

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: P399361

Luminaire Tested: **ARCH-L-PA3-130-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-130-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21038 lumens
Efficiency: N/A
Efficacy: 158.2 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

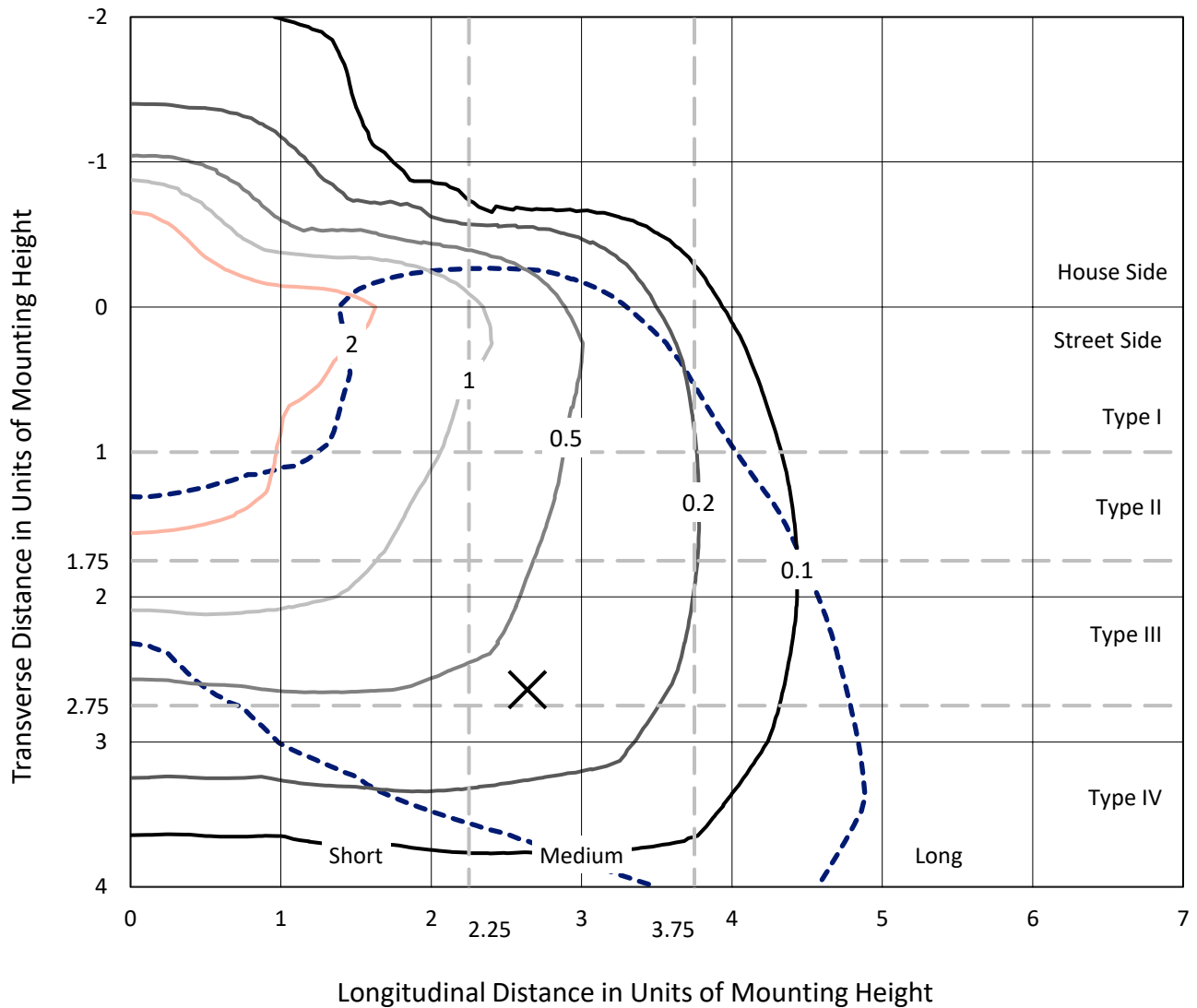
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

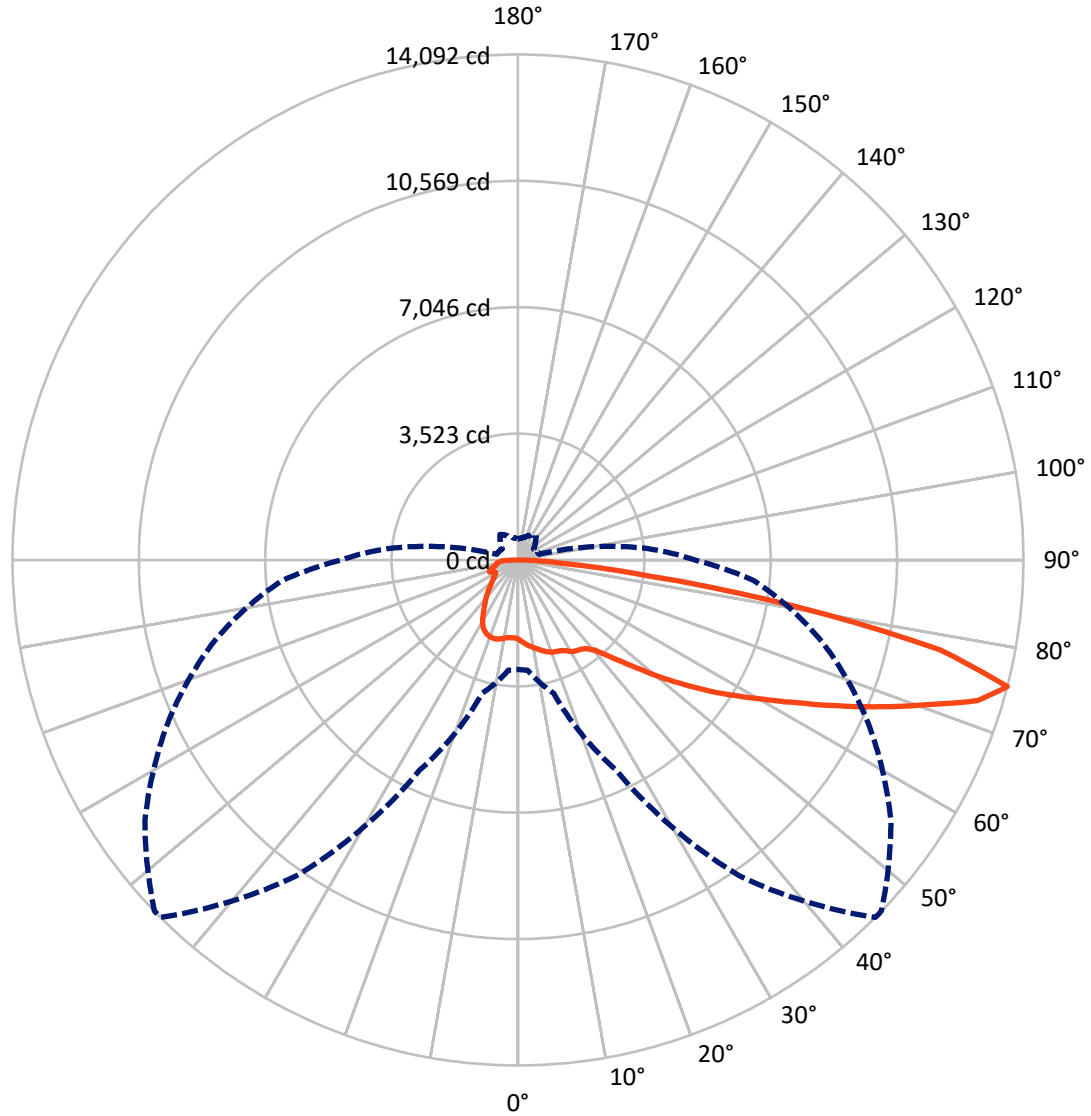
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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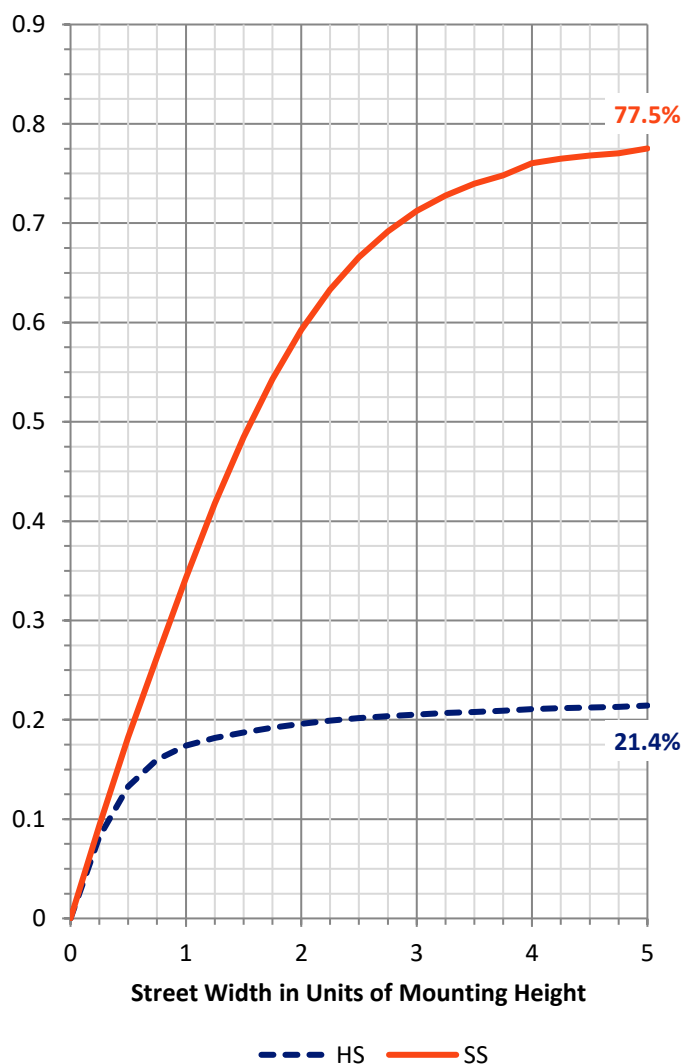
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4649.3	0.0	4649.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16388.7	0.0	16388.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	21038.0	0.0	21038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.0
10°-20°	695.4	3.3
20°-30°	1185.5	5.6
30°-40°	1661.1	7.9
40°-50°	2440.3	11.6
50°-60°	3883.8	18.5
60°-70°	5524.7	26.3
70°-80°	4625.8	22.0
80°-90°	802.8	3.8
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°	21038.0	100.0
0°-180°	21038.0	100.0

Coefficient of Utilization

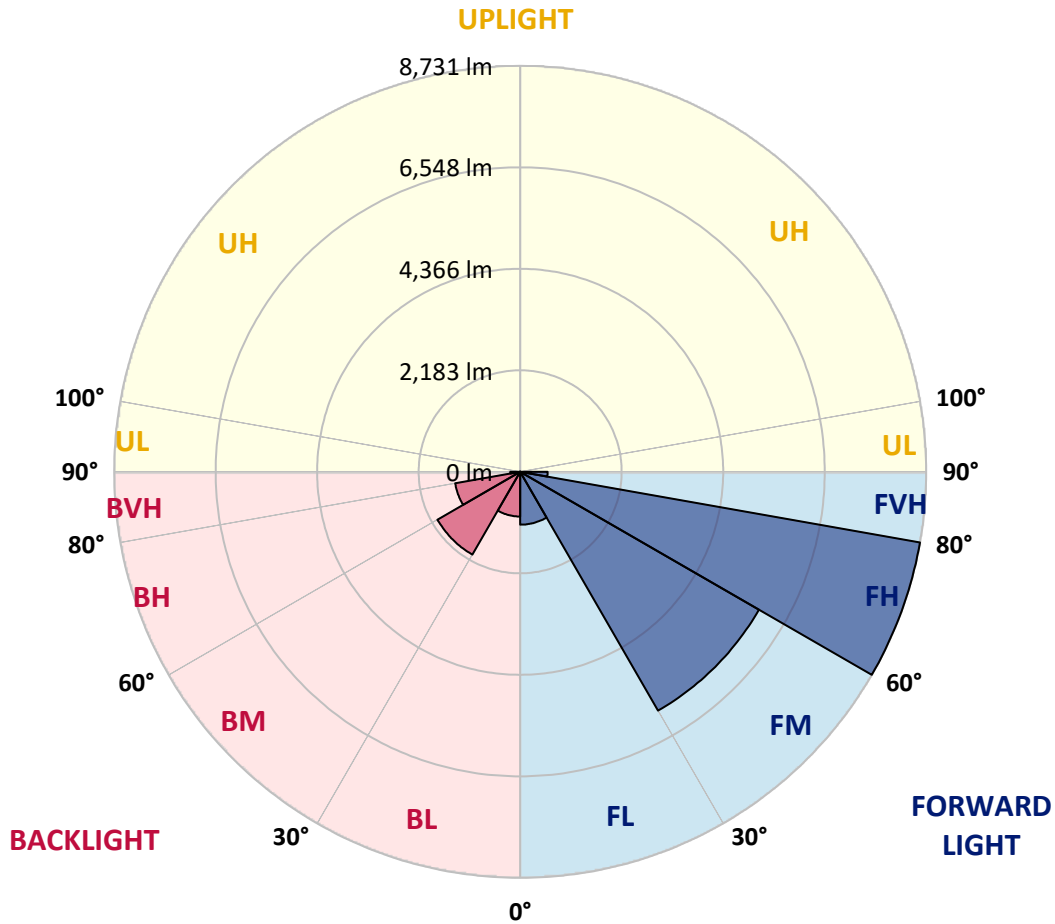


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.2	5.4			
FM (30°-60°)	5930.0	28.2			
FH (60°-80°)	8731.3	41.5			G4/12000
FVH (80°-90°)	590.2	2.8			G4/750
BL (0°-30°)	962.2	4.6	B2/1000		
BM (30°-60°)	2055.2	9.8	B2/2500		
BH (60°-80°)	1419.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	212.6	1.0			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°	46°	55°	65°	75°	85°
0°	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5
2.5°	2335.9	2324.7	2319.1	2319.1	2296.6	2282.5	2279.7	2260.0	2243.2	2226.3	2212.3
5°	2470.9	2462.4	2445.6	2431.5	2400.6	2361.2	2355.6	2313.5	2271.3	2231.9	2198.2
7.5°	2594.6	2577.7	2558.0	2529.9	2479.3	2425.9	2417.5	2358.4	2299.4	2240.4	2195.4
10°	2698.6	2681.7	2653.6	2614.2	2549.6	2484.9	2476.5	2414.7	2352.8	2282.5	2217.9
12.5°	2797.0	2782.9	2740.7	2687.3	2611.4	2552.4	2544.0	2490.6	2425.9	2347.2	2262.9
15°	2881.3	2867.2	2822.2	2760.4	2673.3	2628.3	2617.0	2566.4	2501.8	2417.5	2330.3
17.5°	2923.4	2923.4	2875.7	2808.2	2726.7	2692.9	2684.5	2622.7	2563.6	2482.1	2395.0
20°	2937.5	2943.1	2909.4	2827.9	2757.6	2743.5	2735.1	2684.5	2617.0	2538.3	2456.8
22.5°	2945.9	2957.2	2929.1	2836.3	2777.3	2768.8	2763.2	2729.5	2676.1	2600.2	2518.7
25°	2974.0	2974.0	2954.4	2850.4	2802.6	2799.8	2799.8	2780.1	2743.5	2678.9	2597.4
27.5°	3016.2	3013.4	2988.1	2881.3	2858.8	2867.2	2864.4	2861.6	2836.3	2771.7	2684.5
30°	3086.5	3086.5	3058.4	2943.1	2929.1	2965.6	2968.4	2974.0	2934.7	2833.5	2763.2
32.5°	3193.3	3182.1	3153.9	3005.0	2982.5	3016.2	3021.8	3019.0	2985.3	2889.7	2856.0
35°	3522.2	3496.9	3395.7	3142.7	3030.3	3049.9	3052.8	3066.8	3072.4	2996.5	2979.7
37.5°	4098.4	4064.7	3910.1	3468.8	3182.1	3134.3	3131.5	3168.0	3198.9	3131.5	3131.5
40°	4725.3	4697.2	4607.2	4031.0	3463.2	3305.7	3294.5	3328.2	3367.6	3319.8	3333.9
42.5°	5265.0	5287.5	5295.9	4626.9	3884.8	3626.2	3595.3	3547.5	3609.3	3567.2	3623.4
45°	5669.8	5658.6	5813.2	5236.9	4430.1	4028.2	3986.0	3856.7	3935.4	3932.6	4056.3
47.5°	6099.9	6080.2	6144.9	5810.3	5051.4	4520.1	4455.4	4264.3	4382.4	4463.9	4669.1
50°	6507.5	6513.1	6535.6	6262.9	5726.0	5118.8	5037.3	4781.5	4950.2	5121.7	5411.2
52.5°	7038.8	6999.4	6971.3	6791.4	6482.2	5742.9	5689.5	5397.1	5633.3	5835.6	6220.8
55°	7502.6	7477.3	7460.4	7452.0	7114.7	6431.6	6375.4	6071.8	6411.9	6555.3	7123.1
57.5°	7997.3	7983.3	8073.2	8216.6	8081.6	7131.5	7072.5	6780.1	7159.6	7260.8	8101.3
60°	8359.9	8368.4	8615.7	8981.2	8888.4	7890.5	7820.2	7561.6	7887.7	7977.6	9079.5
62.5°	8362.7	8447.1	9020.5	9675.5	9782.3	8764.7	8683.2	8402.1	8635.4	8635.4	9956.6
65°	7564.4	7660.0	8947.4	9847.0	10687.4	9804.8	9726.1	9284.8	9371.9	9253.8	10780.2
67.5°	6768.9	6881.3	8092.9	9861.0	11322.7	10917.9	10825.2	10167.4	10018.4	9720.5	11356.5
70°	6240.4	6319.1	7331.1	9678.3	11705.0	12081.7	12011.4	11005.1	10527.2	10111.2	11235.6
72.5°	5253.8	5225.7	6192.6	8809.7	11918.7	13402.9	13343.8	11915.9	10968.5	9925.7	9582.7
75°	3049.9	3083.7	3842.6	6454.1	10743.7	14091.6	14085.9	12694.5	10774.6	8767.5	6603.1
77.5°	879.8	905.1	1262.1	2836.3	6794.2	12019.9	12405.0	11609.5	9107.7	6248.9	3423.8
80°	385.1	404.8	548.1	944.5	2926.3	7851.1	8188.5	7851.1	5492.7	2867.2	1343.7
82.5°	227.7	241.7	357.0	584.7	1402.7	3735.8	4191.2	3659.9	2369.7	1217.2	556.6
85°	129.3	134.9	205.2	371.1	882.7	1307.1	1467.3	1374.6	1155.3	691.5	292.3
87.5°	59.0	61.8	101.2	174.3	494.7	441.3	458.2	607.2	669.0	421.7	146.2
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°	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5	2209.5
2.5°	2206.6	2198.2	2181.3	2175.7	2167.3	2170.1	2172.9	2172.9	2175.7	2167.3	2167.3
5°	2184.2	2170.1	2153.2	2153.2	2153.2	2175.7	2195.4	2206.6	2212.3	2212.3	2206.6
7.5°	2175.7	2158.9	2139.2	2144.8	2150.4	2178.5	2215.1	2251.6	2262.9	2262.9	2257.2
10°	2192.6	2175.7	2161.7	2170.1	2184.2	2206.6	2234.7	2268.5	2296.6	2299.4	2296.6
12.5°	2231.9	2212.3	2198.2	2215.1	2231.9	2246.0	2260.0	2274.1	2310.6	2316.3	2316.3
15°	2296.6	2276.9	2260.0	2274.1	2279.7	2279.7	2279.7	2279.7	2316.3	2321.9	2321.9
17.5°	2361.2	2344.4	2327.5	2330.3	2313.5	2291.0	2282.5	2279.7	2299.4	2316.3	2319.1
20°	2423.1	2409.0	2392.2	2364.1	2321.9	2279.7	2265.7	2265.7	2276.9	2302.2	2302.2
22.5°	2490.6	2473.7	2445.6	2380.9	2310.6	2251.6	2237.6	2246.0	2260.0	2293.8	2291.0
25°	2566.4	2544.0	2496.2	2375.3	2274.1	2203.8	2206.6	2231.9	2257.2	2293.8	2293.8
27.5°	2650.8	2619.9	2524.3	2330.3	2192.6	2125.1	2150.4	2209.5	2246.0	2285.3	2291.0
30°	2743.5	2715.4	2546.8	2251.6	2060.5	1998.6	2060.5	2156.0	2212.3	2248.8	2257.2
32.5°	2856.0	2833.5	2566.4	2150.4	1889.0	1835.6	1925.5	2043.6	2133.6	2175.7	2184.2
35°	2996.5	2974.0	2591.7	2035.2	1728.8	1672.5	1754.1	1874.9	1993.0	2046.4	2063.3
37.5°	3179.2	3145.5	2614.2	1911.5	1593.8	1529.2	1568.5	1678.2	1785.0	1858.1	1877.8
40°	3412.6	3359.2	2633.9	1770.9	1475.8	1402.7	1416.7	1470.2	1532.0	1596.7	1622.0
42.5°	3741.4	3634.6	2636.7	1622.0	1354.9	1287.4	1281.8	1298.7	1298.7	1298.7	1307.1
45°	4199.6	3997.2	2642.3	1481.4	1231.2	1160.9	1144.1	1138.5	1096.3	1014.8	1009.2
47.5°	4778.7	4472.3	2667.6	1363.3	1101.9	1040.1	1017.6	995.1	916.4	832.1	815.2
50°	5520.8	5023.3	2718.2	1250.9	992.3	950.1	922.0	868.6	781.5	716.8	699.9
52.5°	6375.4	5678.2	2766.0	1132.8	910.8	882.7	848.9	784.3	691.5	652.2	646.5
55°	7356.4	6409.1	2861.6	1028.8	840.5	820.8	789.9	728.1	657.8	629.7	626.9
57.5°	8359.9	7227.1	2996.5	936.1	773.0	761.8	761.8	708.4	663.4	652.2	652.2
60°	9326.9	7929.8	2892.5	848.9	711.2	716.8	770.2	756.2	722.4	736.5	744.9
62.5°	10077.5	8343.1	2347.2	778.6	666.2	716.8	854.5	854.5	815.2	809.6	809.6
65°	10397.9	8337.4	1650.1	725.2	649.3	787.1	952.9	908.0	803.9	764.6	756.2
67.5°	10316.4	7972.0	1138.5	688.7	643.7	860.2	997.9	871.4	753.3	719.6	694.3
70°	9599.6	7199.0	877.0	655.0	635.3	829.2	983.9	829.2	714.0	683.1	660.6
72.5°	7744.3	5773.8	728.1	621.2	601.6	767.4	936.1	789.9	683.1	649.3	626.9
75°	4938.9	3631.8	615.6	576.3	536.9	688.7	871.4	750.5	649.3	604.4	587.5
77.5°	2375.3	1565.7	536.9	522.8	483.5	638.1	806.8	699.9	604.4	567.8	556.6
80°	961.4	716.8	466.6	469.4	444.1	607.2	761.8	652.2	559.4	520.0	500.4
82.5°	500.4	416.0	393.5	404.8	404.8	579.1	728.1	612.8	520.0	503.2	438.5
85°	269.9	258.6	303.6	326.1	351.4	522.8	677.5	570.6	475.1	407.6	393.5
87.5°	132.1	168.7	171.5	196.8	244.6	418.8	570.6	477.9	396.4	328.9	323.3
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)