

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: P399962

Luminaire Tested: **ARCH-L-PA3-210-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399962
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-PA3-210-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21984 lumens
Efficiency: N/A
Efficacy: 104.2 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

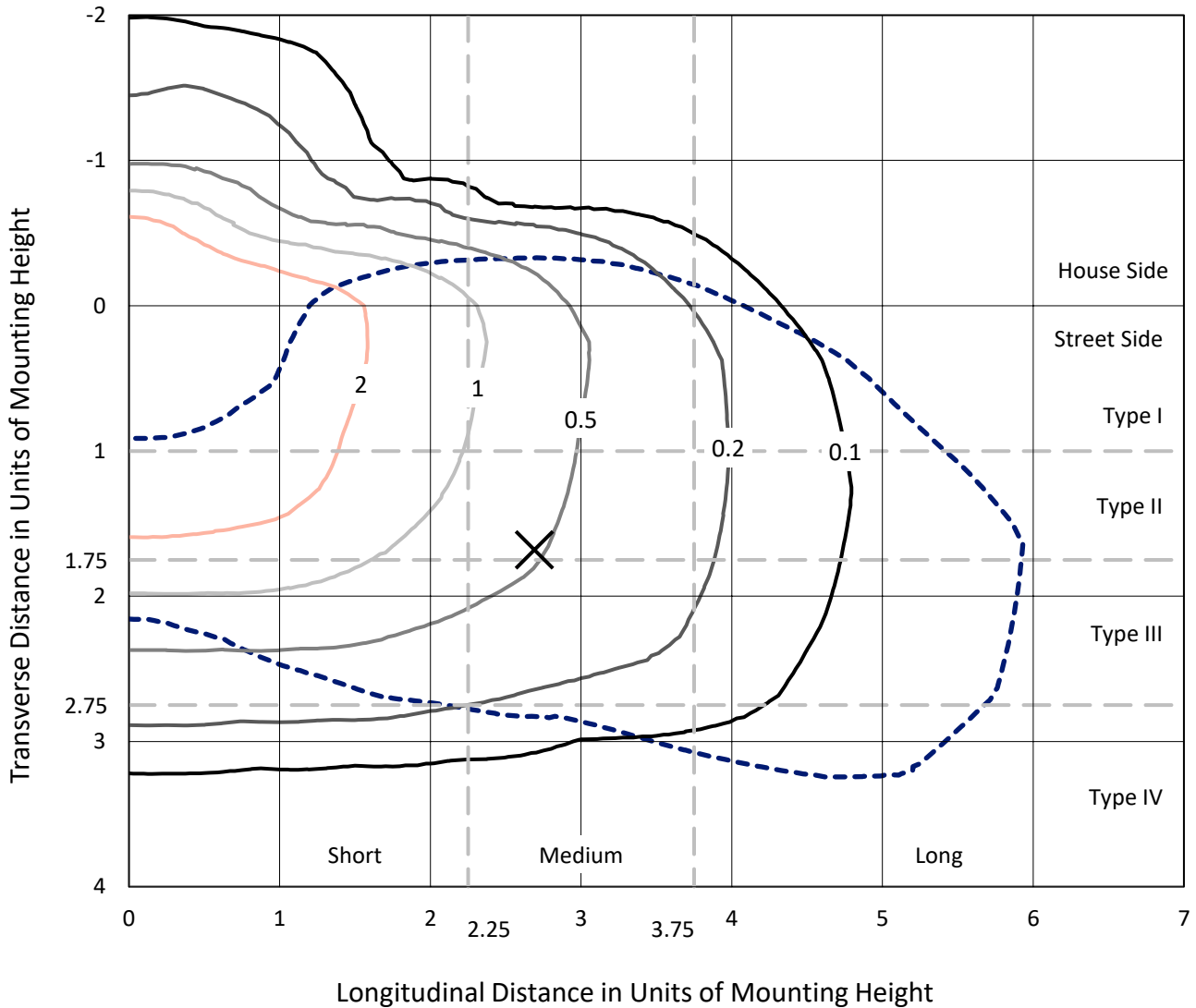
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

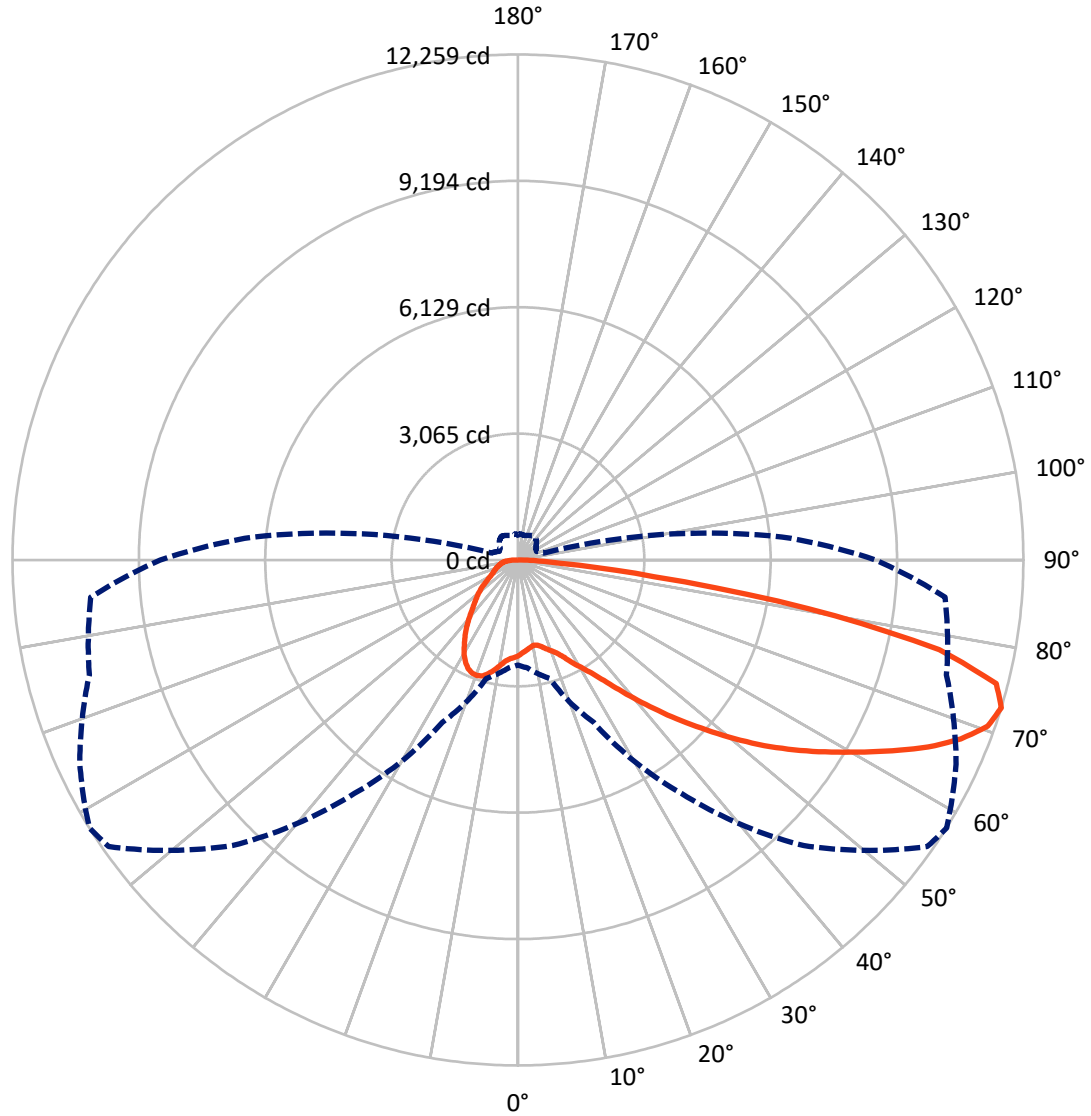
✕ Max cd
 - - - 1/2 Max cd



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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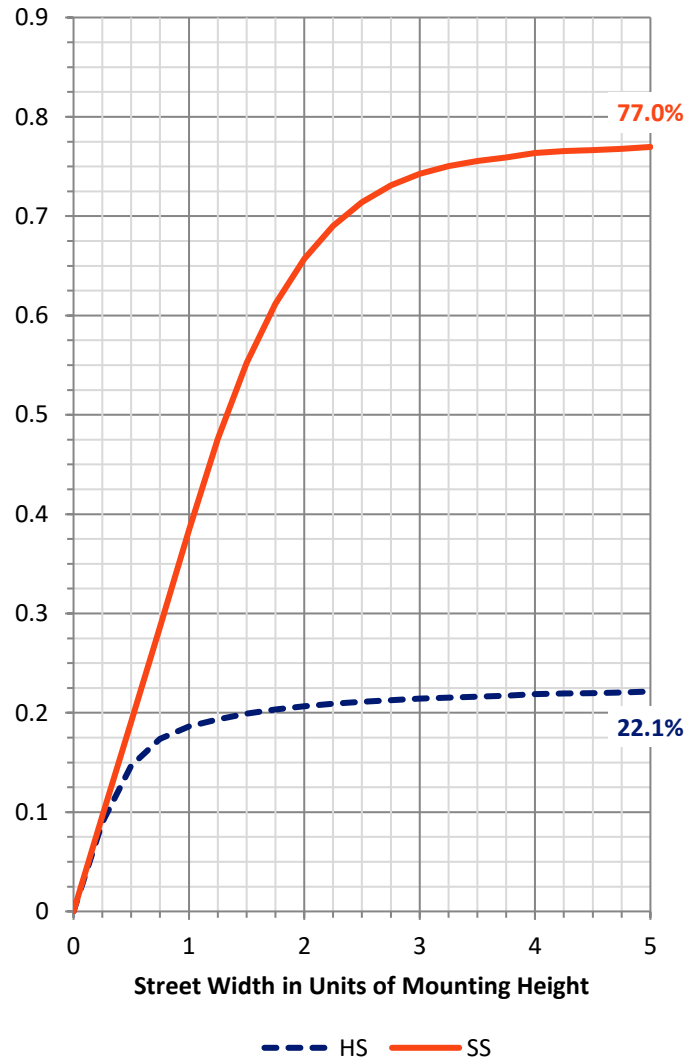
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4985.7	0.0	4985.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16998.3	0.0	16998.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	21984.0	0.0	21984.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	1.0
10°-20°	709.4	3.2
20°-30°	1270.8	5.8
30°-40°	1911.6	8.7
40°-50°	3095.5	14.1
50°-60°	4659.7	21.2
60°-70°	5484.0	24.9
70°-80°	3888.7	17.7
80°-90°	741.0	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°	21984.0	100.0
0°-180°	21984.0	100.0



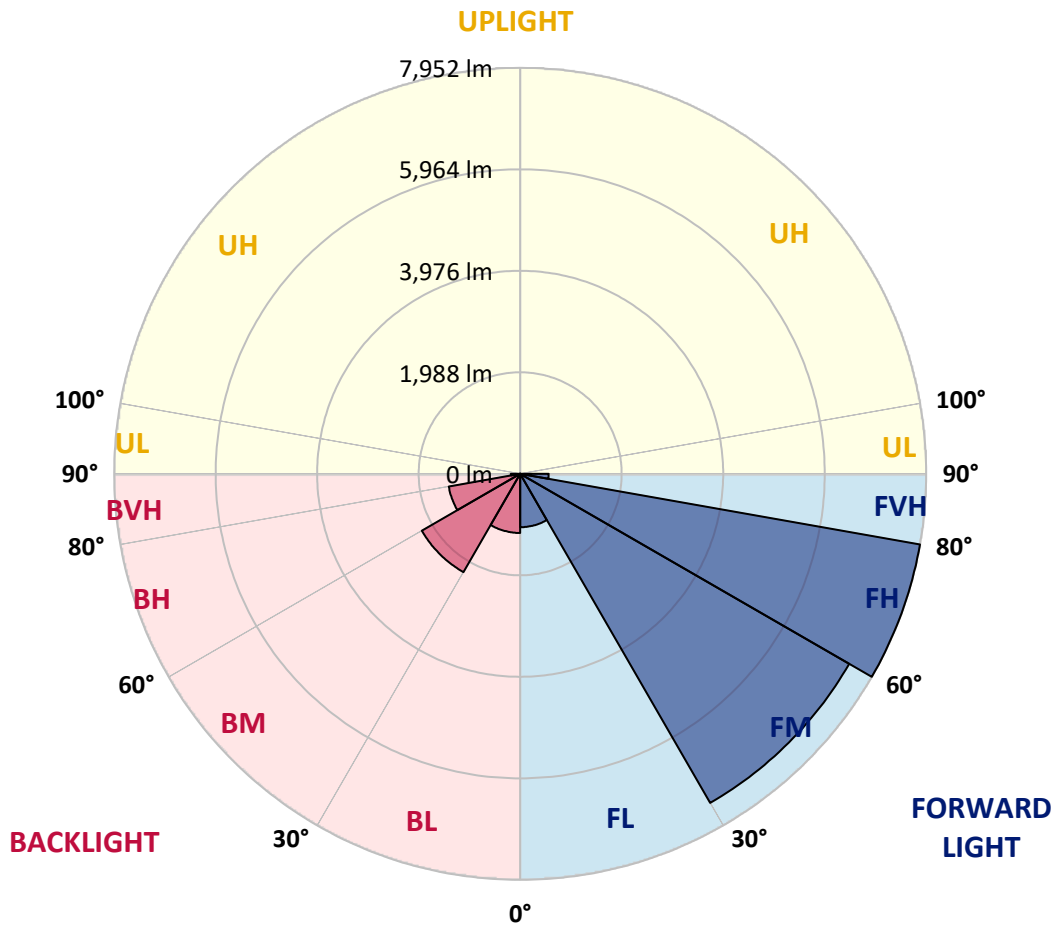
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.4	4.8			
FM (30°-60°)	7442.2	33.9			
FH (60°-80°)	7951.7	36.2			G4/12000
FVH (80°-90°)	558.9	2.5			G4/750
BL (0°-30°)	1158.1	5.3	B3/2500		
BM (30°-60°)	2224.6	10.1	B2/2500		
BH (60°-80°)	1421.0	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°	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8
2.5°	2231.8	2220.2	2223.1	2223.1	2234.7	2240.5	2243.4	2252.1	2257.9	2272.4	2292.7
5°	2127.3	2118.6	2121.5	2124.4	2144.7	2165.0	2182.4	2194.1	2211.5	2234.7	2263.7
7.5°	2051.8	2046.0	2048.9	2054.7	2072.2	2095.4	2124.4	2141.8	2167.9	2211.5	2260.8
10°	1996.7	1996.7	1999.6	2011.2	2028.6	2057.6	2080.9	2101.2	2153.4	2231.8	2307.2
12.5°	1953.2	1953.2	1961.9	1985.1	2014.1	2043.1	2098.3	2121.5	2191.1	2298.5	2388.5
15°	1950.3	1953.2	1956.1	1976.4	2008.3	2072.2	2153.4	2188.2	2272.4	2400.1	2504.6
17.5°	1996.7	1999.6	1988.0	1993.8	2031.5	2121.5	2228.9	2269.5	2376.9	2516.2	2623.6
20°	2138.9	2138.9	2104.1	2072.2	2098.3	2197.0	2318.8	2359.5	2478.5	2632.3	2739.7
22.5°	2429.1	2443.6	2362.4	2292.7	2252.1	2307.2	2417.5	2461.1	2594.6	2760.0	2867.4
25°	2780.3	2794.8	2684.5	2585.8	2510.4	2501.7	2574.2	2620.7	2731.0	2902.2	2992.2
27.5°	3119.8	3093.7	2992.2	2899.3	2803.5	2725.2	2780.3	2820.9	2948.6	3079.2	3134.4
30°	3386.8	3366.5	3267.9	3201.1	3111.1	3009.6	2977.6	3021.2	3125.7	3247.5	3276.6
32.5°	3682.9	3668.4	3569.7	3482.6	3407.2	3311.4	3241.7	3262.1	3320.1	3407.2	3424.6
35°	4060.2	4092.1	3987.6	3810.6	3726.4	3633.5	3584.2	3590.0	3633.5	3688.7	3659.7
37.5°	4457.8	4495.5	4501.3	4222.7	4109.5	4025.3	3973.1	3993.4	4045.6	4083.4	3993.4
40°	5194.9	5157.2	5006.3	4800.2	4626.1	4544.8	4472.3	4469.4	4507.1	4573.8	4411.3
42.5°	6172.9	6138.1	5833.4	5566.4	5290.7	5197.8	5055.6	4994.7	5012.1	5096.2	4869.9
45°	7110.3	7095.8	6852.1	6541.5	6210.7	6030.7	5705.7	5557.7	5543.2	5609.9	5340.0
47.5°	7943.3	7879.4	7702.4	7461.5	7426.7	6956.5	6358.7	6158.4	6088.8	6126.5	5824.7
50°	8834.2	8616.6	8372.8	8224.8	8477.3	8039.0	7017.5	6808.5	6637.3	6663.4	6350.0
52.5°	9307.3	8941.6	8782.0	8825.5	9165.1	8996.8	7734.3	7478.9	7203.2	7240.9	6872.4
55°	8901.0	8898.1	8967.7	9237.7	9710.7	9516.3	8416.3	8129.0	7827.2	7835.9	7473.1
57.5°	8343.8	8457.0	8816.8	9411.8	10386.9	10061.9	9086.7	8782.0	8506.3	8462.8	8155.1
60°	7835.9	7960.7	8483.1	9382.8	10622.0	10561.0	9725.2	9458.2	9234.7	9107.1	8872.0
62.5°	7063.9	7156.8	7896.8	9197.0	10424.6	10920.9	10372.4	10189.6	10021.2	9757.1	9644.0
65°	6155.5	6187.5	6968.1	8584.7	10178.0	11060.2	11016.7	10935.4	10772.9	10384.0	10407.2
67.5°	5171.7	5235.5	5920.5	7606.6	9638.2	10996.4	11515.9	11582.6	11391.1	10807.7	10894.8
70°	4124.0	4202.4	4721.9	6254.2	8721.1	10720.7	11977.3	12084.7	11716.1	10947.0	10984.8
72.5°	2551.0	2626.5	2974.7	4344.6	6913.0	9794.9	12119.5	12258.8	11724.8	10761.3	10398.5
75°	882.3	891.0	1163.8	2083.8	4103.7	7394.8	11655.2	11983.1	11356.2	10085.1	9049.0
77.5°	403.4	417.9	516.6	859.0	1819.7	3990.5	9623.6	10445.0	10236.0	9028.7	6965.2
80°	278.6	284.4	357.0	513.7	1050.6	1404.7	6074.3	7145.2	7510.9	6991.4	4463.6
82.5°	209.0	214.8	275.7	348.3	757.5	682.0	2313.0	3320.1	4126.9	4051.4	1866.1
85°	200.3	197.3	214.8	232.2	505.0	406.3	748.8	1027.4	1610.7	1378.5	470.2
87.5°	87.1	95.8	220.6	130.6	264.1	188.6	325.0	380.2	490.5	426.6	168.3
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°	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8	2318.8
2.5°	2301.4	2307.2	2324.6	2350.8	2365.3	2394.3	2414.6	2426.2	2434.9	2437.8	2437.8
5°	2281.1	2292.7	2330.5	2374.0	2414.6	2475.6	2530.7	2562.6	2585.8	2594.6	2597.5
7.5°	2286.9	2315.9	2371.1	2434.9	2487.2	2565.5	2632.3	2696.1	2748.4	2768.7	2768.7
10°	2342.1	2382.7	2458.1	2542.3	2609.1	2690.3	2760.0	2815.1	2876.1	2910.9	2916.7
12.5°	2426.2	2475.6	2574.2	2667.1	2742.6	2806.4	2870.3	2910.9	2939.9	2966.0	2971.8
15°	2545.2	2606.2	2704.8	2800.6	2867.4	2908.0	2925.4	2925.4	2922.5	2925.4	2931.2
17.5°	2664.2	2722.2	2820.9	2916.7	2948.6	2925.4	2905.1	2899.3	2896.4	2890.6	2893.5
20°	2780.3	2835.4	2919.6	2992.2	2966.0	2884.8	2858.7	2855.7	2847.0	2841.2	2835.4
22.5°	2896.4	2937.0	3006.7	3032.8	2928.3	2812.2	2780.3	2762.9	2751.3	2736.8	2722.2
25°	3029.9	3041.5	3093.7	3053.1	2835.4	2678.7	2632.3	2606.2	2594.6	2580.0	2568.4
27.5°	3154.7	3154.7	3163.4	3021.2	2699.0	2501.7	2432.0	2385.6	2382.7	2379.8	2376.9
30°	3267.9	3253.3	3224.3	2925.4	2522.0	2284.0	2179.5	2133.1	2150.5	2165.0	2167.9
32.5°	3401.4	3372.3	3291.1	2794.8	2310.1	2040.2	1912.5	1892.2	1912.5	1930.0	1918.3
35°	3610.3	3558.1	3360.7	2643.9	2107.0	1816.8	1694.9	1665.9	1660.0	1657.1	1633.9
37.5°	3909.2	3819.3	3415.9	2481.4	1906.7	1619.4	1529.5	1468.5	1413.4	1355.3	1346.6
40°	4274.9	4121.1	3453.6	2295.6	1694.9	1454.0	1358.2	1279.9	1187.0	1085.4	1073.8
42.5°	4675.4	4446.1	3471.0	2089.6	1509.1	1317.6	1198.6	1099.9	995.4	917.1	902.6
45°	5107.8	4797.3	3456.5	1892.2	1358.2	1201.5	1068.0	960.6	876.5	821.3	809.7
47.5°	5528.7	5200.7	3415.9	1735.5	1242.1	1102.8	966.4	867.8	803.9	743.0	728.4
50°	6068.5	5586.7	3366.5	1613.6	1114.4	1004.2	902.6	798.1	725.5	696.5	690.7
52.5°	6666.3	5972.7	3308.5	1459.8	989.6	925.8	861.9	769.1	745.9	690.7	682.0
55°	7313.5	6431.2	3296.9	1265.4	879.4	870.7	821.3	795.2	801.0	690.7	676.2
57.5°	7995.5	6921.7	3323.0	1070.9	789.4	821.3	838.7	818.4	809.7	705.2	676.2
60°	8706.6	7394.8	3244.6	891.0	719.7	780.7	859.0	806.8	743.0	699.4	679.1
62.5°	9397.3	7792.4	2905.1	763.3	667.5	769.1	847.4	763.3	690.7	690.7	682.0
65°	9899.3	7969.4	2272.4	670.4	632.7	754.6	827.1	734.3	676.2	696.5	684.9
67.5°	9957.4	7786.6	1526.5	597.8	603.7	728.4	780.7	708.1	661.7	713.9	696.5
70°	9600.4	7310.6	934.5	542.7	565.9	682.0	740.1	682.0	641.4	699.4	673.3
72.5°	8674.6	6422.5	658.8	496.3	525.3	638.5	702.3	658.8	612.4	632.7	606.6
75°	7116.2	4977.2	522.4	452.7	484.7	597.8	670.4	624.0	577.5	568.8	551.4
77.5°	5041.1	3189.5	420.8	417.9	441.1	548.5	626.9	583.3	536.9	519.5	507.9
80°	2899.3	1564.3	362.8	377.3	400.5	499.2	574.6	536.9	493.4	467.3	449.8
82.5°	1108.6	545.6	319.2	327.9	354.1	446.9	522.4	490.5	446.9	470.2	394.7
85°	359.9	298.9	261.2	269.9	296.0	371.5	461.4	435.3	386.0	342.5	316.3
87.5°	159.6	162.5	139.3	153.8	185.7	246.7	336.7	319.2	281.5	235.1	226.4
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)