

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: P399827

Luminaire Tested: **ARCH-L-PA3-190-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399827
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-PA3-190-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21994 lumens
Efficiency: N/A
Efficacy: 116.4 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

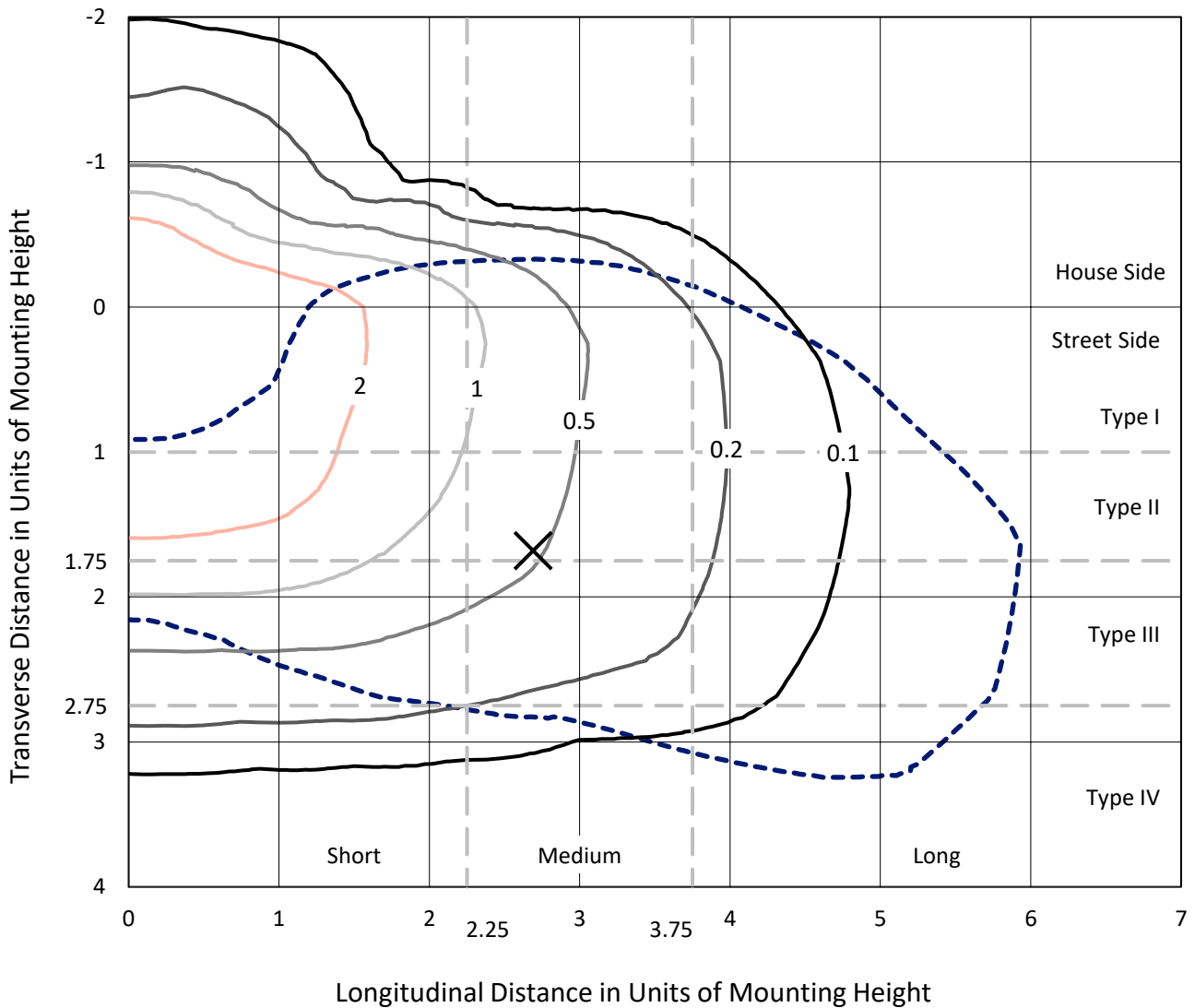
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

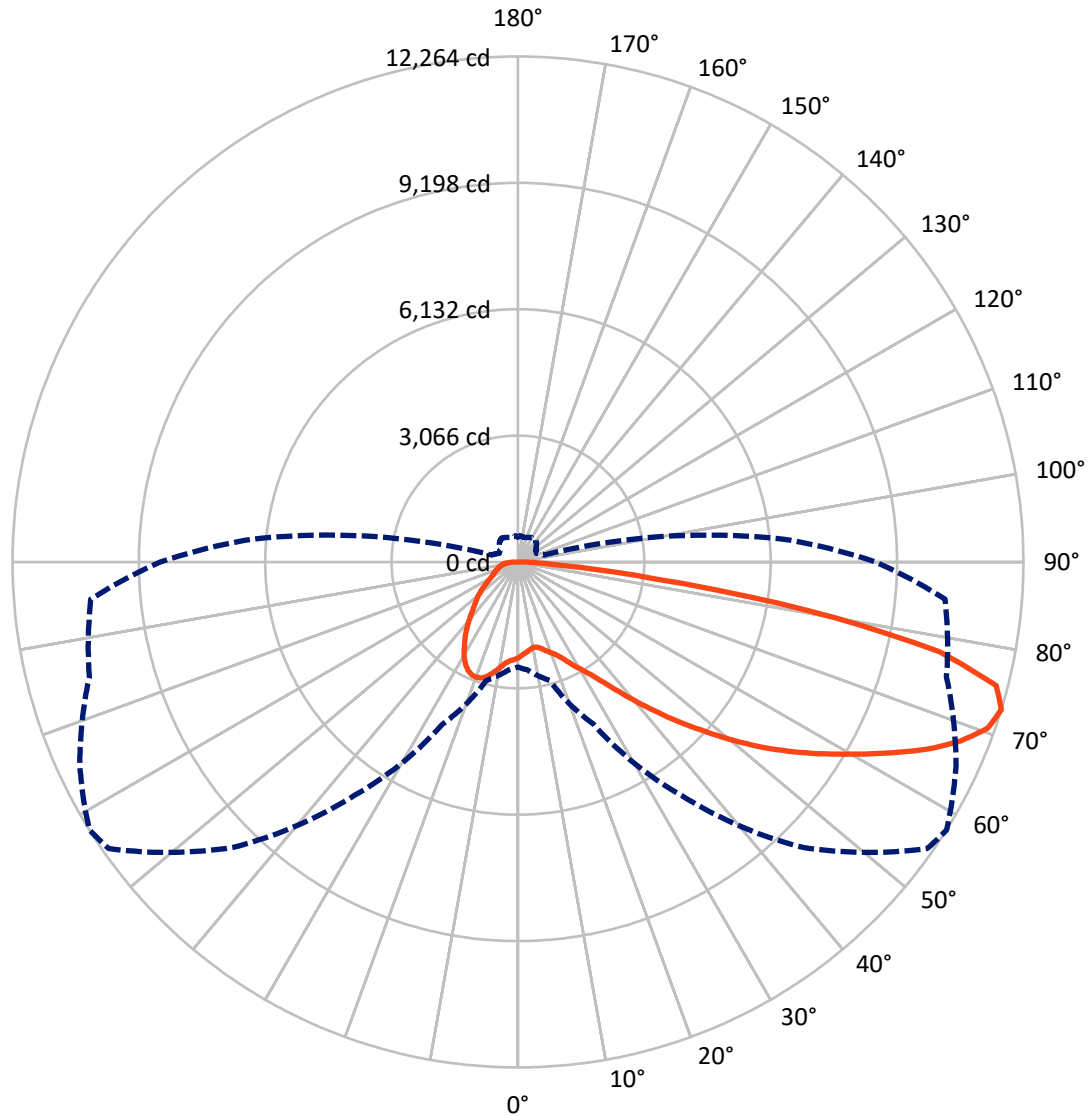
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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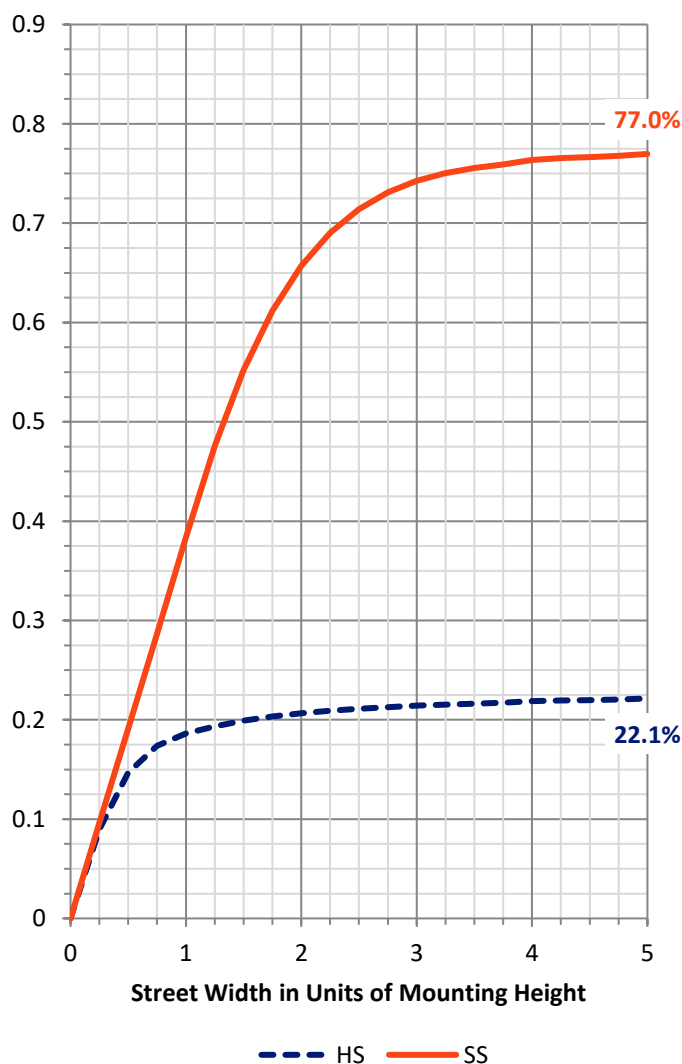
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4988.0	0.0	4988.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17006.0	0.0	17006.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	21994.0	0.0	21994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	1.0
10°-20°	709.7	3.2
20°-30°	1271.3	5.8
30°-40°	1912.4	8.7
40°-50°	3096.9	14.1
50°-60°	4661.9	21.2
60°-70°	5486.5	24.9
70°-80°	3890.4	17.7
80°-90°	741.3	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°	21994.0	100.0
0°-180°	21994.0	100.0

Coefficient of Utilization



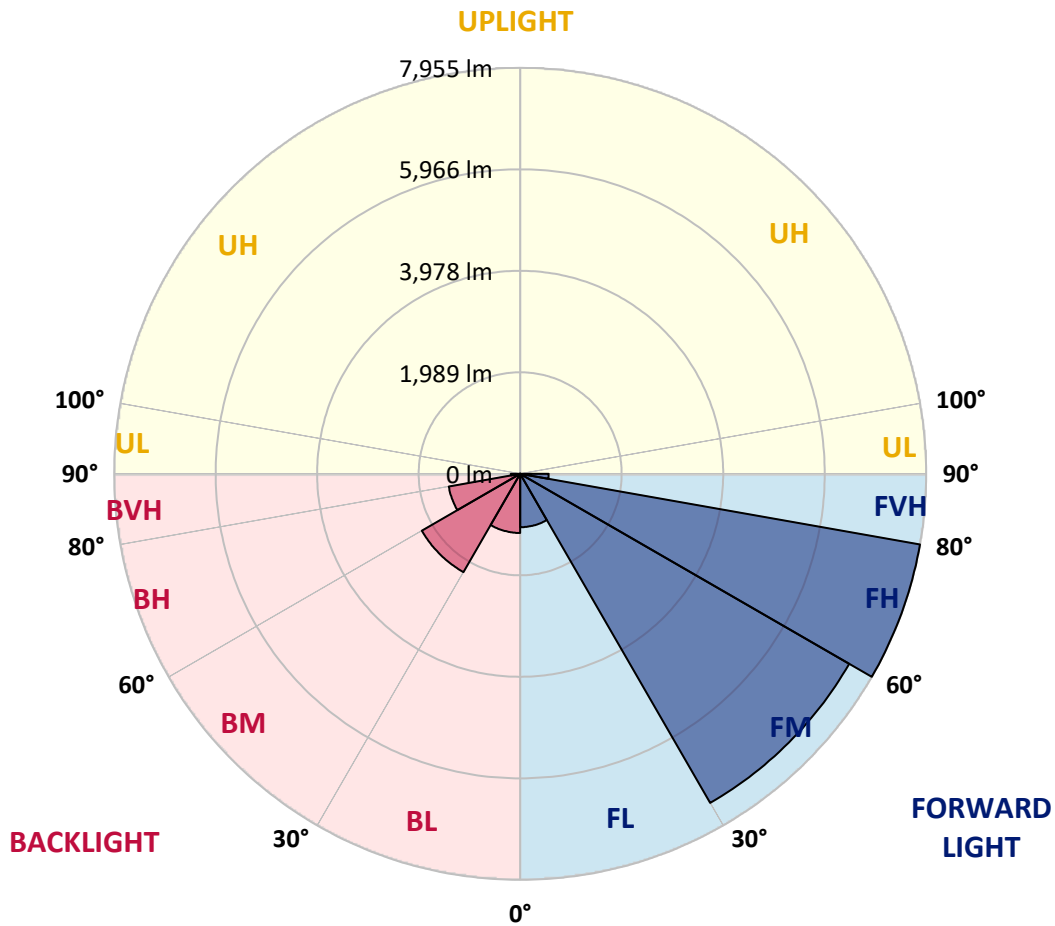
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.9	4.8			
FM (30°-60°)	7445.6	33.9			
FH (60°-80°)	7955.3	36.2			G4/12000
FVH (80°-90°)	559.2	2.5			G4/750
BL (0°-30°)	1158.6	5.3	B3/2500		
BM (30°-60°)	2225.6	10.1	B2/2500		
BH (60°-80°)	1421.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	182.1	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°	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9
2.5°	2232.8	2221.2	2224.1	2224.1	2235.7	2241.5	2244.4	2253.1	2258.9	2273.4	2293.8
5°	2128.3	2119.6	2122.5	2125.4	2145.7	2166.0	2183.4	2195.0	2212.5	2235.7	2264.7
7.5°	2052.8	2047.0	2049.9	2055.7	2073.1	2096.3	2125.4	2142.8	2168.9	2212.5	2261.8
10°	1997.6	1997.6	2000.5	2012.1	2029.5	2058.6	2081.8	2102.1	2154.4	2232.8	2308.3
12.5°	1954.1	1954.1	1962.8	1986.0	2015.0	2044.1	2099.2	2122.5	2192.1	2299.6	2389.6
15°	1951.2	1954.1	1957.0	1977.3	2009.2	2073.1	2154.4	2189.2	2273.4	2401.2	2505.7
17.5°	1997.6	2000.5	1988.9	1994.7	2032.5	2122.5	2229.9	2270.5	2378.0	2517.3	2624.8
20°	2139.9	2139.9	2105.0	2073.1	2099.2	2198.0	2319.9	2360.5	2479.6	2633.5	2740.9
22.5°	2430.2	2444.8	2363.5	2293.8	2253.1	2308.3	2418.6	2462.2	2595.7	2761.2	2868.7
25°	2781.6	2796.1	2685.7	2587.0	2511.5	2502.8	2575.4	2621.9	2732.2	2903.5	2993.5
27.5°	3121.3	3095.1	2993.5	2900.6	2804.8	2726.4	2781.6	2822.2	2950.0	3080.6	3135.8
30°	3388.4	3368.1	3269.3	3202.6	3112.6	3010.9	2979.0	3022.5	3127.1	3249.0	3278.1
32.5°	3684.5	3670.0	3571.3	3484.2	3408.7	3312.9	3243.2	3263.5	3321.6	3408.7	3426.1
35°	4062.0	4093.9	3989.4	3812.3	3728.1	3635.2	3585.8	3591.6	3635.2	3690.4	3661.3
37.5°	4459.8	4497.5	4503.3	4224.6	4111.4	4027.2	3974.9	3995.2	4047.5	4085.2	3995.2
40°	5197.3	5159.5	5008.5	4802.4	4628.2	4546.9	4474.3	4471.4	4509.1	4575.9	4413.3
42.5°	6175.8	6140.9	5836.0	5568.9	5293.1	5200.2	5057.9	4996.9	5014.4	5098.6	4872.1
45°	7113.6	7099.1	6855.2	6544.5	6213.5	6033.5	5708.3	5560.2	5545.7	5612.5	5342.4
47.5°	7946.9	7883.0	7705.9	7464.9	7430.1	6959.7	6361.6	6161.2	6091.6	6129.3	5827.3
50°	8838.3	8620.5	8376.6	8228.5	8481.1	8042.7	7020.7	6811.6	6640.3	6666.4	6352.9
52.5°	9311.5	8945.7	8786.0	8829.6	9169.3	9000.9	7737.8	7482.3	7206.5	7244.2	6875.5
55°	8905.0	8902.1	8971.8	9241.9	9715.1	9520.6	8420.2	8132.7	7830.7	7839.5	7476.5
57.5°	8347.6	8460.8	8820.8	9416.1	10391.6	10066.4	9090.9	8786.0	8510.2	8466.6	8158.8
60°	7839.5	7964.3	8486.9	9387.0	10626.8	10565.8	9729.6	9462.5	9238.9	9111.2	8876.0
62.5°	7067.1	7160.0	7900.4	9201.2	10429.4	10925.9	10377.1	10194.2	10025.8	9761.6	9648.3
65°	6158.3	6190.3	6971.3	8588.6	10182.6	11065.3	11021.7	10940.4	10777.8	10388.7	10412.0
67.5°	5174.0	5237.9	5923.1	7610.1	9642.5	11001.4	11521.1	11587.9	11396.3	10812.6	10899.8
70°	4125.9	4204.3	4724.0	6257.1	8725.0	10725.5	11982.8	12090.2	11721.4	10952.0	10989.8
72.5°	2552.2	2627.7	2976.1	4346.5	6916.1	9799.3	12125.0	12264.4	11730.2	10766.2	10403.3
75°	882.7	891.4	1164.3	2084.7	4105.6	7398.1	11660.5	11988.6	11361.4	10089.7	9053.1
77.5°	403.6	418.1	516.8	859.4	1820.5	3992.3	9628.0	10449.7	10240.7	9032.8	6968.4
80°	278.7	284.5	357.1	513.9	1051.1	1405.3	6077.0	7148.4	7514.3	6994.5	4465.6
82.5°	209.1	214.9	275.8	348.4	757.8	682.3	2314.1	3321.6	4128.8	4053.3	1867.0
85°	200.3	197.4	214.9	232.3	505.2	406.5	749.1	1027.8	1611.4	1379.2	470.4
87.5°	87.1	95.8	220.7	130.7	264.2	188.7	325.2	380.4	490.7	426.8	168.4
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°	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9
2.5°	2302.5	2308.3	2325.7	2351.8	2366.4	2395.4	2415.7	2427.3	2436.0	2438.9	2438.9
5°	2282.2	2293.8	2331.5	2375.1	2415.7	2476.7	2531.9	2563.8	2587.0	2595.7	2598.6
7.5°	2288.0	2317.0	2372.2	2436.0	2488.3	2566.7	2633.5	2697.4	2749.6	2769.9	2769.9
10°	2343.1	2383.8	2459.3	2543.5	2610.2	2691.5	2761.2	2816.4	2877.4	2912.2	2918.0
12.5°	2427.3	2476.7	2575.4	2668.3	2743.8	2807.7	2871.6	2912.2	2941.2	2967.4	2973.2
15°	2546.4	2607.3	2706.1	2801.9	2868.7	2909.3	2926.7	2926.7	2923.8	2926.7	2932.5
17.5°	2665.4	2723.5	2822.2	2918.0	2950.0	2926.7	2906.4	2900.6	2897.7	2891.9	2894.8
20°	2781.6	2836.7	2920.9	2993.5	2967.4	2886.1	2860.0	2857.0	2848.3	2842.5	2836.7
22.5°	2897.7	2938.3	3008.0	3034.2	2929.6	2813.5	2781.6	2764.1	2752.5	2738.0	2723.5
25°	3031.3	3042.9	3095.1	3054.5	2836.7	2679.9	2633.5	2607.3	2595.7	2581.2	2569.6
27.5°	3156.1	3156.1	3164.8	3022.5	2700.3	2502.8	2433.1	2386.7	2383.8	2380.9	2378.0
30°	3269.3	3254.8	3225.8	2926.7	2523.1	2285.1	2180.5	2134.1	2151.5	2166.0	2168.9
32.5°	3402.9	3373.9	3292.6	2796.1	2311.2	2041.2	1913.4	1893.1	1913.4	1930.8	1919.2
35°	3612.0	3559.7	3362.3	2645.1	2107.9	1817.6	1695.6	1666.6	1660.8	1657.9	1634.7
37.5°	3911.0	3821.0	3417.4	2482.5	1907.6	1620.2	1530.1	1469.2	1414.0	1355.9	1347.2
40°	4276.9	4123.0	3455.2	2296.7	1695.6	1454.7	1358.8	1280.4	1187.5	1085.9	1074.3
42.5°	4677.5	4448.2	3472.6	2090.5	1509.8	1318.2	1199.1	1100.4	995.9	917.5	903.0
45°	5110.2	4799.5	3458.1	1893.1	1358.8	1202.1	1068.5	961.1	876.9	821.7	810.1
47.5°	5531.2	5203.1	3417.4	1736.3	1242.7	1103.3	966.9	868.1	804.3	743.3	728.8
50°	6071.2	5589.2	3368.1	1614.3	1114.9	1004.6	903.0	798.5	725.9	696.8	691.0
52.5°	6669.3	5975.4	3310.0	1460.5	990.1	926.2	862.3	769.4	746.2	691.0	682.3
55°	7316.8	6434.2	3298.4	1265.9	879.8	871.1	821.7	795.6	801.4	691.0	676.5
57.5°	7999.2	6924.9	3324.5	1071.4	789.8	821.7	839.1	818.8	810.1	705.6	676.5
60°	8710.5	7398.1	3246.1	891.4	720.1	781.0	859.4	807.2	743.3	699.7	679.4
62.5°	9401.5	7795.9	2906.4	763.6	667.8	769.4	847.8	763.6	691.0	691.0	682.3
65°	9903.9	7973.0	2273.4	670.7	633.0	754.9	827.5	734.6	676.5	696.8	685.2
67.5°	9961.9	7790.1	1527.2	598.1	603.9	728.8	781.0	708.5	662.0	714.3	696.8
70°	9604.8	7313.9	934.9	543.0	566.2	682.3	740.4	682.3	641.7	699.7	673.6
72.5°	8678.6	6425.5	659.1	496.5	525.5	638.8	702.6	659.1	612.6	633.0	606.8
75°	7119.4	4979.5	522.6	452.9	484.9	598.1	670.7	624.3	577.8	569.1	551.7
77.5°	5043.4	3191.0	421.0	418.1	441.3	548.8	627.2	583.6	537.1	519.7	508.1
80°	2900.6	1565.0	362.9	377.5	400.7	499.4	574.9	537.1	493.6	467.5	450.0
82.5°	1109.1	545.9	319.4	328.1	354.2	447.1	522.6	490.7	447.1	470.4	394.9
85°	360.0	299.1	261.3	270.0	296.2	371.6	461.7	435.5	386.2	342.6	316.5
87.5°	159.7	162.6	139.4	153.9	185.8	246.8	336.8	319.4	281.6	235.2	226.5
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)