

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: P399784

Luminaire Tested: **ARCH-L-PA3-190-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25100 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

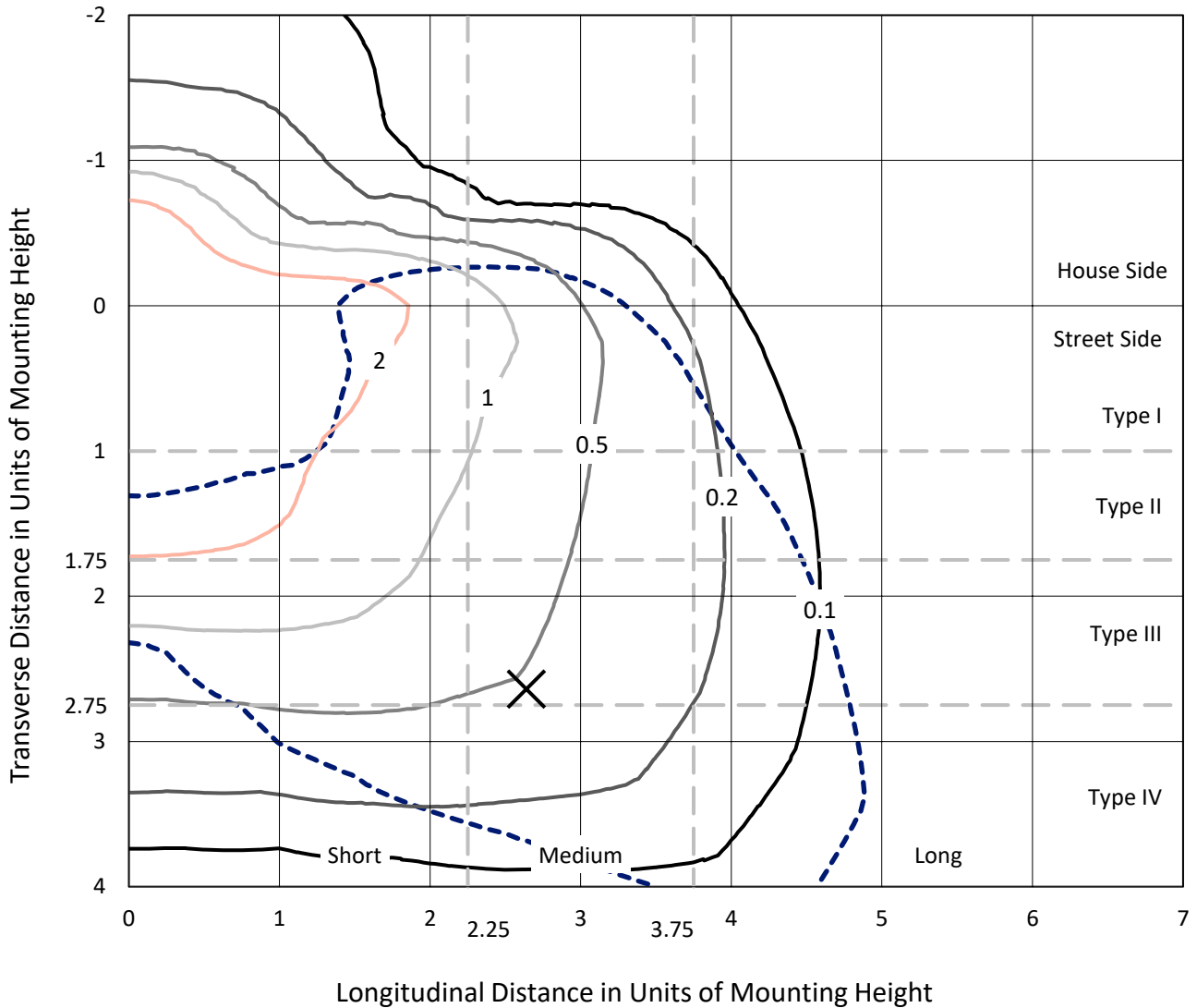
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

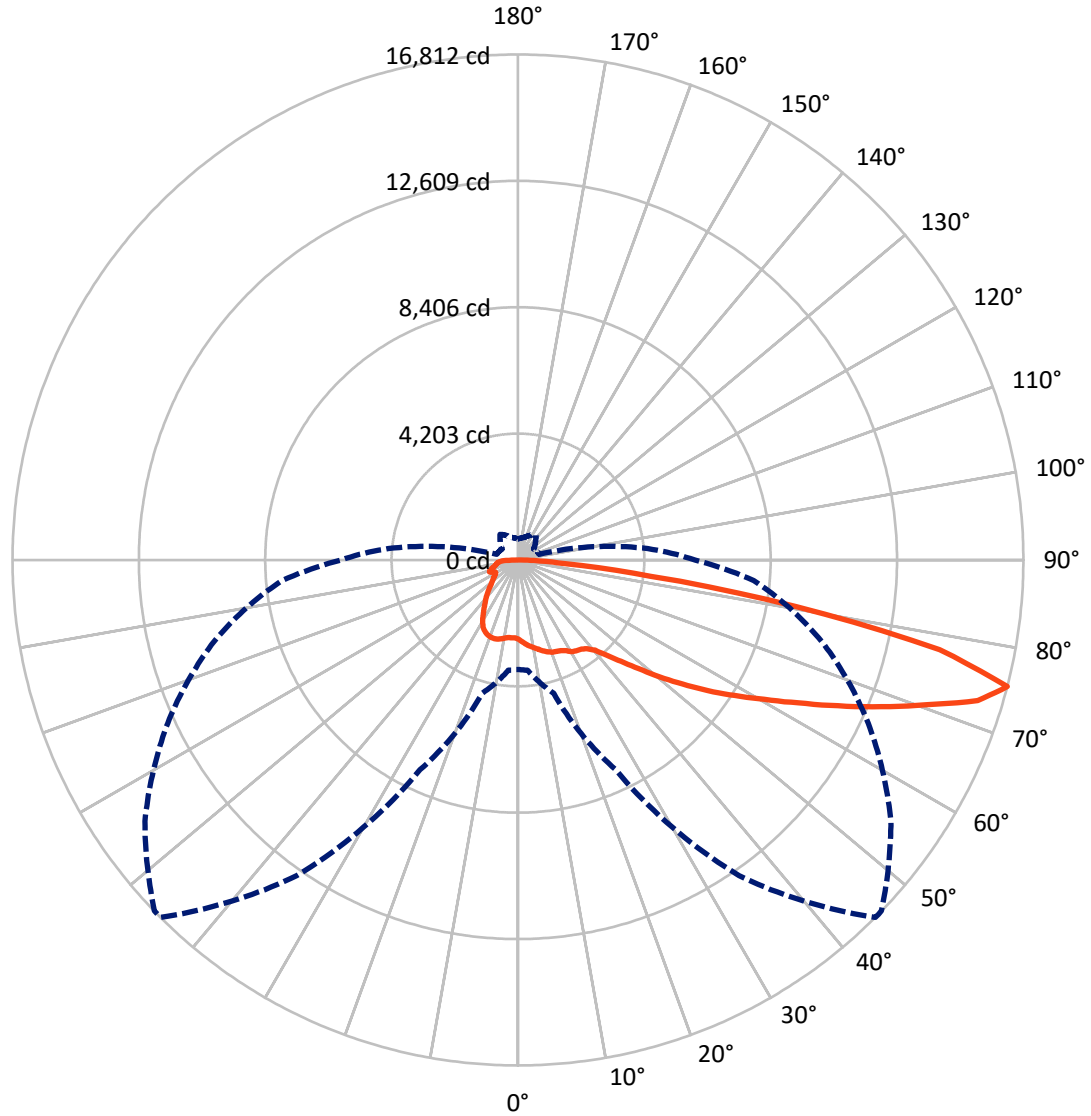
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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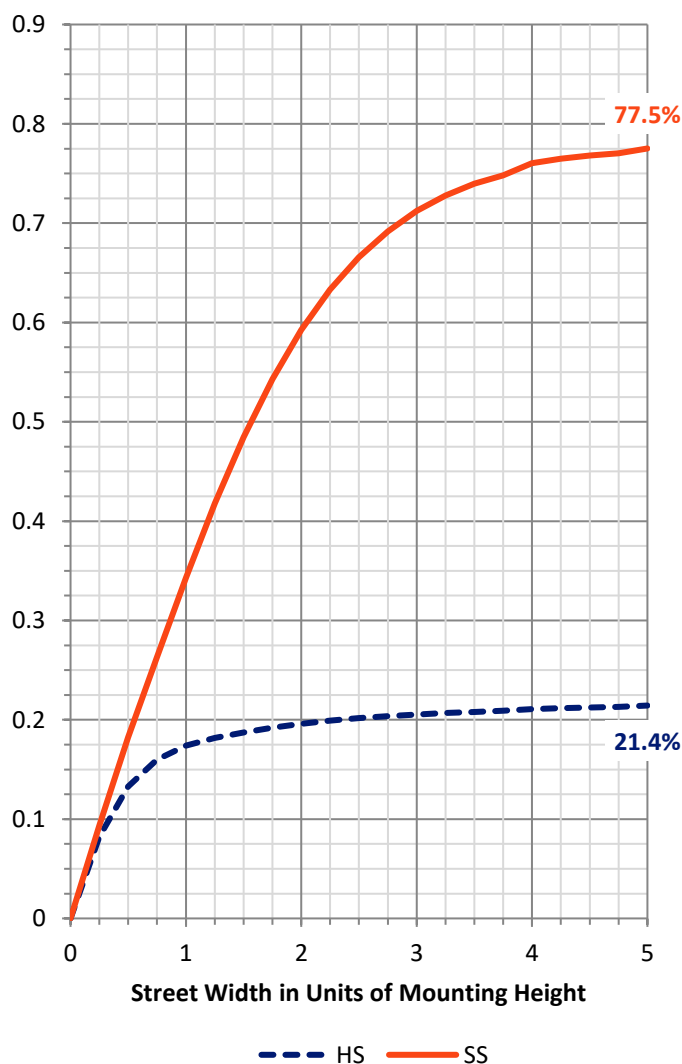
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5547.0	0.0	5547.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	19553.0	0.0	19553.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	25100.0	0.0	25100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	1.0
10°-20°	829.6	3.3
20°-30°	1414.4	5.6
30°-40°	1981.8	7.9
40°-50°	2911.5	11.6
50°-60°	4633.7	18.5
60°-70°	6591.4	26.3
70°-80°	5519.0	22.0
80°-90°	957.8	3.8
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°	25100.0	100.0
0°-180°	25100.0	100.0

Coefficient of Utilization

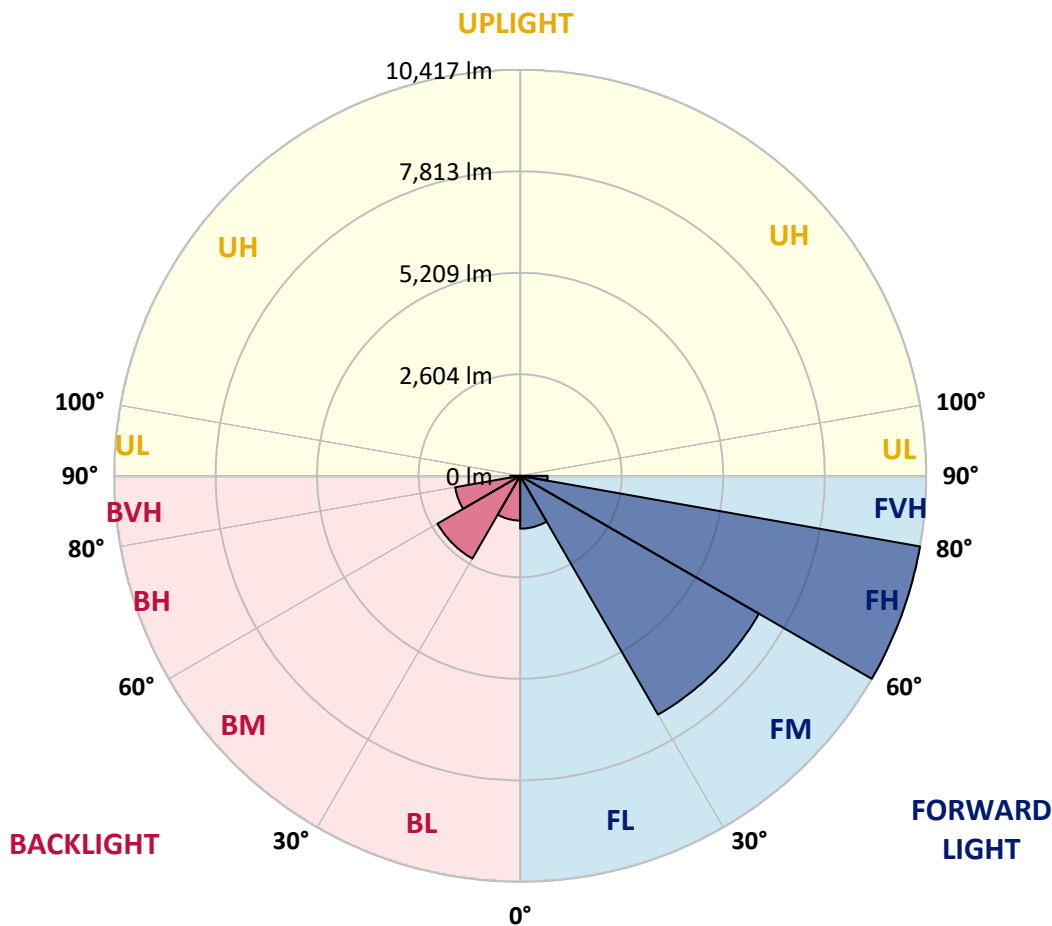


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.8	5.4			
FM (30°-60°)	7074.9	28.2			
FH (60°-80°)	10417.1	41.5			G4/12000
FVH (80°-90°)	704.2	2.8			G4/750
BL (0°-30°)	1148.0	4.6	B3/2500		
BM (30°-60°)	2452.0	9.8	B2/2500		
BH (60°-80°)	1693.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	253.7	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2787.0	2773.6	2766.8	2766.8	2740.0	2723.2	2719.9	2696.4	2676.3	2656.2	2639.4
5°	2947.9	2937.9	2917.8	2901.0	2864.1	2817.2	2810.4	2760.1	2709.8	2662.9	2622.6
7.5°	3095.5	3075.4	3051.9	3018.4	2958.0	2894.3	2884.2	2813.8	2743.4	2672.9	2619.3
10°	3219.6	3199.5	3165.9	3119.0	3041.9	2964.7	2954.7	2880.9	2807.1	2723.2	2646.1
12.5°	3337.0	3320.2	3269.9	3206.2	3115.6	3045.2	3035.1	2971.4	2894.3	2800.4	2699.8
15°	3437.6	3420.8	3367.2	3293.4	3189.4	3135.8	3122.3	3062.0	2984.8	2884.2	2780.3
17.5°	3487.9	3487.9	3430.9	3350.4	3253.1	3212.9	3202.8	3129.1	3058.6	2961.4	2857.4
20°	3504.7	3511.4	3471.1	3373.9	3290.0	3273.3	3263.2	3202.8	3122.3	3028.4	2931.2
22.5°	3514.7	3528.1	3494.6	3383.9	3313.5	3303.4	3296.7	3256.5	3192.8	3102.2	3005.0
25°	3548.3	3548.3	3524.8	3400.7	3343.7	3340.3	3340.3	3316.9	3273.3	3196.1	3098.9
27.5°	3598.6	3595.2	3565.0	3437.6	3410.8	3420.8	3417.5	3414.1	3383.9	3306.8	3202.8
30°	3682.4	3682.4	3648.9	3511.4	3494.6	3538.2	3541.6	3548.3	3501.3	3380.6	3296.7
32.5°	3809.9	3796.4	3762.9	3585.2	3558.3	3598.6	3605.3	3601.9	3561.7	3447.7	3407.4
35°	4202.3	4172.1	4051.3	3749.5	3615.3	3638.8	3642.2	3658.9	3665.7	3575.1	3555.0
37.5°	4889.8	4849.5	4665.1	4138.5	3796.4	3739.4	3736.1	3779.7	3816.6	3736.1	3736.1
40°	5637.7	5604.1	5496.8	4809.3	4131.8	3944.0	3930.6	3970.8	4017.8	3960.8	3977.6
42.5°	6281.6	6308.4	6318.5	5520.3	4634.9	4326.3	4289.4	4232.4	4306.2	4255.9	4323.0
45°	6764.5	6751.1	6935.6	6248.0	5285.5	4805.9	4755.6	4601.3	4695.3	4691.9	4839.5
47.5°	7277.6	7254.2	7331.3	6932.2	6026.7	5392.8	5315.7	5087.6	5228.5	5325.8	5570.6
50°	7763.9	7770.6	7797.5	7472.2	6831.6	6107.2	6009.9	5704.7	5906.0	6110.5	6456.0
52.5°	8397.8	8350.8	8317.3	8102.7	7733.8	6851.7	6788.0	6439.2	6720.9	6962.4	7421.9
55°	8951.2	8921.0	8900.9	8890.8	8488.3	7673.4	7606.3	7244.1	7649.9	7821.0	8498.4
57.5°	9541.4	9524.7	9632.0	9803.0	9642.0	8508.5	8438.0	8089.3	8542.0	8662.7	9665.5
60°	9974.1	9984.1	10279.3	10715.2	10604.6	9414.0	9330.1	9021.6	9410.6	9517.9	10832.6
62.5°	9977.4	10078.0	10762.2	11543.6	11671.1	10457.0	10359.7	10024.4	10302.7	10302.7	11879.0
65°	9024.9	9139.0	10675.0	11748.2	12751.0	11697.9	11604.0	11077.4	11181.4	11040.6	12861.6
67.5°	8075.8	8210.0	9655.5	11765.0	13508.9	13026.0	12915.3	12130.5	11952.8	11597.3	13549.2
70°	7445.3	7539.2	8746.6	11547.0	13965.0	14414.4	14330.6	13129.9	12559.8	12063.4	13404.9
72.5°	6268.2	6234.6	7388.3	10510.7	14219.9	15990.7	15920.3	14216.6	13086.3	11842.1	11432.9
75°	3638.8	3679.1	4584.6	7700.2	12818.0	16812.4	16805.7	15145.5	12854.9	10460.4	7878.0
77.5°	1049.7	1079.9	1505.8	3383.9	8106.0	14340.6	14800.1	13851.0	10866.2	7455.4	4084.9
80°	459.5	482.9	654.0	1126.9	3491.3	9367.0	9769.5	9367.0	6553.2	3420.8	1603.1
82.5°	271.7	288.4	425.9	697.6	1673.5	4457.1	5000.4	4366.6	2827.2	1452.2	664.0
85°	154.3	161.0	244.8	442.7	1053.1	1559.5	1750.7	1640.0	1378.4	825.0	348.8
87.5°	70.4	73.8	120.7	207.9	590.3	526.5	546.7	724.4	798.2	503.1	174.4
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°	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2632.7	2622.6	2602.5	2595.8	2585.7	2589.1	2592.5	2592.5	2595.8	2585.7	2585.7
5°	2605.9	2589.1	2569.0	2569.0	2569.0	2595.8	2619.3	2632.7	2639.4	2639.4	2632.7
7.5°	2595.8	2575.7	2552.2	2558.9	2565.6	2599.2	2642.8	2686.4	2699.8	2699.8	2693.1
10°	2615.9	2595.8	2579.0	2589.1	2605.9	2632.7	2666.2	2706.5	2740.0	2743.4	2740.0
12.5°	2662.9	2639.4	2622.6	2642.8	2662.9	2679.6	2696.4	2713.2	2756.8	2763.5	2763.5
15°	2740.0	2716.5	2696.4	2713.2	2719.9	2719.9	2719.9	2719.9	2763.5	2770.2	2770.2
17.5°	2817.2	2797.0	2776.9	2780.3	2760.1	2733.3	2723.2	2719.9	2743.4	2763.5	2766.8
20°	2890.9	2874.2	2854.0	2820.5	2770.2	2719.9	2703.1	2703.1	2716.5	2746.7	2746.7
22.5°	2971.4	2951.3	2917.8	2840.6	2756.8	2686.4	2669.6	2679.6	2696.4	2736.7	2733.3
25°	3062.0	3035.1	2978.1	2833.9	2713.2	2629.3	2632.7	2662.9	2693.1	2736.7	2736.7
27.5°	3162.6	3125.7	3011.7	2780.3	2615.9	2535.4	2565.6	2636.0	2679.6	2726.6	2733.3
30°	3273.3	3239.7	3038.5	2686.4	2458.3	2384.5	2458.3	2572.3	2639.4	2683.0	2693.1
32.5°	3407.4	3380.6	3062.0	2565.6	2253.7	2190.0	2297.3	2438.2	2545.5	2595.8	2605.9
35°	3575.1	3548.3	3092.2	2428.1	2062.6	1995.5	2092.7	2237.0	2377.8	2441.5	2461.7
37.5°	3793.1	3752.8	3119.0	2280.6	1901.6	1824.4	1871.4	2002.2	2129.6	2216.8	2240.3
40°	4071.5	4007.7	3142.5	2112.9	1760.7	1673.5	1690.3	1754.0	1827.8	1904.9	1935.1
42.5°	4463.8	4336.4	3145.8	1935.1	1616.5	1536.0	1529.3	1549.4	1549.4	1549.4	1559.5
45°	5010.5	4769.0	3152.5	1767.4	1468.9	1385.1	1365.0	1358.3	1308.0	1210.7	1204.0
47.5°	5701.4	5335.8	3182.7	1626.6	1314.7	1240.9	1214.1	1187.2	1093.3	992.7	972.6
50°	6586.8	5993.2	3243.1	1492.4	1183.9	1133.6	1100.0	1036.3	932.3	855.2	835.1
52.5°	7606.3	6774.6	3300.1	1351.6	1086.6	1053.1	1012.8	935.7	825.0	778.1	771.4
55°	8776.8	7646.6	3414.1	1227.5	1002.8	979.3	942.4	868.6	784.8	751.2	747.9
57.5°	9974.1	8622.5	3575.1	1116.8	922.3	908.9	908.9	845.1	791.5	778.1	778.1
60°	11127.7	9460.9	3451.0	1012.8	848.5	855.2	918.9	902.2	861.9	878.7	888.7
62.5°	12023.2	9953.9	2800.4	929.0	794.8	855.2	1019.5	1019.5	972.6	965.9	965.9
65°	12405.5	9947.2	1968.7	865.3	774.7	939.1	1136.9	1083.3	959.2	912.2	902.2
67.5°	12308.3	9511.2	1358.3	821.7	768.0	1026.2	1190.6	1039.7	898.8	858.6	828.4
70°	11453.1	8589.0	1046.4	781.4	757.9	989.4	1173.8	989.4	851.9	815.0	788.1
72.5°	9239.6	6888.6	868.6	741.2	717.7	915.6	1116.8	942.4	815.0	774.7	747.9
75°	5892.5	4333.0	734.5	687.5	640.6	821.7	1039.7	895.5	774.7	721.1	700.9
77.5°	2833.9	1868.0	640.6	623.8	576.8	761.3	962.5	835.1	721.1	677.5	664.0
80°	1147.0	855.2	556.7	560.1	529.9	724.4	908.9	778.1	667.4	620.4	597.0
82.5°	597.0	496.4	469.5	482.9	482.9	690.9	868.6	731.1	620.4	600.3	523.2
85°	322.0	308.5	362.2	389.0	419.2	623.8	808.3	680.8	566.8	486.3	469.5
87.5°	157.6	201.2	204.6	234.8	291.8	499.7	680.8	570.1	472.9	392.4	385.7
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)