

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: P400009

Luminaire Tested: **ARCH-L-PA3-220-740-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400009  
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-PA3-220-740-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30825 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

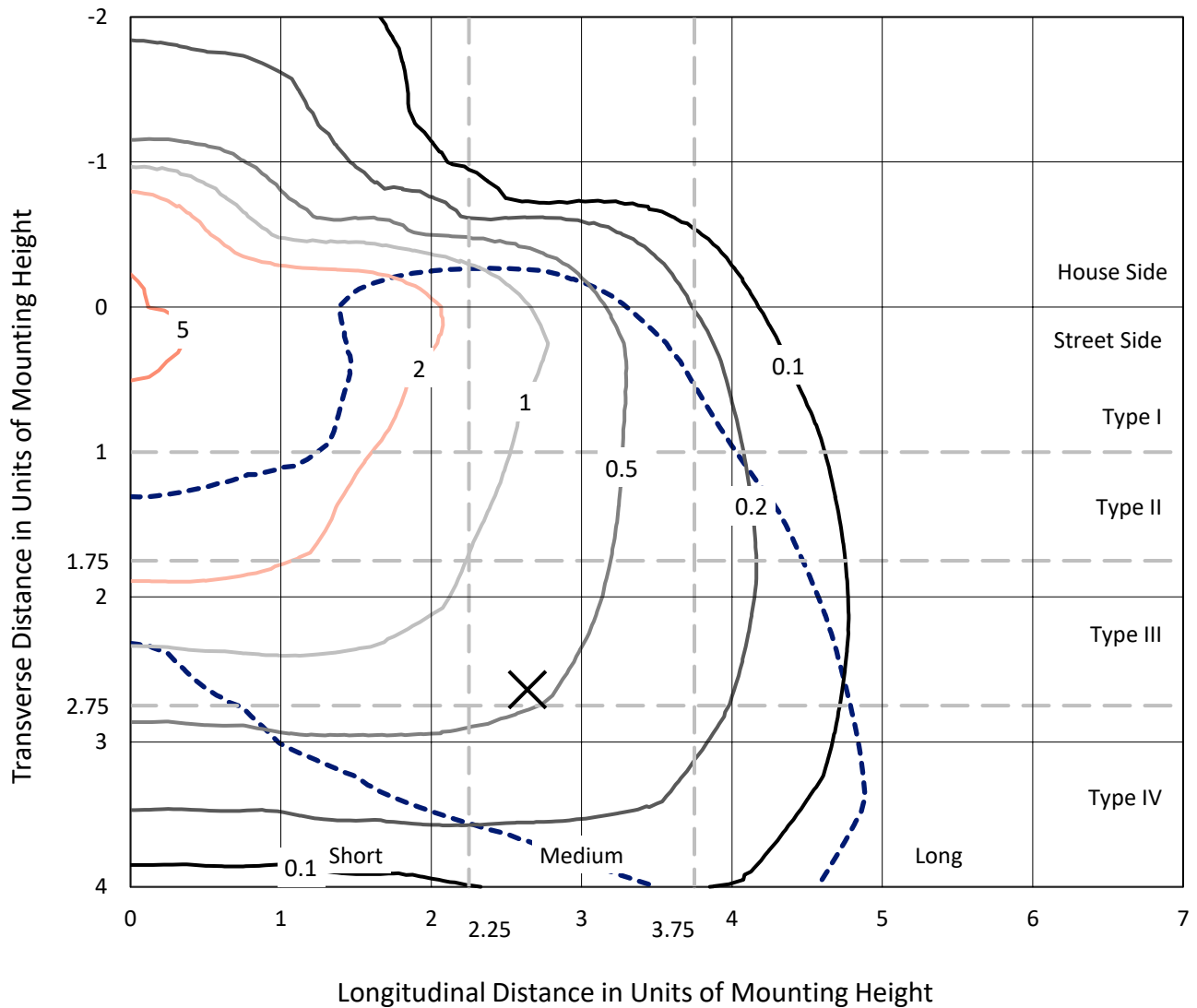
Input Watts (W): 222  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

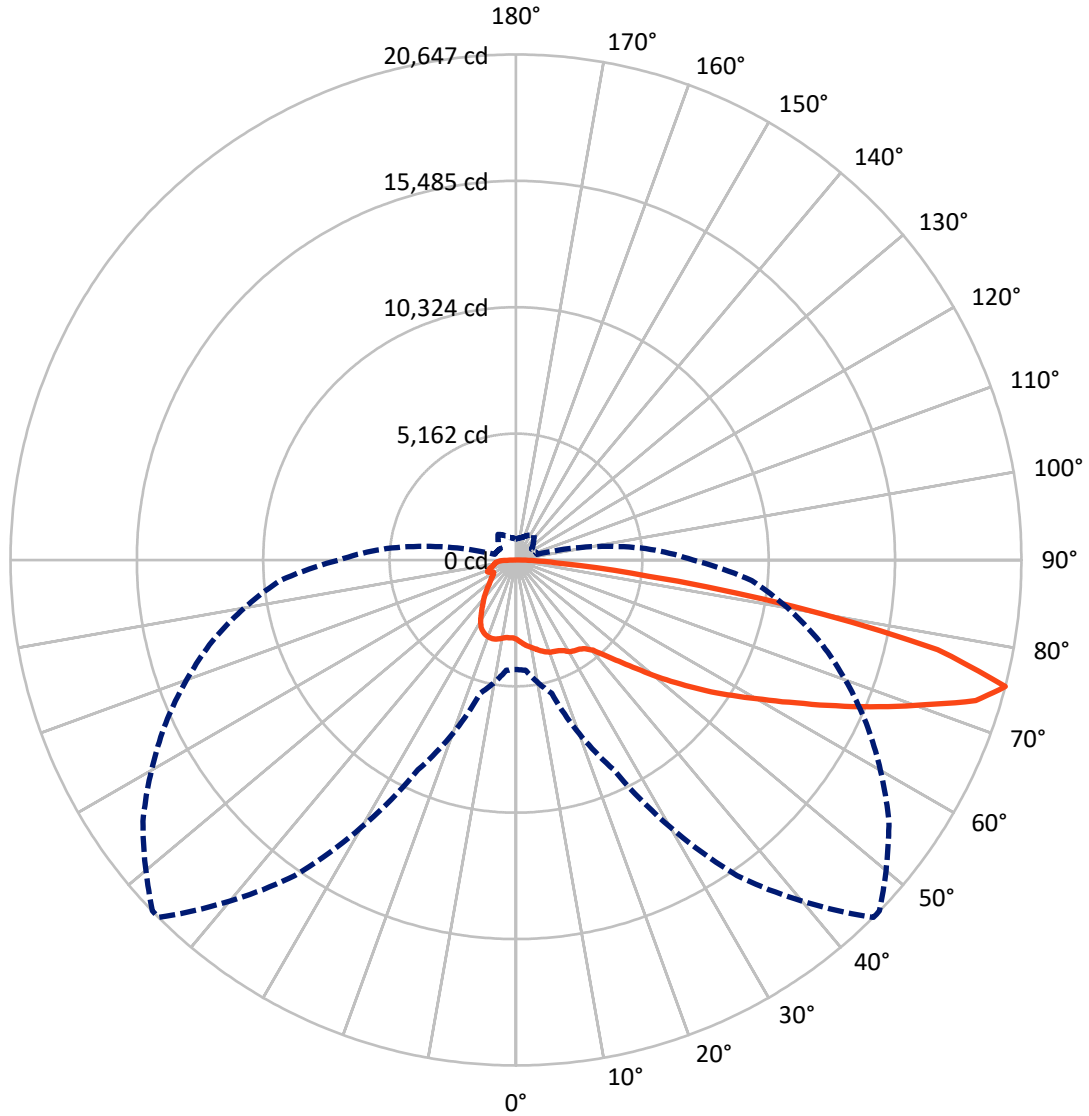
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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

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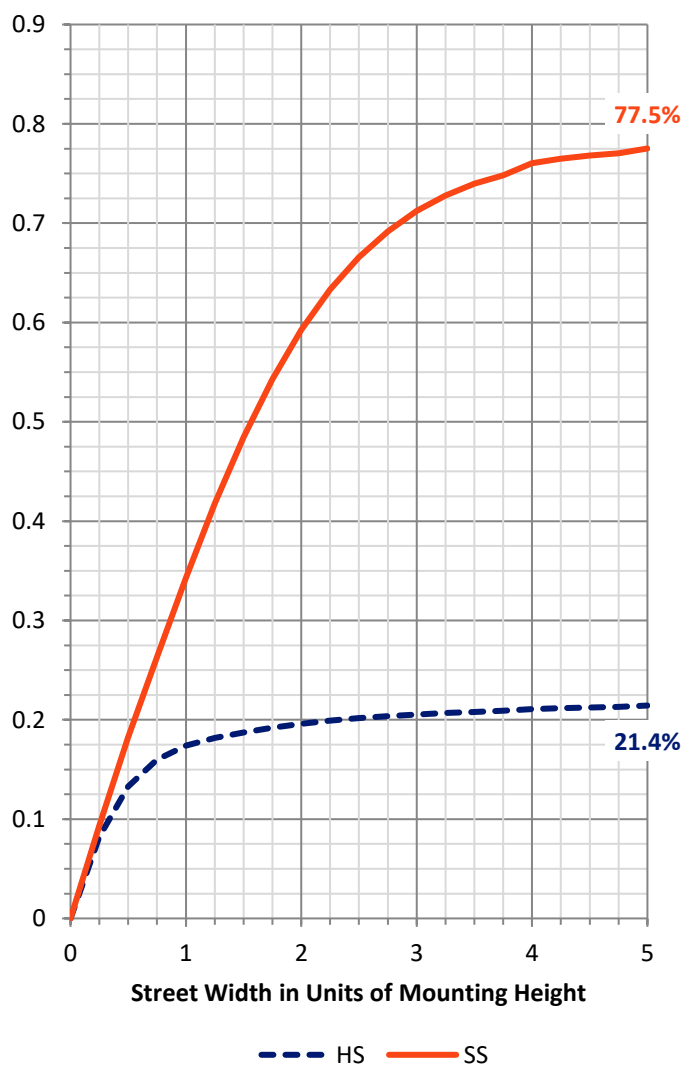
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6812.2	0.0	6812.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	24012.8	0.0	24012.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	30825.0	0.0	30825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.3	1.0
10°-20°	1018.9	3.3
20°-30°	1737.0	5.6
30°-40°	2433.8	7.9
40°-50°	3575.6	11.6
50°-60°	5690.6	18.5
60°-70°	8094.8	26.3
70°-80°	6777.8	22.0
80°-90°	1176.3	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°	30825.0	100.0
0°-180°	30825.0	100.0

**Coefficient of Utilization**

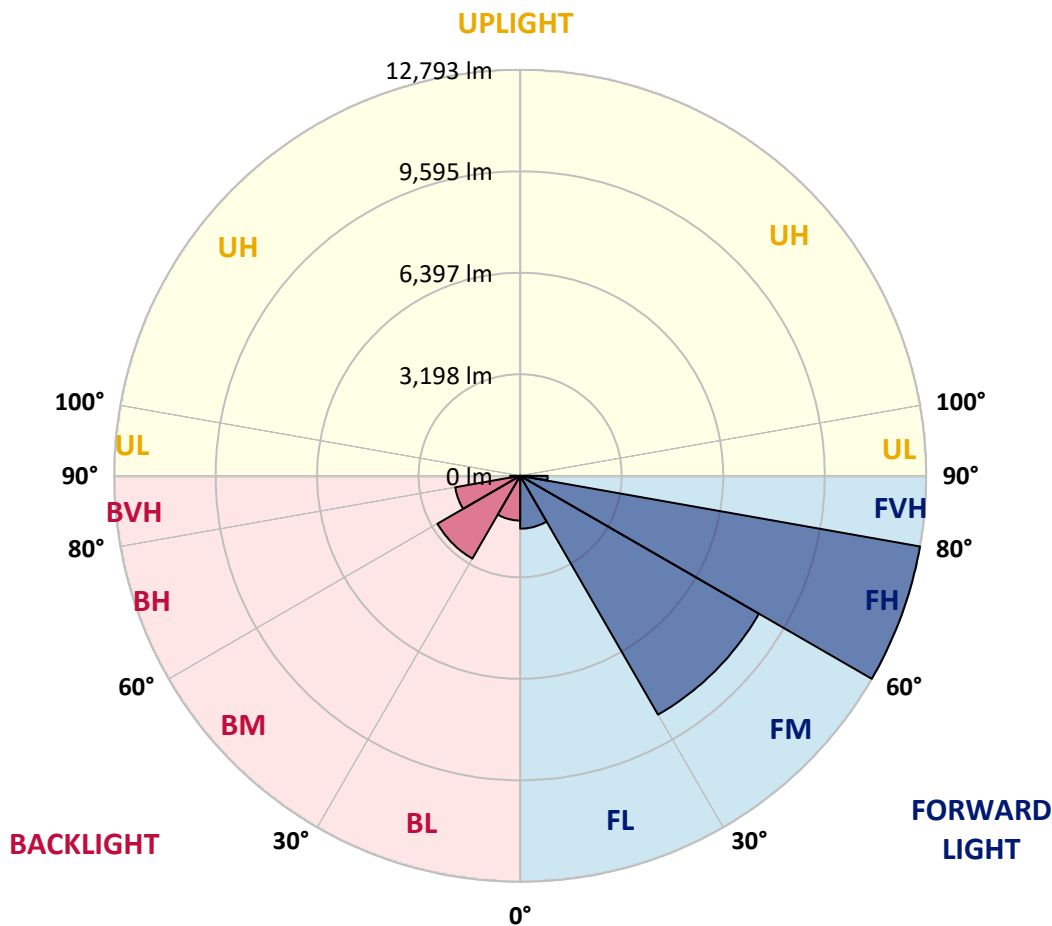


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.3	5.4			
FM (30°-60°)	8688.6	28.2			
FH (60°-80°)	12793.1	41.5			G5
FVH (80°-90°)	864.8	2.8			G5
BL (0°-30°)	1409.9	4.6	B3/2500		
BM (30°-60°)	3011.3	9.8	B3/5000		
BH (60°-80°)	2079.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	311.5	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3
2.5°	3422.6	3406.2	3397.9	3397.9	3365.0	3344.4	3340.3	3311.4	3286.7	3262.0	3241.4
5°	3620.3	3608.0	3583.3	3562.7	3517.4	3459.7	3451.5	3389.7	3327.9	3270.2	3220.8
7.5°	3801.6	3776.8	3748.0	3706.8	3632.7	3554.4	3542.1	3455.6	3369.1	3282.6	3216.7
10°	3954.0	3929.2	3888.1	3830.4	3735.7	3640.9	3628.6	3538.0	3447.4	3344.4	3249.7
12.5°	4098.1	4077.5	4015.7	3937.5	3826.3	3739.8	3727.4	3649.2	3554.4	3439.1	3315.6
15°	4221.7	4201.1	4135.2	4044.6	3916.9	3851.0	3834.5	3760.4	3665.6	3542.1	3414.4
17.5°	4283.4	4283.4	4213.4	4114.6	3995.1	3945.7	3933.4	3842.7	3756.3	3636.8	3509.1
20°	4304.0	4312.3	4262.9	4143.4	4040.4	4019.9	4007.5	3933.4	3834.5	3719.2	3599.7
22.5°	4316.4	4332.9	4291.7	4155.8	4069.3	4056.9	4048.7	3999.3	3921.0	3809.8	3690.4
25°	4357.6	4357.6	4328.8	4176.4	4106.3	4102.2	4102.2	4073.4	4019.9	3925.1	3805.7
27.5°	4419.4	4415.2	4378.2	4221.7	4188.7	4201.1	4197.0	4192.8	4155.8	4061.0	3933.4
30°	4522.3	4522.3	4481.1	4312.3	4291.7	4345.2	4349.3	4357.6	4299.9	4151.7	4048.7
32.5°	4678.8	4662.4	4621.2	4402.9	4369.9	4419.4	4427.6	4423.5	4374.1	4234.0	4184.6
35°	5160.7	5123.7	4975.4	4604.7	4440.0	4468.8	4472.9	4493.5	4501.7	4390.5	4365.8
37.5°	6005.1	5955.6	5729.1	5082.5	4662.4	4592.4	4588.2	4641.8	4687.1	4588.2	4588.2
40°	6923.5	6882.4	6750.6	5906.2	5074.2	4843.6	4827.1	4876.5	4934.2	4864.2	4884.8
42.5°	7714.3	7747.3	7759.6	6779.4	5692.0	5313.1	5267.8	5197.8	5288.4	5226.6	5309.0
45°	8307.4	8290.9	8517.5	7673.1	6491.1	5902.1	5840.3	5650.9	5766.2	5762.1	5943.3
47.5°	8937.6	8908.8	9003.5	8513.4	7401.3	6622.9	6528.1	6248.1	6421.1	6540.5	6841.2
50°	9534.8	9543.0	9576.0	9176.5	8389.8	7500.2	7380.7	7005.9	7253.0	7504.3	7928.5
52.5°	10313.2	10255.6	10214.4	9950.8	9497.7	8414.5	8336.3	7907.9	8253.9	8550.4	9114.7
55°	10992.8	10955.7	10931.0	10918.7	10424.4	9423.6	9341.2	8896.4	9394.8	9604.8	10436.8
57.5°	11717.7	11697.1	11828.9	12039.0	11841.3	10449.1	10362.7	9934.3	10490.3	10638.6	11870.1
60°	12249.0	12261.4	12623.8	13159.3	13023.3	11561.2	11458.2	11079.3	11557.1	11688.9	13303.4
62.5°	12253.1	12376.7	13216.9	14176.6	14333.1	12842.1	12722.7	12310.8	12652.7	12652.7	14588.4
65°	11083.4	11223.5	13109.8	14427.8	15659.3	14366.0	14250.7	13604.1	13731.8	13558.8	15795.2
67.5°	9917.8	10082.6	11857.7	14448.4	16590.1	15997.0	15861.1	14897.3	14679.1	14242.5	16639.6
70°	9143.5	9258.8	10741.6	14180.7	17150.3	17702.2	17599.2	16124.7	15424.5	14815.0	16462.5
72.5°	7697.9	7656.7	9073.5	12908.0	17463.3	19638.0	19551.5	17459.2	16071.2	14543.1	14040.7
75°	4468.8	4518.2	5630.3	9456.5	15741.7	20647.1	20638.8	18600.1	15787.0	12846.2	9674.8
77.5°	1289.2	1326.2	1849.3	4155.8	9954.9	17611.6	18175.8	17010.2	13344.6	9155.9	5016.6
80°	564.3	593.1	803.1	1383.9	4287.6	11503.5	11997.8	11503.5	8047.9	4201.1	1968.7
82.5°	333.6	354.2	523.1	856.7	2055.2	5473.8	6141.0	5362.5	3472.1	1783.4	815.5
85°	189.5	197.7	300.7	543.7	1293.3	1915.2	2150.0	2014.0	1692.8	1013.2	428.3
87.5°	86.5	90.6	148.3	255.4	724.9	646.6	671.3	889.6	980.3	617.8	214.2
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°	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3
2.5°	3233.2	3220.8	3196.1	3187.9	3175.5	3179.6	3183.8	3183.8	3187.9	3175.5	3175.5
5°	3200.2	3179.6	3154.9	3154.9	3154.9	3187.9	3216.7	3233.2	3241.4	3241.4	3233.2
7.5°	3187.9	3163.2	3134.3	3142.6	3150.8	3192.0	3245.5	3299.1	3315.6	3315.6	3307.3
10°	3212.6	3187.9	3167.3	3179.6	3200.2	3233.2	3274.4	3323.8	3365.0	3369.1	3365.0
12.5°	3270.2	3241.4	3220.8	3245.5	3270.2	3290.8	3311.4	3332.0	3385.6	3393.8	3393.8
15°	3365.0	3336.1	3311.4	3332.0	3340.3	3340.3	3340.3	3340.3	3393.8	3402.0	3402.0
17.5°	3459.7	3435.0	3410.3	3414.4	3389.7	3356.7	3344.4	3340.3	3369.1	3393.8	3397.9
20°	3550.3	3529.7	3505.0	3463.8	3402.0	3340.3	3319.7	3319.7	3336.1	3373.2	3373.2
22.5°	3649.2	3624.5	3583.3	3488.5	3385.6	3299.1	3278.5	3290.8	3311.4	3360.9	3356.7
25°	3760.4	3727.4	3657.4	3480.3	3332.0	3229.1	3233.2	3270.2	3307.3	3360.9	3360.9
27.5°	3883.9	3838.6	3698.6	3414.4	3212.6	3113.7	3150.8	3237.3	3290.8	3348.5	3356.7
30°	4019.9	3978.7	3731.5	3299.1	3019.0	2928.4	3019.0	3159.0	3241.4	3295.0	3307.3
32.5°	4184.6	4151.7	3760.4	3150.8	2767.8	2689.5	2821.3	2994.3	3126.1	3187.9	3200.2
35°	4390.5	4357.6	3797.4	2981.9	2533.0	2450.6	2570.1	2747.2	2920.2	2998.4	3023.1
37.5°	4658.3	4608.8	3830.4	2800.7	2335.3	2240.6	2298.2	2458.9	2615.4	2722.5	2751.3
40°	5000.1	4921.8	3859.2	2594.8	2162.3	2055.2	2075.8	2154.1	2244.7	2339.4	2376.5
42.5°	5482.0	5325.5	3863.3	2376.5	1985.2	1886.4	1878.1	1902.8	1902.8	1902.8	1915.2
45°	6153.3	5856.8	3871.6	2170.6	1804.0	1701.0	1676.3	1668.1	1606.3	1486.9	1478.6
47.5°	7001.8	6552.9	3908.6	1997.6	1614.5	1523.9	1491.0	1458.0	1342.7	1219.1	1194.4
50°	8089.1	7360.1	3982.8	1832.8	1453.9	1392.1	1350.9	1272.7	1145.0	1050.3	1025.6
52.5°	9341.2	8319.8	4052.8	1659.8	1334.5	1293.3	1243.8	1149.1	1013.2	955.5	947.3
55°	10778.6	9390.6	4192.8	1507.4	1231.5	1202.7	1157.4	1066.7	963.8	922.6	918.5
57.5°	12249.0	10589.2	4390.5	1371.5	1132.6	1116.2	1116.2	1037.9	972.0	955.5	955.5
60°	13665.9	11618.9	4238.1	1243.8	1042.0	1050.3	1128.5	1107.9	1058.5	1079.1	1091.5
62.5°	14765.5	12224.3	3439.1	1140.9	976.1	1050.3	1252.1	1252.1	1194.4	1186.2	1186.2
65°	15235.1	12216.1	2417.7	1062.6	951.4	1153.2	1396.2	1330.3	1177.9	1120.3	1107.9
67.5°	15115.6	11680.6	1668.1	1009.1	943.2	1260.3	1462.1	1276.8	1103.8	1054.4	1017.3
70°	14065.4	10548.0	1285.0	959.7	930.8	1215.0	1441.5	1215.0	1046.2	1000.8	967.9
72.5°	11347.0	8459.8	1066.7	910.2	881.4	1124.4	1371.5	1157.4	1000.8	951.4	918.5
75°	7236.6	5321.4	902.0	844.3	786.7	1009.1	1276.8	1099.7	951.4	885.5	860.8
77.5°	3480.3	2294.1	786.7	766.1	708.4	934.9	1182.1	1025.6	885.5	832.0	815.5
80°	1408.6	1050.3	683.7	687.8	650.8	889.6	1116.2	955.5	819.6	762.0	733.1
82.5°	733.1	609.6	576.6	593.1	593.1	848.5	1066.7	897.9	762.0	737.2	642.5
85°	395.4	378.9	444.8	477.8	514.8	766.1	992.6	836.1	696.1	597.2	576.6
87.5°	193.6	247.1	251.2	288.3	358.3	613.7	836.1	700.2	580.7	481.9	473.7
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)