20°	2920.1	2931.9	2908.3	2893.5	2840.4	2837.5	2852.2	2896.5	2896.5	2917.1	2902.4
22.5°	3271.1	3282.9	3241.6	3185.5	3058.7	2996.8	2964.3	2985.0	2982.0	2990.9	2952.5
25°	3737.1	3734.2	3684.0	3580.8	3377.3	3226.8	3147.2	3114.8	3114.8	3097.1	3049.9
27.5°	4315.2	4271.0	4182.5	4058.6	3775.5	3566.0	3395.0	3312.4	3297.6	3244.5	3156.0
30°	4931.7	4899.2	4772.4	4592.5	4265.1	3996.7	3713.5	3548.3	3539.5	3424.5	3291.7
32.5°	5657.3	5604.2	5462.6	5247.3	4855.0	4477.5	4123.5	3872.8	3858.0	3675.2	3492.3
35°	6589.4	6545.1	6270.8	6055.5	5551.1	5055.6	4636.7	4303.4	4291.6	4067.5	3834.4
37.5°	7707.2	7592.2	7326.7	6922.7	6391.7	5804.8	5273.8	4855.0	4840.3	4592.5	4297.5
40°	8704.2	8601.0	8365.0	7993.4	7424.1	6772.2	6052.5	5545.2	5530.5	5229.6	4858.0
42.5°	9441.6	9370.8	9217.4	9002.1	8595.1	8199.8	7046.5	6379.9	6353.4	5964.0	5501.0
45°	9869.3	9813.2	9724.8	9777.8	9771.9	9698.2	8232.3	7373.9	7288.4	6784.0	6217.7
47.5°	9766.0	9715.9	9751.3	10164.2	10733.5	11161.2	9612.7	8391.5	8276.5	7618.8	6981.6
50°	9019.8	9040.5	9226.3	10016.8	11293.9	12243.7	11143.5	9550.7	9397.3	8459.4	7707.2
52.5°	7660.0	7710.2	8161.5	9267.6	11232.0	12945.7	12526.8	10748.3	10544.7	9279.4	8367.9
55°	6085.0	6211.8	6795.8	7958.0	10423.8	12995.8	13571.0	11951.7	11727.5	10049.2	8943.1
57.5°	4501.1	4689.8	5365.3	6433.0	8875.3	12202.4	14093.1	13102.0	12830.7	10813.1	9550.7
60°	2855.2	2970.2	3748.9	5008.4	6792.9	10261.6	14025.2	14081.3	13845.3	11574.1	10184.9
62.5°	1822.8	1878.9	2271.2	3571.9	4748.8	7598.1	13284.9	14821.6	14662.3	12267.3	10786.6
65°	1171.0	1194.6	1395.1	2197.4	3232.7	4586.6	11441.4	14901.3	14921.9	12700.9	11158.2
67.5°	952.7	964.5	1038.3	1356.8	2285.9	2533.7	7969.8	13768.6	14019.3	12588.8	11031.4
70°	867.2	881.9	958.6	1082.5	1769.7	1749.1	3858.0	11521.0	11931.0	11942.8	10468.0
72.5°	731.5	752.1	855.4	1023.5	1368.6	1380.4	1634.1	8205.7	8810.4	10674.5	9621.5
75°	610.6	622.4	710.8	902.6	1159.2	1103.1	1147.4	4350.6	5223.7	8559.7	8721.9
77.5°	495.5	507.3	572.2	719.7	1029.4	858.3	902.6	1802.2	2226.9	5810.7	7129.1
80°	353.9	365.7	439.5	560.4	778.7	772.8	669.6	994.0	1079.5	3141.3	4630.8
82.5°	253.7	262.5	333.3	401.1	539.8	775.7	504.4	675.5	707.9	1392.2	1867.1
85°	171.1	171.1	230.1	265.5	348.0	489.6	407.0	457.2	477.8	660.7	504.4
87.5°	73.7	73.7	123.9	135.7	182.9	227.1	303.8	230.1	236.0	356.9	206.5
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°	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6	2831.6
2.5°	2819.8	2822.7	2828.6	2846.3	2858.1	2875.8	2884.7	2896.5	2896.5	2890.6	2893.5
5°	2813.9	2822.7	2843.4	2875.8	2896.5	2928.9	2952.5	2970.2	2976.1	2970.2	2973.2
7.5°	2810.9	2825.7	2861.1	2908.3	2937.8	2979.1	3011.5	3032.2	3046.9	3041.0	3044.0
10°	2802.1	2825.7	2869.9	2928.9	2973.2	3014.5	3044.0	3052.8	3061.7	3055.8	3052.8
12.5°	2813.9	2840.4	2887.6	2958.4	3008.6	3041.0	3049.9	3035.1	3014.5	3002.7	2999.7
15°	2837.5	2864.0	2911.2	2985.0	3029.2	3041.0	3020.4	2973.2	2926.0	2899.4	2896.5
17.5°	2869.9	2887.6	2926.0	2990.9	3026.3	3011.5	2970.2	2914.2	2878.8	2858.1	2861.1
20°	2890.6	2890.6	2920.1	2970.2	2999.7	2987.9	2937.8	2875.8	2819.8	2793.2	2784.4
22.5°	2920.1	2905.3	2908.3	2952.5	2993.8	2976.1	2869.9	2760.8	2681.2	2651.7	2648.7
25°	2999.7	2958.4	2931.9	2958.4	3055.8	2911.2	2698.9	2572.0	2498.3	2471.7	2474.7
27.5°	3097.1	3041.0	2985.0	3029.2	3105.9	2763.8	2480.6	2336.1	2291.8	2271.2	2280.0
30°	3194.4	3120.7	3046.9	3206.2	3070.5	2533.7	2200.4	2058.8	2020.5	2005.7	2017.5
32.5°	3374.3	3253.4	3164.9	3442.2	2961.4	2271.2	1896.6	1766.8	1731.4	1713.7	1707.8
35°	3675.2	3521.8	3433.3	3648.6	2808.0	1979.2	1619.3	1527.9	1489.5	1451.2	1445.3
37.5°	4108.8	3922.9	3843.3	3766.6	2592.7	1690.1	1406.9	1345.0	1289.0	1230.0	1227.0
40°	4627.9	4386.0	4327.0	3819.7	2294.8	1418.7	1259.5	1200.5	1129.7	1073.6	1076.6
42.5°	5226.6	4916.9	4790.1	3805.0	1926.1	1274.2	1153.3	1088.4	1026.5	976.3	973.4
45°	5866.7	5515.7	5223.7	3701.7	1560.3	1173.9	1088.4	1011.7	949.8	893.7	887.8
47.5°	6574.6	6182.3	5624.8	3501.1	1289.0	1103.1	1050.0	940.9	884.9	849.5	849.5
50°	7288.4	6819.4	5993.5	3197.3	1129.7	1050.0	994.0	902.6	858.3	828.8	828.8
52.5°	7899.0	7483.1	6297.3	2834.5	1029.4	1005.8	955.7	884.9	837.7	811.1	808.2
55°	8491.8	8099.5	6568.7	2474.7	946.8	946.8	946.8	870.1	817.0	793.4	790.5
57.5°	9081.7	8748.4	6851.9	2238.7	873.1	896.7	929.1	852.4	799.3	778.7	775.7
60°	9748.3	9527.1	7179.3	2073.6	808.2	843.6	905.5	831.8	769.8	752.1	749.2
62.5°	10456.2	10456.2	7477.2	1840.5	749.2	799.3	870.1	805.2	743.3	728.5	725.6
65°	11010.8	11249.7	7668.9	1492.5	690.2	755.1	828.8	769.8	707.9	704.9	699.0
67.5°	11075.7	11450.3	7548.0	1126.7	637.1	707.9	787.5	731.5	672.5	672.5	663.7
70°	10609.6	10990.1	7170.4	843.6	598.8	660.7	734.4	684.3	628.3	634.2	619.4
72.5°	9830.9	9925.3	6232.5	666.6	554.5	610.6	669.6	631.2	581.1	581.1	560.4
75°	8804.5	8279.5	4527.6	557.5	501.4	551.6	604.7	572.2	528.0	513.2	501.4
77.5°	7008.2	5999.4	2631.0	480.8	457.2	495.5	530.9	507.3	469.0	436.5	436.5
80°	4271.0	3515.9	1162.1	415.9	404.1	433.6	457.2	430.6	398.2	365.7	356.9
82.5°	1625.2	1356.8	563.4	356.9	353.9	371.6	389.3	362.8	339.2	324.5	280.2
85°	445.4	410.0	386.4	297.9	292.0	289.1	309.7	297.9	265.5	218.3	194.7
87.5°	168.1	191.7	209.4	182.9	194.7	179.9	206.5	188.8	168.1	109.1	97.3
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)