

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: P399766

Luminaire Tested: **ARCH-L-PA3-190-722-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399766  
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-PA3-190-722-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20261 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

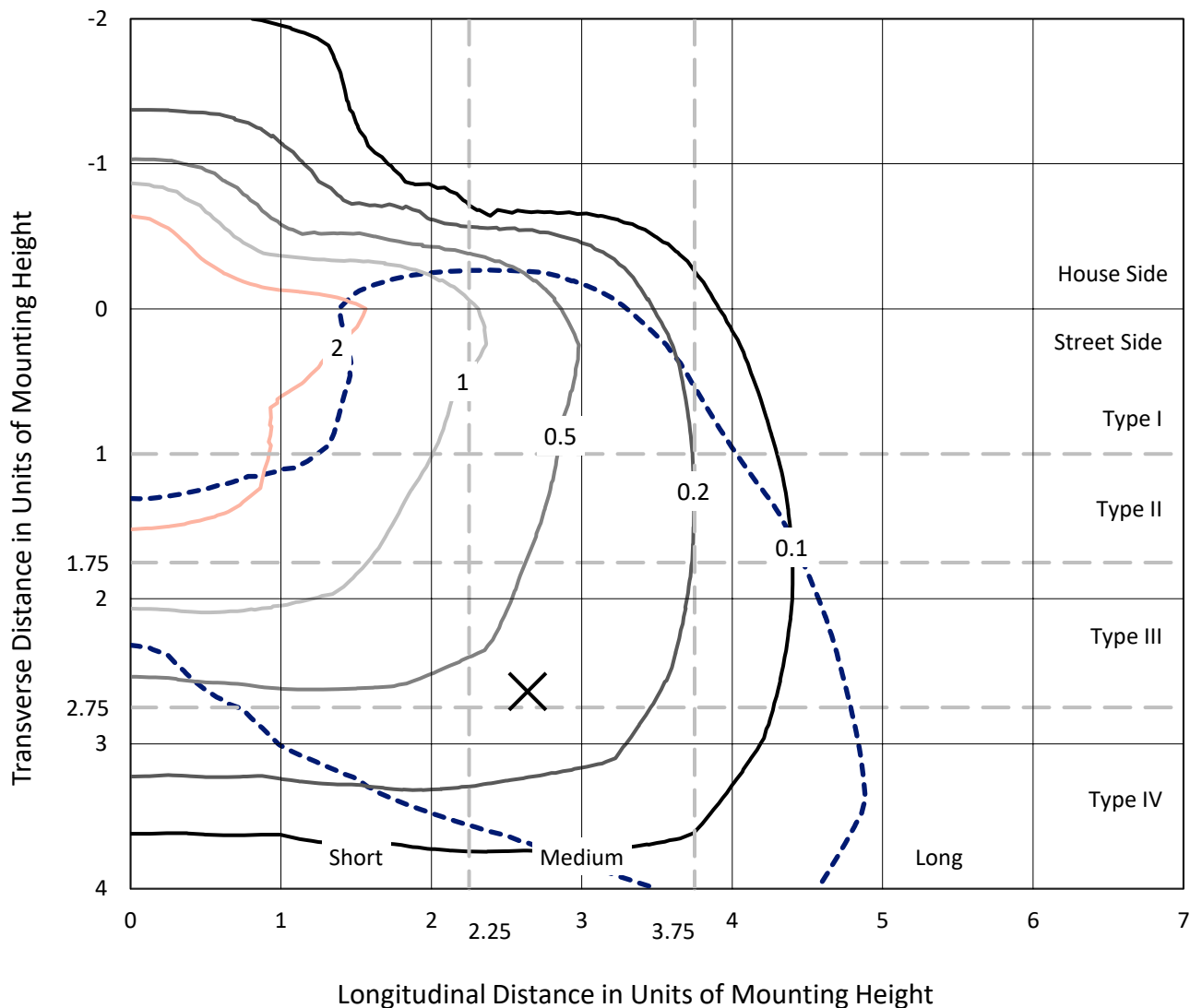
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399766  
 CATALOG NUMBER: ARCH-L-PA3-190-722-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

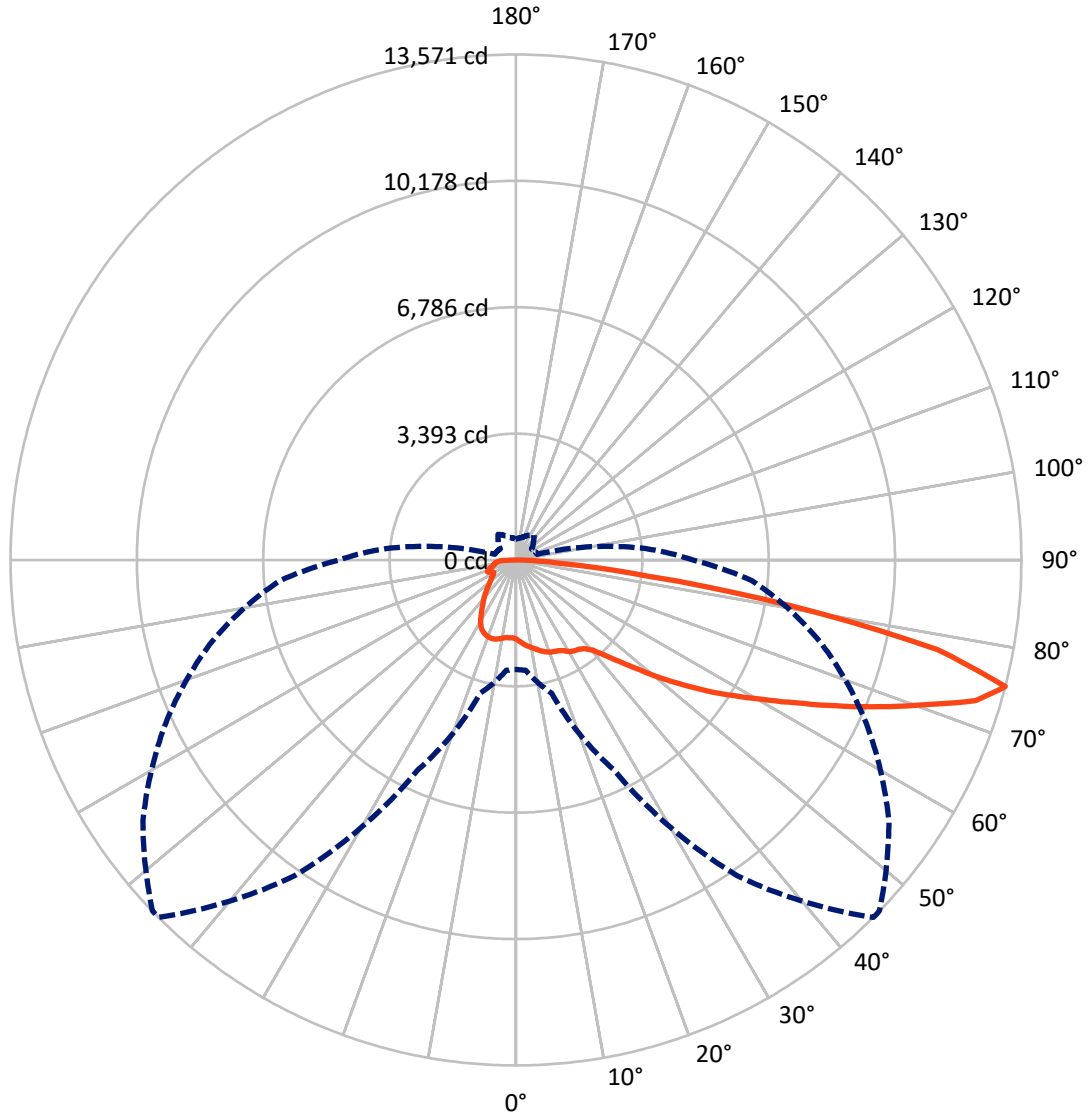
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P399766  
CATALOG NUMBER: ARCH-L-PA3-190-722-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P399766  
 CATALOG NUMBER: ARCH-L-PA3-190-722-U-T4W

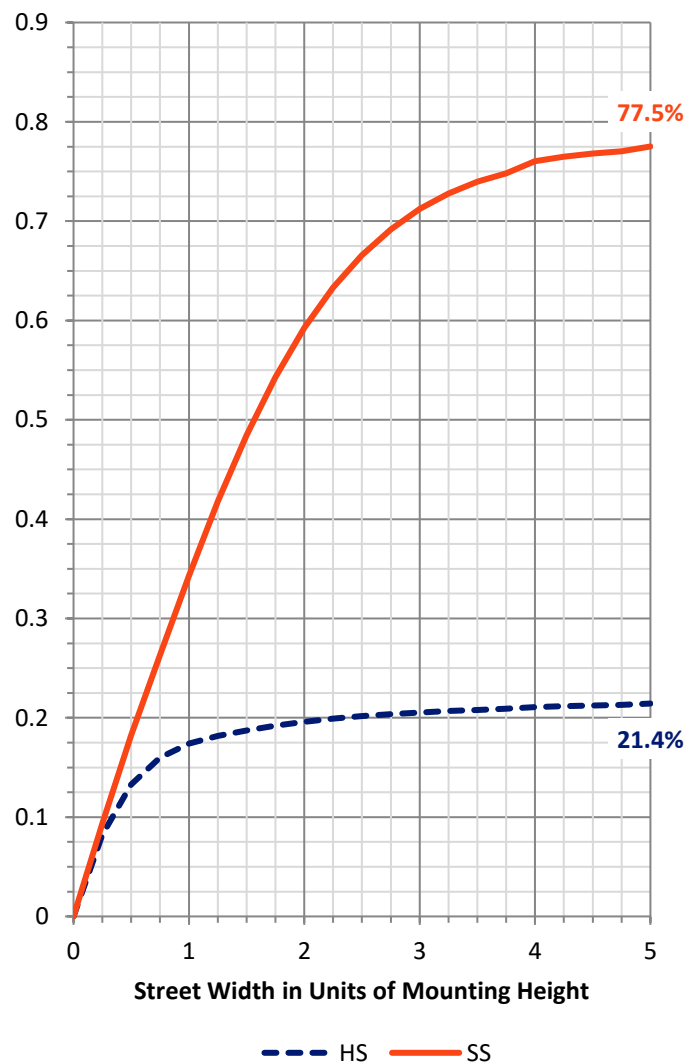
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4477.6	0.0	4477.6
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	15783.4	0.0	15783.4
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	20261.0	0.0	20261.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	1.0
10°-20°	669.7	3.3
20°-30°	1141.7	5.6
30°-40°	1599.7	7.9
40°-50°	2350.2	11.6
50°-60°	3740.4	18.5
60°-70°	5320.7	26.3
70°-80°	4455.0	22.0
80°-90°	773.2	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°	20261.0	100.0
0°-180°	20261.0	100.0

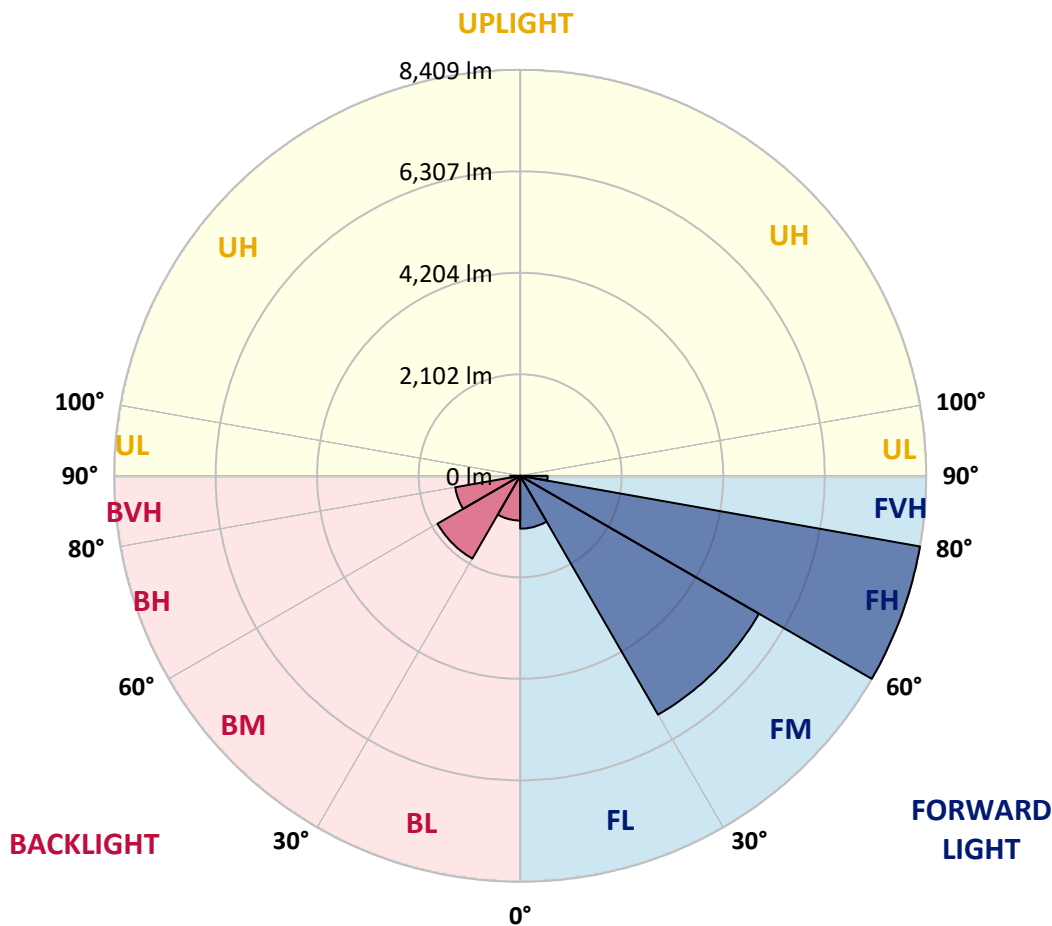


REPORT NUMBER: P399766  
 CATALOG NUMBER: ARCH-L-PA3-190-722-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.2	5.4			
FM (30°-60°)	5711.0	28.2			
FH (60°-80°)	8408.8	41.5			G4/12000
FVH (80°-90°)	568.4	2.8			G4/750
BL (0°-30°)	926.7	4.6	B2/1000		
BM (30°-60°)	1979.3	9.8	B2/2500		
BH (60°-80°)	1366.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	204.8	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





REPORT NUMBER: P399766

CATALOG NUMBER: ARCH-L-PA3-190-722-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8
2.5°	2249.7	2238.8	2233.4	2233.4	2211.8	2198.2	2195.5	2176.6	2160.3	2144.1	2130.6
5°	2379.6	2371.5	2355.3	2341.7	2311.9	2274.0	2268.6	2228.0	2187.4	2149.5	2117.0
7.5°	2498.7	2482.5	2463.5	2436.5	2387.7	2336.3	2328.2	2271.3	2214.5	2157.6	2114.3
10°	2598.9	2582.7	2555.6	2517.7	2455.4	2393.2	2385.0	2325.5	2265.9	2198.2	2136.0
12.5°	2693.7	2680.1	2639.5	2588.1	2515.0	2458.1	2450.0	2398.6	2336.3	2260.5	2179.3
15°	2774.9	2761.3	2718.0	2658.5	2574.5	2531.2	2520.4	2471.7	2409.4	2328.2	2244.3
17.5°	2815.5	2815.5	2769.5	2704.5	2626.0	2593.5	2585.4	2525.8	2469.0	2390.4	2306.5
20°	2829.0	2834.4	2801.9	2723.4	2655.7	2642.2	2634.1	2585.4	2520.4	2444.6	2366.1
22.5°	2837.1	2848.0	2820.9	2731.6	2674.7	2666.6	2661.2	2628.7	2577.2	2504.1	2425.6
25°	2864.2	2864.2	2845.3	2745.1	2699.1	2696.4	2696.4	2677.4	2642.2	2579.9	2501.4
27.5°	2904.8	2902.1	2877.7	2774.9	2753.2	2761.3	2758.6	2755.9	2731.6	2669.3	2585.4
30°	2972.5	2972.5	2945.4	2834.4	2820.9	2856.1	2858.8	2864.2	2826.3	2728.8	2661.2
32.5°	3075.4	3064.5	3037.5	2894.0	2872.3	2904.8	2910.2	2907.5	2875.0	2783.0	2750.5
35°	3392.1	3367.7	3270.3	3026.6	2918.3	2937.3	2940.0	2953.5	2959.0	2885.9	2869.6
37.5°	3947.1	3914.6	3765.7	3340.7	3064.5	3018.5	3015.8	3051.0	3080.8	3015.8	3015.8
40°	4550.8	4523.7	4437.1	3882.1	3335.3	3183.7	3172.8	3205.3	3243.2	3197.2	3210.7
42.5°	5070.6	5092.2	5100.3	4456.0	3741.3	3492.3	3462.5	3416.5	3476.0	3435.4	3489.6
45°	5460.4	5449.6	5598.5	5043.5	4266.5	3879.4	3838.8	3714.3	3790.1	3787.4	3906.5
47.5°	5874.6	5855.6	5917.9	5595.8	4864.8	4353.2	4290.9	4106.8	4220.5	4299.0	4496.6
50°	6267.1	6272.6	6294.2	6031.6	5514.5	4929.8	4851.3	4604.9	4767.4	4932.5	5211.3
52.5°	6778.8	6740.9	6713.8	6540.6	6242.8	5530.8	5479.3	5197.8	5425.2	5620.1	5991.0
55°	7225.5	7201.1	7184.9	7176.8	6851.9	6194.0	6139.9	5847.5	6175.1	6313.2	6860.0
57.5°	7701.9	7688.4	7775.0	7913.1	7783.2	6868.1	6811.3	6529.7	6895.2	6992.7	7802.1
60°	8051.2	8059.3	8297.5	8649.5	8560.1	7599.1	7531.4	7282.3	7596.4	7683.0	8744.2
62.5°	8053.9	8135.1	8687.4	9318.1	9421.0	8441.0	8362.5	8091.8	8316.5	8316.5	9588.9
65°	7285.0	7377.1	8617.0	9483.3	10292.7	9442.7	9366.9	8941.8	9025.8	8912.1	10382.1
67.5°	6518.9	6627.2	7794.0	9496.8	10904.5	10514.7	10425.4	9791.9	9648.4	9361.4	10937.0
70°	6010.0	6085.8	7060.3	9320.8	11272.7	11635.5	11567.8	10598.6	10138.4	9737.7	10820.6
72.5°	5059.7	5032.7	5963.9	8484.3	11478.5	12907.9	12851.0	11475.8	10563.4	9559.1	9228.8
75°	2937.3	2969.8	3700.7	6215.7	10346.9	13571.1	13565.7	12225.7	10376.6	8443.7	6359.2
77.5°	847.3	871.7	1215.5	2731.6	6543.3	11575.9	11946.8	11180.7	8771.3	6018.1	3297.4
80°	370.9	389.8	527.9	909.6	2818.2	7561.2	7886.0	7561.2	5289.8	2761.3	1294.0
82.5°	219.3	232.8	343.8	563.1	1350.9	3597.9	4036.4	3524.8	2282.2	1172.2	536.0
85°	124.5	129.9	197.6	357.3	850.1	1258.8	1413.2	1323.8	1112.7	666.0	281.5
87.5°	56.9	59.6	97.5	167.8	476.5	425.0	441.3	584.8	644.3	406.1	140.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399766

CATALOG NUMBER: ARCH-L-PA3-190-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8	2127.8
2.5°	2125.1	2117.0	2100.8	2095.4	2087.2	2089.9	2092.7	2092.7	2095.4	2087.2	2087.2
5°	2103.5	2089.9	2073.7	2073.7	2073.7	2095.4	2114.3	2125.1	2130.6	2130.6	2125.1
7.5°	2095.4	2079.1	2060.2	2065.6	2071.0	2098.1	2133.3	2168.5	2179.3	2179.3	2173.9
10°	2111.6	2095.4	2081.8	2089.9	2103.5	2125.1	2152.2	2184.7	2211.8	2214.5	2211.8
12.5°	2149.5	2130.6	2117.0	2133.3	2149.5	2163.0	2176.6	2190.1	2225.3	2230.7	2230.7
15°	2211.8	2192.8	2176.6	2190.1	2195.5	2195.5	2195.5	2195.5	2230.7	2236.1	2236.1
17.5°	2274.0	2257.8	2241.6	2244.3	2228.0	2206.4	2198.2	2195.5	2214.5	2230.7	2233.4
20°	2333.6	2320.1	2303.8	2276.7	2236.1	2195.5	2182.0	2182.0	2192.8	2217.2	2217.2
22.5°	2398.6	2382.3	2355.3	2293.0	2225.3	2168.5	2154.9	2163.0	2176.6	2209.1	2206.4
25°	2471.7	2450.0	2404.0	2287.6	2190.1	2122.4	2125.1	2149.5	2173.9	2209.1	2209.1
27.5°	2552.9	2523.1	2431.1	2244.3	2111.6	2046.6	2071.0	2127.8	2163.0	2200.9	2206.4
30°	2642.2	2615.1	2452.7	2168.5	1984.4	1924.8	1984.4	2076.4	2130.6	2165.7	2173.9
32.5°	2750.5	2728.8	2471.7	2071.0	1819.2	1767.8	1854.4	1968.1	2054.8	2095.4	2103.5
35°	2885.9	2864.2	2496.0	1960.0	1664.9	1610.8	1689.3	1805.7	1919.4	1970.8	1987.1
37.5°	3061.8	3029.3	2517.7	1840.9	1535.0	1472.7	1510.6	1616.2	1719.1	1789.5	1808.4
40°	3286.5	3235.1	2536.6	1705.5	1421.3	1350.9	1364.4	1415.9	1475.4	1537.7	1562.0
42.5°	3603.3	3500.4	2539.3	1562.0	1304.9	1239.9	1234.5	1250.7	1250.7	1250.7	1258.8
45°	4044.5	3849.6	2544.8	1426.7	1185.7	1118.1	1101.8	1096.4	1055.8	977.3	971.9
47.5°	4602.2	4307.1	2569.1	1313.0	1061.2	1001.7	980.0	958.3	882.5	801.3	785.1
50°	5316.9	4837.7	2617.8	1204.7	955.6	915.0	888.0	836.5	752.6	690.3	674.1
52.5°	6139.9	5468.5	2663.9	1091.0	877.1	850.1	817.6	755.3	666.0	628.1	622.7
55°	7084.7	6172.4	2755.9	990.8	809.4	790.5	760.7	701.2	633.5	606.4	603.7
57.5°	8051.2	6960.2	2885.9	901.5	744.5	733.6	733.6	682.2	638.9	628.1	628.1
60°	8982.4	7637.0	2785.7	817.6	684.9	690.3	741.8	728.2	695.7	709.3	717.4
62.5°	9705.3	8034.9	2260.5	749.9	641.6	690.3	823.0	823.0	785.1	779.7	779.7
65°	10013.9	8029.5	1589.1	698.5	625.4	758.0	917.7	874.4	774.3	736.4	728.2
67.5°	9935.4	7677.6	1096.4	663.3	619.9	828.4	961.1	839.2	725.5	693.0	668.7
70°	9245.0	6933.1	844.6	630.8	611.8	798.6	947.5	798.6	687.6	657.8	636.2
72.5°	7458.3	5560.6	701.2	598.3	579.3	739.1	901.5	760.7	657.8	625.4	603.7
75°	4756.5	3497.7	592.9	555.0	517.1	663.3	839.2	722.8	625.4	582.0	565.8
77.5°	2287.6	1507.9	517.1	503.5	465.6	614.5	777.0	674.1	582.0	546.9	536.0
80°	925.9	690.3	449.4	452.1	427.7	584.8	733.6	628.1	538.7	500.8	481.9
82.5°	481.9	400.7	379.0	389.8	389.8	557.7	701.2	590.2	500.8	484.6	422.3
85°	259.9	249.1	292.4	314.0	338.4	503.5	652.4	549.6	457.5	392.5	379.0
87.5°	127.2	162.4	165.1	189.5	235.5	403.4	549.6	460.2	381.7	316.7	311.3
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)