

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: P399501

Luminaire Tested: **ARCH-L-PA3-150-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399501
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-PA3-150-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 23740 lumens
Efficiency: N/A
Efficacy: 155.2 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

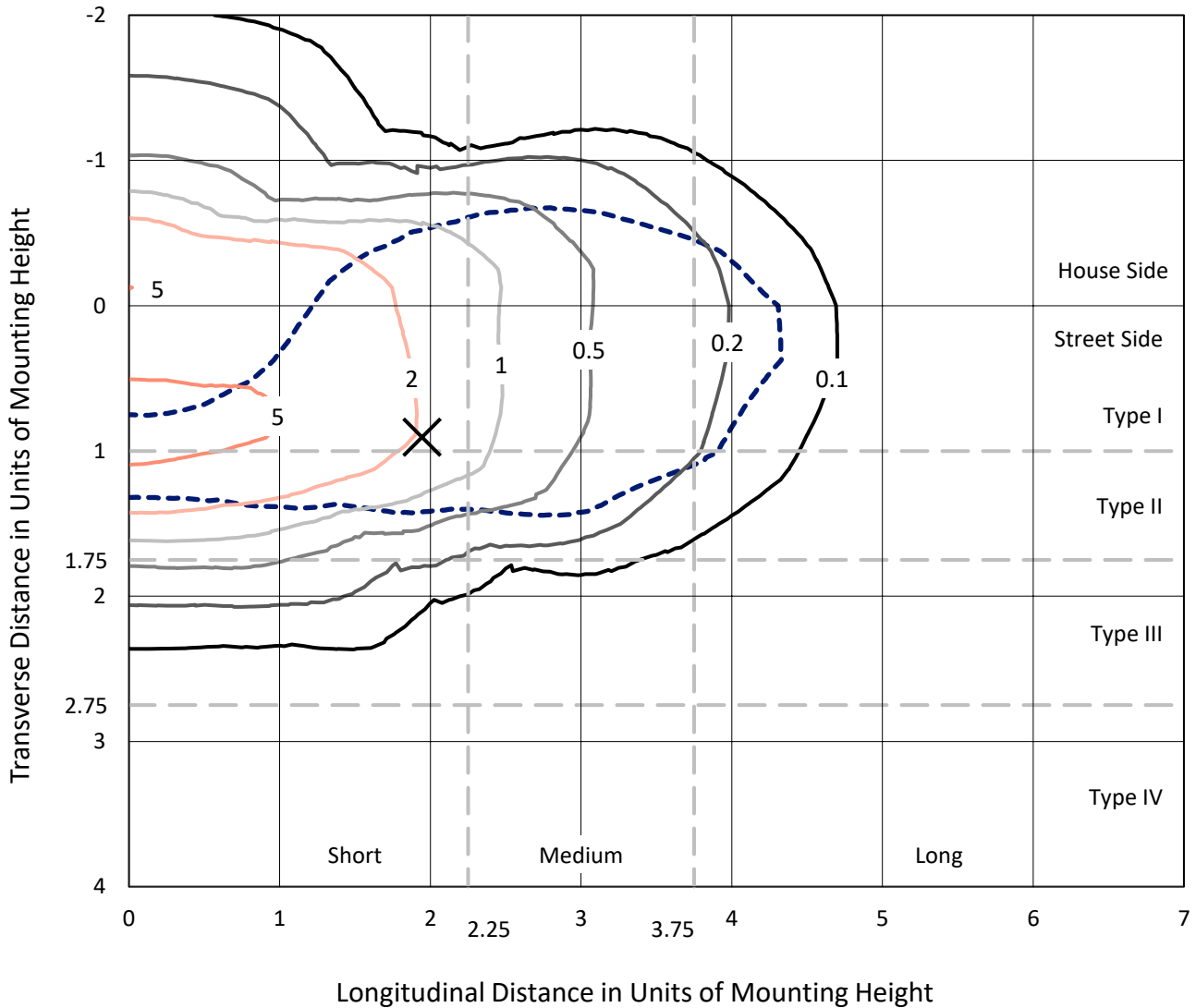
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

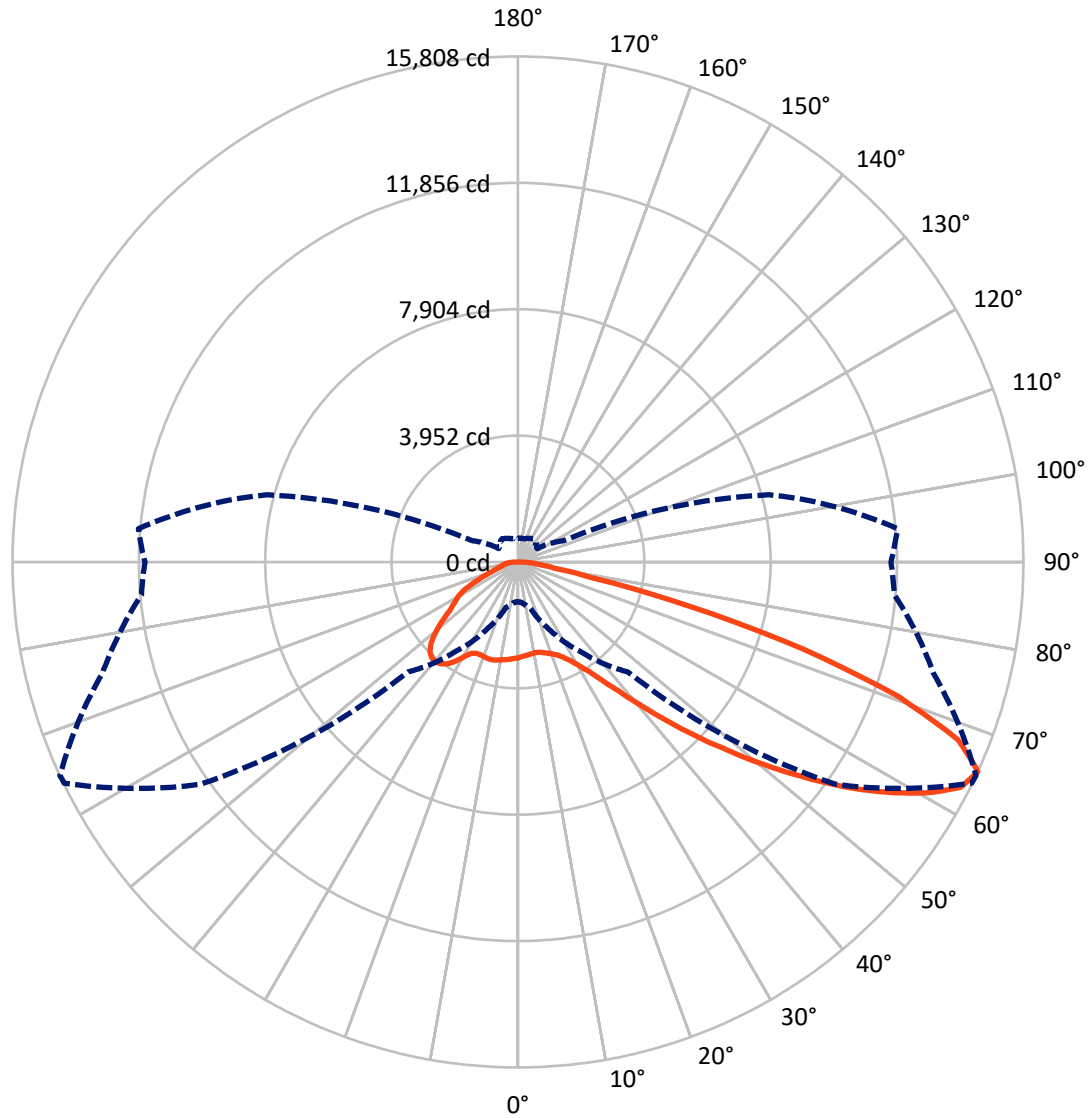
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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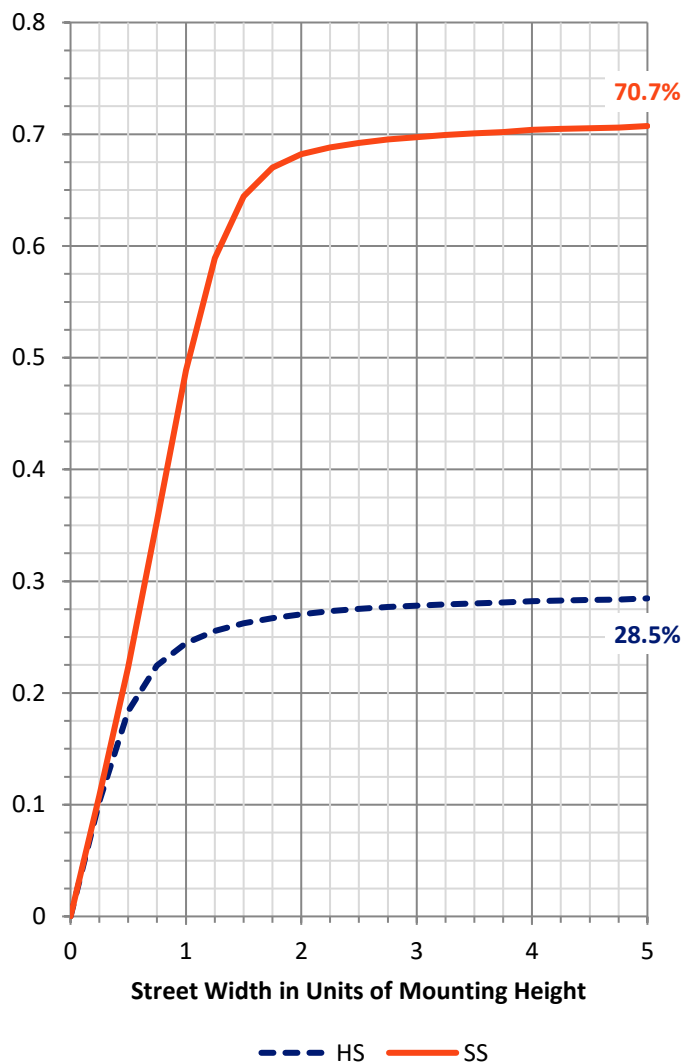
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6863.6	0.0	6863.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16876.4	0.0	16876.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	23740.0	0.0	23740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.2
10°-20°	853.3	3.6
20°-30°	1515.6	6.4
30°-40°	2564.1	10.8
40°-50°	4463.6	18.8
50°-60°	5768.4	24.3
60°-70°	5047.6	21.3
70°-80°	2745.6	11.6
80°-90°	496.1	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°	23740.0	100.0
0°-180°	23740.0	100.0

Coefficient of Utilization



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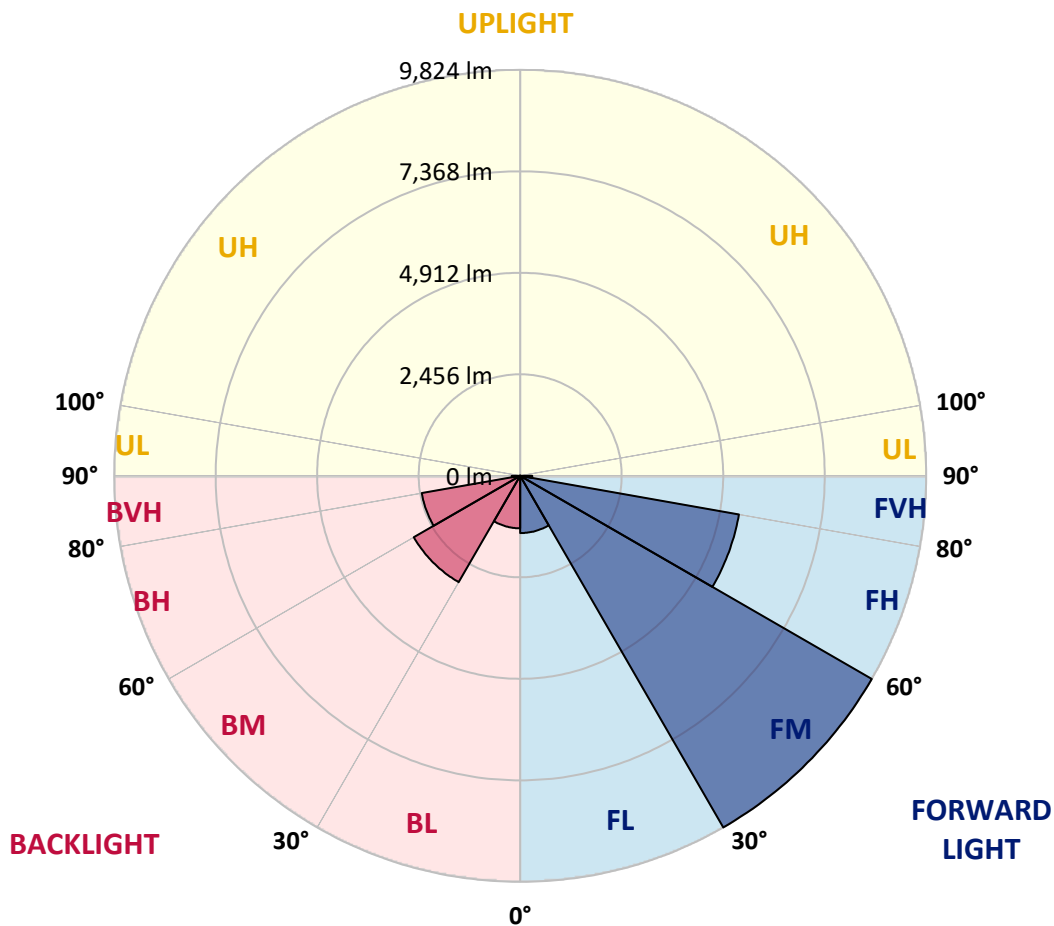
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.2	5.8			
FM (30°-60°)	9824.3	41.4			
FH (60°-80°)	5375.1	22.6			G3/7500
FVH (80°-90°)	291.9	1.2			G3/500
BL (0°-30°)	1269.5	5.3	B3/2500		
BM (30°-60°)	2971.8	12.5	B3/5000		
BH (60°-80°)	2418.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	204.2	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°	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8
2.5°	2946.7	2943.5	2937.3	2943.5	2946.7	2952.9	2949.8	2956.0	2952.9	2962.3	2977.9
5°	2871.7	2865.4	2862.3	2877.9	2887.3	2902.9	2909.2	2931.0	2927.9	2943.5	2968.5
7.5°	2787.3	2787.3	2784.2	2802.9	2815.4	2843.5	2865.4	2902.9	2906.0	2934.2	2962.3
10°	2721.7	2724.8	2721.7	2737.3	2756.0	2790.4	2827.9	2881.0	2884.2	2924.8	2952.9
12.5°	2696.7	2696.7	2696.7	2718.5	2743.5	2790.4	2834.2	2890.4	2896.7	2940.4	2965.4
15°	2731.0	2734.2	2727.9	2749.8	2777.9	2834.2	2874.8	2934.2	2940.4	2981.0	2996.7
17.5°	2852.9	2865.4	2849.8	2862.3	2856.0	2899.8	2937.3	2996.7	2999.8	3034.2	3040.4
20°	3093.5	3106.0	3081.0	3065.4	3009.2	3006.0	3021.7	3068.5	3068.5	3090.4	3074.8
22.5°	3465.4	3477.9	3434.1	3374.7	3240.4	3174.8	3140.4	3162.3	3159.1	3168.5	3127.9
25°	3959.1	3956.0	3902.8	3793.5	3577.9	3418.5	3334.1	3299.8	3299.8	3281.0	3231.0
27.5°	4571.5	4524.7	4430.9	4299.7	3999.7	3777.8	3596.6	3509.1	3493.5	3437.2	3343.5
30°	5224.6	5190.2	5055.9	4865.3	4518.4	4234.1	3934.1	3759.1	3749.7	3627.9	3487.2
32.5°	5993.3	5937.1	5787.1	5559.0	5143.4	4743.4	4368.4	4102.8	4087.2	3893.5	3699.7
35°	6980.7	6933.9	6643.3	6415.1	5880.8	5355.9	4912.1	4559.0	4546.5	4309.1	4062.2
37.5°	8165.0	8043.2	7761.9	7333.8	6771.4	6149.5	5587.1	5143.4	5127.7	4865.3	4552.8
40°	9221.2	9111.8	8861.8	8468.1	7865.0	7174.5	6412.0	5874.6	5858.9	5540.2	5146.5
42.5°	10002.4	9927.4	9764.9	9536.8	9105.6	8686.9	7465.1	6758.9	6730.8	6318.3	5827.7
45°	10455.5	10396.1	10302.4	10358.6	10352.4	10274.2	8721.2	7811.9	7721.3	7187.0	6587.0
47.5°	10346.1	10293.0	10330.5	10768.0	11371.0	11824.1	10183.6	8890.0	8768.1	8071.3	7396.3
50°	9555.5	9577.4	9774.3	10611.7	11964.7	12970.9	11805.4	10118.0	9955.5	8961.8	8165.0
52.5°	8115.0	8168.1	8646.2	9818.0	11899.1	13714.6	13270.9	11386.7	11171.0	9830.5	8865.0
55°	6446.4	6580.8	7199.5	8430.6	11042.9	13767.7	14377.1	12661.6	12424.1	10646.1	9474.3
57.5°	4768.4	4968.4	5684.0	6815.1	9402.4	12927.2	14930.1	13880.2	13592.7	11455.4	10118.0
60°	3024.8	3146.6	3971.6	5305.9	7196.3	10871.1	14858.3	14917.6	14667.7	12261.6	10789.8
62.5°	1931.1	1990.5	2406.1	3784.1	5030.9	8049.4	14074.0	15702.0	15533.2	12995.9	11427.3
65°	1240.5	1265.5	1478.0	2328.0	3424.7	4859.0	12121.0	15786.3	15808.2	13455.3	11821.0
67.5°	1009.3	1021.8	1099.9	1437.4	2421.7	2684.2	8443.1	14586.4	14852.0	13336.5	11686.6
70°	918.7	934.3	1015.5	1146.8	1874.9	1853.0	4087.2	12205.3	12639.7	12652.2	11089.8
72.5°	774.9	796.8	906.2	1084.3	1449.9	1462.4	1731.1	8693.1	9333.7	11308.5	10193.0
75°	646.8	659.3	753.1	956.2	1228.0	1168.7	1215.5	4609.0	5534.0	9068.1	9239.9
77.5°	525.0	537.5	606.2	762.4	1090.5	909.3	956.2	1909.2	2359.2	6155.8	7552.6
80°	375.0	387.5	465.6	593.7	824.9	818.7	709.3	1053.0	1143.7	3327.9	4905.9
82.5°	268.7	278.1	353.1	425.0	571.8	821.8	534.3	715.6	749.9	1474.9	1978.0
85°	181.2	181.2	243.7	281.2	368.7	518.7	431.2	484.3	506.2	699.9	534.3
87.5°	78.1	78.1	131.2	143.7	193.7	240.6	321.9	243.7	250.0	378.1	218.7
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°	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8	2999.8
2.5°	2987.3	2990.4	2996.7	3015.4	3027.9	3046.6	3056.0	3068.5	3068.5	3062.3	3065.4
5°	2981.0	2990.4	3012.3	3046.6	3068.5	3102.9	3127.9	3146.6	3152.9	3146.6	3149.8
7.5°	2977.9	2993.5	3031.0	3081.0	3112.3	3156.0	3190.4	3212.3	3227.9	3221.6	3224.8
10°	2968.5	2993.5	3040.4	3102.9	3149.8	3193.5	3224.8	3234.1	3243.5	3237.3	3234.1
12.5°	2981.0	3009.2	3059.1	3134.1	3187.3	3221.6	3231.0	3215.4	3193.5	3181.0	3177.9
15°	3006.0	3034.2	3084.1	3162.3	3209.1	3221.6	3199.8	3149.8	3099.8	3071.6	3068.5
17.5°	3040.4	3059.1	3099.8	3168.5	3206.0	3190.4	3146.6	3087.3	3049.8	3027.9	3031.0
20°	3062.3	3062.3	3093.5	3146.6	3177.9	3165.4	3112.3	3046.6	2987.3	2959.2	2949.8
22.5°	3093.5	3077.9	3081.0	3127.9	3171.6	3152.9	3040.4	2924.8	2840.4	2809.2	2806.0
25°	3177.9	3134.1	3106.0	3134.1	3237.3	3084.1	2859.2	2724.8	2646.7	2618.6	2621.7
27.5°	3281.0	3221.6	3162.3	3209.1	3290.4	2927.9	2627.9	2474.8	2427.9	2406.1	2415.4
30°	3384.1	3306.0	3227.9	3396.6	3252.9	2684.2	2331.1	2181.1	2140.5	2124.8	2137.3
32.5°	3574.7	3446.6	3352.9	3646.6	3137.3	2406.1	2009.2	1871.7	1834.2	1815.5	1809.2
35°	3893.5	3731.0	3637.2	3865.3	2974.8	2096.7	1715.5	1618.6	1578.0	1537.4	1531.1
37.5°	4352.8	4155.9	4071.6	3990.3	2746.7	1790.5	1490.5	1424.9	1365.5	1303.0	1299.9
40°	4902.8	4646.5	4584.0	4046.6	2431.1	1503.0	1334.3	1271.8	1196.8	1137.4	1140.5
42.5°	5537.1	5209.0	5074.6	4031.0	2040.5	1349.9	1221.8	1153.0	1087.4	1034.3	1031.2
45°	6215.2	5843.3	5534.0	3921.6	1653.0	1243.7	1153.0	1071.8	1006.2	946.8	940.6
47.5°	6965.1	6549.5	5958.9	3709.1	1365.5	1168.7	1112.4	996.8	937.4	899.9	899.9
50°	7721.3	7224.5	6349.5	3387.2	1196.8	1112.4	1053.0	956.2	909.3	878.1	878.1
52.5°	8368.1	7927.5	6671.4	3002.9	1090.5	1065.5	1012.4	937.4	887.4	859.3	856.2
55°	8996.2	8580.6	6958.9	2621.7	1003.1	1003.1	1003.1	921.8	865.6	840.6	837.4
57.5°	9621.2	9268.1	7258.8	2371.7	924.9	949.9	984.3	903.1	846.8	824.9	821.8
60°	10327.4	10093.0	7605.7	2196.7	856.2	893.7	959.3	881.2	815.6	796.8	793.7
62.5°	11077.3	11077.3	7921.3	1949.9	793.7	846.8	921.8	853.1	787.4	771.8	768.7
65°	11664.8	11917.9	8124.4	1581.1	731.2	799.9	878.1	815.6	749.9	746.8	740.6
67.5°	11733.5	12130.4	7996.3	1193.7	674.9	749.9	834.3	774.9	712.4	712.4	703.1
70°	11239.8	11642.9	7596.3	893.7	634.3	699.9	778.1	724.9	665.6	671.8	656.2
72.5°	10414.9	10514.8	6602.6	706.2	587.5	646.8	709.3	668.7	615.6	615.6	593.7
75°	9327.4	8771.2	4796.5	590.6	531.2	584.3	640.6	606.2	559.3	543.7	531.2
77.5°	7424.4	6355.8	2787.3	509.3	484.3	525.0	562.5	537.5	496.8	462.5	462.5
80°	4524.7	3724.7	1231.2	440.6	428.1	459.3	484.3	456.2	421.8	387.5	378.1
82.5°	1721.7	1437.4	596.8	378.1	375.0	393.7	412.5	384.3	359.3	343.7	296.9
85°	471.8	434.3	409.3	315.6	309.4	306.2	328.1	315.6	281.2	231.2	206.2
87.5°	178.1	203.1	221.9	193.7	206.2	190.6	218.7	200.0	178.1	115.6	103.1
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)