

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: P400313

Luminaire Tested: **ARCH-L-PA3-260-760-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
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-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34351 lumens  
Efficiency: N/A  
Efficacy: 131.6 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

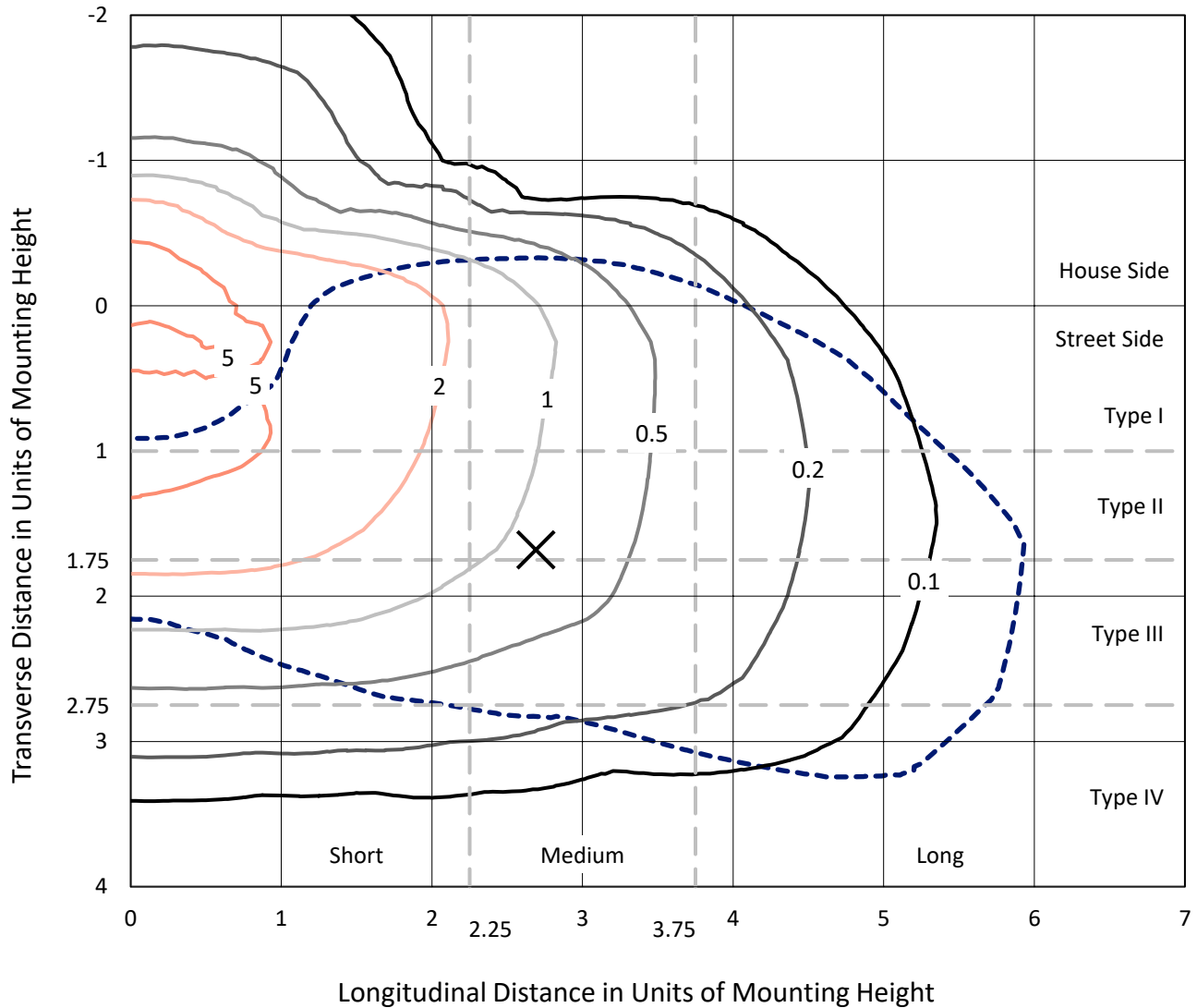
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

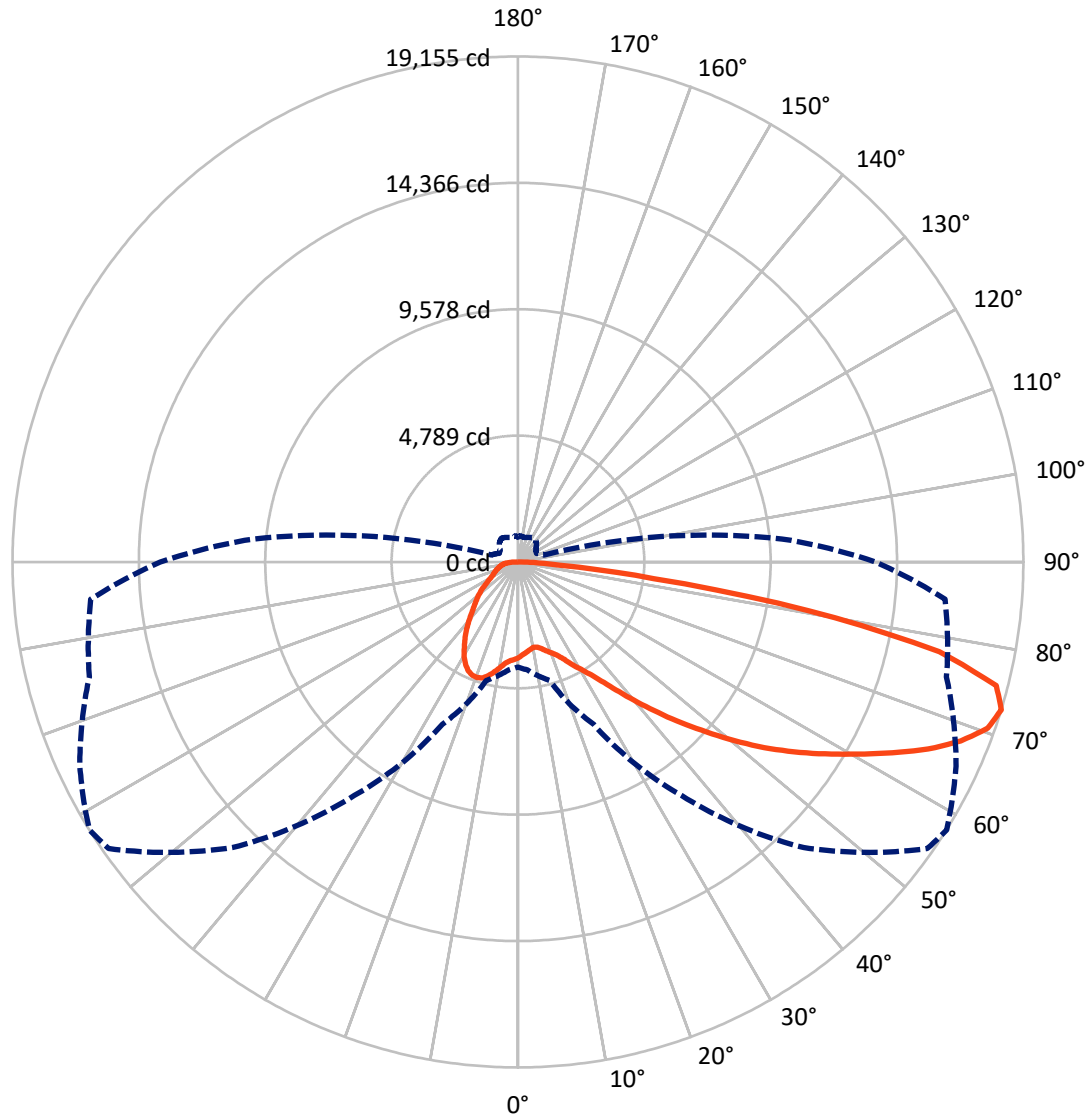
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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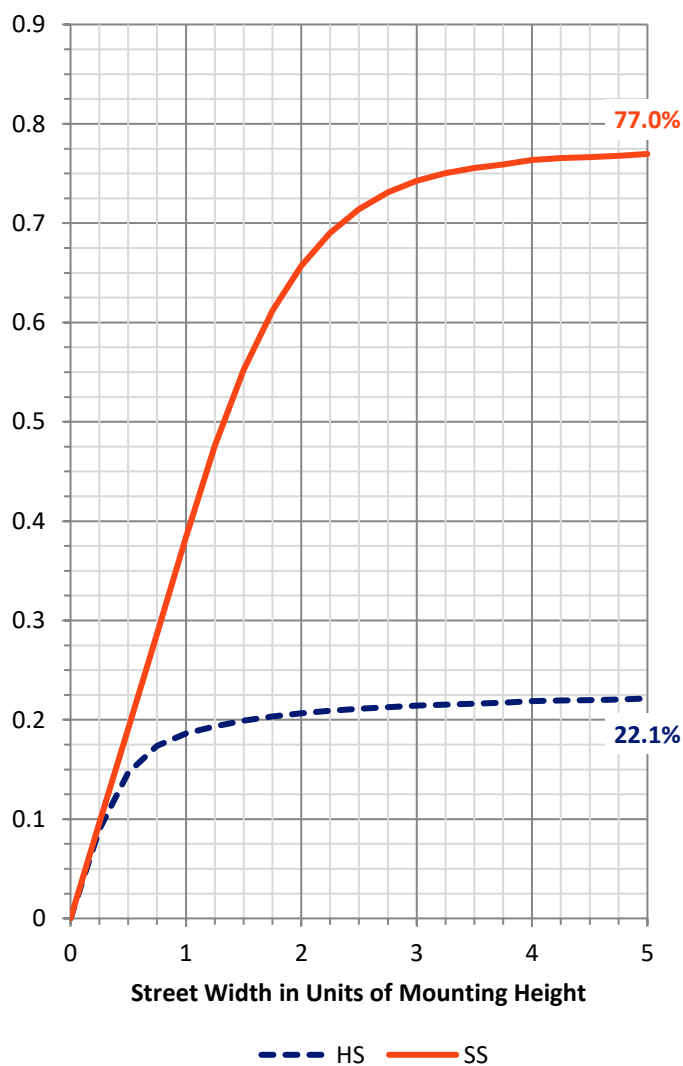
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7790.4	0.0	7790.4
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	26560.6	0.0	26560.6
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	34351.0	0.0	34351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.0	1.0
10°-20°	1108.5	3.2
20°-30°	1985.6	5.8
30°-40°	2986.9	8.7
40°-50°	4836.9	14.1
50°-60°	7281.1	21.2
60°-70°	8569.0	24.9
70°-80°	6076.2	17.7
80°-90°	1157.8	3.4
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°	34351.0	100.0
0°-180°	34351.0	100.0

**Coefficient of Utilization**

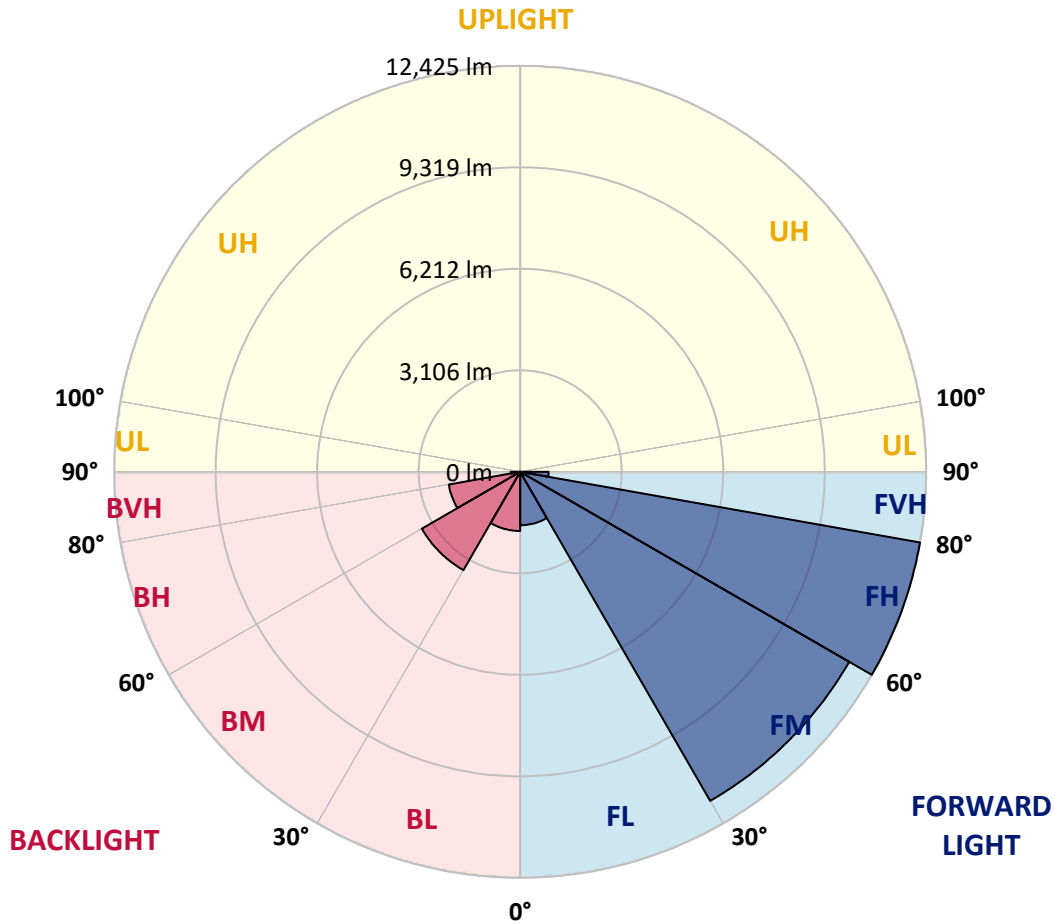


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1633.5	4.8			
FM (30°-60°)	11628.8	33.9			
FH (60°-80°)	12424.9	36.2			G5
FVH (80°-90°)	873.3	2.5			G5
BL (0°-30°)	1809.6	5.3	B3/2500		
BM (30°-60°)	3476.0	10.1	B3/5000		
BH (60°-80°)	2220.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	284.5	0.8			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°	55°	58°	65°	75°	85°
0°	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3
2.5°	3487.3	3469.1	3473.7	3473.7	3491.8	3500.9	3505.4	3519.0	3528.1	3550.7	3582.5
5°	3324.0	3310.4	3314.9	3319.5	3351.2	3383.0	3410.2	3428.3	3455.5	3491.8	3537.1
7.5°	3206.1	3197.0	3201.6	3210.6	3237.8	3274.1	3319.5	3346.7	3387.5	3455.5	3532.6
10°	3119.9	3119.9	3124.5	3142.6	3169.8	3215.2	3251.4	3283.2	3364.8	3487.3	3605.2
12.5°	3051.9	3051.9	3065.5	3101.8	3147.1	3192.5	3278.7	3314.9	3423.8	3591.6	3732.1
15°	3047.4	3051.9	3056.5	3088.2	3138.1	3237.8	3364.8	3419.2	3550.7	3750.3	3913.5
17.5°	3119.9	3124.5	3106.3	3115.4	3174.4	3314.9	3482.7	3546.2	3714.0	3931.7	4099.5
20°	3342.1	3342.1	3287.7	3237.8	3278.7	3432.8	3623.3	3686.8	3872.7	4113.1	4280.8
22.5°	3795.6	3818.3	3691.3	3582.5	3519.0	3605.2	3777.5	3845.5	4054.1	4312.6	4480.4
25°	4344.3	4367.0	4194.7	4040.5	3922.6	3909.0	4022.4	4094.9	4267.2	4534.8	4675.4
27.5°	4874.9	4834.1	4675.4	4530.3	4380.6	4258.2	4344.3	4407.8	4607.4	4811.4	4897.6
30°	5292.1	5260.4	5106.2	5001.9	4861.3	4702.6	4652.7	4720.7	4884.0	5074.4	5119.8
32.5°	5754.7	5732.0	5577.8	5441.8	5323.8	5174.2	5065.4	5097.1	5187.8	5323.8	5351.1
35°	6344.2	6394.1	6230.8	5954.2	5822.7	5677.6	5600.5	5609.5	5677.6	5763.7	5718.4
37.5°	6965.4	7024.4	7033.5	6598.1	6421.3	6289.8	6208.1	6239.9	6321.5	6380.5	6239.9
40°	8117.3	8058.3	7822.5	7500.5	7228.5	7101.5	6988.1	6983.6	7042.5	7146.8	6892.9
42.5°	9645.5	9591.1	9114.9	8697.7	8266.9	8121.8	7899.6	7804.4	7831.6	7963.1	7609.4
45°	11110.2	11087.6	10706.6	10221.4	9704.5	9423.3	8915.4	8684.1	8661.5	8765.8	8344.0
47.5°	12411.7	12312.0	12035.3	11659.0	11604.5	10869.9	9935.7	9622.8	9514.0	9572.9	9101.3
50°	13803.9	13463.8	13082.9	12851.6	13246.1	12561.4	10965.1	10638.6	10371.1	10411.9	9922.1
52.5°	14543.1	13971.7	13722.3	13790.3	14320.9	14057.9	12085.2	11686.2	11255.4	11314.3	10738.4
55°	13908.2	13903.7	14012.5	14434.2	15173.4	14869.6	13150.9	12702.0	12230.3	12243.9	11677.1
57.5°	13037.5	13214.4	13776.7	14706.3	16230.0	15722.1	14198.4	13722.3	13291.5	13223.5	12742.8
60°	12243.9	12438.9	13255.2	14661.0	16597.3	16502.1	15196.1	14778.9	14429.7	14230.2	13862.9
62.5°	11037.7	11182.8	12339.2	14370.8	16289.0	17064.4	16207.4	15921.7	15658.6	15246.0	15069.1
65°	9618.3	9668.2	10888.0	13413.9	15903.5	17282.1	17214.1	17087.1	16833.2	16225.5	16261.8
67.5°	8081.0	8180.8	9251.0	11885.7	15060.1	17182.3	17994.1	18098.4	17799.1	16887.6	17023.6
70°	6443.9	6566.4	7378.1	9772.5	13627.1	16751.5	18715.1	18882.9	18307.0	17105.2	17164.2
72.5°	3986.1	4104.0	4648.2	6788.6	10801.9	15304.9	18937.3	19155.0	18320.6	16815.0	16248.2
75°	1378.6	1392.2	1818.5	3256.0	6412.2	11554.7	18211.7	18724.2	17744.6	15758.4	14139.5
77.5°	630.3	653.0	807.2	1342.3	2843.3	6235.3	15037.4	16320.7	15994.2	14107.7	10883.5
80°	435.3	444.4	557.8	802.7	1641.6	2194.8	9491.3	11164.7	11736.0	10924.3	6974.5
82.5°	326.5	335.6	430.8	544.2	1183.6	1065.7	3614.2	5187.8	6448.5	6330.6	2915.9
85°	312.9	308.4	335.6	362.8	789.1	634.9	1170.0	1605.3	2516.8	2154.0	734.6
87.5°	136.0	149.6	344.6	204.1	412.7	294.8	507.9	594.1	766.4	666.6	263.0
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°	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3	3623.3
2.5°	3596.1	3605.2	3632.4	3673.2	3695.9	3741.2	3772.9	3791.1	3804.7	3809.2	3809.2
5°	3564.3	3582.5	3641.4	3709.5	3772.9	3868.2	3954.3	4004.2	4040.5	4054.1	4058.6
7.5°	3573.4	3618.8	3704.9	3804.7	3886.3	4008.8	4113.1	4212.8	4294.4	4326.2	4326.2
10°	3659.6	3723.1	3841.0	3972.5	4076.8	4203.8	4312.6	4398.7	4494.0	4548.4	4557.5
12.5°	3791.1	3868.2	4022.4	4167.5	4285.4	4385.1	4484.9	4548.4	4593.7	4634.6	4643.6
15°	3977.0	4072.2	4226.4	4376.1	4480.4	4543.9	4571.1	4571.1	4566.5	4571.1	4580.1
17.5°	4162.9	4253.6	4407.8	4557.5	4607.4	4571.1	4539.3	4530.3	4525.7	4516.7	4521.2
20°	4344.3	4430.5	4562.0	4675.4	4634.6	4507.6	4466.8	4462.2	4448.6	4439.6	4430.5
22.5°	4525.7	4589.2	4698.0	4738.9	4575.6	4394.2	4344.3	4317.1	4299.0	4276.3	4253.6
25°	4734.3	4752.5	4834.1	4770.6	4430.5	4185.6	4113.1	4072.2	4054.1	4031.4	4013.3
27.5°	4929.3	4929.3	4942.9	4720.7	4217.4	3909.0	3800.2	3727.6	3723.1	3718.5	3714.0
30°	5106.2	5083.5	5038.2	4571.1	3940.7	3568.9	3405.6	3333.1	3360.3	3383.0	3387.5
32.5°	5314.8	5269.4	5142.5	4367.0	3609.7	3188.0	2988.4	2956.7	2988.4	3015.6	2997.5
35°	5641.3	5559.7	5251.3	4131.2	3292.3	2838.8	2648.3	2603.0	2593.9	2589.4	2553.1
37.5°	6108.4	5967.8	5337.5	3877.2	2979.4	2530.4	2389.8	2294.6	2208.4	2117.7	2104.1
40°	6679.8	6439.4	5396.4	3587.0	2648.3	2271.9	2122.3	1999.8	1854.7	1696.0	1677.9
42.5°	7305.6	6947.3	5423.6	3265.1	2358.1	2058.8	1872.9	1718.7	1555.4	1433.0	1410.3
45°	7981.2	7496.0	5400.9	2956.7	2122.3	1877.4	1668.8	1501.0	1369.5	1283.3	1265.2
47.5°	8638.8	8126.4	5337.5	2711.8	1940.9	1723.2	1510.1	1355.9	1256.1	1160.9	1138.2
50°	9482.3	8729.5	5260.4	2521.3	1741.4	1569.0	1410.3	1247.1	1133.7	1088.4	1079.3
52.5°	10416.4	9332.6	5169.7	2281.0	1546.4	1446.6	1346.8	1201.7	1165.4	1079.3	1065.7
55°	11427.7	10049.1	5151.5	1977.2	1374.0	1360.4	1283.3	1242.5	1251.6	1079.3	1056.6
57.5°	12493.4	10815.5	5192.3	1673.3	1233.5	1283.3	1310.6	1278.8	1265.2	1102.0	1056.6
60°	13604.4	11554.7	5069.9	1392.2	1124.6	1219.9	1342.3	1260.7	1160.9	1092.9	1061.1
62.5°	14683.7	12175.9	4539.3	1192.7	1043.0	1201.7	1324.2	1192.7	1079.3	1079.3	1065.7
65°	15468.2	12452.5	3550.7	1047.5	988.6	1179.0	1292.4	1147.3	1056.6	1088.4	1070.2
67.5°	15558.9	12166.9	2385.3	934.2	943.2	1138.2	1219.9	1106.5	1033.9	1115.6	1088.4
70°	15001.1	11423.1	1460.2	848.0	884.3	1065.7	1156.4	1065.7	1002.2	1092.9	1052.1
72.5°	13554.5	10035.5	1029.4	775.4	820.8	997.7	1097.4	1029.4	956.8	988.6	947.8
75°	11119.3	7777.2	816.3	707.4	757.3	934.2	1047.5	975.0	902.4	888.8	861.6
77.5°	7876.9	4983.7	657.5	653.0	689.3	857.1	979.5	911.5	838.9	811.7	793.6
80°	4530.3	2444.3	566.8	589.5	625.8	780.0	897.9	838.9	770.9	730.1	702.9
82.5°	1732.3	852.5	498.8	512.4	553.2	698.4	816.3	766.4	698.4	734.6	616.7
85°	562.3	467.1	408.1	421.7	462.5	580.5	721.0	680.2	603.1	535.1	494.3
87.5°	249.4	253.9	217.7	240.3	290.2	385.5	526.0	498.8	439.9	367.3	353.7
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)