

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: P399537

Luminaire Tested: **ARCH-L-PA3-150-830-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-150-830-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18865 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

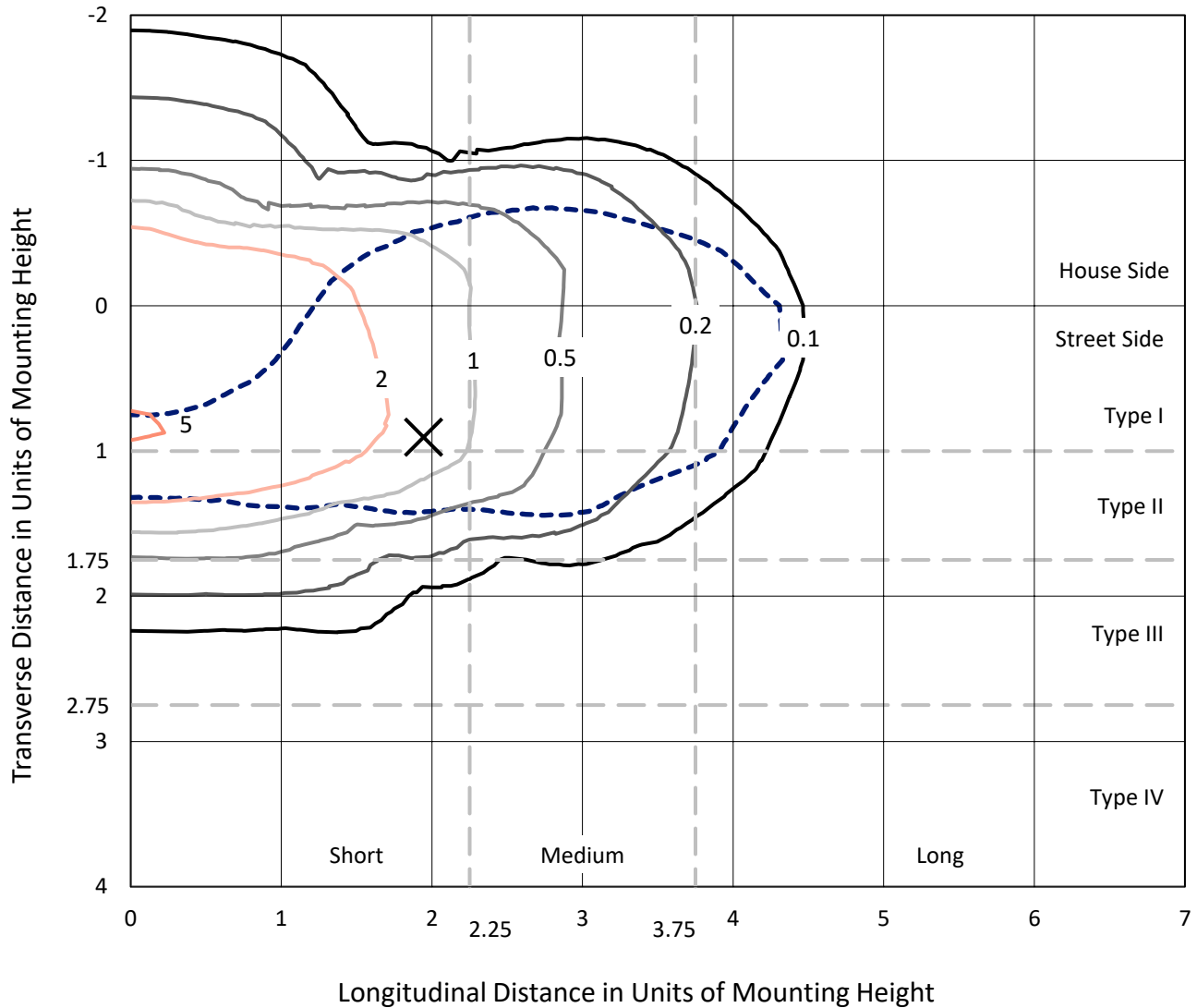
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

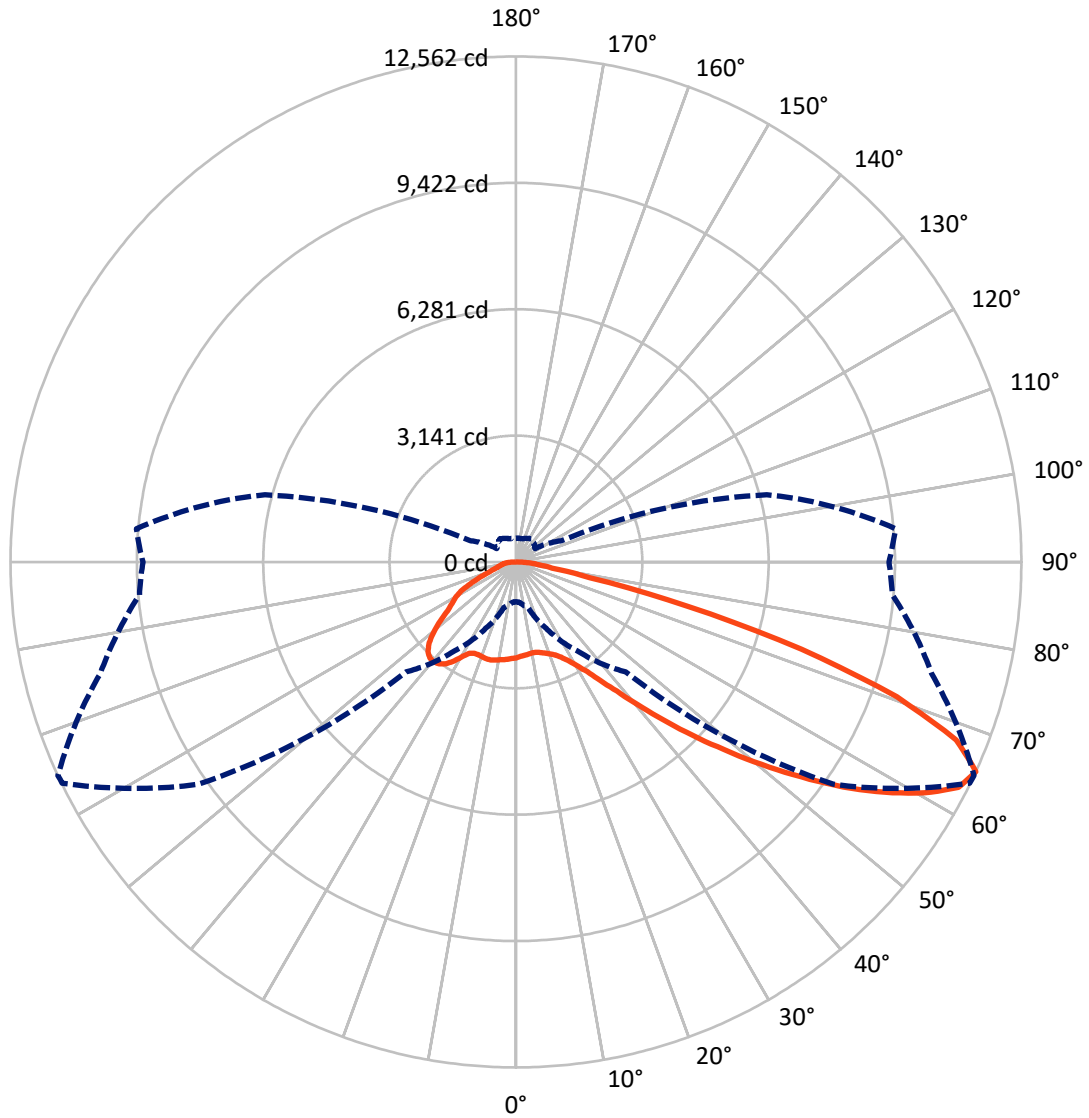
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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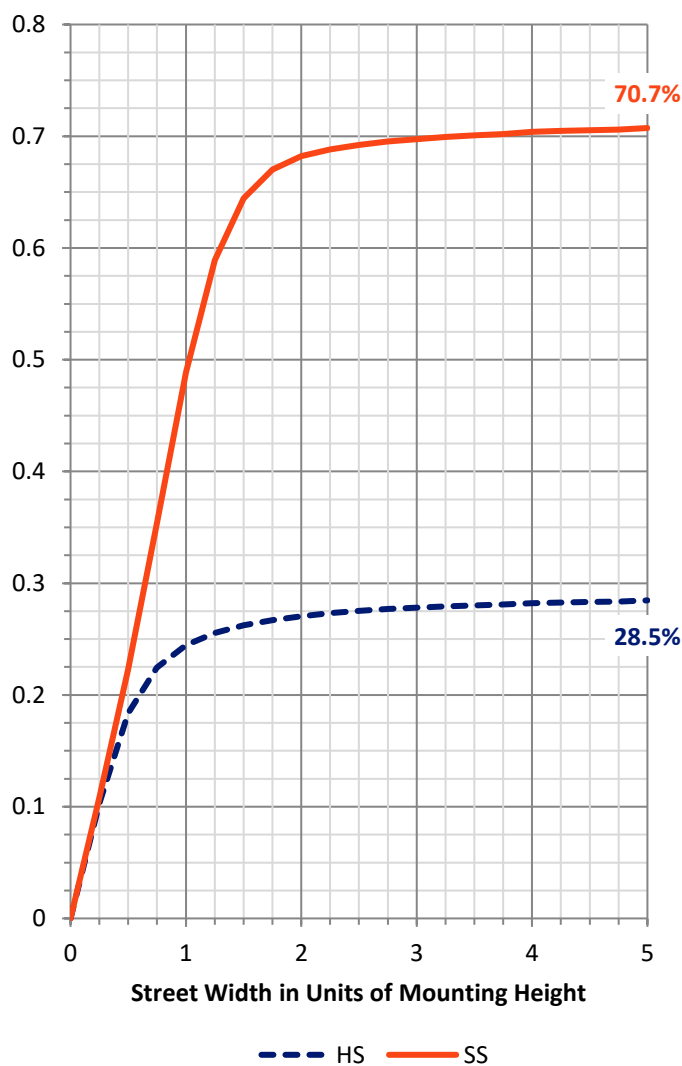
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5454.2	0.0	5454.2
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	13410.8	0.0	13410.8
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	18865.0	0.0	18865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.1	1.2
10°-20°	678.0	3.6
20°-30°	1204.4	6.4
30°-40°	2037.6	10.8
40°-50°	3547.0	18.8
50°-60°	4583.8	24.3
60°-70°	4011.1	21.3
70°-80°	2181.8	11.6
80°-90°	394.2	2.1
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°	18865.0	100.0
0°-180°	18865.0	100.0

**Coefficient of Utilization**



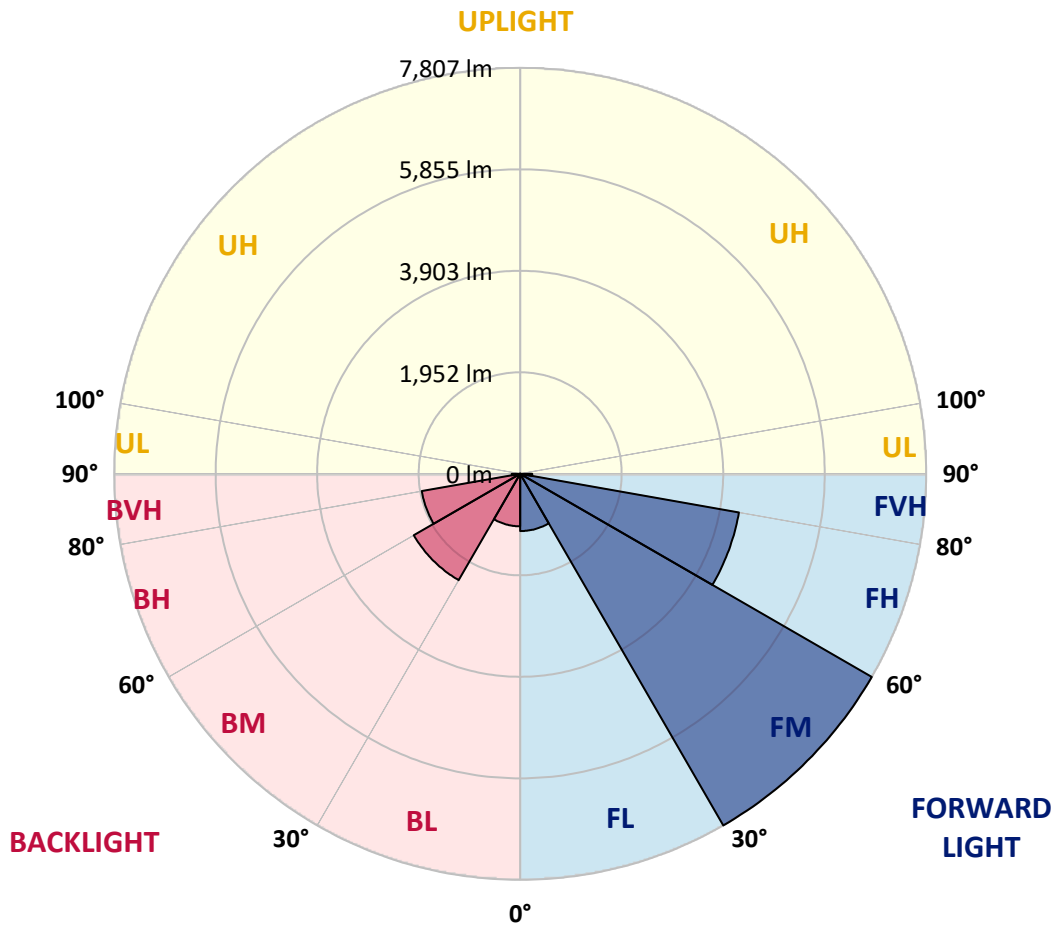
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.7	5.8			
FM (30°-60°)	7806.8	41.4			
FH (60°-80°)	4271.3	22.6			G2/5000
FVH (80°-90°)	232.0	1.2			G3/500
BL (0°-30°)	1008.8	5.3	B3/2500		
BM (30°-60°)	2361.5	12.5	B2/2500		
BH (60°-80°)	1921.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	162.2	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8
2.5°	2341.6	2339.1	2334.1	2339.1	2341.6	2346.5	2344.0	2349.0	2346.5	2354.0	2366.4
5°	2282.0	2277.0	2274.5	2286.9	2294.4	2306.8	2311.8	2329.1	2326.7	2339.1	2358.9
7.5°	2214.9	2214.9	2212.4	2227.3	2237.3	2259.6	2277.0	2306.8	2309.3	2331.6	2354.0
10°	2162.8	2165.3	2162.8	2175.2	2190.1	2217.4	2247.2	2289.4	2291.9	2324.2	2346.5
12.5°	2142.9	2142.9	2142.9	2160.3	2180.2	2217.4	2252.2	2296.9	2301.8	2336.6	2356.5
15°	2170.2	2172.7	2167.7	2185.1	2207.5	2252.2	2284.5	2331.6	2336.6	2368.9	2381.3
17.5°	2267.1	2277.0	2264.6	2274.5	2269.6	2304.3	2334.1	2381.3	2383.8	2411.1	2416.1
20°	2458.3	2468.2	2448.3	2435.9	2391.2	2388.7	2401.2	2438.4	2438.4	2455.8	2443.4
22.5°	2753.8	2763.7	2728.9	2681.7	2575.0	2522.8	2495.5	2512.9	2510.4	2517.9	2485.6
25°	3146.1	3143.6	3101.4	3014.5	2843.1	2716.5	2649.5	2622.2	2622.2	2607.3	2567.5
27.5°	3632.8	3595.5	3521.0	3416.7	3178.4	3002.1	2858.0	2788.5	2776.1	2731.4	2656.9
30°	4151.7	4124.4	4017.7	3866.2	3590.6	3364.6	3126.2	2987.2	2979.7	2882.9	2771.1
32.5°	4762.6	4717.9	4598.7	4417.4	4087.2	3769.3	3471.4	3260.3	3247.9	3093.9	2940.0
35°	5547.2	5510.0	5279.1	5097.8	4673.2	4256.0	3903.4	3622.8	3612.9	3424.2	3228.0
37.5°	6488.3	6391.5	6168.0	5827.8	5380.9	4886.7	4439.8	4087.2	4074.8	3866.2	3617.9
40°	7327.6	7240.7	7042.1	6729.2	6250.0	5701.2	5095.3	4668.2	4655.8	4402.5	4089.7
42.5°	7948.4	7888.8	7759.7	7578.4	7235.7	6903.0	5932.1	5370.9	5348.6	5020.8	4631.0
45°	8308.4	8261.3	8186.8	8231.5	8226.5	8164.4	6930.3	6207.7	6135.7	5711.1	5234.4
47.5°	8221.5	8179.3	8209.1	8556.8	9036.0	9396.0	8092.4	7064.4	6967.6	6413.8	5877.5
50°	7593.3	7610.7	7767.1	8432.6	9507.8	10307.3	9381.1	8040.3	7911.2	7121.5	6488.3
52.5°	6448.6	6490.8	6870.7	7801.9	9455.6	10898.3	10545.7	9048.4	8877.1	7811.8	7044.6
55°	5122.6	5229.4	5721.1	6699.4	8775.3	10940.5	11424.7	10061.5	9872.8	8459.9	7528.8
57.5°	3789.2	3948.1	4516.8	5415.6	7471.6	10272.6	11864.2	11029.9	10801.5	9103.0	8040.3
60°	2403.6	2500.5	3156.0	4216.3	5718.6	8638.7	11807.1	11854.3	11655.7	9743.7	8574.1
62.5°	1534.6	1581.7	1912.0	3007.0	3997.8	6396.5	11183.9	12477.6	12343.5	10327.2	9080.7
65°	985.8	1005.7	1174.5	1849.9	2721.5	3861.2	9631.9	12544.6	12562.0	10692.2	9393.6
67.5°	802.0	812.0	874.1	1142.2	1924.4	2133.0	6709.3	11591.1	11802.2	10597.9	9286.8
70°	730.0	742.4	807.0	911.3	1489.9	1472.5	3247.9	9699.0	10044.1	10054.1	8812.5
72.5°	615.8	633.2	720.1	861.6	1152.2	1162.1	1375.6	6908.0	7417.0	8986.3	8099.9
75°	514.0	523.9	598.4	759.8	975.9	928.7	965.9	3662.6	4397.6	7206.0	7342.5
77.5°	417.2	427.1	481.7	605.9	866.6	722.6	759.8	1517.2	1874.7	4891.7	6001.6
80°	298.0	307.9	370.0	471.8	655.5	650.6	563.7	836.8	908.8	2644.5	3898.5
82.5°	213.5	221.0	280.6	337.7	454.4	653.1	424.6	568.6	595.9	1172.0	1571.8
85°	144.0	144.0	193.7	223.5	293.0	412.2	342.7	384.9	402.3	556.2	424.6
87.5°	62.1	62.1	104.3	114.2	154.0	191.2	255.8	193.7	198.6	300.5	173.8
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°	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8	2383.8
2.5°	2373.8	2376.3	2381.3	2396.2	2406.1	2421.0	2428.5	2438.4	2438.4	2433.4	2435.9
5°	2368.9	2376.3	2393.7	2421.0	2438.4	2465.7	2485.6	2500.5	2505.4	2500.5	2503.0
7.5°	2366.4	2378.8	2408.6	2448.3	2473.2	2507.9	2535.2	2552.6	2565.0	2560.1	2562.6
10°	2358.9	2378.8	2416.1	2465.7	2503.0	2537.7	2562.6	2570.0	2577.5	2572.5	2570.0
12.5°	2368.9	2391.2	2431.0	2490.5	2532.8	2560.1	2567.5	2555.1	2537.7	2527.8	2525.3
15°	2388.7	2411.1	2450.8	2512.9	2550.1	2560.1	2542.7	2503.0	2463.2	2440.9	2438.4
17.5°	2416.1	2431.0	2463.2	2517.9	2547.7	2535.2	2500.5	2453.3	2423.5	2406.1	2408.6
20°	2433.4	2433.4	2458.3	2500.5	2525.3	2515.4	2473.2	2421.0	2373.8	2351.5	2344.0
22.5°	2458.3	2445.9	2448.3	2485.6	2520.3	2505.4	2416.1	2324.2	2257.1	2232.3	2229.8
25°	2525.3	2490.5	2468.2	2490.5	2572.5	2450.8	2272.0	2165.3	2103.2	2080.8	2083.3
27.5°	2607.3	2560.1	2512.9	2550.1	2614.7	2326.7	2088.3	1966.6	1929.4	1912.0	1919.4
30°	2689.2	2627.1	2565.0	2699.1	2584.9	2133.0	1852.4	1733.2	1700.9	1688.5	1698.4
32.5°	2840.7	2738.9	2664.4	2897.8	2493.0	1912.0	1596.6	1487.4	1457.6	1442.7	1437.7
35°	3093.9	2964.8	2890.3	3071.6	2363.9	1666.2	1363.2	1286.2	1254.0	1221.7	1216.7
37.5°	3459.0	3302.5	3235.5	3170.9	2182.6	1422.8	1184.4	1132.3	1085.1	1035.5	1033.0
40°	3896.0	3692.4	3642.7	3215.6	1931.9	1194.4	1060.3	1010.6	951.0	903.8	906.3
42.5°	4400.1	4139.3	4032.6	3203.2	1621.5	1072.7	970.9	916.3	864.1	821.9	819.4
45°	4938.9	4643.4	4397.6	3116.3	1313.6	988.3	916.3	851.7	799.6	752.4	747.4
47.5°	5534.8	5204.6	4735.3	2947.4	1085.1	928.7	884.0	792.1	744.9	715.1	715.1
50°	6135.7	5740.9	5045.7	2691.7	951.0	884.0	836.8	759.8	722.6	697.8	697.8
52.5°	6649.7	6299.6	5301.4	2386.3	866.6	846.7	804.5	744.9	705.2	682.9	680.4
55°	7148.8	6818.6	5529.9	2083.3	797.1	797.1	797.1	732.5	687.8	668.0	665.5
57.5°	7645.5	7364.9	5768.2	1884.7	735.0	754.9	782.2	717.6	672.9	655.5	653.1
60°	8206.6	8020.4	6043.9	1745.6	680.4	710.2	762.3	700.2	648.1	633.2	630.7
62.5°	8802.6	8802.6	6294.7	1549.5	630.7	672.9	732.5	677.9	625.7	613.3	610.8
65°	9269.4	9470.5	6456.1	1256.4	581.0	635.7	697.8	648.1	595.9	593.5	588.5
67.5°	9324.0	9639.4	6354.2	948.5	536.3	595.9	663.0	615.8	566.1	566.1	558.7
70°	8931.7	9252.0	6036.4	710.2	504.1	556.2	618.3	576.1	528.9	533.9	521.5
72.5°	8276.2	8355.6	5246.8	561.2	466.8	514.0	563.7	531.4	489.2	489.2	471.8
75°	7412.0	6970.1	3811.6	469.3	422.1	464.3	509.0	481.7	444.5	432.1	422.1
77.5°	5899.8	5050.6	2214.9	404.7	384.9	417.2	447.0	427.1	394.8	367.5	367.5
80°	3595.5	2959.9	978.3	350.1	340.2	365.0	384.9	362.5	335.2	307.9	300.5
82.5°	1368.2	1142.2	474.3	300.5	298.0	312.9	327.8	305.4	285.6	273.1	235.9
85°	374.9	345.2	325.3	250.8	245.8	243.3	260.7	250.8	223.5	183.7	163.9
87.5°	141.5	161.4	176.3	154.0	163.9	151.5	173.8	158.9	141.5	91.9	81.9
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)