

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: P399710

Luminaire Tested: **ARCH-L-PA3-180-730-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399710  
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-PA3-180-730-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24356 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

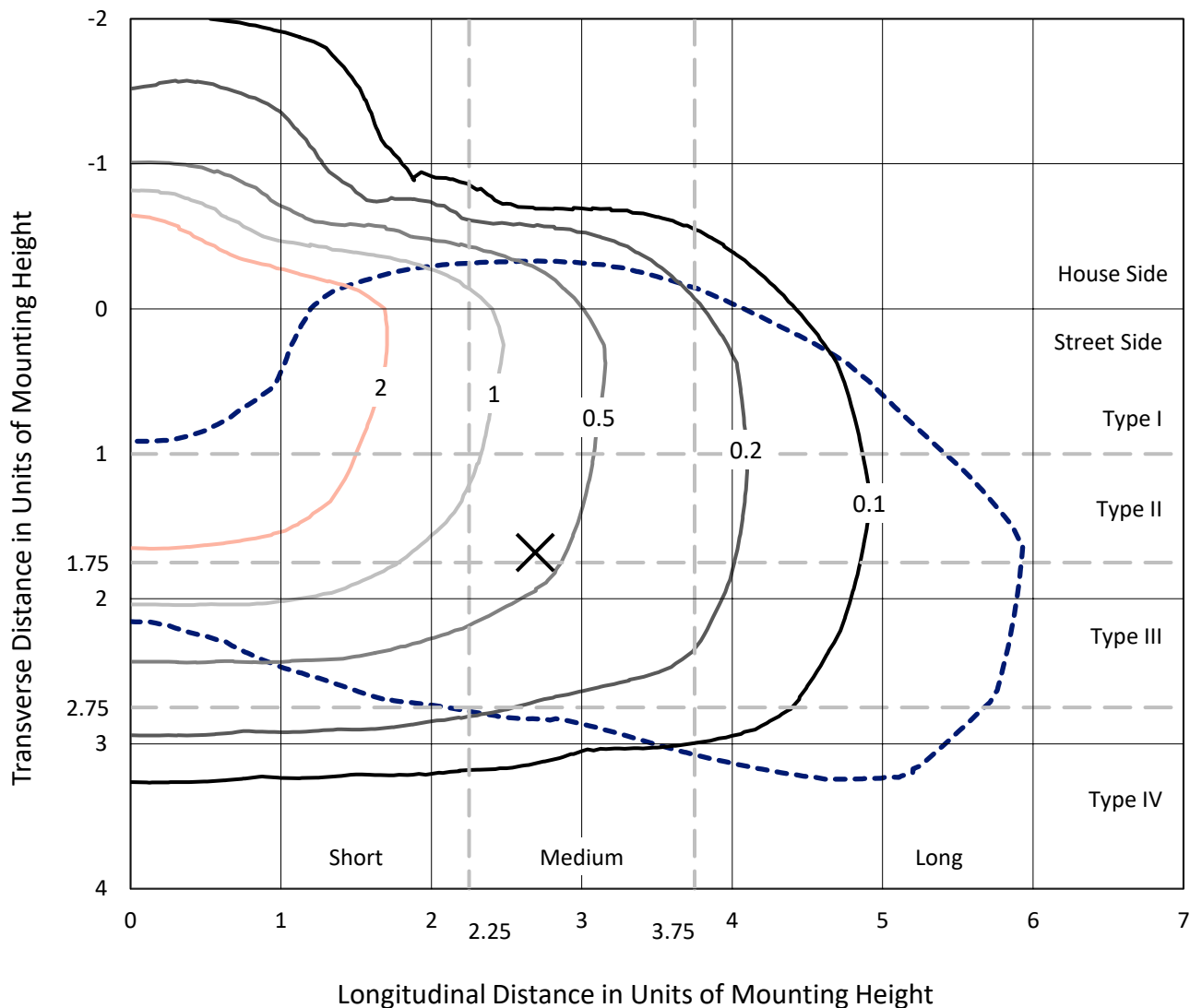
Input Watts (W): 181  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

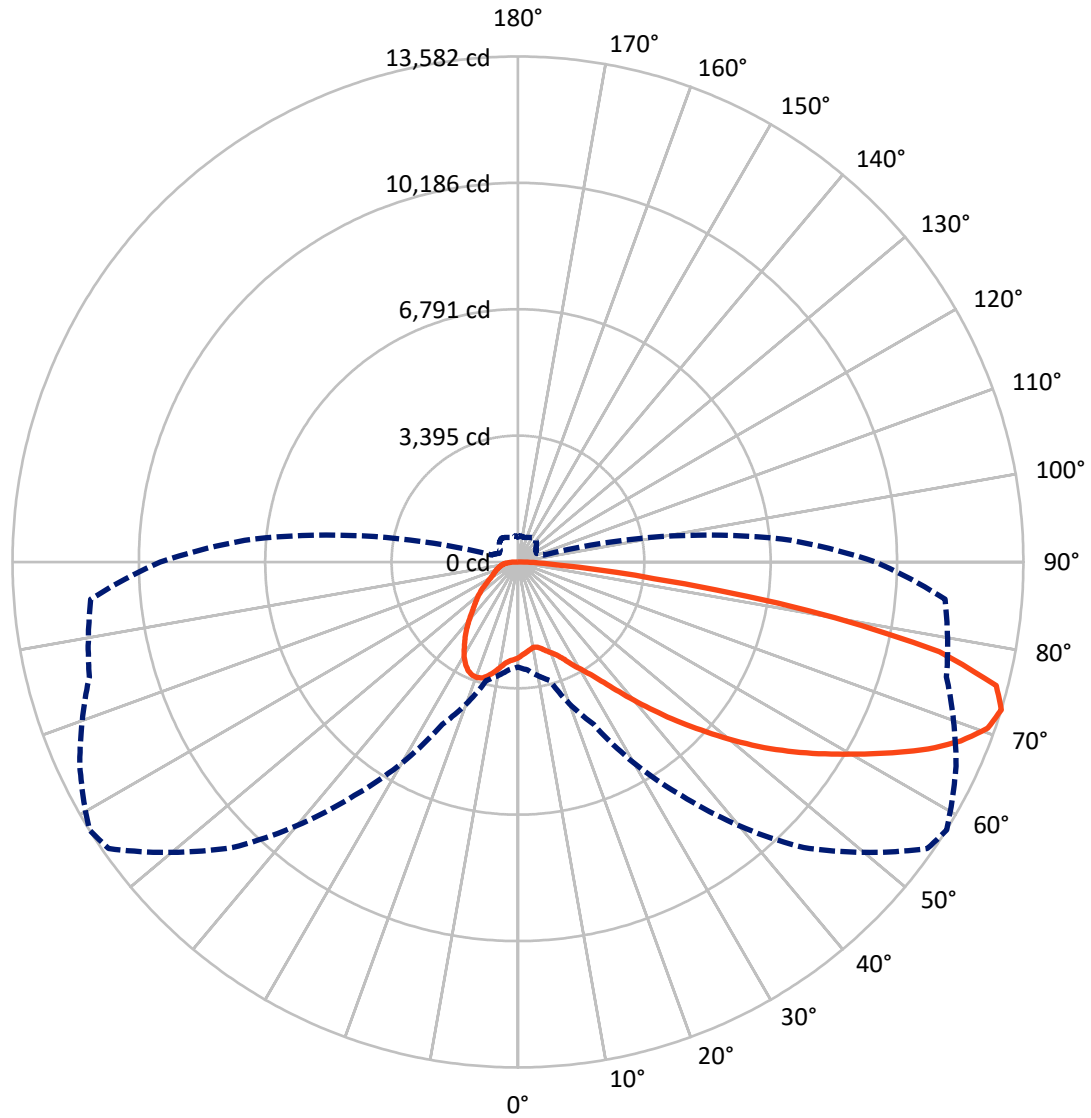
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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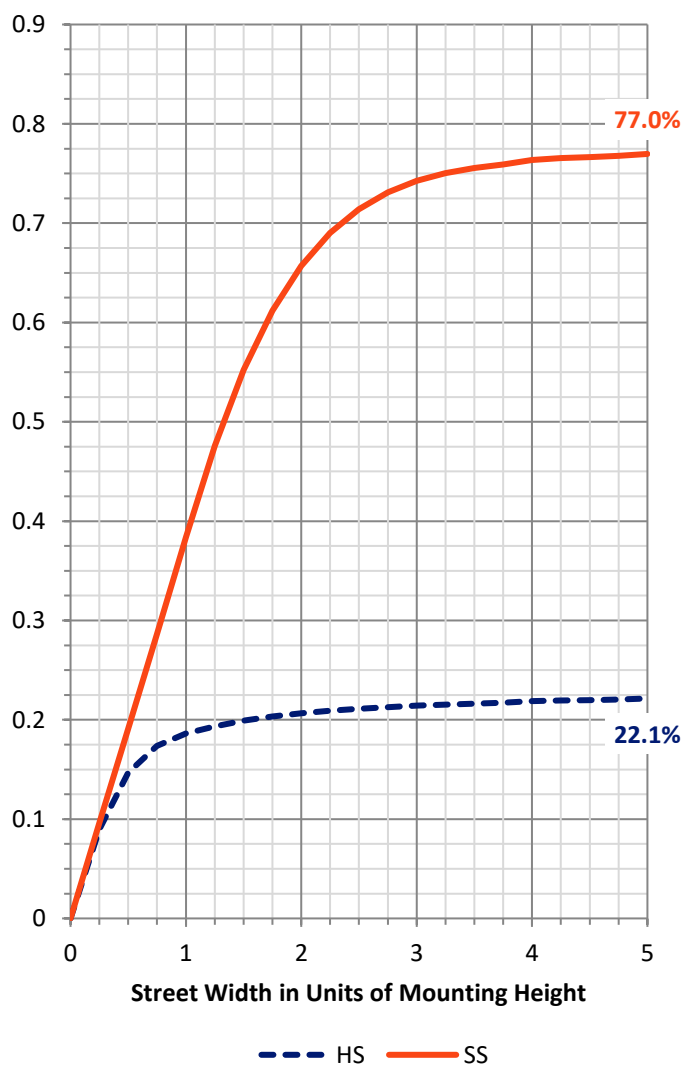
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5523.7	0.0	5523.7
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	18832.3	0.0	18832.3
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	24356.0	0.0	24356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.5	1.0
10°-20°	785.9	3.2
20°-30°	1407.9	5.8
30°-40°	2117.8	8.7
40°-50°	3429.5	14.1
50°-60°	5162.5	21.2
60°-70°	6075.7	24.9
70°-80°	4308.2	17.7
80°-90°	820.9	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°	24356.0	100.0
0°-180°	24356.0	100.0

**Coefficient of Utilization**



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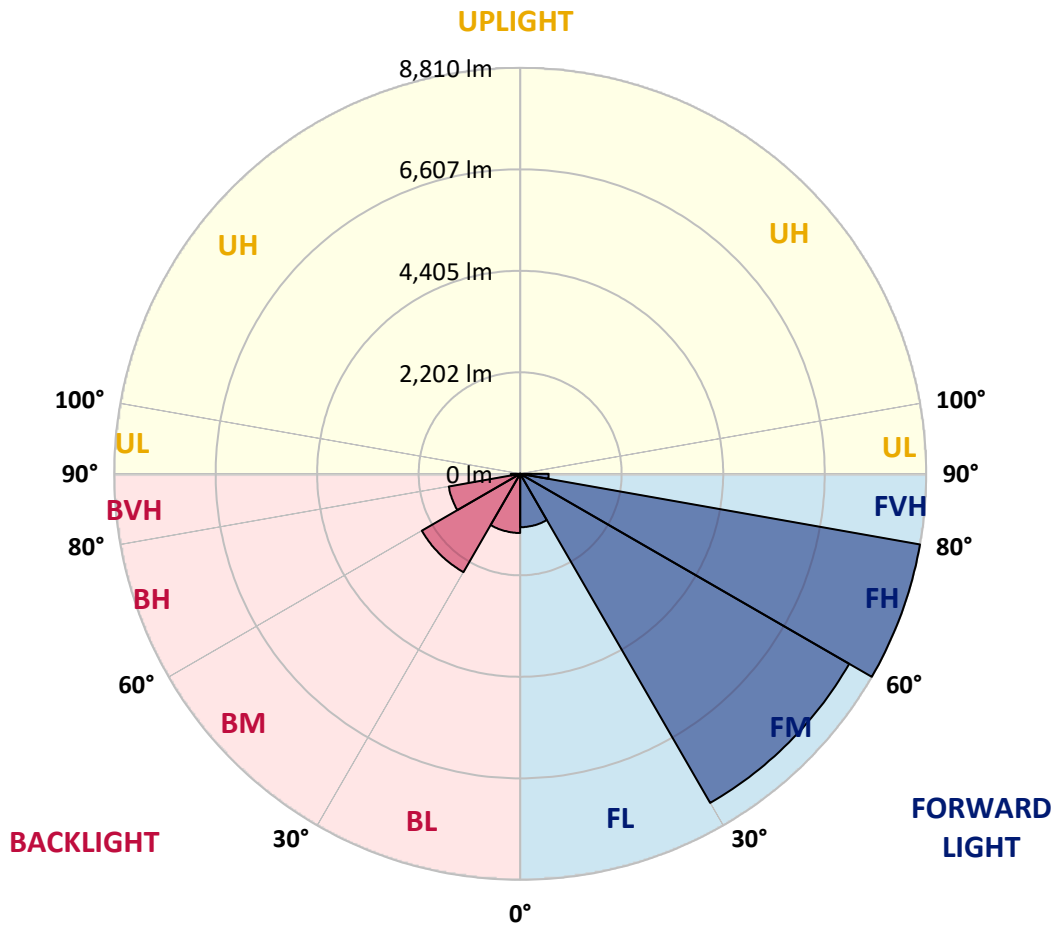
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.2	4.8			
FM (30°-60°)	8245.2	33.9			
FH (60°-80°)	8809.7	36.2			G4/12000
FVH (80°-90°)	619.2	2.5			G4/750
BL (0°-30°)	1283.1	5.3	B3/2500		
BM (30°-60°)	2464.6	10.1	B2/2500		
BH (60°-80°)	1574.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	201.7	0.8			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0
2.5°	2472.6	2459.7	2462.9	2462.9	2475.8	2482.2	2485.4	2495.1	2501.5	2517.6	2540.1
5°	2356.8	2347.2	2350.4	2353.6	2376.1	2398.6	2417.9	2430.8	2450.1	2475.8	2507.9
7.5°	2273.2	2266.8	2270.0	2276.4	2295.7	2321.5	2353.6	2372.9	2401.8	2450.1	2504.7
10°	2212.1	2212.1	2215.4	2228.2	2247.5	2279.7	2305.4	2327.9	2385.8	2472.6	2556.2
12.5°	2163.9	2163.9	2173.6	2199.3	2231.4	2263.6	2324.7	2350.4	2427.6	2546.5	2646.2
15°	2160.7	2163.9	2167.1	2189.6	2225.0	2295.7	2385.8	2424.4	2517.6	2659.1	2774.8
17.5°	2212.1	2215.4	2202.5	2208.9	2250.7	2350.4	2469.4	2514.4	2633.3	2787.7	2906.6
20°	2369.7	2369.7	2331.1	2295.7	2324.7	2434.0	2569.0	2614.1	2745.9	2916.3	3035.3
22.5°	2691.2	2707.3	2617.3	2540.1	2495.1	2556.2	2678.4	2726.6	2874.5	3057.8	3176.7
25°	3080.3	3096.4	2974.2	2864.8	2781.3	2771.6	2852.0	2903.4	3025.6	3215.3	3315.0
27.5°	3456.5	3427.5	3315.0	3212.1	3106.0	3019.2	3080.3	3125.3	3266.8	3411.5	3472.5
30°	3752.3	3729.8	3620.4	3546.5	3446.8	3334.3	3298.9	3347.1	3462.9	3597.9	3630.1
32.5°	4080.2	4064.2	3954.8	3858.4	3774.8	3668.7	3591.5	3614.0	3678.3	3774.8	3794.1
35°	4498.2	4533.6	4417.8	4221.7	4128.5	4025.6	3970.9	3977.4	4025.6	4086.7	4054.5
37.5°	4938.7	4980.5	4987.0	4678.3	4552.9	4459.6	4401.8	4424.3	4482.2	4524.0	4424.3
40°	5755.4	5713.6	5546.4	5318.1	5125.2	5035.2	4954.8	4951.6	4993.4	5067.3	4887.3
42.5°	6839.0	6800.4	6462.8	6167.0	5861.5	5758.6	5601.1	5533.6	5552.9	5646.1	5395.3
45°	7877.5	7861.5	7591.4	7247.3	6880.8	6681.4	6321.3	6157.3	6141.3	6215.2	5916.2
47.5°	8800.3	8729.6	8533.5	8266.6	8228.0	7707.1	7044.8	6822.9	6745.7	6787.5	6453.1
50°	9787.4	9546.3	9276.2	9112.2	9391.9	8906.4	7774.6	7543.1	7353.4	7382.4	7035.1
52.5°	10311.5	9906.4	9729.6	9777.8	10154.0	9967.5	8568.8	8285.9	7980.4	8022.2	7613.9
55°	9861.4	9858.2	9935.3	10234.4	10758.5	10543.0	9324.4	9006.1	8671.7	8681.4	8279.4
57.5°	9244.0	9369.4	9768.1	10427.3	11507.6	11147.5	10067.2	9729.6	9424.1	9375.9	9035.0
60°	8681.4	8819.6	9398.4	10395.1	11768.1	11700.5	10774.5	10478.7	10231.1	10089.7	9829.2
62.5°	7826.1	7929.0	8748.9	10189.3	11549.4	12099.2	11491.6	11289.0	11102.5	10809.9	10684.5
65°	6819.7	6855.1	7720.0	9510.9	11276.1	12253.6	12205.4	12115.3	11935.3	11504.4	11530.1
67.5°	5729.7	5800.4	6559.3	8427.4	10678.1	12182.8	12758.4	12832.3	12620.1	11973.8	12070.3
70°	4569.0	4655.8	5231.3	6929.0	9662.0	11877.4	13269.6	13388.6	12980.2	12128.2	12170.0
72.5°	2826.3	2909.9	3295.7	4813.3	7658.9	10851.7	13427.2	13581.5	12989.9	11922.4	11520.5
75°	977.5	987.1	1289.3	2308.6	4546.5	8192.6	12912.7	13276.1	12581.5	11173.2	10025.4
77.5°	446.9	463.0	572.3	951.7	2016.0	4421.1	10662.0	11571.9	11340.4	10002.9	7716.8
80°	308.7	315.1	395.5	569.1	1163.9	1556.2	6729.7	7916.1	8321.2	7745.7	4945.2
82.5°	231.5	237.9	305.5	385.8	839.2	755.6	2562.6	3678.3	4572.2	4488.6	2067.5
85°	221.9	218.6	237.9	257.2	559.5	450.1	829.6	1138.2	1784.5	1527.3	520.9
87.5°	96.5	106.1	244.4	144.7	292.6	209.0	360.1	421.2	543.4	472.7	186.5
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°	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0	2569.0
2.5°	2549.7	2556.2	2575.5	2604.4	2620.5	2652.6	2675.1	2688.0	2697.7	2700.9	2700.9
5°	2527.2	2540.1	2581.9	2630.1	2675.1	2742.7	2803.8	2839.1	2864.8	2874.5	2877.7
7.5°	2533.7	2565.8	2626.9	2697.7	2755.5	2842.3	2916.3	2987.0	3044.9	3067.4	3067.4
10°	2594.8	2639.8	2723.4	2816.6	2890.6	2980.6	3057.8	3118.9	3186.4	3225.0	3231.4
12.5°	2688.0	2742.7	2852.0	2954.9	3038.5	3109.2	3180.0	3225.0	3257.1	3286.1	3292.5
15°	2819.8	2887.4	2996.7	3102.8	3176.7	3221.8	3241.0	3241.0	3237.8	3241.0	3247.5
17.5°	2951.7	3016.0	3125.3	3231.4	3266.8	3241.0	3218.5	3212.1	3208.9	3202.5	3205.7
20°	3080.3	3141.4	3234.6	3315.0	3286.1	3196.0	3167.1	3163.9	3154.2	3147.8	3141.4
22.5°	3208.9	3253.9	3331.1	3360.0	3244.3	3115.6	3080.3	3061.0	3048.1	3032.0	3016.0
25°	3356.8	3369.7	3427.5	3382.5	3141.4	2967.7	2916.3	2887.4	2874.5	2858.4	2845.6
27.5°	3495.1	3495.1	3504.7	3347.1	2990.2	2771.6	2694.4	2643.0	2639.8	2636.6	2633.3
30°	3620.4	3604.4	3572.2	3241.0	2794.1	2530.5	2414.7	2363.3	2382.6	2398.6	2401.8
32.5°	3768.4	3736.2	3646.2	3096.4	2559.4	2260.4	2118.9	2096.4	2118.9	2138.2	2125.3
35°	3999.9	3942.0	3723.3	2929.2	2334.3	2012.8	1877.7	1845.6	1839.2	1835.9	1810.2
37.5°	4331.0	4231.4	3784.4	2749.1	2112.5	1794.1	1694.5	1627.0	1565.9	1501.6	1491.9
40°	4736.2	4565.8	3826.2	2543.3	1877.7	1610.9	1504.8	1418.0	1315.1	1202.5	1189.7
42.5°	5179.9	4925.9	3845.5	2315.0	1672.0	1459.8	1327.9	1218.6	1102.9	1016.0	1000.0
45°	5659.0	5314.9	3829.4	2096.4	1504.8	1331.1	1183.2	1064.3	971.0	909.9	897.1
47.5°	6125.2	5761.9	3784.4	1922.8	1376.2	1221.8	1070.7	961.4	890.6	823.1	807.0
50°	6723.2	6189.5	3729.8	1787.7	1234.7	1112.5	1000.0	884.2	803.8	771.7	765.2
52.5°	7385.6	6617.1	3665.5	1617.3	1096.4	1025.7	954.9	852.1	826.3	765.2	755.6
55°	8102.6	7125.1	3652.6	1401.9	974.2	964.6	909.9	881.0	887.4	765.2	749.2
57.5°	8858.2	7668.5	3681.5	1186.5	874.6	909.9	929.2	906.7	897.1	781.3	749.2
60°	9646.0	8192.6	3594.7	987.1	797.4	864.9	951.7	893.9	823.1	774.9	752.4
62.5°	10411.2	8633.1	3218.5	845.6	739.5	852.1	938.9	845.6	765.2	765.2	755.6
65°	10967.5	8829.3	2517.6	742.7	700.9	836.0	916.4	813.5	749.2	771.7	758.8
67.5°	11031.8	8626.7	1691.3	662.4	668.8	807.0	864.9	784.5	733.1	791.0	771.7
70°	10636.3	8099.4	1035.3	601.3	627.0	755.6	819.9	755.6	710.6	774.9	746.0
72.5°	9610.6	7115.5	729.9	549.8	582.0	707.4	778.1	729.9	678.4	700.9	672.0
75°	7884.0	5514.3	578.8	501.6	537.0	662.4	742.7	691.3	639.8	630.2	610.9
77.5°	5585.0	3533.6	466.2	463.0	488.7	607.7	694.5	646.3	594.8	575.5	562.7
80°	3212.1	1733.1	401.9	418.0	443.7	553.0	636.6	594.8	546.6	517.7	498.4
82.5°	1228.3	604.5	353.7	363.3	392.3	495.2	578.8	543.4	495.2	520.9	437.3
85°	398.7	331.2	289.4	299.0	328.0	411.6	511.2	482.3	427.6	379.4	350.5
87.5°	176.8	180.1	154.3	170.4	205.8	273.3	373.0	353.7	311.9	260.4	250.8
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)