

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: P400234

Luminaire Tested: **ARCH-L-PA3-250-750-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400234  
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-PA3-250-750-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33417 lumens  
Efficiency: N/A  
Efficacy: 133.1 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

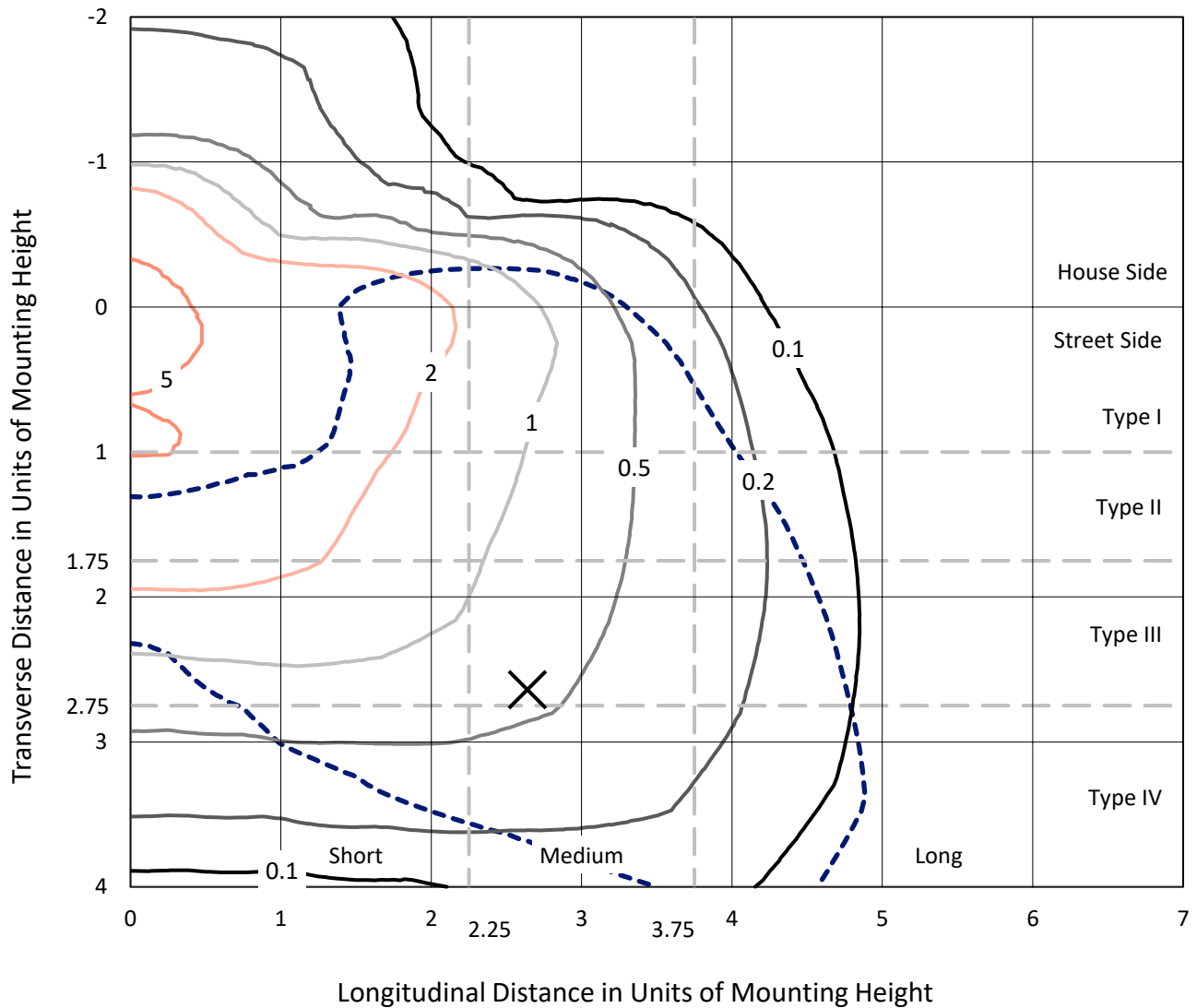
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

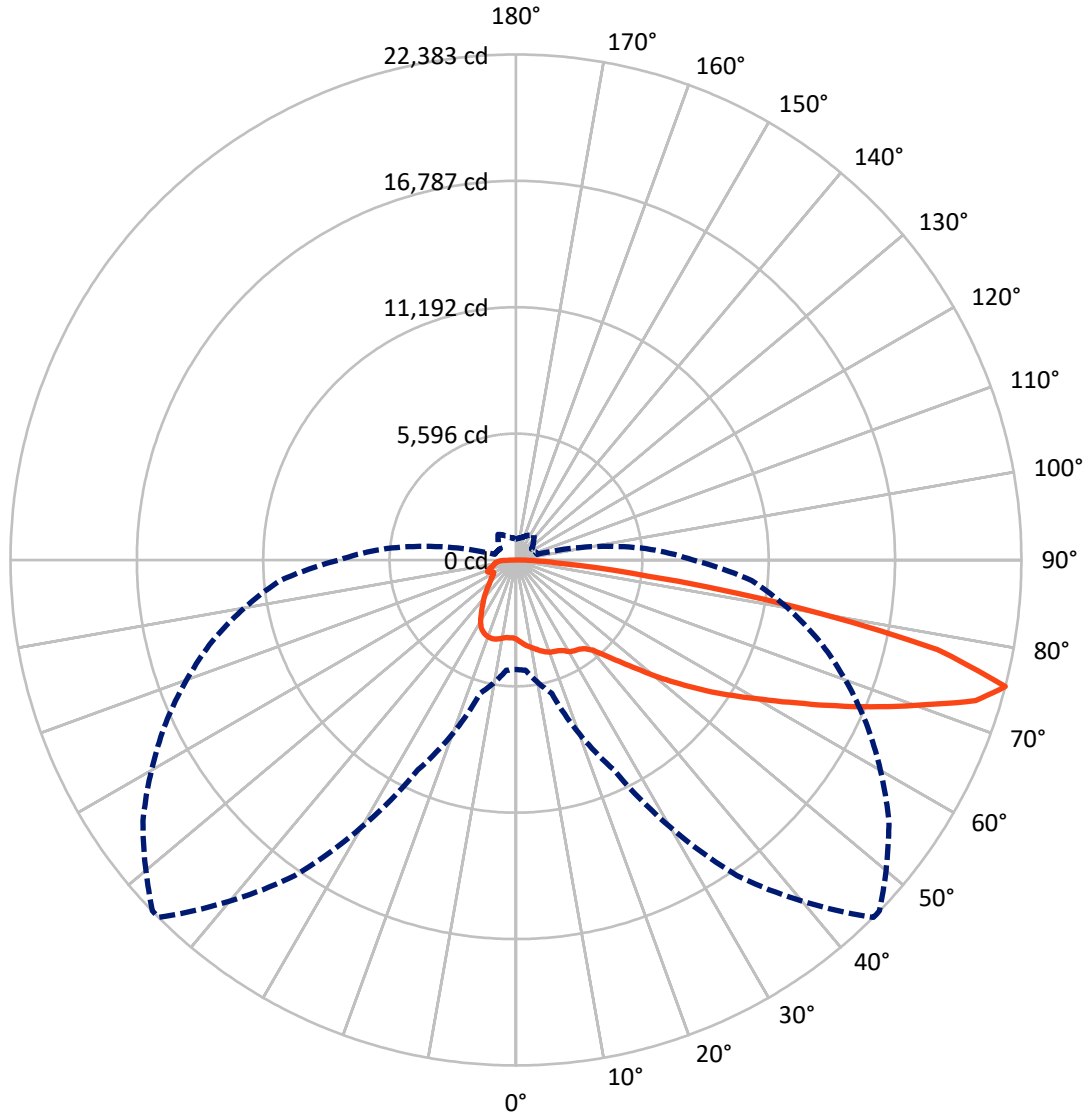
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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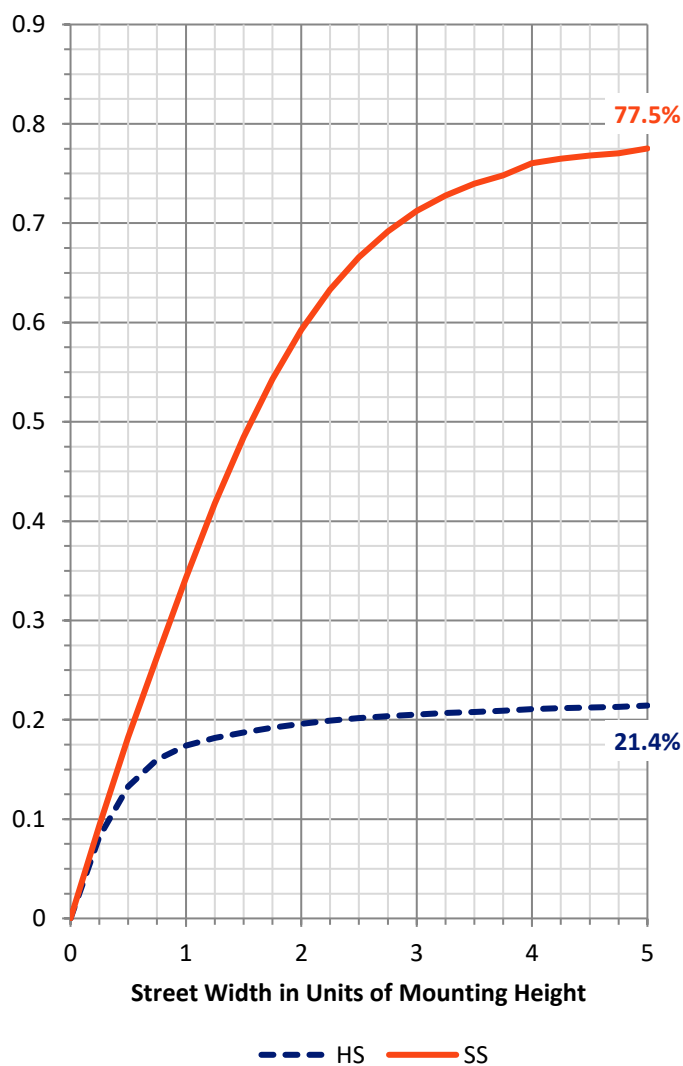
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7385.0	0.0	7385.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	26032.0	0.0	26032.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	33417.0	0.0	33417.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.2	1.0
10°-20°	1104.5	3.3
20°-30°	1883.1	5.6
30°-40°	2638.4	7.9
40°-50°	3876.2	11.6
50°-60°	6169.1	18.5
60°-70°	8775.5	26.3
70°-80°	7347.7	22.0
80°-90°	1275.2	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°	33417.0	100.0
0°-180°	33417.0	100.0

**Coefficient of Utilization**



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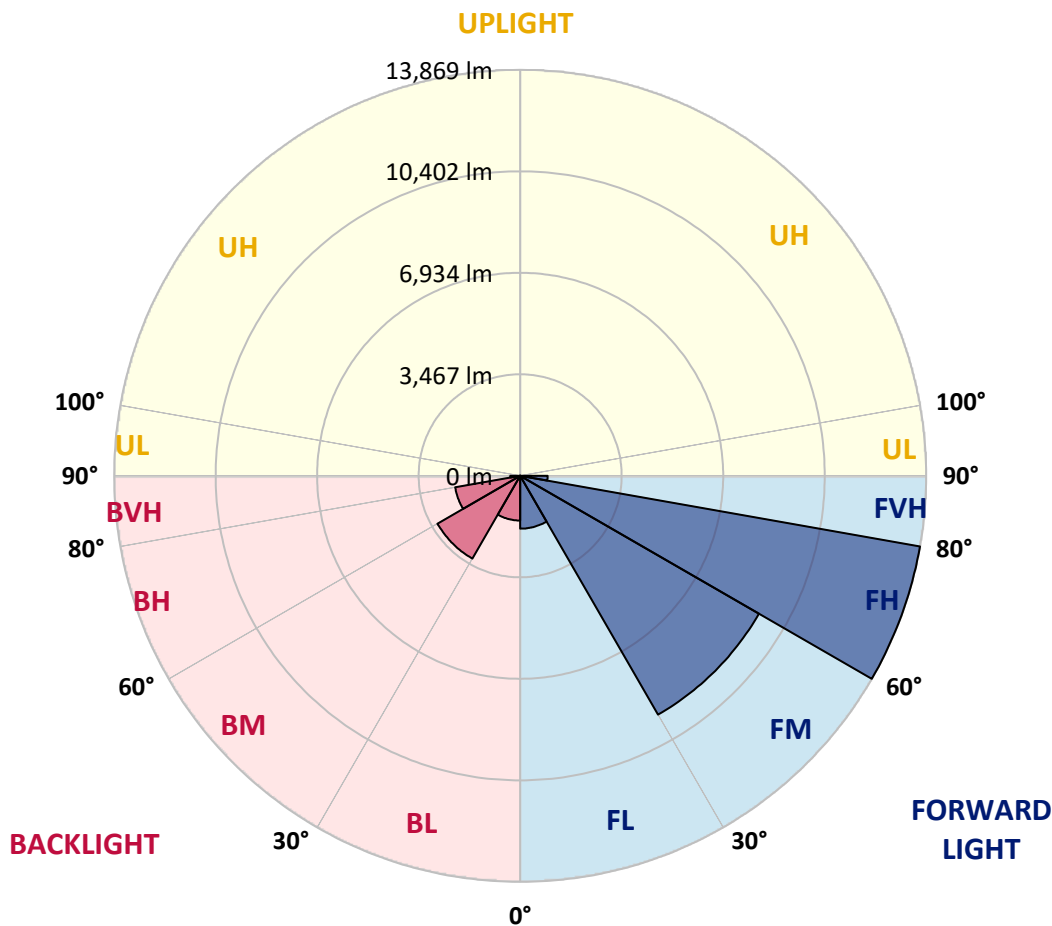
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.4	5.4			
FM (30°-60°)	9419.2	28.2			
FH (60°-80°)	13868.9	41.5			G5
FVH (80°-90°)	937.5	2.8			G5
BL (0°-30°)	1528.4	4.6	B3/2500		
BM (30°-60°)	3264.5	9.8	B3/5000		
BH (60°-80°)	2254.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	337.7	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°	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5
2.5°	3710.4	3692.6	3683.7	3683.7	3647.9	3625.6	3621.1	3589.9	3563.1	3536.3	3514.0
5°	3924.8	3911.4	3884.6	3862.3	3813.1	3750.6	3741.7	3674.7	3607.7	3545.2	3491.7
7.5°	4121.2	4094.4	4063.2	4018.5	3938.2	3853.3	3839.9	3746.2	3652.4	3558.6	3487.2
10°	4286.4	4259.6	4215.0	4152.5	4049.8	3947.1	3933.7	3835.5	3737.2	3625.6	3522.9
12.5°	4442.7	4420.4	4353.4	4268.6	4148.0	4054.3	4040.9	3956.0	3853.3	3728.3	3594.4
15°	4576.7	4554.3	4482.9	4384.7	4246.2	4174.8	4156.9	4076.6	3973.9	3839.9	3701.5
17.5°	4643.6	4643.6	4567.7	4460.6	4331.1	4277.5	4264.1	4165.9	4072.1	3942.6	3804.2
20°	4666.0	4674.9	4621.3	4491.8	4380.2	4357.9	4344.5	4264.1	4156.9	4031.9	3902.4
22.5°	4679.4	4697.2	4652.6	4505.2	4411.5	4398.1	4389.1	4335.5	4250.7	4130.2	4000.7
25°	4724.0	4724.0	4692.8	4527.5	4451.6	4447.2	4447.2	4415.9	4357.9	4255.2	4125.7
27.5°	4791.0	4786.5	4746.3	4576.7	4540.9	4554.3	4549.9	4545.4	4505.2	4402.5	4264.1
30°	4902.6	4902.6	4858.0	4674.9	4652.6	4710.6	4715.1	4724.0	4661.5	4500.8	4389.1
32.5°	5072.3	5054.4	5009.8	4773.1	4737.4	4791.0	4799.9	4795.4	4741.9	4590.1	4536.5
35°	5594.7	5554.5	5393.8	4991.9	4813.3	4844.6	4849.0	4871.4	4880.3	4759.7	4732.9
37.5°	6510.0	6456.4	6210.9	5509.9	5054.4	4978.5	4974.0	5032.1	5081.2	4974.0	4974.0
40°	7505.7	7461.1	7318.2	6402.9	5500.9	5250.9	5233.0	5286.6	5349.1	5273.2	5295.5
42.5°	8363.0	8398.7	8412.1	7349.4	6170.7	5759.9	5710.8	5634.9	5733.1	5666.1	5755.4
45°	9006.0	8988.1	9233.7	8318.4	7036.9	6398.4	6331.4	6126.0	6251.0	6246.6	6443.0
47.5°	9689.1	9657.9	9760.6	9229.2	8023.7	7179.8	7077.1	6773.5	6961.0	7090.5	7416.4
50°	10336.6	10345.5	10381.2	9948.1	9095.3	8130.8	8001.3	7595.0	7862.9	8135.3	8595.2
52.5°	11180.4	11117.9	11073.3	10787.5	10296.4	9122.1	9037.2	8572.9	8947.9	9269.4	9881.1
55°	11917.2	11877.0	11850.2	11836.8	11301.0	10216.0	10126.7	9644.5	10184.7	10412.5	11314.4
57.5°	12703.0	12680.7	12823.6	13051.3	12837.0	11327.8	11234.0	10769.7	11372.4	11533.2	12868.2
60°	13279.0	13292.4	13685.3	14265.8	14118.4	12533.3	12421.7	12010.9	12528.9	12671.8	14422.1
62.5°	13283.5	13417.4	14328.3	15368.6	15538.3	13922.0	13792.5	13346.0	13716.6	13716.6	15815.1
65°	12015.4	12167.2	14212.2	15641.0	16976.1	15574.0	15449.0	14748.0	14886.4	14698.9	17123.4
67.5°	10751.8	10930.4	12854.8	15663.3	17985.2	17342.2	17194.8	16150.0	15913.4	15440.1	18038.7
70°	9912.4	10037.4	11644.8	15373.1	18592.4	19190.7	19079.1	17480.6	16721.5	16060.7	17846.7
72.5°	8345.1	8300.5	9836.5	13993.4	18931.7	21289.3	21195.5	18927.3	17422.6	15766.0	15221.3
75°	4844.6	4898.1	6103.7	10251.7	17065.4	22383.2	22374.3	20164.1	17114.5	13926.4	10488.4
77.5°	1397.6	1437.7	2004.8	4505.2	10792.0	19092.5	19704.2	18440.6	14466.7	9925.8	5438.4
80°	611.7	643.0	870.7	1500.3	4648.1	12470.8	13006.6	12470.8	8724.7	4554.3	2134.3
82.5°	361.7	384.0	567.1	928.7	2228.1	5934.0	6657.4	5813.5	3764.0	1933.4	884.1
85°	205.4	214.3	325.9	589.4	1402.0	2076.2	2330.7	2183.4	1835.1	1098.4	464.4
87.5°	93.8	98.2	160.7	276.8	785.8	701.0	727.8	964.4	1062.7	669.8	232.2
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°	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5
2.5°	3505.1	3491.7	3464.9	3455.9	3442.5	3447.0	3451.5	3451.5	3455.9	3442.5	3442.5
5°	3469.3	3447.0	3420.2	3420.2	3420.2	3455.9	3487.2	3505.1	3514.0	3514.0	3505.1
7.5°	3455.9	3429.1	3397.9	3406.8	3415.8	3460.4	3518.4	3576.5	3594.4	3594.4	3585.4
10°	3482.7	3455.9	3433.6	3447.0	3469.3	3505.1	3549.7	3603.3	3647.9	3652.4	3647.9
12.5°	3545.2	3514.0	3491.7	3518.4	3545.2	3567.6	3589.9	3612.2	3670.3	3679.2	3679.2
15°	3647.9	3616.7	3589.9	3612.2	3621.1	3621.1	3621.1	3621.1	3679.2	3688.1	3688.1
17.5°	3750.6	3723.8	3697.0	3701.5	3674.7	3639.0	3625.6	3621.1	3652.4	3679.2	3683.7
20°	3848.9	3826.5	3799.7	3755.1	3688.1	3621.1	3598.8	3598.8	3616.7	3656.9	3656.9
22.5°	3956.0	3929.2	3884.6	3781.9	3670.3	3576.5	3554.2	3567.6	3589.9	3643.5	3639.0
25°	4076.6	4040.9	3964.9	3773.0	3612.2	3500.6	3505.1	3545.2	3585.4	3643.5	3643.5
27.5°	4210.5	4161.4	4009.6	3701.5	3482.7	3375.6	3415.8	3509.5	3567.6	3630.1	3639.0
30°	4357.9	4313.2	4045.3	3576.5	3272.9	3174.6	3272.9	3424.7	3514.0	3572.0	3585.4
32.5°	4536.5	4500.8	4076.6	3415.8	3000.5	2915.7	3058.5	3246.1	3389.0	3455.9	3469.3
35°	4759.7	4724.0	4116.8	3232.7	2746.0	2656.7	2786.2	2978.2	3165.7	3250.5	3277.3
37.5°	5050.0	4996.4	4152.5	3036.2	2531.7	2429.0	2491.5	2665.6	2835.3	2951.4	2982.6
40°	5420.6	5335.7	4183.7	2813.0	2344.1	2228.1	2250.4	2335.2	2433.4	2536.1	2576.3
42.5°	5943.0	5773.3	4188.2	2576.3	2152.1	2045.0	2036.1	2062.8	2062.8	2062.8	2076.2
45°	6670.8	6349.3	4197.1	2353.1	1955.7	1844.1	1817.3	1808.3	1741.4	1611.9	1602.9
47.5°	7590.6	7103.9	4237.3	2165.5	1750.3	1652.1	1616.3	1580.6	1455.6	1321.6	1294.9
50°	8769.3	7979.0	4317.7	1986.9	1576.2	1509.2	1464.5	1379.7	1241.3	1138.6	1111.8
52.5°	10126.7	9019.4	4393.6	1799.4	1446.7	1402.0	1348.4	1245.7	1098.4	1035.9	1027.0
55°	11685.0	10180.3	4545.4	1634.2	1335.0	1303.8	1254.7	1156.4	1044.8	1000.2	995.7
57.5°	13279.0	11479.6	4759.7	1486.9	1227.9	1210.0	1210.0	1125.2	1053.7	1035.9	1035.9
60°	14815.0	12595.9	4594.5	1348.4	1129.7	1138.6	1223.4	1201.1	1147.5	1169.8	1183.2
62.5°	16007.1	13252.2	3728.3	1236.8	1058.2	1138.6	1357.4	1357.4	1294.9	1285.9	1285.9
65°	16516.2	13243.3	2621.0	1152.0	1031.4	1250.2	1513.6	1442.2	1277.0	1214.5	1201.1
67.5°	16386.7	12662.8	1808.3	1093.9	1022.5	1366.3	1585.1	1384.2	1196.6	1143.0	1102.9
70°	15248.1	11435.0	1393.1	1040.4	1009.1	1317.2	1562.8	1317.2	1134.1	1085.0	1049.3
72.5°	12301.2	9171.2	1156.4	986.8	955.5	1219.0	1486.9	1254.7	1085.0	1031.4	995.7
75°	7845.1	5768.8	977.8	915.3	852.8	1093.9	1384.2	1192.2	1031.4	960.0	933.2
77.5°	3773.0	2487.0	852.8	830.5	768.0	1013.6	1281.5	1111.8	960.0	901.9	884.1
80°	1527.0	1138.6	741.2	745.7	705.5	964.4	1210.0	1035.9	888.5	826.0	794.8
82.5°	794.8	660.8	625.1	643.0	643.0	919.8	1156.4	973.4	826.0	799.2	696.5
85°	428.6	410.8	482.2	517.9	558.1	830.5	1076.1	906.4	754.6	647.4	625.1
87.5°	209.9	267.9	272.4	312.6	388.5	665.3	906.4	759.1	629.6	522.4	513.5
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)