

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: P399483

Luminaire Tested: **ARCH-L-PA3-150-727-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399483  
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-PA3-150-727-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 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: 19854 lumens  
Efficiency: N/A  
Efficacy: 129.8 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

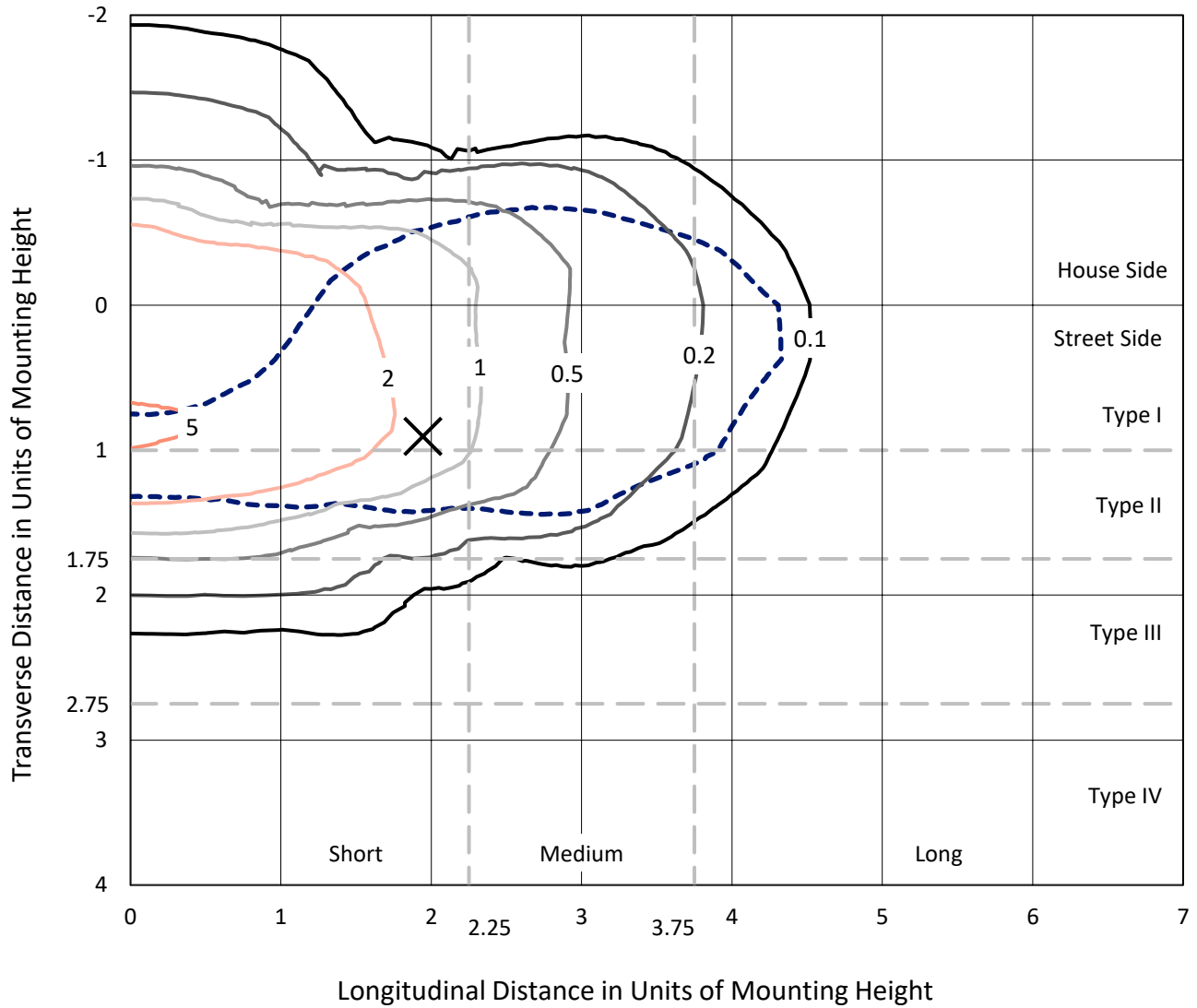
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

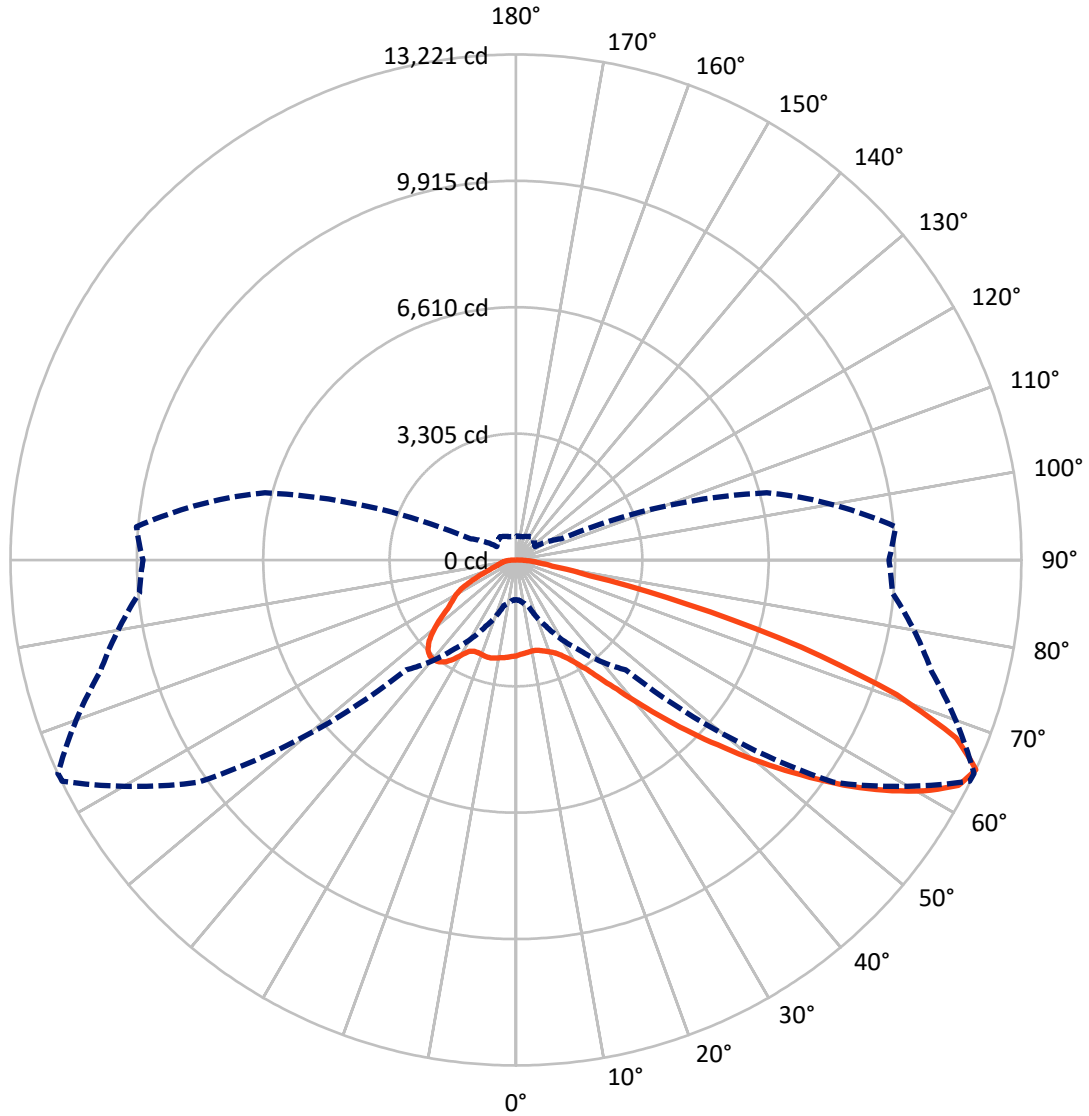
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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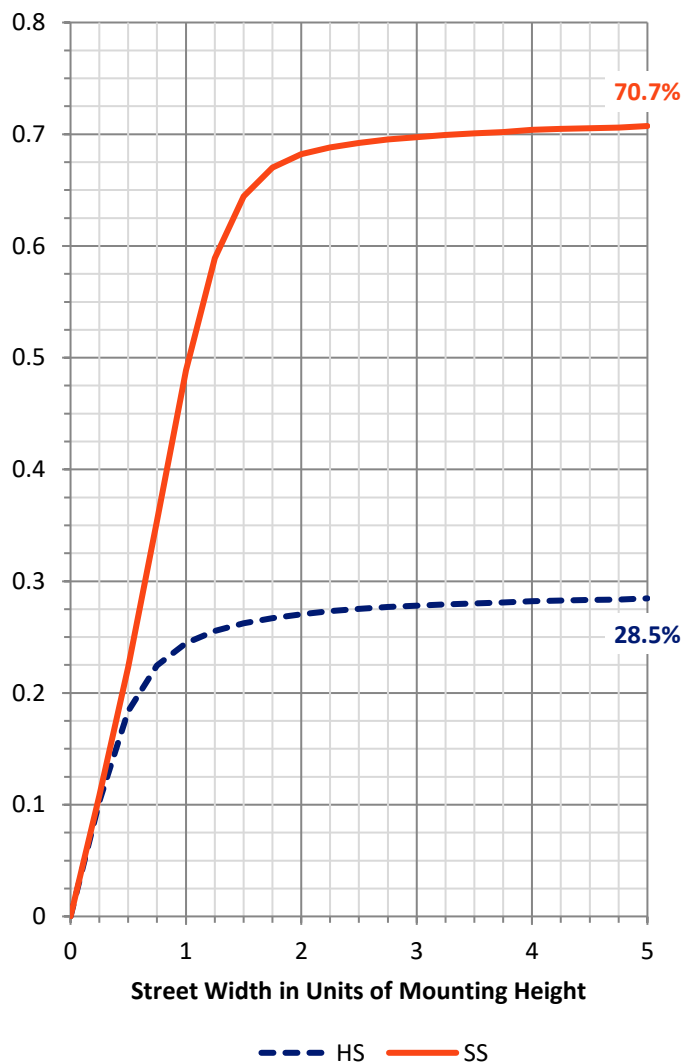
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5740.1	0.0	5740.1
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	14113.9	0.0	14113.9
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	19854.0	0.0	19854.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.0	1.2
10°-20°	713.6	3.6
20°-30°	1267.5	6.4
30°-40°	2144.4	10.8
40°-50°	3732.9	18.8
50°-60°	4824.1	24.3
60°-70°	4221.4	21.3
70°-80°	2296.1	11.6
80°-90°	414.9	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°	19854.0	100.0
0°-180°	19854.0	100.0

**Coefficient of Utilization**



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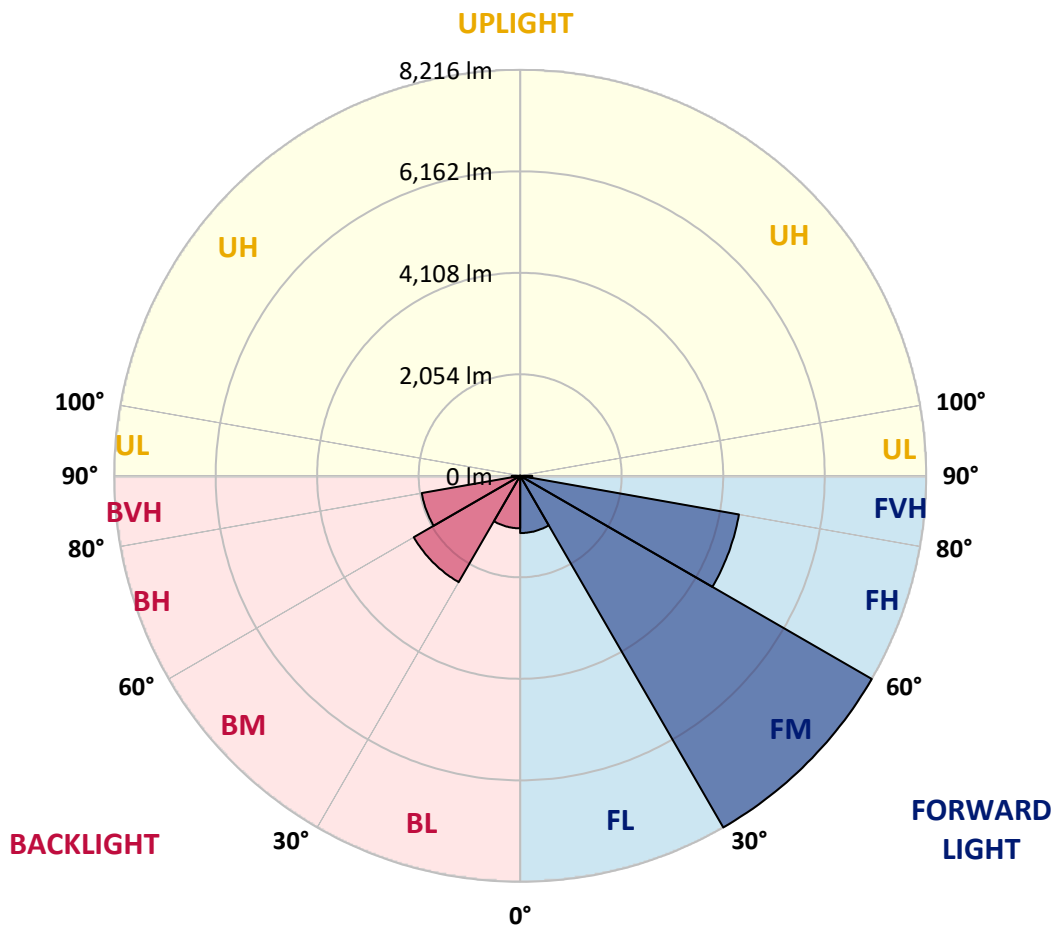
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.4	5.8			
FM (30°-60°)	8216.1	41.4			
FH (60°-80°)	4495.2	22.6			G2/5000
FVH (80°-90°)	244.1	1.2			G3/500
BL (0°-30°)	1061.7	5.3	B3/2500		
BM (30°-60°)	2485.3	12.5	B2/2500		
BH (60°-80°)	2022.3	10.2	B3/2500		G3/2500
BVH (80°-90°)	170.7	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°	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7
2.5°	2464.3	2461.7	2456.5	2461.7	2464.3	2469.5	2466.9	2472.2	2469.5	2477.4	2490.5
5°	2401.6	2396.4	2393.8	2406.8	2414.7	2427.7	2433.0	2451.3	2448.6	2461.7	2482.6
7.5°	2331.0	2331.0	2328.4	2344.1	2354.6	2378.1	2396.4	2427.7	2430.3	2453.9	2477.4
10°	2276.2	2278.8	2276.2	2289.2	2304.9	2333.7	2365.0	2409.4	2412.1	2446.0	2469.5
12.5°	2255.3	2255.3	2255.3	2273.5	2294.5	2333.7	2370.2	2417.3	2422.5	2459.1	2480.0
15°	2284.0	2286.6	2281.4	2299.7	2323.2	2370.2	2404.2	2453.9	2459.1	2493.1	2506.1
17.5°	2385.9	2396.4	2383.3	2393.8	2388.5	2425.1	2456.5	2506.1	2508.7	2537.5	2542.7
20°	2587.1	2597.6	2576.7	2563.6	2516.6	2514.0	2527.0	2566.2	2566.2	2584.5	2571.5
22.5°	2898.1	2908.6	2872.0	2822.3	2710.0	2655.1	2626.3	2644.6	2642.0	2649.9	2615.9
25°	3311.0	3308.4	3264.0	3172.5	2992.2	2858.9	2788.4	2759.6	2759.6	2743.9	2702.1
27.5°	3823.2	3784.0	3705.6	3595.9	3345.0	3159.4	3007.9	2934.7	2921.6	2874.6	2796.2
30°	4369.4	4340.7	4228.3	4068.9	3778.8	3541.0	3290.1	3143.8	3135.9	3034.0	2916.4
32.5°	5012.3	4965.2	4839.8	4649.0	4301.5	3967.0	3653.4	3431.2	3418.2	3256.1	3094.1
35°	5838.1	5798.9	5555.8	5365.1	4918.2	4479.2	4108.1	3812.8	3802.3	3603.7	3397.3
37.5°	6828.5	6726.6	6491.4	6133.4	5663.0	5142.9	4672.5	4301.5	4288.4	4068.9	3807.5
40°	7711.8	7620.3	7411.2	7082.0	6577.6	6000.1	5362.4	4913.0	4899.9	4633.3	4304.1
42.5°	8365.1	8302.4	8166.5	7975.7	7615.1	7264.9	6243.1	5652.5	5629.0	5284.0	4873.8
45°	8744.0	8694.4	8616.0	8663.0	8657.8	8592.4	7293.7	6533.2	6457.4	6010.5	5508.8
47.5°	8652.6	8608.1	8639.5	9005.3	9509.7	9888.6	8516.7	7434.8	7332.9	6750.1	6185.6
50°	7991.4	8009.7	8174.3	8874.7	10006.2	10847.7	9873.0	8461.8	8325.9	7494.9	6828.5
52.5°	6786.7	6831.1	7230.9	8210.9	9951.4	11469.7	11098.6	9522.8	9342.5	8221.4	7413.9
55°	5391.2	5503.6	6021.0	7050.6	9235.3	11514.1	12023.7	10589.0	10390.4	8903.4	7923.5
57.5°	3987.9	4155.1	4753.5	5699.6	7863.3	10811.1	12486.2	11608.2	11367.7	9580.3	8461.8
60°	2529.7	2631.6	3321.5	4437.3	6018.4	9091.6	12426.1	12475.8	12266.7	10254.5	9023.6
62.5°	1615.0	1664.7	2012.2	3164.7	4207.4	6731.8	11770.2	13131.7	12990.6	10868.6	9556.7
65°	1037.5	1058.4	1236.1	1946.9	2864.1	4063.6	10136.9	13202.3	13220.6	11252.8	9886.0
67.5°	844.1	854.5	919.9	1202.1	2025.3	2244.8	7061.1	12198.8	12420.9	11153.5	9773.6
70°	768.3	781.4	849.3	959.1	1568.0	1549.7	3418.2	10207.5	10570.7	10581.2	9274.5
72.5°	648.1	666.4	757.8	906.8	1212.6	1223.0	1447.8	7270.1	7805.9	9457.4	8524.5
75°	540.9	551.4	629.8	799.7	1027.0	977.4	1016.6	3854.6	4628.1	7583.7	7727.5
77.5°	439.0	449.5	507.0	637.6	912.0	760.5	799.7	1596.7	1973.0	5148.2	6316.3
80°	313.6	324.0	389.4	496.5	689.9	684.7	593.2	880.7	956.5	2783.1	4102.8
82.5°	224.7	232.6	295.3	355.4	478.2	687.3	446.9	598.4	627.2	1233.5	1654.2
85°	151.6	151.6	203.8	235.2	308.4	433.8	360.6	405.1	423.4	585.4	446.9
87.5°	65.3	65.3	109.8	120.2	162.0	201.2	269.2	203.8	209.1	316.2	182.9
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°	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7	2508.7
2.5°	2498.3	2500.9	2506.1	2521.8	2532.3	2547.9	2555.8	2566.2	2566.2	2561.0	2563.6
5°	2493.1	2500.9	2519.2	2547.9	2566.2	2595.0	2615.9	2631.6	2636.8	2631.6	2634.2
7.5°	2490.5	2503.5	2534.9	2576.7	2602.8	2639.4	2668.2	2686.4	2699.5	2694.3	2696.9
10°	2482.6	2503.5	2542.7	2595.0	2634.2	2670.8	2696.9	2704.7	2712.6	2707.4	2704.7
12.5°	2493.1	2516.6	2558.4	2621.1	2665.5	2694.3	2702.1	2689.1	2670.8	2660.3	2657.7
15°	2514.0	2537.5	2579.3	2644.6	2683.8	2694.3	2676.0	2634.2	2592.4	2568.8	2566.2
17.5°	2542.7	2558.4	2592.4	2649.9	2681.2	2668.2	2631.6	2581.9	2550.6	2532.3	2534.9
20°	2561.0	2561.0	2587.1	2631.6	2657.7	2647.2	2602.8	2547.9	2498.3	2474.8	2466.9
22.5°	2587.1	2574.1	2576.7	2615.9	2652.5	2636.8	2542.7	2446.0	2375.5	2349.3	2346.7
25°	2657.7	2621.1	2597.6	2621.1	2707.4	2579.3	2391.1	2278.8	2213.4	2189.9	2192.5
27.5°	2743.9	2694.3	2644.6	2683.8	2751.8	2448.6	2197.8	2069.7	2030.5	2012.2	2020.1
30°	2830.2	2764.8	2699.5	2840.6	2720.4	2244.8	1949.5	1824.1	1790.1	1777.0	1787.5
32.5°	2989.6	2882.4	2804.0	3049.7	2623.7	2012.2	1680.3	1565.4	1534.0	1518.3	1513.1
35°	3256.1	3120.3	3041.9	3232.6	2487.8	1753.5	1434.7	1353.7	1319.7	1285.7	1280.5
37.5°	3640.3	3475.7	3405.1	3337.2	2297.1	1497.4	1246.5	1191.7	1142.0	1089.7	1087.1
40°	4100.2	3885.9	3833.7	3384.2	2033.1	1257.0	1115.9	1063.6	1000.9	951.2	953.8
42.5°	4630.7	4356.3	4244.0	3371.1	1706.5	1128.9	1021.8	964.3	909.4	865.0	862.4
45°	5197.8	4886.8	4628.1	3279.7	1382.4	1040.1	964.3	896.4	841.5	791.8	786.6
47.5°	5825.0	5477.4	4983.5	3102.0	1142.0	977.4	930.3	833.6	784.0	752.6	752.6
50°	6457.4	6041.9	5310.2	2832.8	1000.9	930.3	880.7	799.7	760.5	734.3	734.3
52.5°	6998.4	6629.9	5579.3	2511.4	912.0	891.1	846.7	784.0	742.2	718.7	716.0
55°	7523.6	7176.1	5819.8	2192.5	838.9	838.9	838.9	770.9	723.9	703.0	700.4
57.5°	8046.3	7751.0	6070.6	1983.5	773.5	794.4	823.2	755.2	708.2	689.9	687.3
60°	8636.9	8440.9	6360.7	1837.1	716.0	747.4	802.3	736.9	682.1	666.4	663.8
62.5°	9264.1	9264.1	6624.7	1630.7	663.8	708.2	770.9	713.4	658.5	645.5	642.9
65°	9755.4	9967.0	6794.5	1322.3	611.5	669.0	734.3	682.1	627.2	624.6	619.3
67.5°	9812.8	10144.7	6687.4	998.3	564.5	627.2	697.7	648.1	595.8	595.8	588.0
70°	9400.0	9737.1	6352.9	747.4	530.5	585.4	650.7	606.3	556.6	561.9	548.8
72.5°	8710.0	8793.7	5521.9	590.6	491.3	540.9	593.2	559.2	514.8	514.8	496.5
75°	7800.6	7335.5	4011.4	493.9	444.3	488.7	535.7	507.0	467.8	454.7	444.3
77.5°	6209.1	5315.4	2331.0	426.0	405.1	439.0	470.4	449.5	415.5	386.8	386.8
80°	3784.0	3115.0	1029.6	368.5	358.0	384.2	405.1	381.5	352.8	324.0	316.2
82.5°	1439.9	1202.1	499.1	316.2	313.6	329.3	345.0	321.4	300.5	287.5	248.3
85°	394.6	363.2	342.3	263.9	258.7	256.1	274.4	263.9	235.2	193.4	172.5
87.5°	149.0	169.9	185.5	162.0	172.5	159.4	182.9	167.2	149.0	96.7	86.2
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)