

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: P400027

Luminaire Tested: **ARCH-L-PA3-220-760-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400027
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-PA3-220-760-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 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: 30824 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

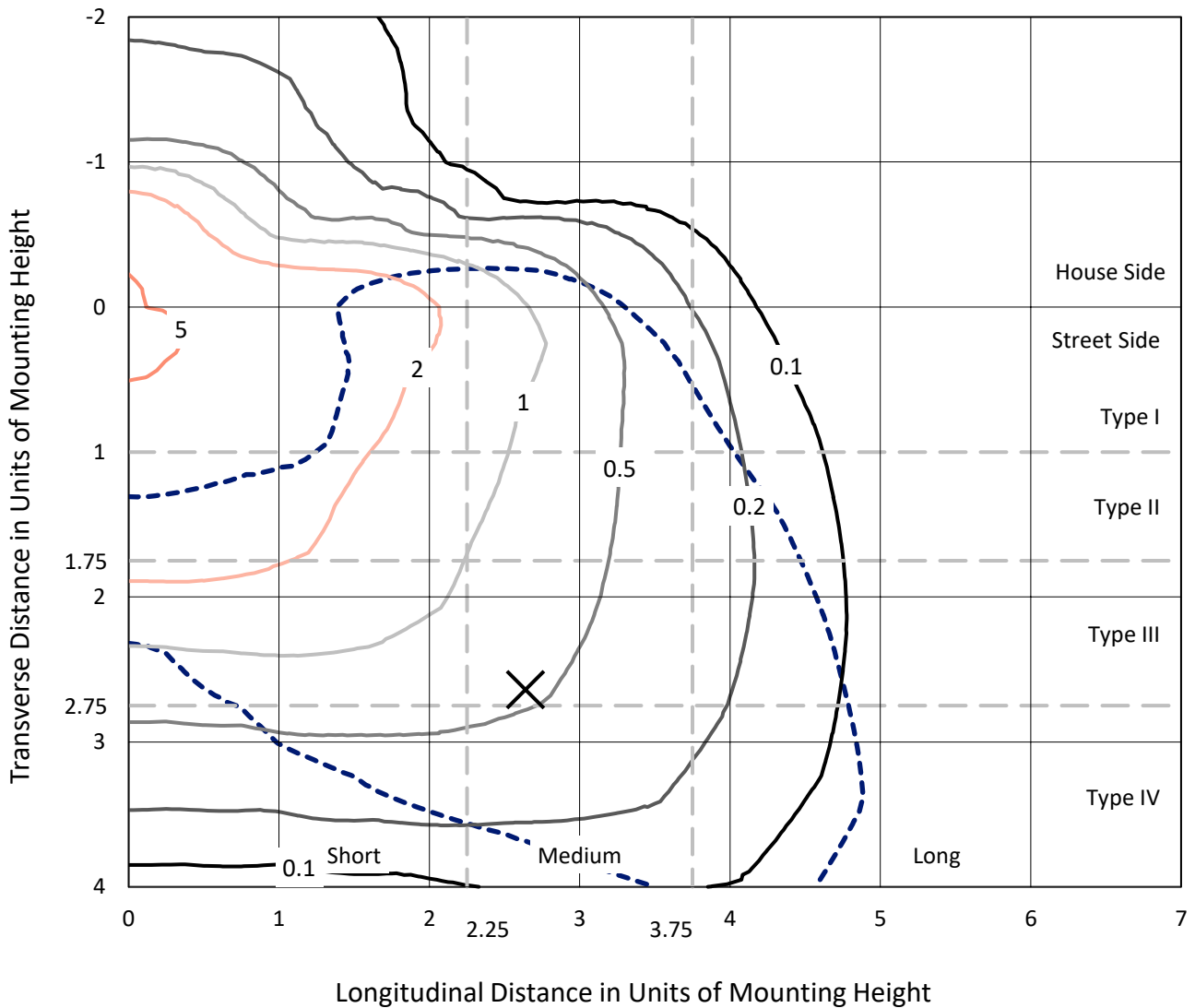
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

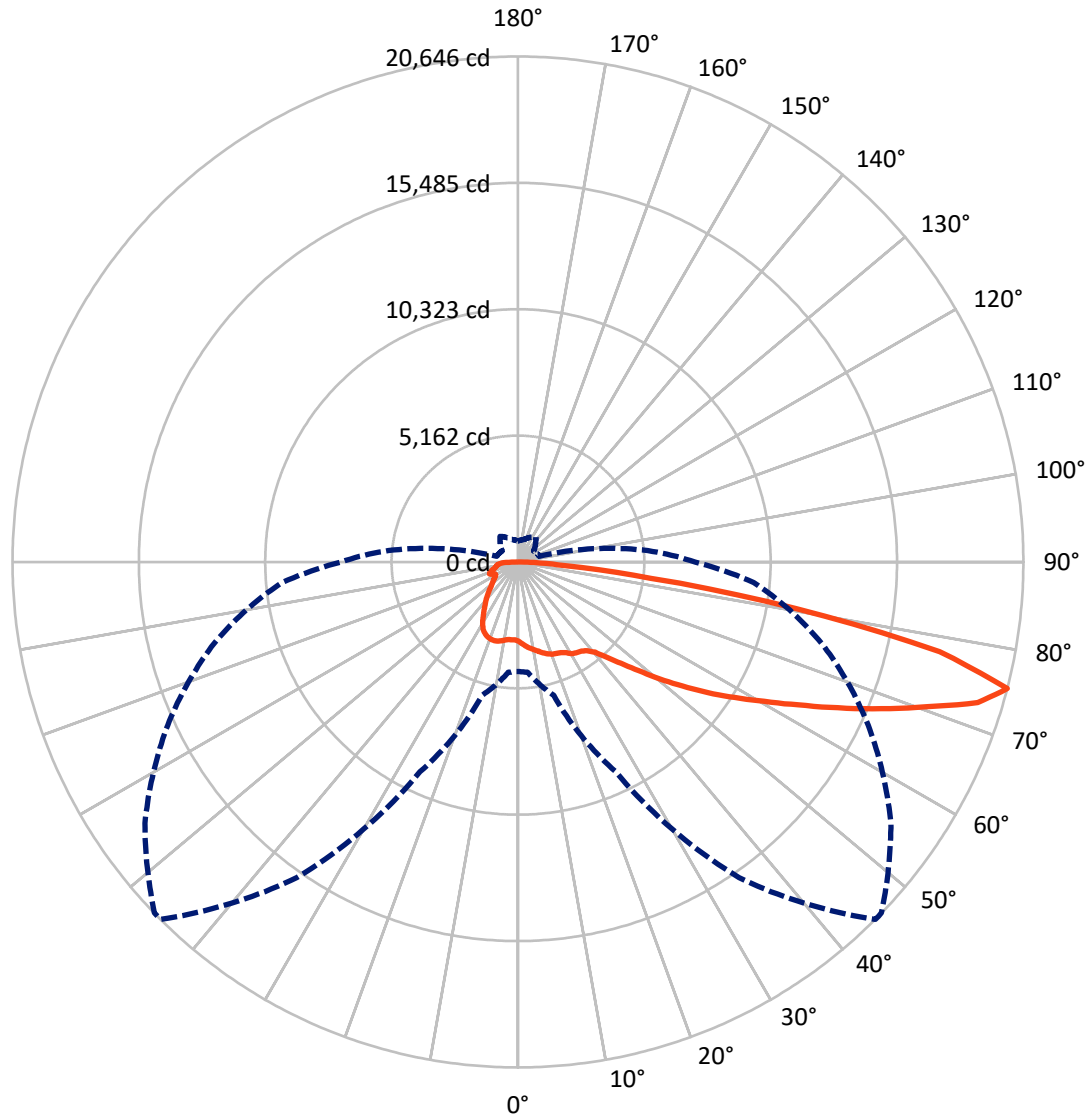
× Max cd
 - - - 1/2 Max cd



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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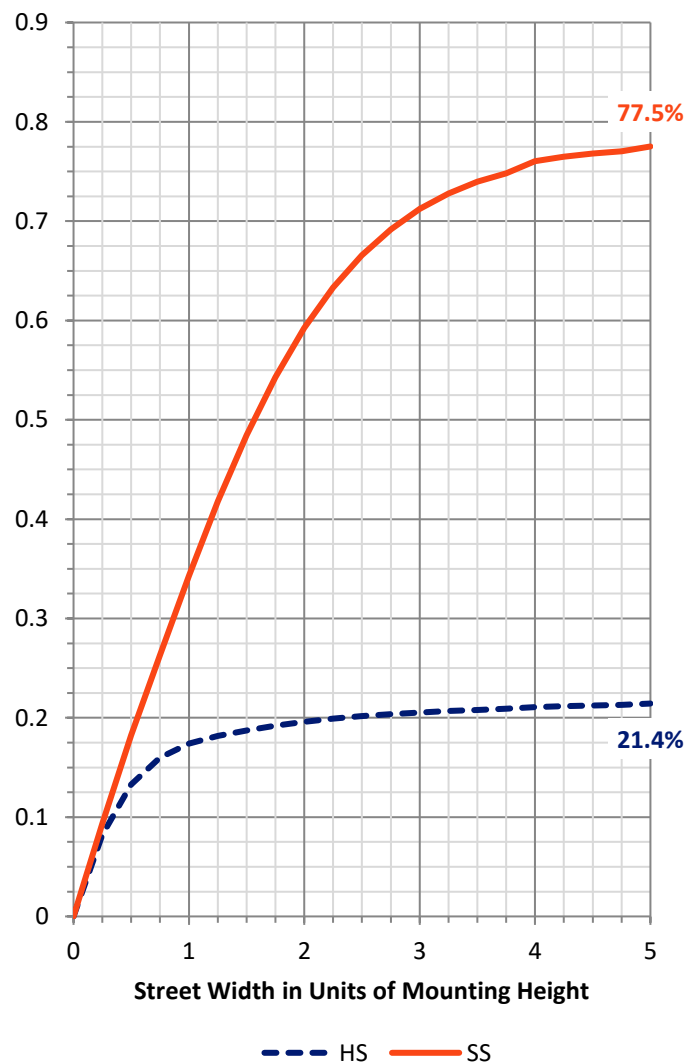
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6812.0	0.0	6812.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	24012.0	0.0	24012.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	30824.0	0.0	30824.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.2	1.0
10°-20°	1018.8	3.3
20°-30°	1737.0	5.6
30°-40°	2433.7	7.9
40°-50°	3575.5	11.6
50°-60°	5690.4	18.5
60°-70°	8094.6	26.3
70°-80°	6777.6	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°	30824.0	100.0
0°-180°	30824.0	100.0



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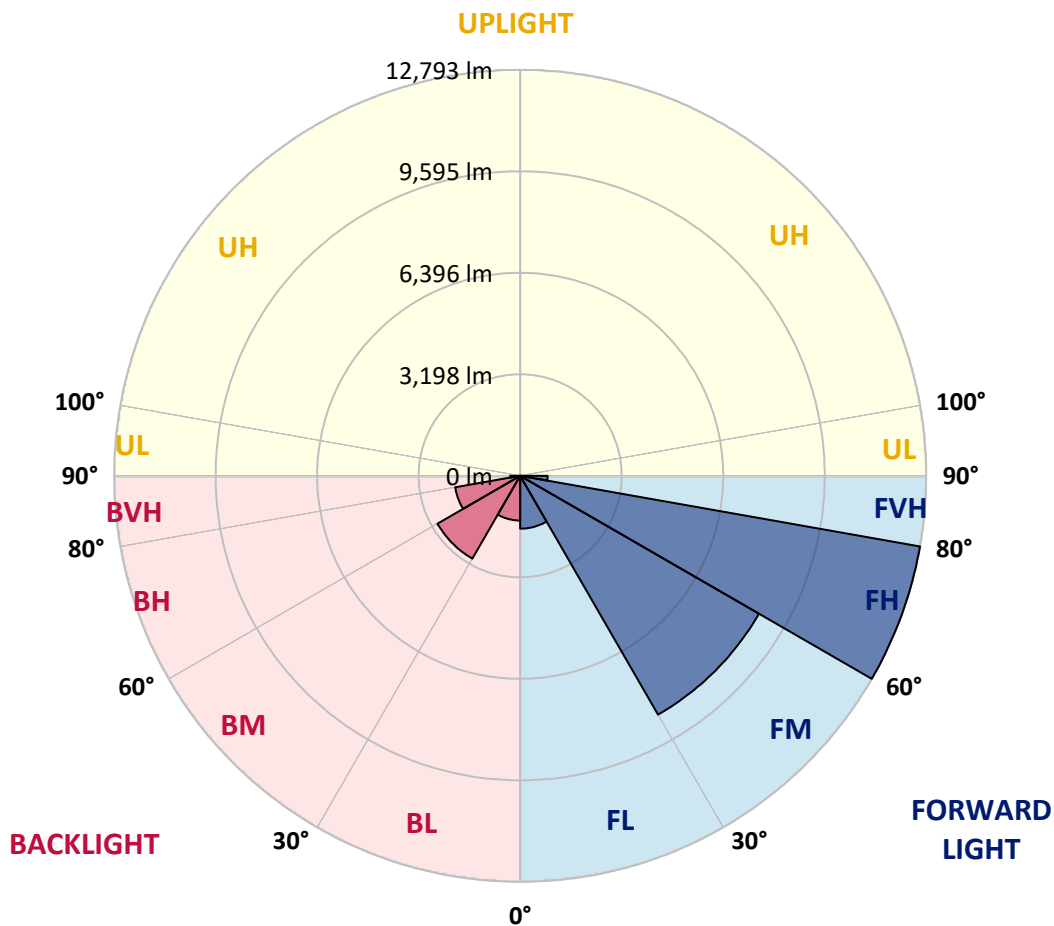
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.2	5.4			
FM (30°-60°)	8688.3	28.2			
FH (60°-80°)	12792.7	41.5			G5
FVH (80°-90°)	864.7	2.8			G5
BL (0°-30°)	1409.8	4.6	B3/2500		
BM (30°-60°)	3011.2	9.8	B3/5000		
BH (60°-80°)	2079.4	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°	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2
2.5°	3422.5	3406.1	3397.8	3397.8	3364.9	3344.3	3340.2	3311.3	3286.6	3261.9	3241.3
5°	3620.2	3607.9	3583.2	3562.6	3517.3	3459.6	3451.4	3389.6	3327.8	3270.1	3220.7
7.5°	3801.4	3776.7	3747.9	3706.7	3632.6	3554.3	3542.0	3455.5	3369.0	3282.5	3216.6
10°	3953.8	3929.1	3887.9	3830.3	3735.5	3640.8	3628.5	3537.8	3447.2	3344.3	3249.6
12.5°	4098.0	4077.4	4015.6	3937.4	3826.1	3739.7	3727.3	3649.1	3554.3	3439.0	3315.4
15°	4221.5	4200.9	4135.0	4044.4	3916.8	3850.9	3834.4	3760.3	3665.5	3542.0	3414.3
17.5°	4283.3	4283.3	4213.3	4114.4	3995.0	3945.6	3933.2	3842.6	3756.1	3636.7	3509.0
20°	4303.9	4312.1	4262.7	4143.3	4040.3	4019.7	4007.4	3933.2	3834.4	3719.1	3599.6
22.5°	4316.3	4332.7	4291.5	4155.6	4069.1	4056.8	4048.6	3999.1	3920.9	3809.7	3690.2
25°	4357.4	4357.4	4328.6	4176.2	4106.2	4102.1	4102.1	4073.3	4019.7	3925.0	3805.6
27.5°	4419.2	4415.1	4378.0	4221.5	4188.6	4200.9	4196.8	4192.7	4155.6	4060.9	3933.2
30°	4522.2	4522.2	4481.0	4312.1	4291.5	4345.1	4349.2	4357.4	4299.8	4151.5	4048.6
32.5°	4678.7	4662.2	4621.0	4402.7	4369.8	4419.2	4427.5	4423.3	4373.9	4233.9	4184.5
35°	5160.6	5123.5	4975.2	4604.6	4439.8	4468.6	4472.8	4493.4	4501.6	4390.4	4365.7
37.5°	6004.9	5955.4	5728.9	5082.3	4662.2	4592.2	4588.1	4641.6	4686.9	4588.1	4588.1
40°	6923.3	6882.1	6750.3	5906.0	5074.1	4843.4	4827.0	4876.4	4934.0	4864.0	4884.6
42.5°	7714.1	7747.0	7759.4	6779.2	5691.9	5313.0	5267.6	5197.6	5288.2	5226.5	5308.8
45°	8307.2	8290.7	8517.2	7672.9	6490.9	5901.9	5840.1	5650.7	5766.0	5761.9	5943.1
47.5°	8937.3	8908.5	9003.2	8513.1	7401.1	6622.7	6527.9	6247.9	6420.8	6540.3	6840.9
50°	9534.5	9542.7	9575.7	9176.2	8389.5	7499.9	7380.5	7005.7	7252.8	7504.0	7928.2
52.5°	10312.9	10255.2	10214.0	9950.5	9497.4	8414.2	8336.0	7907.7	8253.6	8550.1	9114.4
55°	10992.5	10955.4	10930.7	10918.3	10424.1	9423.3	9340.9	8896.1	9394.5	9604.5	10436.5
57.5°	11717.3	11696.7	11828.5	12038.6	11840.9	10448.8	10362.3	9934.0	10490.0	10638.3	11869.7
60°	12248.6	12261.0	12623.4	13158.8	13022.9	11560.8	11457.9	11078.9	11556.7	11688.5	13303.0
62.5°	12252.7	12376.3	13216.5	14176.1	14332.6	12841.7	12722.3	12310.4	12652.2	12652.2	14588.0
65°	11083.1	11223.1	13109.4	14427.3	15658.8	14365.6	14250.2	13603.6	13731.3	13558.3	15794.7
67.5°	9917.5	10082.3	11857.4	14447.9	16589.6	15996.5	15860.6	14896.9	14678.6	14242.0	16639.0
70°	9143.2	9258.5	10741.2	14180.2	17149.7	17701.6	17598.6	16124.2	15424.0	14814.5	16461.9
72.5°	7697.6	7656.4	9073.2	12907.6	17462.7	19637.3	19550.8	17458.6	16070.7	14542.7	14040.2
75°	4468.6	4518.1	5630.1	9456.2	15741.2	20646.4	20638.1	18599.5	15786.5	12845.8	9674.5
77.5°	1289.1	1326.2	1849.2	4155.6	9954.6	17611.0	18175.2	17009.7	13344.2	9155.6	5016.4
80°	564.2	593.1	803.1	1383.8	4287.4	11503.2	11997.4	11503.2	8047.7	4200.9	1968.7
82.5°	333.6	354.2	523.1	856.7	2055.2	5473.6	6140.8	5362.4	3472.0	1783.3	815.5
85°	189.5	197.7	300.7	543.7	1293.2	1915.1	2149.9	2014.0	1692.7	1013.2	428.3
87.5°	86.5	90.6	148.3	255.4	724.9	646.6	671.3	889.6	980.2	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°	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2	3237.2
2.5°	3233.1	3220.7	3196.0	3187.8	3175.4	3179.5	3183.7	3183.7	3187.8	3175.4	3175.4
5°	3200.1	3179.5	3154.8	3154.8	3154.8	3187.8	3216.6	3233.1	3241.3	3241.3	3233.1
7.5°	3187.8	3163.1	3134.2	3142.5	3150.7	3191.9	3245.4	3299.0	3315.4	3315.4	3307.2
10°	3212.5	3187.8	3167.2	3179.5	3200.1	3233.1	3274.3	3323.7	3364.9	3369.0	3364.9
12.5°	3270.1	3241.3	3220.7	3245.4	3270.1	3290.7	3311.3	3331.9	3385.5	3393.7	3393.7
15°	3364.9	3336.0	3311.3	3331.9	3340.2	3340.2	3340.2	3340.2	3393.7	3401.9	3401.9
17.5°	3459.6	3434.9	3410.2	3414.3	3389.6	3356.6	3344.3	3340.2	3369.0	3393.7	3397.8
20°	3550.2	3529.6	3504.9	3463.7	3401.9	3340.2	3319.6	3319.6	3336.0	3373.1	3373.1
22.5°	3649.1	3624.3	3583.2	3488.4	3385.5	3299.0	3278.4	3290.7	3311.3	3360.8	3356.6
25°	3760.3	3727.3	3657.3	3480.2	3331.9	3229.0	3233.1	3270.1	3307.2	3360.8	3360.8
27.5°	3883.8	3838.5	3698.5	3414.3	3212.5	3113.6	3150.7	3237.2	3290.7	3348.4	3356.6
30°	4019.7	3978.5	3731.4	3299.0	3018.9	2928.3	3018.9	3158.9	3241.3	3294.9	3307.2
32.5°	4184.5	4151.5	3760.3	3150.7	2767.7	2689.4	2821.2	2994.2	3126.0	3187.8	3200.1
35°	4390.4	4357.4	3797.3	2981.8	2532.9	2450.5	2570.0	2747.1	2920.1	2998.3	3023.0
37.5°	4658.1	4608.7	3830.3	2800.6	2335.2	2240.5	2298.2	2458.8	2615.3	2722.4	2751.2
40°	4999.9	4921.7	3859.1	2594.7	2162.2	2055.2	2075.8	2154.0	2244.6	2339.3	2376.4
42.5°	5481.8	5325.3	3863.2	2376.4	1985.1	1886.3	1878.1	1902.8	1902.8	1902.8	1915.1
45°	6153.1	5856.6	3871.5	2170.5	1803.9	1701.0	1676.3	1668.0	1606.2	1486.8	1478.6
47.5°	7001.6	6552.6	3908.5	1997.5	1614.5	1523.9	1490.9	1458.0	1342.7	1219.1	1194.4
50°	8088.9	7359.9	3982.7	1832.8	1453.9	1392.1	1350.9	1272.6	1145.0	1050.2	1025.5
52.5°	9340.9	8319.5	4052.7	1659.8	1334.4	1293.2	1243.8	1149.1	1013.2	955.5	947.3
55°	10778.3	9390.3	4192.7	1507.4	1231.5	1202.6	1157.3	1066.7	963.7	922.6	918.4
57.5°	12248.6	10588.8	4390.4	1371.5	1132.6	1116.1	1116.1	1037.9	972.0	955.5	955.5
60°	13665.4	11618.5	4238.0	1243.8	1042.0	1050.2	1128.5	1107.9	1058.5	1079.1	1091.4
62.5°	14765.1	12223.9	3439.0	1140.8	976.1	1050.2	1252.0	1252.0	1194.4	1186.1	1186.1
65°	15234.6	12215.7	2417.6	1062.6	951.4	1153.2	1396.2	1330.3	1177.9	1120.3	1107.9
67.5°	15115.1	11680.3	1668.0	1009.0	943.2	1260.3	1462.1	1276.8	1103.8	1054.4	1017.3
70°	14064.9	10547.7	1285.0	959.6	930.8	1215.0	1441.5	1215.0	1046.1	1000.8	967.9
72.5°	11346.7	8459.5	1066.7	910.2	881.4	1124.4	1371.5	1157.3	1000.8	951.4	918.4
75°	7236.3	5321.2	902.0	844.3	786.6	1009.0	1276.8	1099.7	951.4	885.5	860.8
77.5°	3480.2	2294.0	786.6	766.1	708.4	934.9	1182.0	1025.5	885.5	832.0	815.5
80°	1408.6	1050.2	683.7	687.8	650.7	889.6	1116.1	955.5	819.6	761.9	733.1
82.5°	733.1	609.5	576.6	593.1	593.1	848.4	1066.7	897.8	761.9	737.2	642.5
85°	395.4	378.9	444.8	477.8	514.8	766.1	992.6	836.1	696.0	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	473.6
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)