

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: P399510

Luminaire Tested: **ARCH-L-PA3-150-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399510
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-PA3-150-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 23739 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

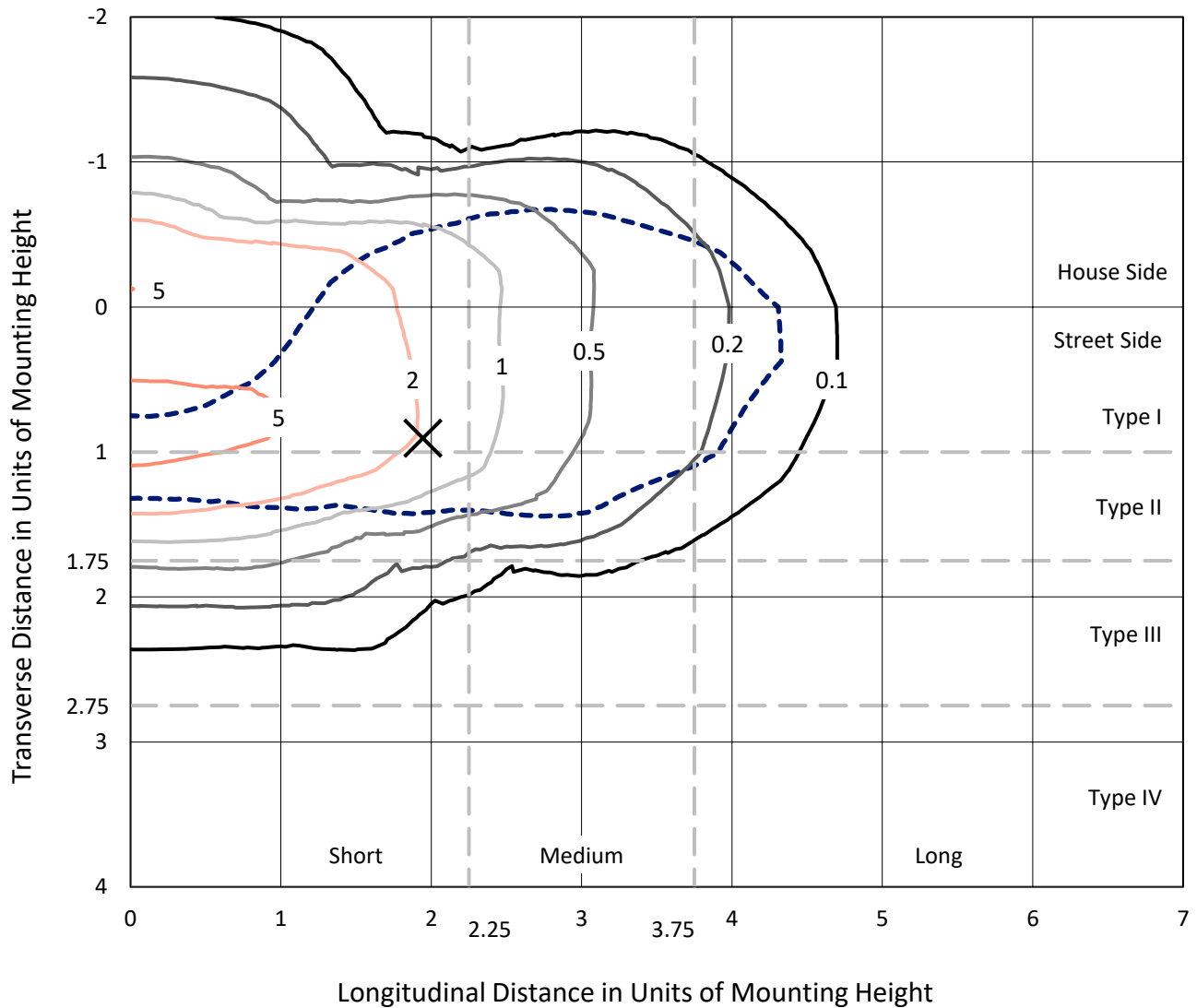
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

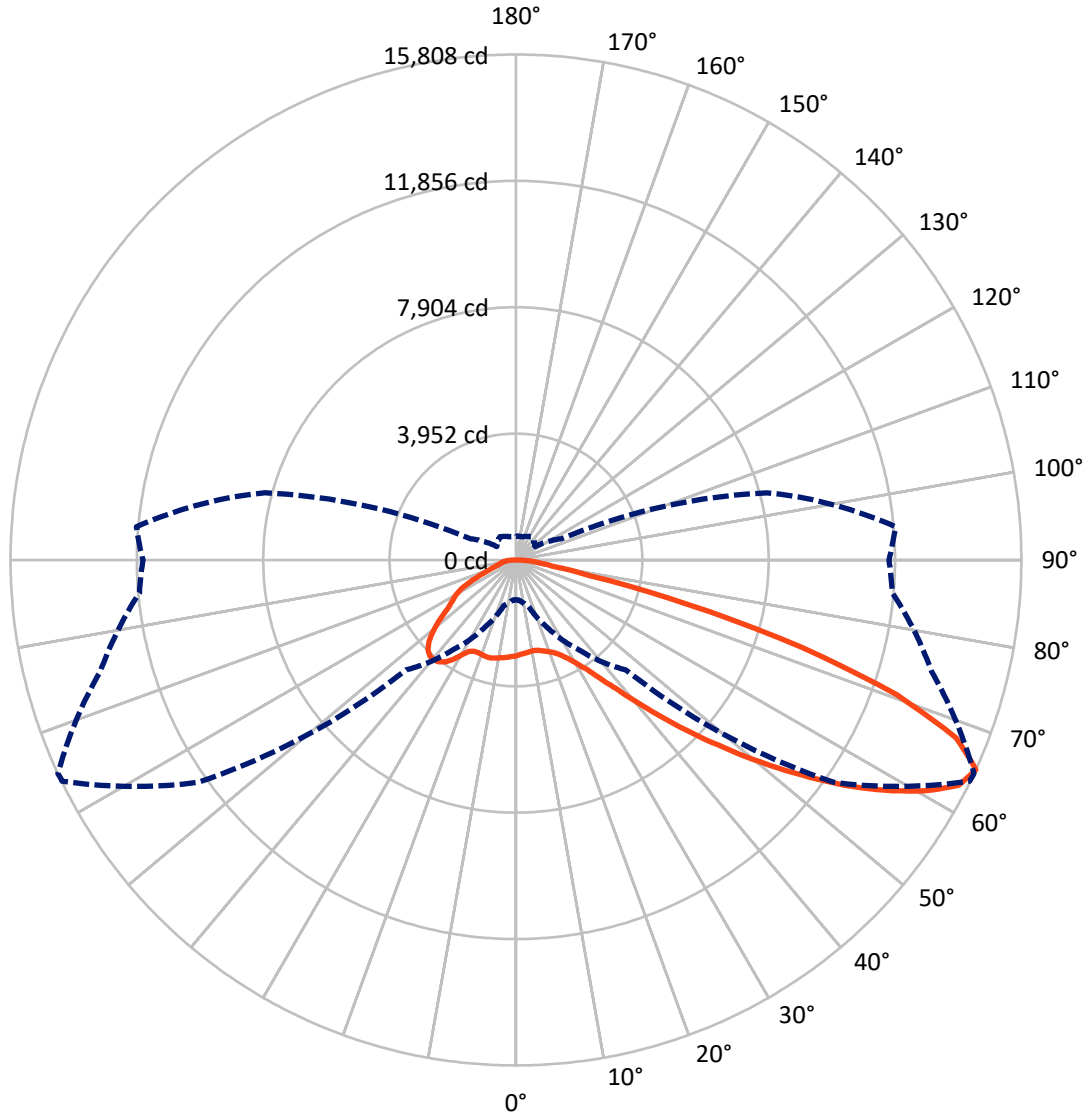
✕ Max cd
 - - - 1/2 Max cd



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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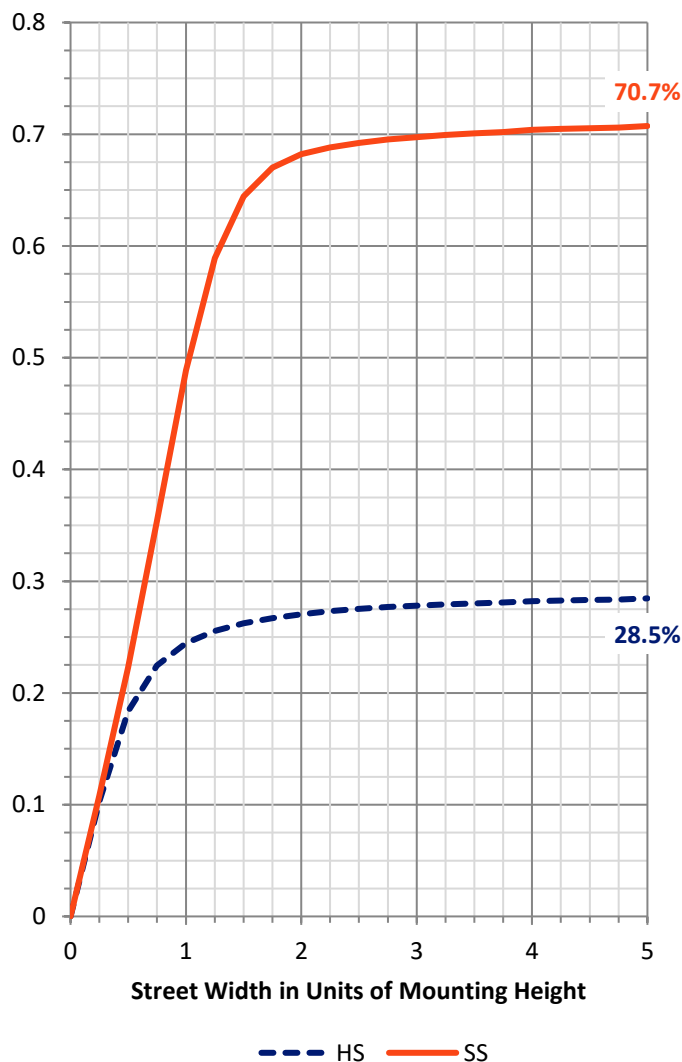
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6863.3	0.0	6863.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16875.7	0.0	16875.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	23739.0	0.0	23739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.2
10°-20°	853.2	3.6
20°-30°	1515.6	6.4
30°-40°	2564.0	10.8
40°-50°	4463.4	18.8
50°-60°	5768.1	24.3
60°-70°	5047.4	21.3
70°-80°	2745.4	11.6
80°-90°	496.0	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°	23739.0	100.0
0°-180°	23739.0	100.0

Coefficient of Utilization

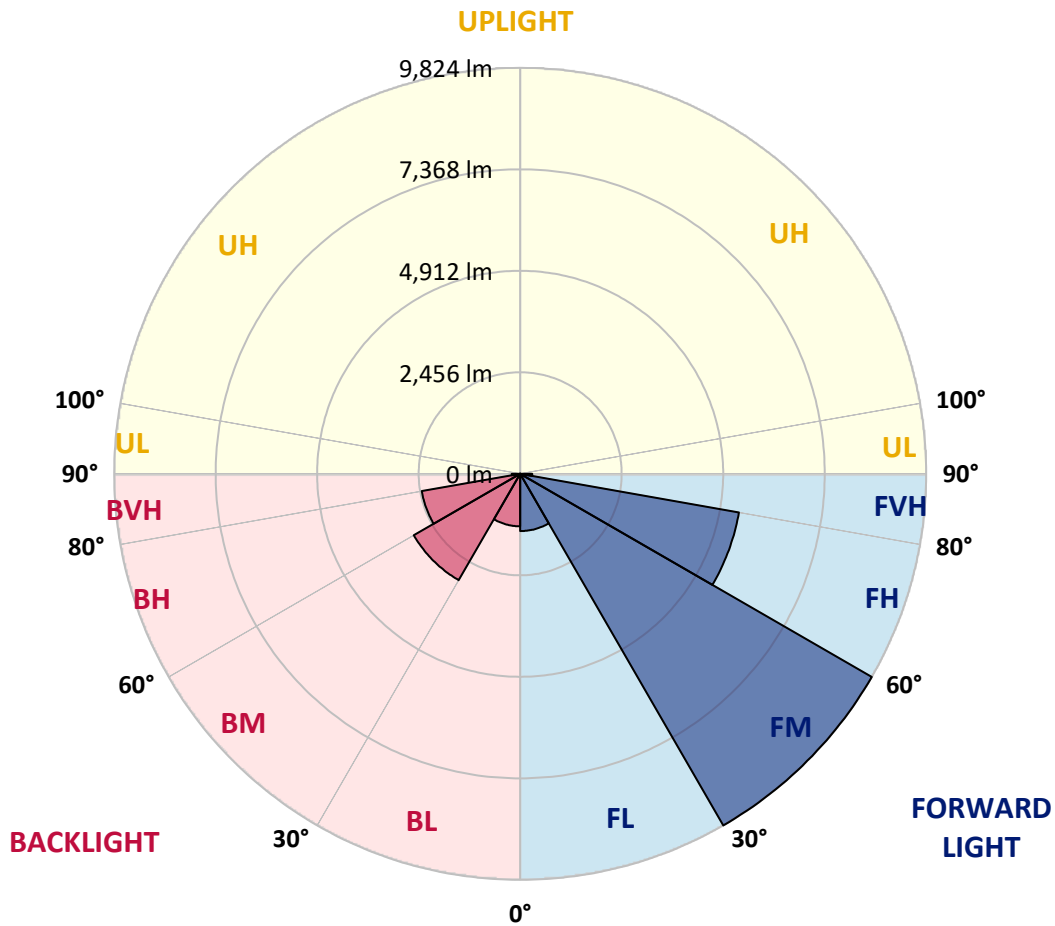


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.1	5.8			
FM (30°-60°)	9823.9	41.4			
FH (60°-80°)	5374.8	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°)	2971.7	12.5	B3/5000		
BH (60°-80°)	2418.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	204.1	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°	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7
2.5°	2946.5	2943.4	2937.2	2943.4	2946.5	2952.8	2949.7	2955.9	2952.8	2962.2	2977.8
5°	2871.5	2865.3	2862.2	2877.8	2887.2	2902.8	2909.0	2930.9	2927.8	2943.4	2968.4
7.5°	2787.2	2787.2	2784.1	2802.8	2815.3	2843.4	2865.3	2902.8	2905.9	2934.0	2962.2
10°	2721.6	2724.7	2721.6	2737.2	2755.9	2790.3	2827.8	2880.9	2884.0	2924.7	2952.8
12.5°	2696.6	2696.6	2696.6	2718.4	2743.4	2790.3	2834.0	2890.3	2896.5	2940.3	2965.3
15°	2730.9	2734.1	2727.8	2749.7	2777.8	2834.0	2874.7	2934.0	2940.3	2980.9	2996.5
17.5°	2852.8	2865.3	2849.7	2862.2	2855.9	2899.7	2937.2	2996.5	2999.7	3034.0	3040.3
20°	3093.4	3105.9	3080.9	3065.3	3009.0	3005.9	3021.5	3068.4	3068.4	3090.3	3074.6
22.5°	3465.2	3477.7	3434.0	3374.6	3240.2	3174.6	3140.3	3162.1	3159.0	3168.4	3127.8
25°	3958.9	3955.8	3902.7	3793.3	3577.7	3418.4	3334.0	3299.6	3299.6	3280.9	3230.9
27.5°	4571.3	4524.5	4430.7	4299.5	3999.5	3777.7	3596.5	3509.0	3493.3	3437.1	3343.4
30°	5224.4	5190.0	5055.7	4865.1	4518.2	4233.9	3933.9	3758.9	3749.6	3627.7	3487.1
32.5°	5993.1	5936.8	5786.8	5558.7	5143.2	4743.2	4368.2	4102.6	4087.0	3893.3	3699.6
35°	6980.4	6933.6	6643.0	6414.9	5880.6	5355.6	4911.9	4558.8	4546.3	4308.9	4062.0
37.5°	8164.7	8042.8	7761.6	7333.5	6771.1	6149.3	5586.9	5143.2	5127.5	4865.1	4552.6
40°	9220.8	9111.4	8861.5	8467.8	7864.7	7174.2	6411.8	5874.3	5858.7	5540.0	5146.3
42.5°	10002.0	9927.0	9764.5	9536.4	9105.2	8686.5	7464.8	6758.6	6730.5	6318.0	5827.4
45°	10455.0	10395.7	10301.9	10358.2	10351.9	10273.8	8720.9	7811.6	7721.0	7186.7	6586.7
47.5°	10345.7	10292.6	10330.0	10767.5	11370.6	11823.6	10183.2	8889.6	8767.7	8070.9	7396.0
50°	9555.1	9577.0	9773.9	10611.3	11964.2	12970.4	11804.9	10117.6	9955.1	8961.5	8164.7
52.5°	8114.7	8167.8	8645.9	9817.6	11898.6	13714.0	13270.3	11386.2	11170.6	9830.1	8864.6
55°	6446.1	6580.5	7199.2	8430.3	11042.5	13767.1	14376.5	12661.0	12423.6	10645.6	9473.9
57.5°	4768.2	4968.2	5683.7	6814.8	9402.0	12926.6	14929.5	13879.6	13592.2	11454.9	10117.6
60°	3024.6	3146.5	3971.4	5305.6	7196.0	10870.6	14857.6	14917.0	14667.0	12261.1	10789.4
62.5°	1931.0	1990.4	2406.0	3783.9	5030.7	8049.1	14073.4	15701.3	15532.6	12995.4	11426.8
65°	1240.5	1265.5	1478.0	2327.9	3424.6	4858.8	12120.5	15785.7	15807.5	13454.7	11820.5
67.5°	1009.3	1021.8	1099.9	1437.3	2421.6	2684.1	8442.8	14585.8	14851.4	13335.9	11686.1
70°	918.6	934.3	1015.5	1146.7	1874.8	1852.9	4087.0	12204.8	12639.2	12651.7	11089.3
72.5°	774.9	796.8	906.1	1084.2	1449.8	1462.3	1731.0	8692.7	9333.3	11308.1	10192.6
75°	646.8	659.3	753.0	956.1	1228.0	1168.6	1215.5	4608.8	5533.7	9067.7	9239.6
77.5°	524.9	537.4	606.2	762.4	1090.5	909.3	956.1	1909.2	2359.1	6155.5	7552.2
80°	375.0	387.5	465.6	593.7	824.9	818.7	709.3	1053.0	1143.6	3327.7	4905.7
82.5°	268.7	278.1	353.1	425.0	571.8	821.8	534.3	715.5	749.9	1474.8	1977.9
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	321.8	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°	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7	2999.7
2.5°	2987.2	2990.3	2996.5	3015.3	3027.8	3046.5	3055.9	3068.4	3068.4	3062.1	3065.3
5°	2980.9	2990.3	3012.1	3046.5	3068.4	3102.8	3127.8	3146.5	3152.8	3146.5	3149.6
7.5°	2977.8	2993.4	3030.9	3080.9	3112.1	3155.9	3190.3	3212.1	3227.7	3221.5	3224.6
10°	2968.4	2993.4	3040.3	3102.8	3149.6	3193.4	3224.6	3234.0	3243.4	3237.1	3234.0
12.5°	2980.9	3009.0	3059.0	3134.0	3187.1	3221.5	3230.9	3215.3	3193.4	3180.9	3177.8
15°	3005.9	3034.0	3084.0	3162.1	3209.0	3221.5	3199.6	3149.6	3099.6	3071.5	3068.4
17.5°	3040.3	3059.0	3099.6	3168.4	3205.9	3190.3	3146.5	3087.1	3049.6	3027.8	3030.9
20°	3062.1	3062.1	3093.4	3146.5	3177.8	3165.3	3112.1	3046.5	2987.2	2959.0	2949.7
22.5°	3093.4	3077.8	3080.9	3127.8	3171.5	3152.8	3040.3	2924.7	2840.3	2809.0	2805.9
25°	3177.8	3134.0	3105.9	3134.0	3237.1	3084.0	2859.0	2724.7	2646.6	2618.4	2621.6
27.5°	3280.9	3221.5	3162.1	3209.0	3290.2	2927.8	2627.8	2474.7	2427.8	2406.0	2415.3
30°	3384.0	3305.9	3227.7	3396.5	3252.7	2684.1	2331.0	2181.0	2140.4	2124.8	2137.3
32.5°	3574.6	3446.5	3352.7	3646.5	3137.1	2406.0	2009.1	1871.7	1834.2	1815.4	1809.2
35°	3893.3	3730.8	3637.1	3865.2	2974.7	2096.6	1715.4	1618.6	1577.9	1537.3	1531.1
37.5°	4352.6	4155.8	4071.4	3990.2	2746.6	1790.4	1490.5	1424.8	1365.5	1303.0	1299.8
40°	4902.6	4646.3	4583.8	4046.4	2431.0	1503.0	1334.2	1271.7	1196.7	1137.4	1140.5
42.5°	5536.9	5208.8	5074.4	4030.8	2040.4	1349.8	1221.7	1153.0	1087.4	1034.3	1031.1
45°	6214.9	5843.1	5533.7	3921.4	1652.9	1243.6	1153.0	1071.8	1006.1	946.8	940.5
47.5°	6964.8	6549.2	5958.7	3708.9	1365.5	1168.6	1112.4	996.8	937.4	899.9	899.9
50°	7721.0	7224.2	6349.3	3387.1	1196.7	1112.4	1053.0	956.1	909.3	878.0	878.0
52.5°	8367.8	7927.2	6671.1	3002.8	1090.5	1065.5	1012.4	937.4	887.4	859.3	856.2
55°	8995.8	8580.3	6958.6	2621.6	1003.0	1003.0	1003.0	921.8	865.5	840.5	837.4
57.5°	9620.8	9267.7	7258.5	2371.6	924.9	949.9	984.3	903.0	846.8	824.9	821.8
60°	10326.9	10092.6	7605.4	2196.6	856.2	893.6	959.3	881.1	815.5	796.8	793.7
62.5°	11076.8	11076.8	7921.0	1949.8	793.7	846.8	921.8	853.0	787.4	771.8	768.7
65°	11664.3	11917.4	8124.1	1581.1	731.2	799.9	878.0	815.5	749.9	746.8	740.5
67.5°	11733.0	12129.8	7995.9	1193.6	674.9	749.9	834.3	774.9	712.4	712.4	703.0
70°	11239.3	11642.4	7596.0	893.6	634.3	699.9	778.0	724.9	665.5	671.8	656.2
72.5°	10414.4	10514.4	6602.4	706.2	587.4	646.8	709.3	668.7	615.6	615.6	593.7
75°	9327.0	8770.9	4796.3	590.6	531.2	584.3	640.6	606.2	559.3	543.7	531.2
77.5°	7424.1	6355.5	2787.2	509.3	484.3	524.9	562.4	537.4	496.8	462.4	462.4
80°	4524.5	3724.6	1231.1	440.6	428.1	459.3	484.3	456.2	421.8	387.5	378.1
82.5°	1721.7	1437.3	596.8	378.1	375.0	393.7	412.5	384.3	359.3	343.7	296.8
85°	471.8	434.3	409.3	315.6	309.3	306.2	328.1	315.6	281.2	231.2	206.2
87.5°	178.1	203.1	221.8	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)