

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: P399438

Luminaire Tested: **ARCH-L-PA3-140-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399438
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-PA3-140-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 22408 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

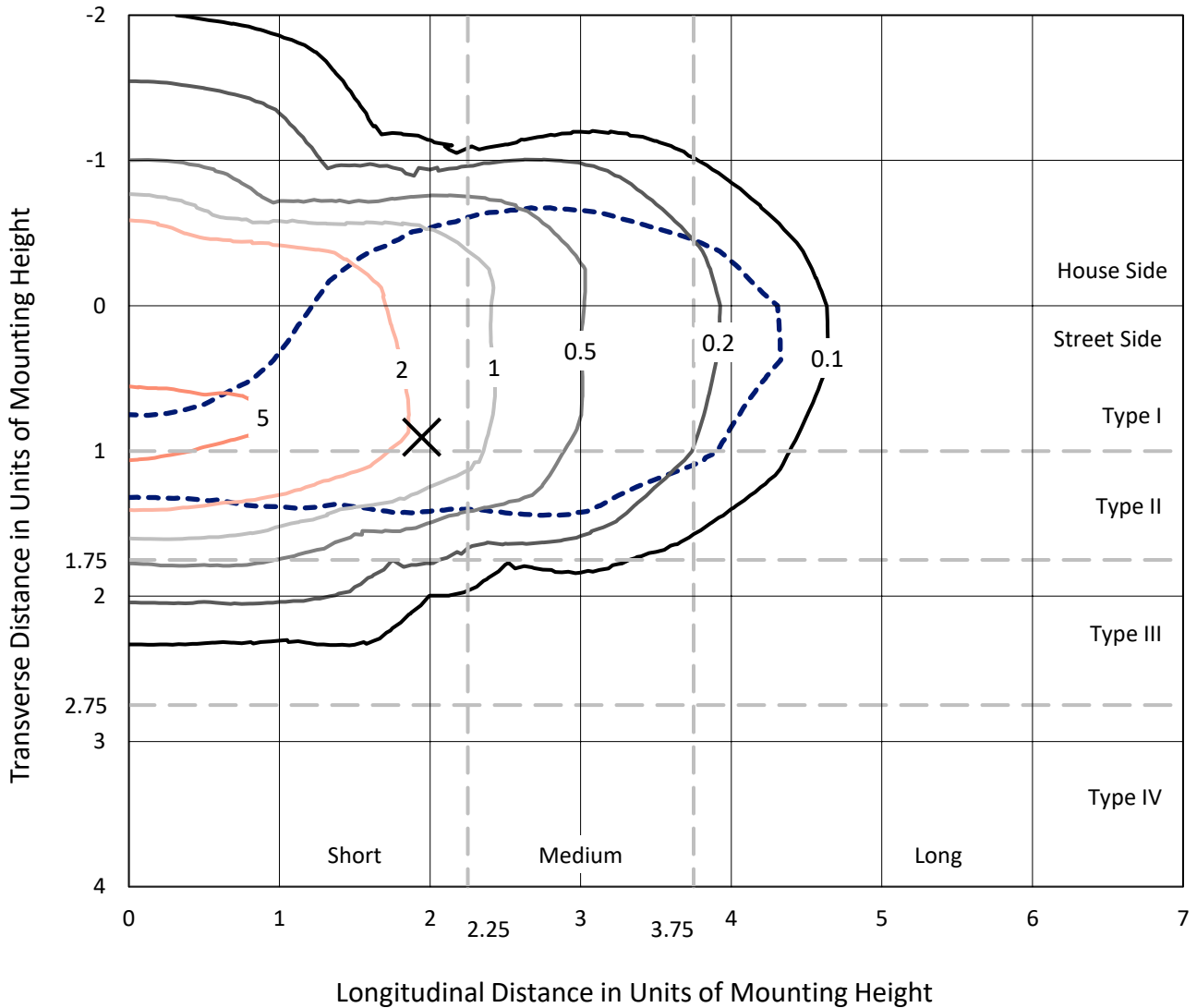
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

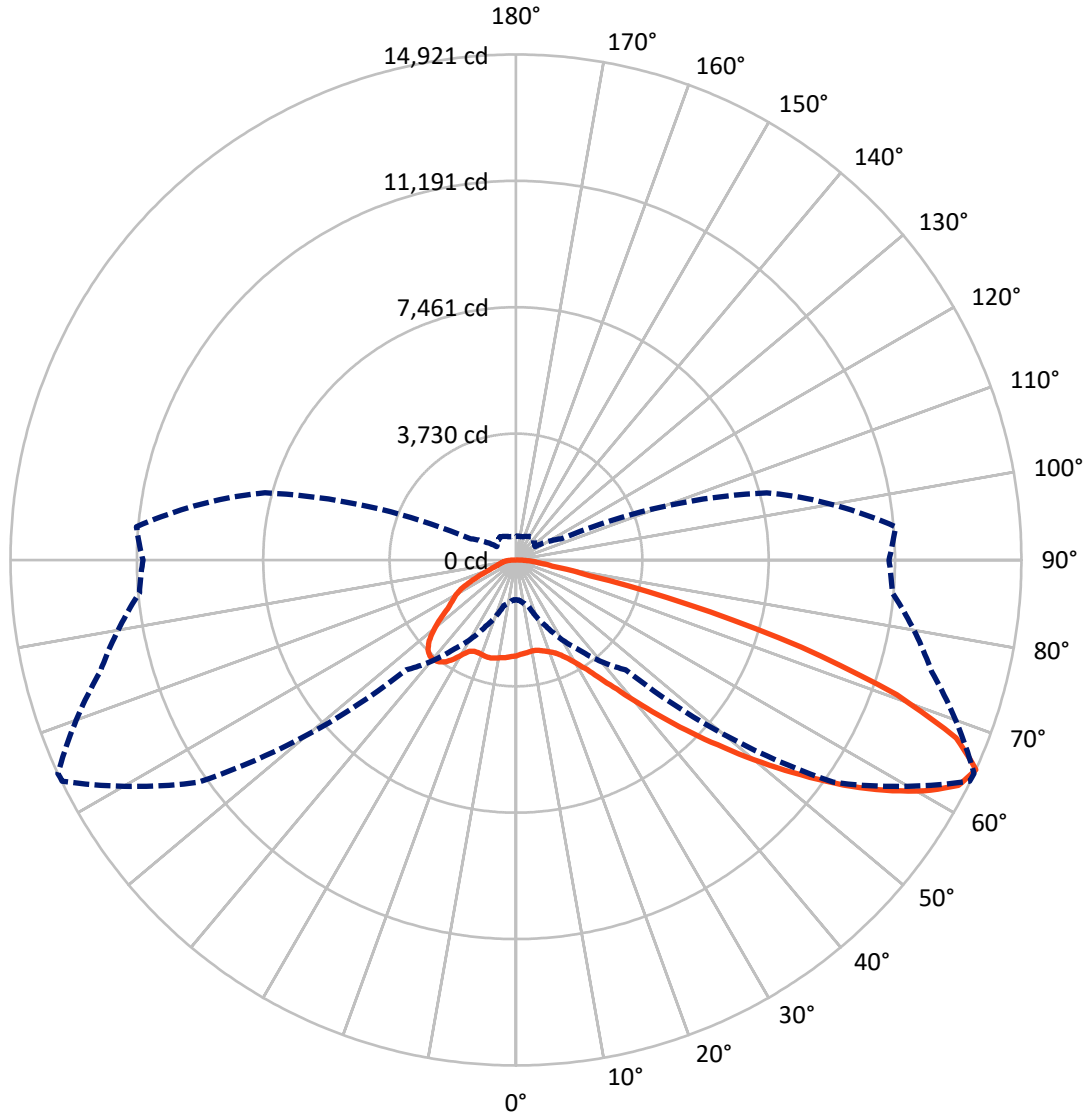
✕ Max cd
 - - - 1/2 Max cd



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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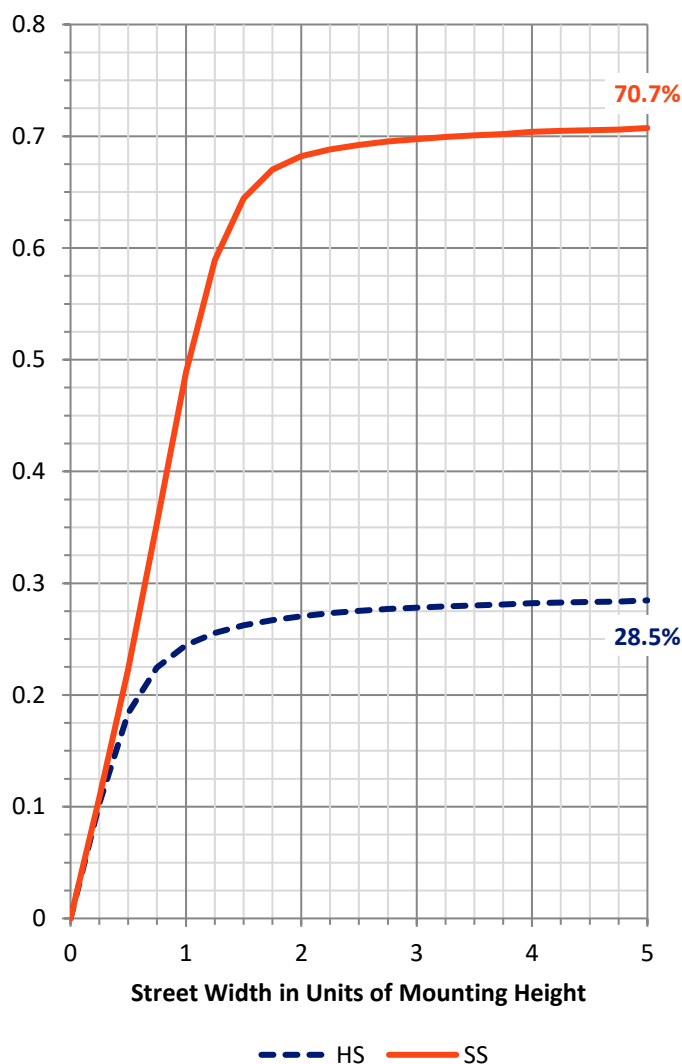
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6478.5	0.0	6478.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15929.5	0.0	15929.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	22408.0	0.0	22408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.7	1.2
10°-20°	805.4	3.6
20°-30°	1430.6	6.4
30°-40°	2420.2	10.8
40°-50°	4213.1	18.8
50°-60°	5444.7	24.3
60°-70°	4764.4	21.3
70°-80°	2591.5	11.6
80°-90°	468.2	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°	22408.0	100.0
0°-180°	22408.0	100.0

Coefficient of Utilization



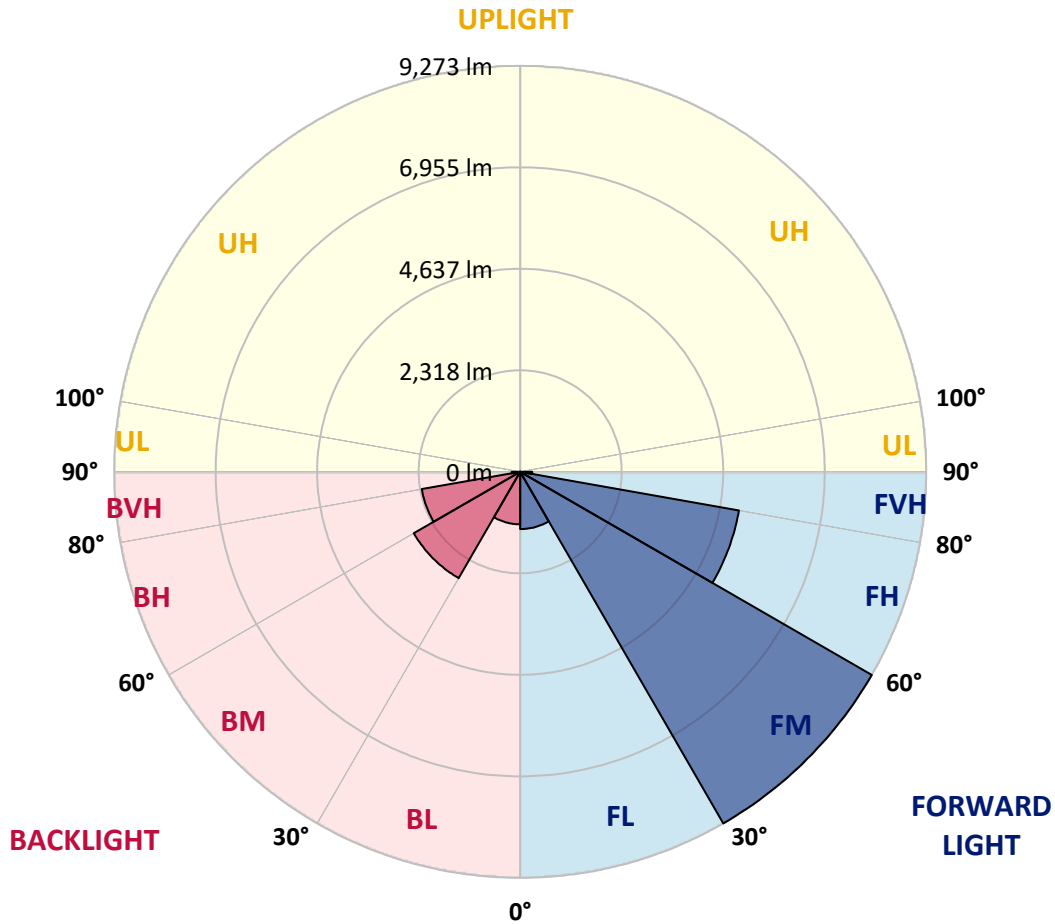
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.4	5.8			
FM (30°-60°)	9273.0	41.4			
FH (60°-80°)	5073.5	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°)	2805.0	12.5	B3/5000		
BH (60°-80°)	2282.5	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°	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5
2.5°	2781.3	2778.4	2772.5	2778.4	2781.3	2787.2	2784.3	2790.2	2787.2	2796.1	2810.8
5°	2710.5	2704.6	2701.7	2716.4	2725.3	2740.0	2745.9	2766.6	2763.6	2778.4	2802.0
7.5°	2630.9	2630.9	2628.0	2645.7	2657.4	2684.0	2704.6	2740.0	2743.0	2769.5	2796.1
10°	2569.0	2571.9	2569.0	2583.7	2601.4	2633.9	2669.2	2719.4	2722.3	2760.7	2787.2
12.5°	2545.4	2545.4	2545.4	2566.0	2589.6	2633.9	2675.1	2728.2	2734.1	2775.4	2799.0
15°	2577.8	2580.8	2574.9	2595.5	2622.1	2675.1	2713.5	2769.5	2775.4	2813.8	2828.5
17.5°	2692.8	2704.6	2689.9	2701.7	2695.8	2737.1	2772.5	2828.5	2831.5	2863.9	2869.8
20°	2919.9	2931.7	2908.2	2893.4	2840.3	2837.4	2852.1	2896.4	2896.4	2917.0	2902.3
22.5°	3270.9	3282.7	3241.4	3185.4	3058.6	2996.6	2964.2	2984.8	2981.9	2990.7	2952.4
25°	3736.9	3734.0	3683.9	3580.6	3377.1	3226.7	3147.1	3114.6	3114.6	3096.9	3049.7
27.5°	4315.0	4270.8	4182.3	4058.4	3775.3	3565.9	3394.8	3312.2	3297.5	3244.4	3155.9
30°	4931.5	4899.0	4772.2	4592.3	4264.9	3996.5	3713.4	3548.2	3539.3	3424.3	3291.6
32.5°	5657.0	5603.9	5462.4	5247.1	4854.8	4477.3	4123.3	3872.6	3857.9	3675.0	3492.1
35°	6589.1	6544.8	6270.5	6055.2	5550.9	5055.3	4636.5	4303.2	4291.4	4067.3	3834.3
37.5°	7706.9	7591.9	7326.4	6922.3	6391.4	5804.5	5273.6	4854.8	4840.0	4592.3	4297.3
40°	8703.8	8600.6	8364.6	7993.0	7423.8	6771.9	6052.3	5545.0	5530.2	5229.4	4857.7
42.5°	9441.2	9370.4	9217.0	9001.7	8594.7	8199.5	7046.2	6379.6	6353.1	5963.8	5500.7
45°	9868.8	9812.8	9724.3	9777.4	9771.5	9697.8	8231.9	7373.6	7288.1	6783.7	6217.4
47.5°	9765.6	9715.5	9750.9	10163.8	10733.0	11160.7	9612.2	8391.2	8276.1	7618.4	6981.3
50°	9019.4	9040.0	9225.9	10016.3	11293.4	12243.1	11143.0	9550.3	9396.9	8459.0	7706.9
52.5°	7659.7	7709.8	8161.1	9267.2	11231.5	12945.1	12526.3	10747.8	10544.3	9279.0	8367.6
55°	6084.7	6211.5	6795.5	7957.6	10423.3	12995.3	13570.4	11951.1	11727.0	10048.8	8942.7
57.5°	4500.9	4689.6	5365.0	6432.7	8874.9	12201.9	14092.4	13101.4	12830.1	10812.7	9550.3
60°	2855.1	2970.1	3748.7	5008.2	6792.6	10261.1	14024.6	14080.6	13844.7	11573.6	10184.4
62.5°	1822.8	1878.8	2271.1	3571.8	4748.6	7597.8	13284.3	14821.0	14661.7	12266.7	10786.1
65°	1170.9	1194.5	1395.1	2197.3	3232.6	4586.4	11440.9	14900.6	14921.2	12700.3	11157.7
67.5°	952.7	964.5	1038.2	1356.7	2285.8	2533.6	7969.4	13768.0	14018.7	12588.2	11030.9
70°	867.1	881.9	958.6	1082.4	1769.7	1749.0	3857.9	11520.5	11930.5	11942.3	10467.6
72.5°	731.5	752.1	855.3	1023.5	1368.5	1380.3	1634.0	8205.4	8810.0	10674.0	9621.1
75°	610.5	622.3	710.8	902.5	1159.1	1103.1	1147.3	4350.4	5223.5	8559.3	8721.5
77.5°	495.5	507.3	572.2	719.7	1029.4	858.3	902.5	1802.1	2226.8	5810.4	7128.8
80°	353.9	365.7	439.5	560.4	778.7	772.8	669.5	994.0	1079.5	3141.2	4630.6
82.5°	253.7	262.5	333.3	401.1	539.7	775.7	504.4	675.4	707.9	1392.1	1867.0
85°	171.1	171.1	230.1	265.4	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°	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5	2831.5
2.5°	2819.7	2822.6	2828.5	2846.2	2858.0	2875.7	2884.6	2896.4	2896.4	2890.5	2893.4
5°	2813.8	2822.6	2843.3	2875.7	2896.4	2928.8	2952.4	2970.1	2976.0	2970.1	2973.0
7.5°	2810.8	2825.6	2861.0	2908.2	2937.6	2978.9	3011.4	3032.0	3046.8	3040.9	3043.8
10°	2802.0	2825.6	2869.8	2928.8	2973.0	3014.3	3043.8	3052.7	3061.5	3055.6	3052.7
12.5°	2813.8	2840.3	2887.5	2958.3	3008.4	3040.9	3049.7	3035.0	3014.3	3002.5	2999.6
15°	2837.4	2863.9	2911.1	2984.8	3029.1	3040.9	3020.2	2973.0	2925.8	2899.3	2896.4
17.5°	2869.8	2887.5	2925.8	2990.7	3026.1	3011.4	2970.1	2914.1	2878.7	2858.0	2861.0
20°	2890.5	2890.5	2919.9	2970.1	2999.6	2987.8	2937.6	2875.7	2819.7	2793.1	2784.3
22.5°	2919.9	2905.2	2908.2	2952.4	2993.7	2976.0	2869.8	2760.7	2681.0	2651.6	2648.6
25°	2999.6	2958.3	2931.7	2958.3	3055.6	2911.1	2698.7	2571.9	2498.2	2471.6	2474.6
27.5°	3096.9	3040.9	2984.8	3029.1	3105.8	2763.6	2480.5	2336.0	2291.7	2271.1	2279.9
30°	3194.2	3120.5	3046.8	3206.0	3070.4	2533.6	2200.3	2058.7	2020.4	2005.6	2017.4
32.5°	3374.2	3253.2	3164.8	3442.0	2961.2	2271.1	1896.5	1766.7	1731.3	1713.6	1707.7
35°	3675.0	3521.6	3433.2	3648.5	2807.9	1979.1	1619.2	1527.8	1489.5	1451.1	1445.2
37.5°	4108.6	3922.8	3843.1	3766.4	2592.6	1690.0	1406.9	1344.9	1288.9	1229.9	1227.0
40°	4627.7	4385.8	4326.8	3819.5	2294.7	1418.7	1259.4	1200.4	1129.6	1073.6	1076.5
42.5°	5226.4	4916.7	4789.9	3804.8	1926.0	1274.2	1153.2	1088.3	1026.4	976.3	973.3
45°	5866.4	5515.5	5223.5	3701.6	1560.3	1173.9	1088.3	1011.7	949.7	893.7	887.8
47.5°	6574.3	6182.0	5624.6	3501.0	1288.9	1103.1	1050.0	940.9	884.8	849.4	849.4
50°	7288.1	6819.1	5993.3	3197.2	1129.6	1050.0	994.0	902.5	858.3	828.8	828.8
52.5°	7898.6	7482.7	6297.1	2834.4	1029.4	1005.8	955.6	884.8	837.6	811.1	808.1
55°	8491.5	8099.2	6568.4	2474.6	946.8	946.8	946.8	870.1	817.0	793.4	790.5
57.5°	9081.3	8748.1	6851.6	2238.6	873.0	896.6	929.1	852.4	799.3	778.7	775.7
60°	9747.9	9526.7	7178.9	2073.5	808.1	843.5	905.5	831.7	769.8	752.1	749.2
62.5°	10455.8	10455.8	7476.8	1840.5	749.2	799.3	870.1	805.2	743.3	728.5	725.6
65°	11010.3	11249.2	7668.6	1492.4	690.2	755.1	828.8	769.8	707.9	704.9	699.0
67.5°	11075.2	11449.7	7547.6	1126.7	637.1	707.9	787.5	731.5	672.5	672.5	663.6
70°	10609.2	10989.6	7170.1	843.5	598.7	660.7	734.4	684.3	628.2	634.1	619.4
72.5°	9830.5	9924.9	6232.2	666.6	554.5	610.5	669.5	631.2	581.0	581.0	560.4
75°	8804.1	8279.1	4527.4	557.4	501.4	551.5	604.6	572.2	528.0	513.2	501.4
77.5°	7007.9	5999.2	2630.9	480.8	457.2	495.5	530.9	507.3	469.0	436.5	436.5
80°	4270.8	3515.7	1162.1	415.9	404.1	433.6	457.2	430.6	398.2	365.7	356.9
82.5°	1625.1	1356.7	563.3	356.9	353.9	371.6	389.3	362.8	339.2	324.4	280.2
85°	445.4	410.0	386.4	297.9	292.0	289.0	309.7	297.9	265.4	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)