

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: P400279

Luminaire Tested: **ARCH-L-PA3-260-727-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400279  
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-PA3-260-727-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 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: 28608 lumens  
Efficiency: N/A  
Efficacy: 109.6 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

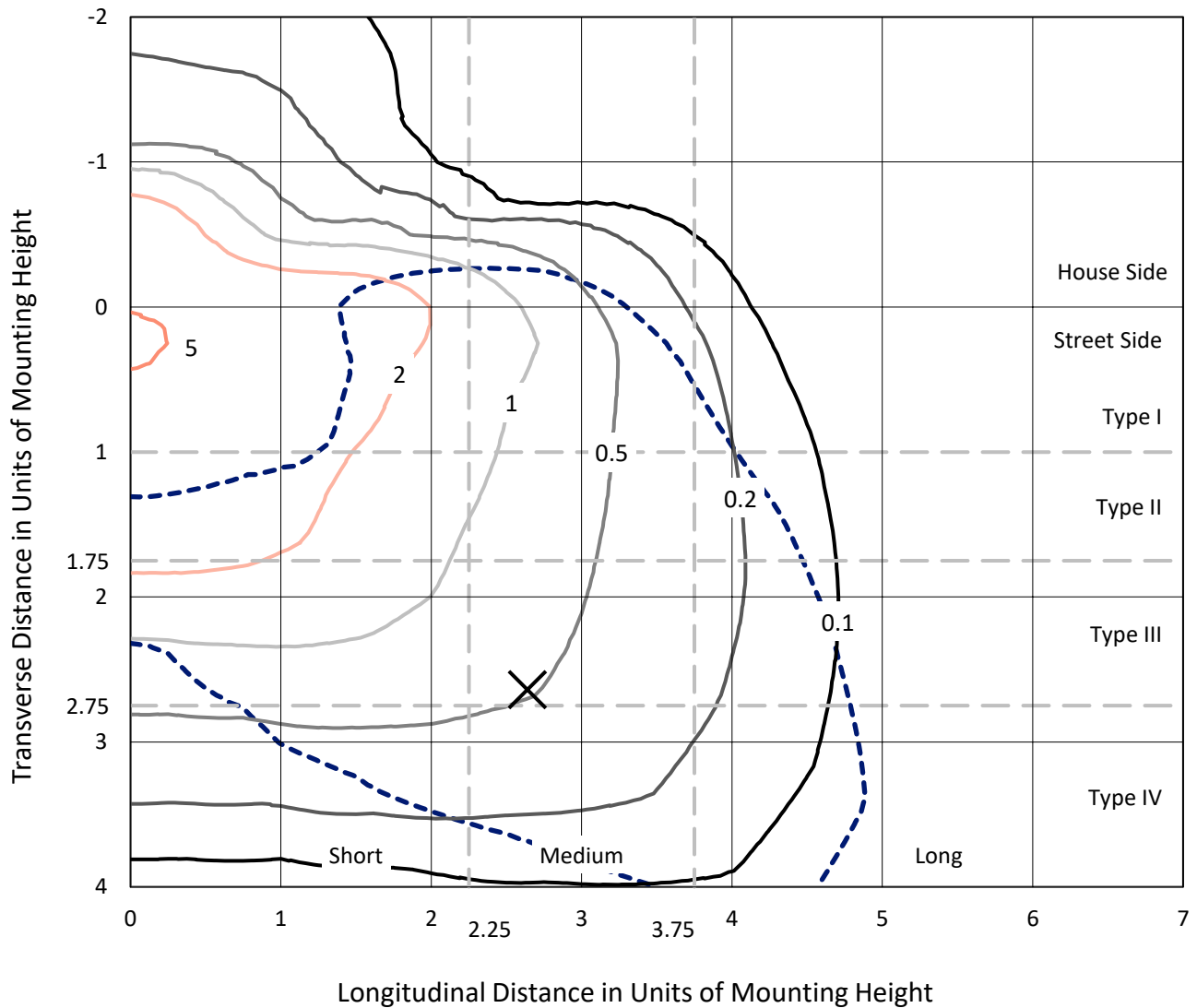
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

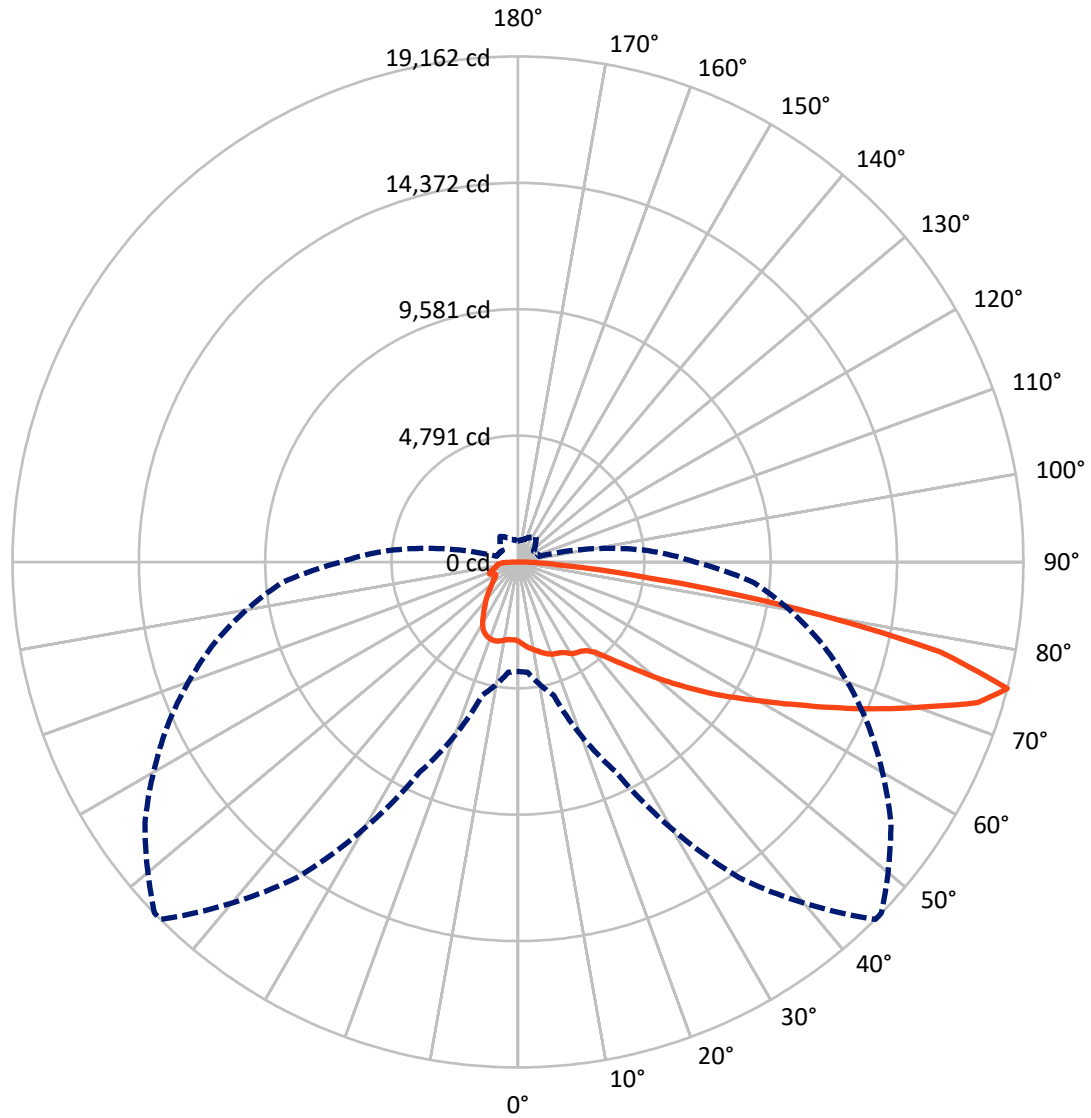
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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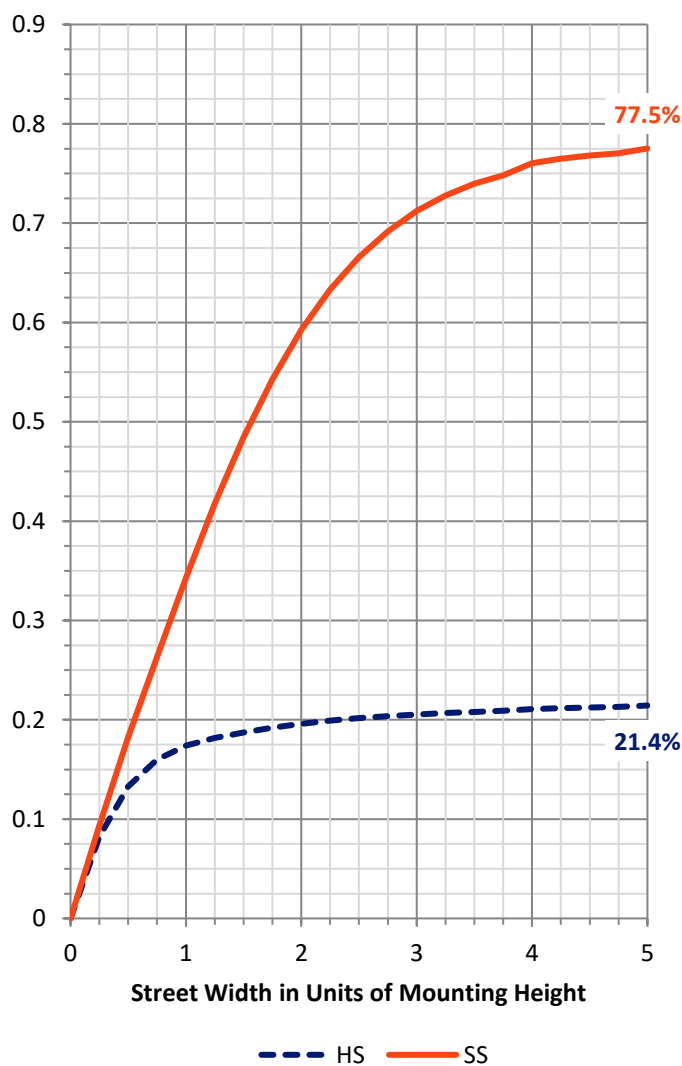
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6322.2	0.0	6322.2
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	22285.8	0.0	22285.8
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	28608.0	0.0	28608.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.2	1.0
10°-20°	945.6	3.3
20°-30°	1612.1	5.6
30°-40°	2258.7	7.9
40°-50°	3318.4	11.6
50°-60°	5281.3	18.5
60°-70°	7512.6	26.3
70°-80°	6290.3	22.0
80°-90°	1091.7	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°	28608.0	100.0
0°-180°	28608.0	100.0

**Coefficient of Utilization**



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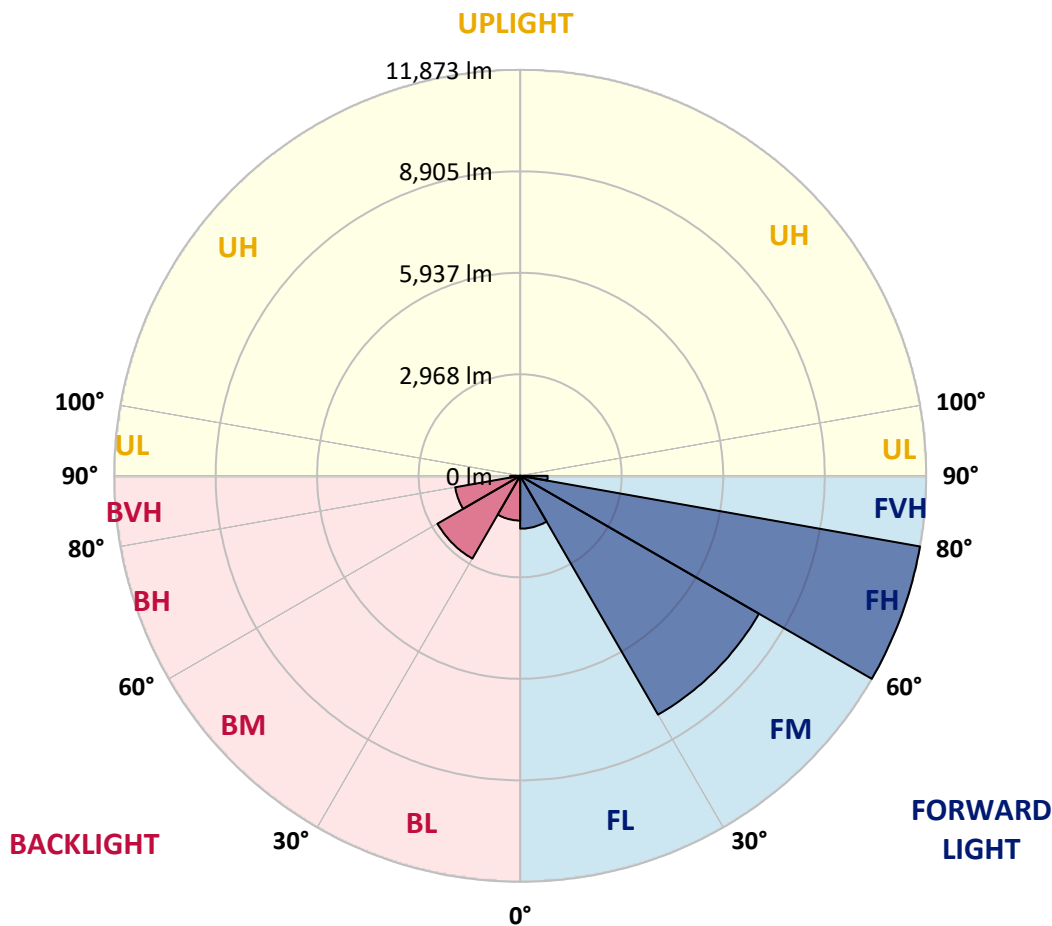
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.4	5.4			
FM (30°-60°)	8063.7	28.2			
FH (60°-80°)	11873.0	41.5			G4/12000
FVH (80°-90°)	802.6	2.8			G5
BL (0°-30°)	1308.5	4.6	B3/2500		
BM (30°-60°)	2794.7	9.8	B3/5000		
BH (60°-80°)	1929.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	289.1	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°	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5
2.5°	3176.5	3161.2	3153.5	3153.5	3123.0	3103.9	3100.0	3073.3	3050.3	3027.4	3008.3
5°	3360.0	3348.5	3325.6	3306.4	3264.4	3210.9	3203.2	3145.9	3088.6	3035.0	2989.2
7.5°	3528.1	3505.2	3478.5	3440.2	3371.4	3298.8	3287.3	3207.1	3126.8	3046.5	2985.4
10°	3669.6	3646.6	3608.4	3554.9	3467.0	3379.1	3367.6	3283.5	3199.4	3103.9	3015.9
12.5°	3803.4	3784.3	3726.9	3654.3	3551.1	3470.8	3459.3	3386.7	3298.8	3191.8	3077.1
15°	3918.0	3898.9	3837.8	3753.7	3635.2	3574.0	3558.7	3489.9	3402.0	3287.3	3168.8
17.5°	3975.4	3975.4	3910.4	3818.7	3707.8	3661.9	3650.5	3566.4	3486.1	3375.2	3256.7
20°	3994.5	4002.1	3956.3	3845.4	3749.8	3730.7	3719.3	3650.5	3558.7	3451.7	3340.8
22.5°	4006.0	4021.2	3983.0	3856.9	3776.6	3765.1	3757.5	3711.6	3639.0	3535.8	3424.9
25°	4044.2	4044.2	4017.4	3876.0	3811.0	3807.2	3807.2	3780.4	3730.7	3642.8	3532.0
27.5°	4101.5	4097.7	4063.3	3918.0	3887.5	3898.9	3895.1	3891.3	3856.9	3769.0	3650.5
30°	4197.1	4197.1	4158.9	4002.1	3983.0	4032.7	4036.5	4044.2	3990.7	3853.1	3757.5
32.5°	4342.3	4327.0	4288.8	4086.2	4055.6	4101.5	4109.2	4105.3	4059.5	3929.5	3883.6
35°	4789.6	4755.2	4617.6	4273.5	4120.6	4147.4	4151.2	4170.3	4178.0	4074.8	4051.8
37.5°	5573.2	5527.3	5317.1	4716.9	4327.0	4262.1	4258.2	4307.9	4350.0	4258.2	4258.2
40°	6425.6	6387.4	6265.0	5481.4	4709.3	4495.2	4479.9	4525.8	4579.3	4514.3	4533.5
42.5°	7159.5	7190.1	7201.5	6291.8	5282.7	4931.0	4888.9	4824.0	4908.1	4850.7	4927.2
45°	7709.9	7694.6	7904.9	7121.3	6024.2	5477.6	5420.3	5244.4	5351.5	5347.6	5515.8
47.5°	8294.8	8268.0	8355.9	7901.1	6869.0	6146.5	6058.6	5798.7	5959.2	6070.1	6349.1
50°	8849.0	8856.7	8887.3	8516.5	7786.4	6960.7	6849.9	6502.0	6731.4	6964.6	7358.3
52.5°	9571.5	9518.0	9479.7	9235.1	8814.6	7809.3	7736.7	7339.2	7660.2	7935.5	8459.1
55°	10202.2	10167.8	10144.9	10133.4	9674.7	8745.8	8669.4	8256.5	8719.1	8914.0	9686.2
57.5°	10874.9	10855.8	10978.2	11173.1	10989.6	9697.6	9617.3	9219.8	9735.8	9873.5	11016.4
60°	11368.0	11379.5	11715.9	12212.8	12086.7	10729.7	10634.1	10282.5	10725.9	10848.2	12346.6
62.5°	11371.9	11486.5	12266.3	13157.0	13302.2	11918.5	11807.6	11425.4	11742.6	11742.6	13539.2
65°	10286.3	10416.2	12166.9	13390.1	14533.1	13332.8	13225.8	12625.6	12744.1	12583.6	14659.2
67.5°	9204.5	9357.4	11004.9	13409.2	15396.9	14846.5	14720.4	13825.9	13623.3	13218.1	15442.8
70°	8485.9	8592.9	9969.0	13160.8	15916.8	16429.0	16333.4	14965.0	14315.2	13749.4	15278.4
72.5°	7144.2	7106.0	8420.9	11979.6	16207.3	18225.6	18145.3	16203.5	14915.3	13497.2	13030.8
75°	4147.4	4193.3	5225.3	8776.4	14609.5	19162.1	19154.4	17262.3	14651.5	11922.3	8979.0
77.5°	1196.4	1230.8	1716.3	3856.9	9238.9	16344.9	16868.6	15786.8	12384.8	8497.4	4655.8
80°	523.7	550.4	745.4	1284.4	3979.2	10676.2	11134.9	10676.2	7469.1	3898.9	1827.1
82.5°	309.6	328.7	485.5	795.1	1907.4	5080.1	5699.3	4976.9	3222.3	1655.1	756.9
85°	175.8	183.5	279.0	504.6	1200.3	1777.5	1995.3	1869.2	1571.0	940.3	397.5
87.5°	80.3	84.1	137.6	237.0	672.8	600.1	623.1	825.7	909.7	573.4	198.8
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°	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5	3004.5
2.5°	3000.6	2989.2	2966.2	2958.6	2947.1	2951.0	2954.8	2954.8	2958.6	2947.1	2947.1
5°	2970.1	2951.0	2928.0	2928.0	2928.0	2958.6	2985.4	3000.6	3008.3	3008.3	3000.6
7.5°	2958.6	2935.7	2908.9	2916.5	2924.2	2962.4	3012.1	3061.8	3077.1	3077.1	3069.4
10°	2981.5	2958.6	2939.5	2951.0	2970.1	3000.6	3038.9	3084.7	3123.0	3126.8	3123.0
12.5°	3035.0	3008.3	2989.2	3012.1	3035.0	3054.2	3073.3	3092.4	3142.1	3149.7	3149.7
15°	3123.0	3096.2	3073.3	3092.4	3100.0	3100.0	3100.0	3100.0	3149.7	3157.4	3157.4
17.5°	3210.9	3187.9	3165.0	3168.8	3145.9	3115.3	3103.9	3100.0	3126.8	3149.7	3153.5
20°	3295.0	3275.9	3252.9	3214.7	3157.4	3100.0	3080.9	3080.9	3096.2	3130.6	3130.6
22.5°	3386.7	3363.8	3325.6	3237.6	3142.1	3061.8	3042.7	3054.2	3073.3	3119.1	3115.3
25°	3489.9	3459.3	3394.4	3230.0	3092.4	2996.8	3000.6	3035.0	3069.4	3119.1	3119.1
27.5°	3604.6	3562.5	3432.6	3168.8	2981.5	2889.8	2924.2	3004.5	3054.2	3107.7	3115.3
30°	3730.7	3692.5	3463.2	3061.8	2801.9	2717.8	2801.9	2931.8	3008.3	3058.0	3069.4
32.5°	3883.6	3853.1	3489.9	2924.2	2568.7	2496.1	2618.4	2778.9	2901.3	2958.6	2970.1
35°	4074.8	4044.2	3524.3	2767.5	2350.8	2274.4	2385.2	2549.6	2710.1	2782.8	2805.7
37.5°	4323.2	4277.4	3554.9	2599.3	2167.3	2079.4	2132.9	2282.0	2427.3	2526.7	2553.4
40°	4640.5	4567.9	3581.7	2408.2	2006.8	1907.4	1926.5	1999.2	2083.2	2171.2	2205.6
42.5°	5087.7	4942.5	3585.5	2205.6	1842.4	1750.7	1743.0	1766.0	1766.0	1766.0	1777.5
45°	5710.8	5435.6	3593.1	2014.4	1674.2	1578.7	1555.7	1548.1	1490.8	1379.9	1372.3
47.5°	6498.2	6081.6	3627.5	1853.9	1498.4	1414.3	1383.7	1353.2	1246.1	1131.5	1108.5
50°	7507.3	6830.8	3696.3	1701.0	1349.3	1292.0	1253.8	1181.1	1062.6	974.7	951.8
52.5°	8669.4	7721.4	3761.3	1540.5	1238.5	1200.3	1154.4	1066.5	940.3	886.8	879.2
55°	10003.4	8715.2	3891.3	1399.0	1142.9	1116.2	1074.1	990.0	894.5	856.2	852.4
57.5°	11368.0	9827.6	4074.8	1272.9	1051.2	1035.9	1035.9	963.3	902.1	886.8	886.8
60°	12683.0	10783.2	3933.3	1154.4	967.1	974.7	1047.4	1028.2	982.4	1001.5	1013.0
62.5°	13703.6	11345.1	3191.8	1058.8	905.9	974.7	1162.0	1162.0	1108.5	1100.9	1100.9
65°	14139.3	11337.5	2243.8	986.2	883.0	1070.3	1295.8	1234.7	1093.2	1039.7	1028.2
67.5°	14028.5	10840.5	1548.1	936.5	875.3	1169.7	1357.0	1185.0	1024.4	978.6	944.2
70°	13053.8	9789.4	1192.6	890.6	863.9	1127.6	1337.9	1127.6	970.9	928.9	898.3
72.5°	10530.9	7851.4	990.0	844.8	818.0	1043.5	1272.9	1074.1	928.9	883.0	852.4
75°	6716.1	4938.6	837.1	783.6	730.1	936.5	1185.0	1020.6	883.0	821.8	798.9
77.5°	3230.0	2129.1	730.1	711.0	657.5	867.7	1097.1	951.8	821.8	772.1	756.9
80°	1307.3	974.7	634.5	638.4	604.0	825.7	1035.9	886.8	760.7	707.2	680.4
82.5°	680.4	565.7	535.1	550.4	550.4	787.4	990.0	833.3	707.2	684.2	596.3
85°	367.0	351.7	412.8	443.4	477.8	711.0	921.2	776.0	646.0	554.3	535.1
87.5°	179.7	229.3	233.2	267.6	332.6	569.5	776.0	649.8	539.0	447.2	439.6
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)