

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: P400315

Luminaire Tested: **ARCH-L-PA3-260-760-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400315  
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-PA3-260-760-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34209 lumens  
Efficiency: N/A  
Efficacy: 131.1 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

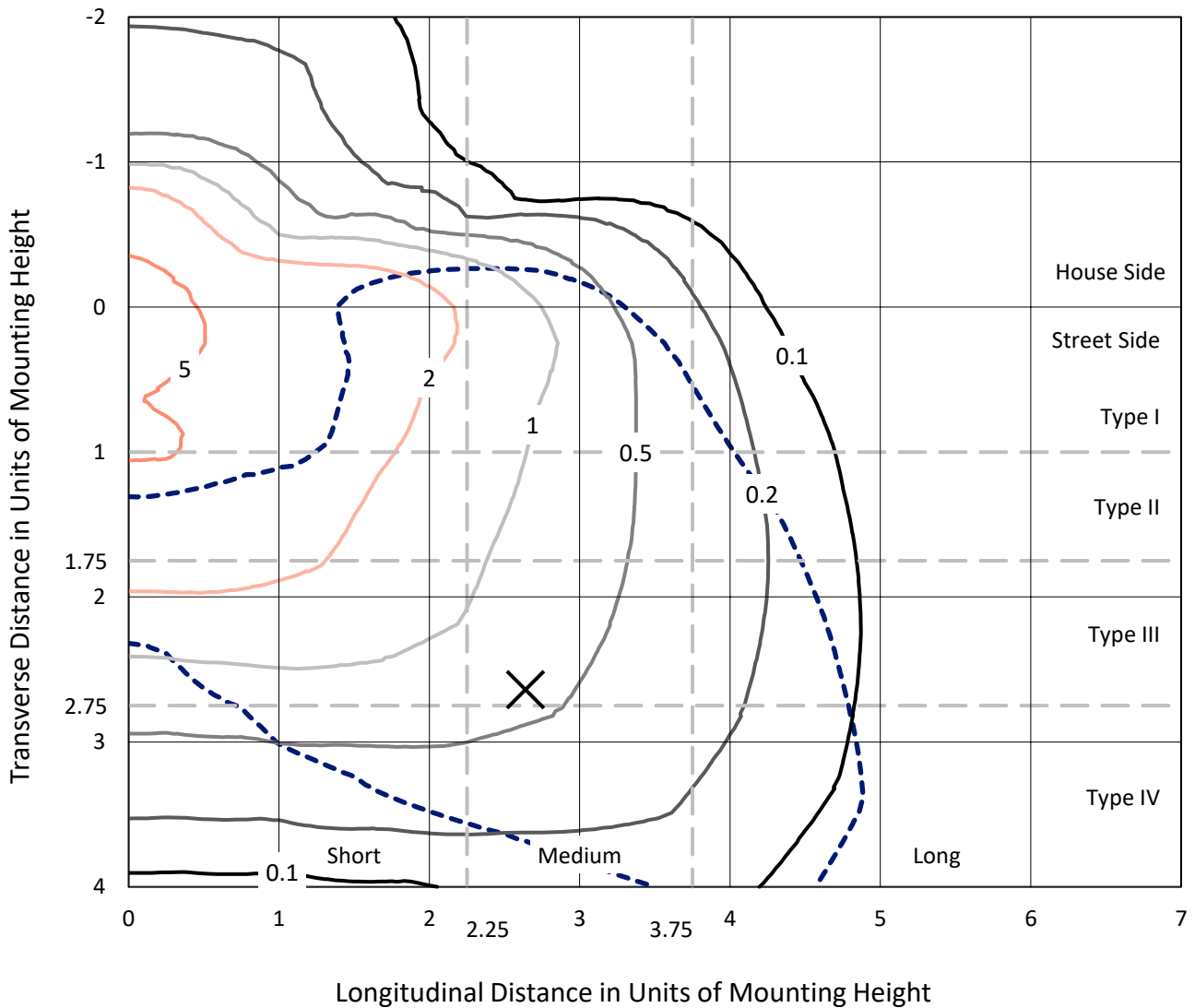
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

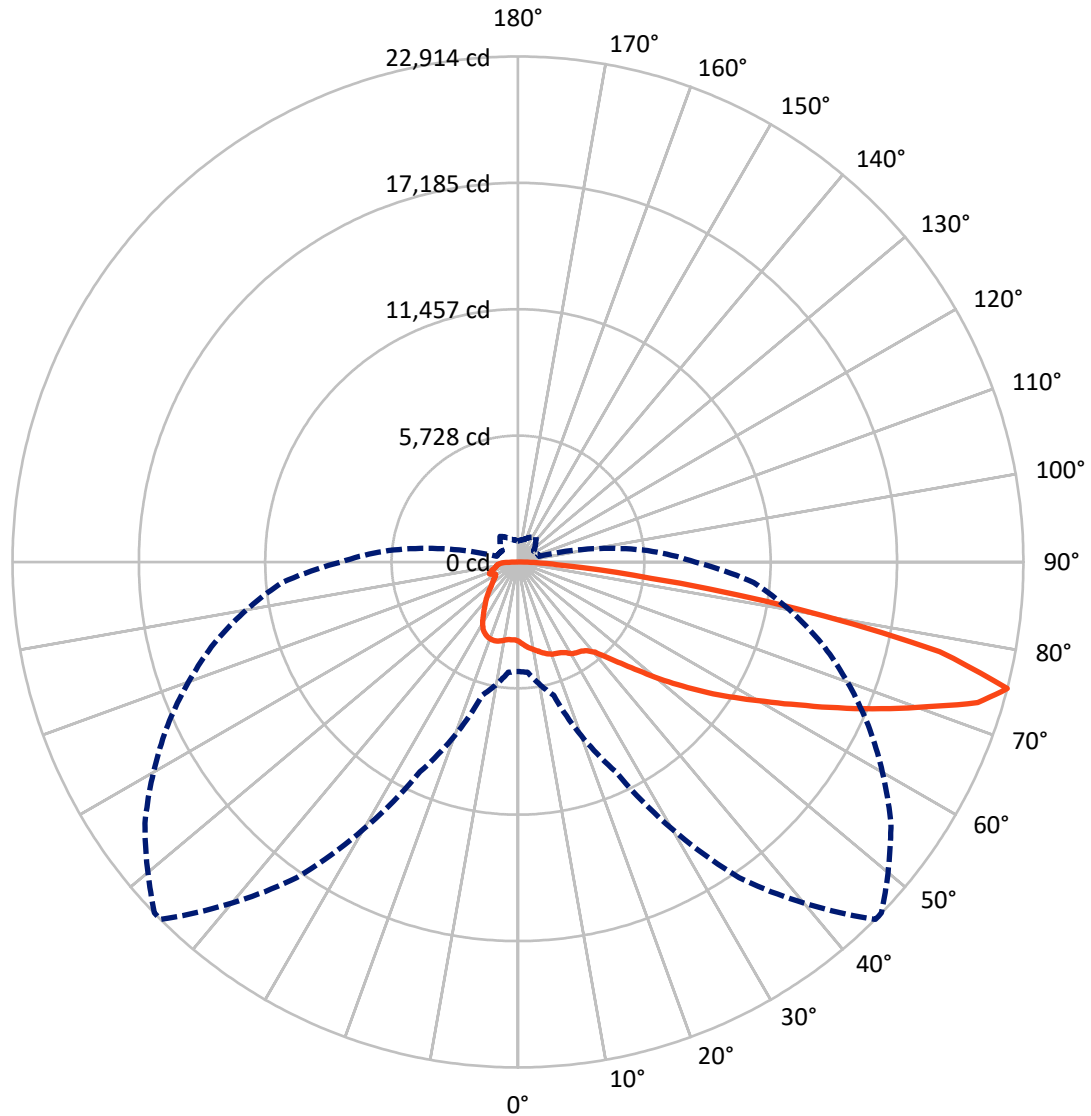
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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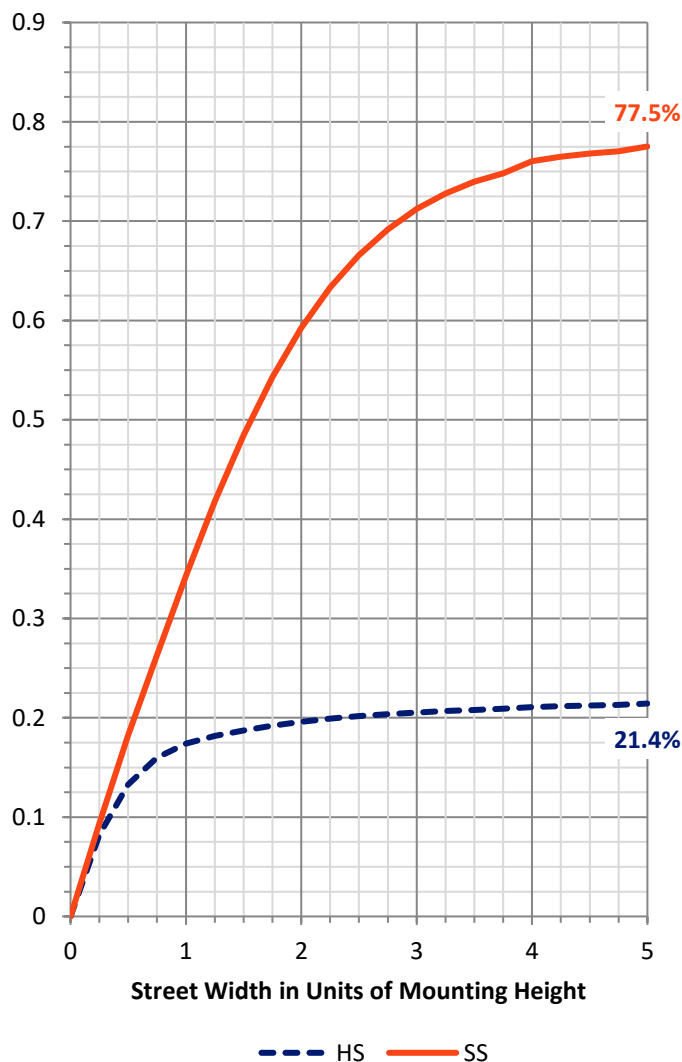
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7560.0	0.0	7560.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	26649.0	0.0	26649.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	34209.0	0.0	34209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.4	1.0
10°-20°	1130.7	3.3
20°-30°	1927.7	5.6
30°-40°	2701.0	7.9
40°-50°	3968.1	11.6
50°-60°	6315.3	18.5
60°-70°	8983.5	26.3
70°-80°	7521.9	22.0
80°-90°	1305.4	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°	34209.0	100.0
0°-180°	34209.0	100.0

**Coefficient of Utilization**

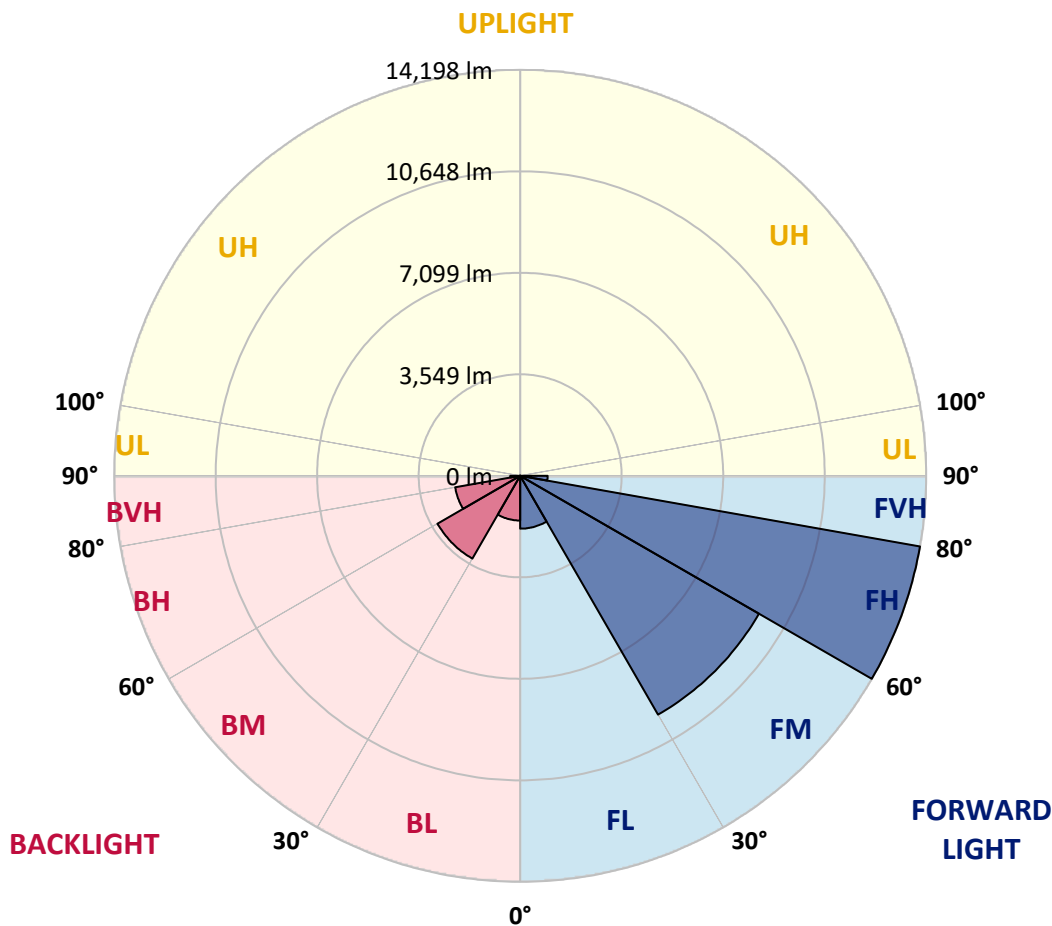


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.2	5.4			
FM (30°-60°)	9642.5	28.2			
FH (60°-80°)	14197.6	41.5			G5
FVH (80°-90°)	959.7	2.8			G5
BL (0°-30°)	1564.6	4.6	B3/2500		
BM (30°-60°)	3341.9	9.8	B3/5000		
BH (60°-80°)	2307.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	345.7	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7
2.5°	3798.4	3780.1	3771.0	3771.0	3734.4	3711.5	3707.0	3675.0	3647.5	3620.1	3597.3
5°	4017.8	4004.1	3976.6	3953.8	3903.5	3839.5	3830.4	3761.8	3693.3	3629.3	3574.4
7.5°	4218.9	4191.5	4159.5	4113.8	4031.5	3944.6	3930.9	3834.9	3739.0	3643.0	3569.8
10°	4388.0	4360.6	4314.9	4250.9	4145.8	4040.6	4026.9	3926.4	3825.8	3711.5	3606.4
12.5°	4548.0	4525.1	4456.6	4369.7	4246.3	4150.3	4136.6	4049.8	3944.6	3816.7	3679.5
15°	4685.1	4662.3	4589.1	4488.6	4346.9	4273.8	4255.5	4173.2	4068.1	3930.9	3789.2
17.5°	4753.7	4753.7	4676.0	4566.3	4433.7	4378.9	4365.2	4264.6	4168.6	4036.1	3894.4
20°	4776.5	4785.7	4730.8	4598.3	4484.0	4461.2	4447.4	4365.2	4255.5	4127.5	3994.9
22.5°	4790.3	4808.5	4762.8	4612.0	4516.0	4502.3	4493.2	4438.3	4351.5	4228.0	4095.5
25°	4836.0	4836.0	4804.0	4634.8	4557.1	4552.6	4552.6	4520.6	4461.2	4356.0	4223.5
27.5°	4904.5	4900.0	4858.8	4685.1	4648.6	4662.3	4657.7	4653.1	4612.0	4506.9	4365.2
30°	5018.8	5018.8	4973.1	4785.7	4762.8	4822.3	4826.8	4836.0	4772.0	4607.4	4493.2
32.5°	5192.5	5174.2	5128.5	4886.2	4849.7	4904.5	4913.7	4909.1	4854.3	4698.8	4644.0
35°	5727.3	5686.1	5521.6	5110.2	4927.4	4959.4	4964.0	4986.8	4995.9	4872.5	4845.1
37.5°	6664.3	6609.5	6358.1	5640.4	5174.2	5096.5	5091.9	5151.4	5201.6	5091.9	5091.9
40°	7683.6	7637.9	7491.6	6554.6	5631.3	5375.3	5357.0	5411.9	5475.9	5398.2	5421.0
42.5°	8561.2	8597.8	8611.5	7523.6	6316.9	5896.4	5846.1	5768.4	5869.0	5800.4	5891.8
45°	9219.4	9201.1	9452.5	8515.5	7203.7	6550.0	6481.5	6271.2	6399.2	6394.6	6595.7
47.5°	9918.8	9886.8	9991.9	9448.0	8213.8	7349.9	7244.8	6934.0	7126.0	7258.5	7592.2
50°	10581.5	10590.7	10627.2	10183.9	9310.8	8323.5	8191.0	7775.0	8049.3	8328.1	8798.9
52.5°	11445.4	11381.4	11335.7	11043.2	10540.4	9338.3	9251.4	8776.0	9160.0	9489.1	10115.3
55°	12199.6	12158.5	12131.1	12117.3	11568.8	10458.1	10366.7	9873.1	10426.1	10659.2	11582.6
57.5°	13004.1	12981.2	13127.5	13360.6	13141.2	11596.3	11500.3	11024.9	11642.0	11806.5	13173.2
60°	13593.7	13607.4	14009.7	14603.9	14453.0	12830.4	12716.1	12295.6	12825.8	12972.1	14763.9
62.5°	13598.3	13735.4	14667.9	15732.9	15906.6	14251.9	14119.4	13662.3	14041.7	14041.7	16190.0
65°	12300.2	12455.6	14549.0	16011.7	17378.4	15943.1	15815.2	15097.5	15239.2	15047.3	17529.2
67.5°	11006.6	11189.5	13159.5	16034.6	18411.4	17753.2	17602.4	16532.8	16290.5	15806.0	18466.3
70°	10147.3	10275.3	11920.8	15737.5	19033.0	19645.5	19531.3	17894.9	17117.9	16441.4	18269.7
72.5°	8542.9	8497.2	10069.6	14325.1	19380.4	21793.8	21697.9	19375.9	17835.5	16139.7	15582.1
75°	4959.4	5014.2	6248.4	10494.7	17469.8	22913.7	22904.6	20642.0	17520.1	14256.5	10736.9
77.5°	1430.7	1471.8	2052.3	4612.0	11047.8	19545.0	20171.2	18877.6	14809.6	10161.0	5567.3
80°	626.2	658.2	891.3	1535.8	4758.3	12766.4	13314.9	12766.4	8931.5	4662.3	2184.9
82.5°	370.2	393.1	580.5	950.7	2280.9	6074.7	6815.1	5951.3	3853.2	1979.2	905.0
85°	210.3	219.4	333.7	603.4	1435.2	2125.4	2386.0	2235.1	1878.6	1124.4	475.4
87.5°	96.0	100.6	164.6	283.4	804.5	717.6	745.0	987.3	1087.9	685.6	237.7
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°	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7	3592.7
2.5°	3588.1	3574.4	3547.0	3537.8	3524.1	3528.7	3533.3	3533.3	3537.8	3524.1	3524.1
5°	3551.6	3528.7	3501.3	3501.3	3501.3	3537.8	3569.8	3588.1	3597.3	3597.3	3588.1
7.5°	3537.8	3510.4	3478.4	3487.6	3496.7	3542.4	3601.8	3661.3	3679.5	3679.5	3670.4
10°	3565.3	3537.8	3515.0	3528.7	3551.6	3588.1	3633.8	3688.7	3734.4	3739.0	3734.4
12.5°	3629.3	3597.3	3574.4	3601.8	3629.3	3652.1	3675.0	3697.8	3757.2	3766.4	3766.4
15°	3734.4	3702.4	3675.0	3697.8	3707.0	3707.0	3707.0	3707.0	3766.4	3775.5	3775.5
17.5°	3839.5	3812.1	3784.7	3789.2	3761.8	3725.2	3711.5	3707.0	3739.0	3766.4	3771.0
20°	3940.1	3917.2	3889.8	3844.1	3775.5	3707.0	3684.1	3684.1	3702.4	3743.5	3743.5
22.5°	4049.8	4022.4	3976.6	3871.5	3757.2	3661.3	3638.4	3652.1	3675.0	3729.8	3725.2
25°	4173.2	4136.6	4058.9	3862.4	3697.8	3583.6	3588.1	3629.3	3670.4	3729.8	3729.8
27.5°	4310.3	4260.0	4104.6	3789.2	3565.3	3455.6	3496.7	3592.7	3652.1	3716.1	3725.2
30°	4461.2	4415.4	4141.2	3661.3	3350.4	3249.9	3350.4	3505.8	3597.3	3656.7	3670.4
32.5°	4644.0	4607.4	4173.2	3496.7	3071.6	2984.8	3131.0	3323.0	3469.3	3537.8	3551.6
35°	4872.5	4836.0	4214.3	3309.3	2811.1	2719.7	2852.2	3048.8	3240.7	3327.6	3355.0
37.5°	5169.6	5114.8	4250.9	3108.2	2591.7	2486.5	2550.5	2728.8	2902.5	3021.3	3053.3
40°	5549.0	5462.2	4282.9	2879.6	2399.7	2280.9	2303.7	2390.6	2491.1	2596.2	2637.4
42.5°	6083.8	5910.1	4287.5	2637.4	2203.2	2093.5	2084.3	2111.7	2111.7	2111.7	2125.4
45°	6828.9	6499.8	4296.6	2408.8	2002.0	1887.8	1860.3	1851.2	1782.6	1650.1	1640.9
47.5°	7770.5	7272.2	4337.7	2216.9	1791.8	1691.2	1654.7	1618.1	1490.1	1353.0	1325.5
50°	8977.2	8168.1	4420.0	2034.0	1613.5	1544.9	1499.2	1412.4	1270.7	1165.6	1138.1
52.5°	10366.7	9233.1	4497.7	1842.1	1481.0	1435.2	1380.4	1275.3	1124.4	1060.4	1051.3
55°	11961.9	10421.6	4653.1	1672.9	1366.7	1334.7	1284.4	1183.9	1069.6	1023.9	1019.3
57.5°	13593.7	11751.7	4872.5	1522.1	1257.0	1238.7	1238.7	1151.9	1078.7	1060.4	1060.4
60°	15166.1	12894.4	4703.4	1380.4	1156.4	1165.6	1252.4	1229.6	1174.7	1197.6	1211.3
62.5°	16386.5	13566.3	3816.7	1266.1	1083.3	1165.6	1389.5	1389.5	1325.5	1316.4	1316.4
65°	16907.6	13557.2	2683.1	1179.3	1055.9	1279.8	1549.5	1476.4	1307.3	1243.3	1229.6
67.5°	16775.0	12963.0	1851.2	1119.9	1046.7	1398.7	1622.7	1417.0	1225.0	1170.1	1129.0
70°	15609.5	11706.0	1426.1	1065.0	1033.0	1348.4	1599.8	1348.4	1161.0	1110.7	1074.2
72.5°	12592.7	9388.5	1183.9	1010.2	978.2	1247.8	1522.1	1284.4	1110.7	1055.9	1019.3
75°	8031.0	5905.5	1001.0	937.0	873.0	1119.9	1417.0	1220.4	1055.9	982.7	955.3
77.5°	3862.4	2546.0	873.0	850.2	786.2	1037.6	1311.8	1138.1	982.7	923.3	905.0
80°	1563.2	1165.6	758.8	763.3	722.2	987.3	1238.7	1060.4	909.6	845.6	813.6
82.5°	813.6	676.5	639.9	658.2	658.2	941.6	1183.9	996.4	845.6	818.2	713.1
85°	438.8	420.5	493.7	530.2	571.4	850.2	1101.6	927.9	772.5	662.8	639.9
87.5°	214.8	274.3	278.8	320.0	397.7	681.1	927.9	777.0	644.5	534.8	525.6
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)