

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: P399584

Luminaire Tested: **ARCH-L-PA3-160-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399584
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-PA3-160-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24924 lumens
Efficiency: N/A
Efficacy: 153.9 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

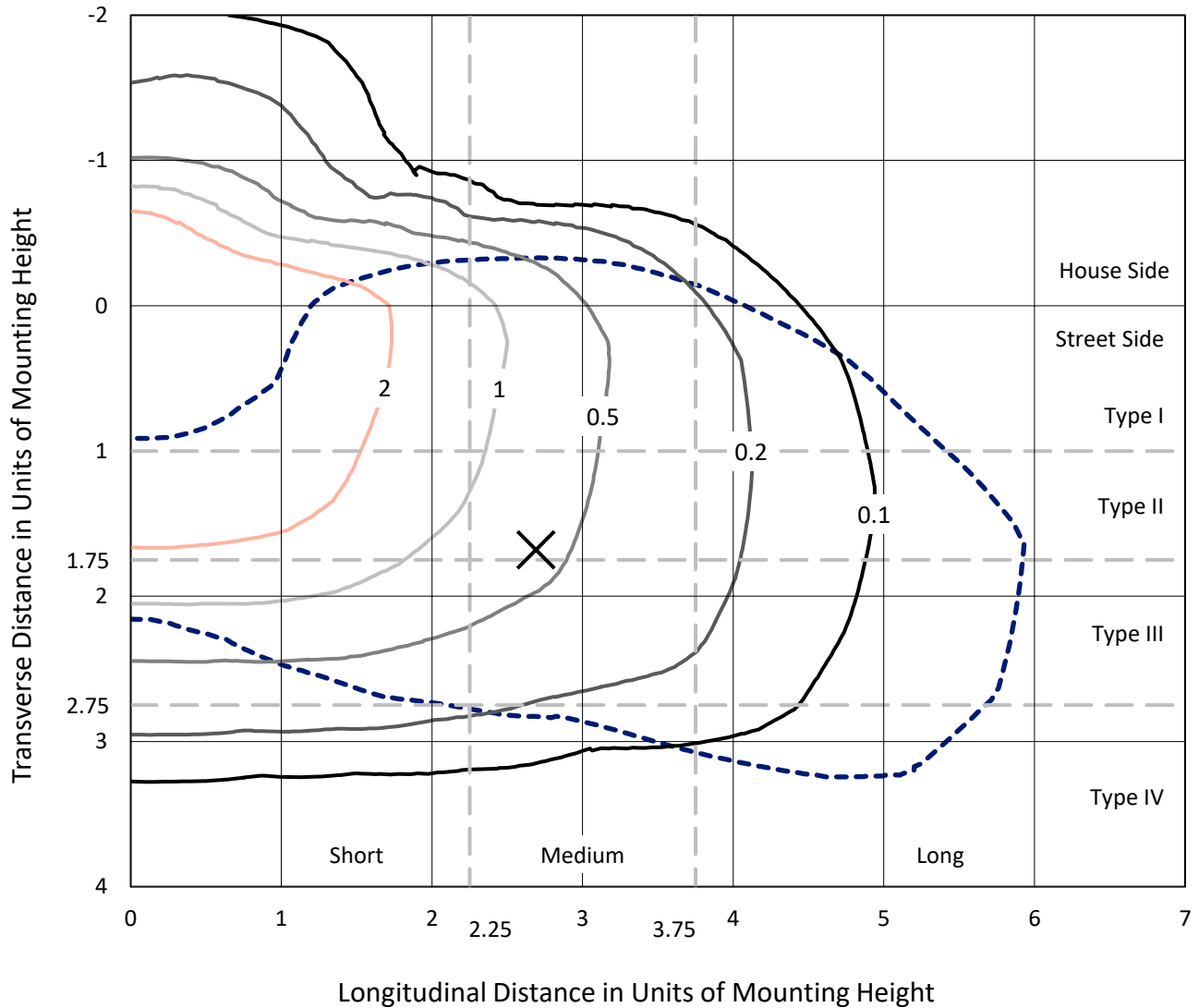
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

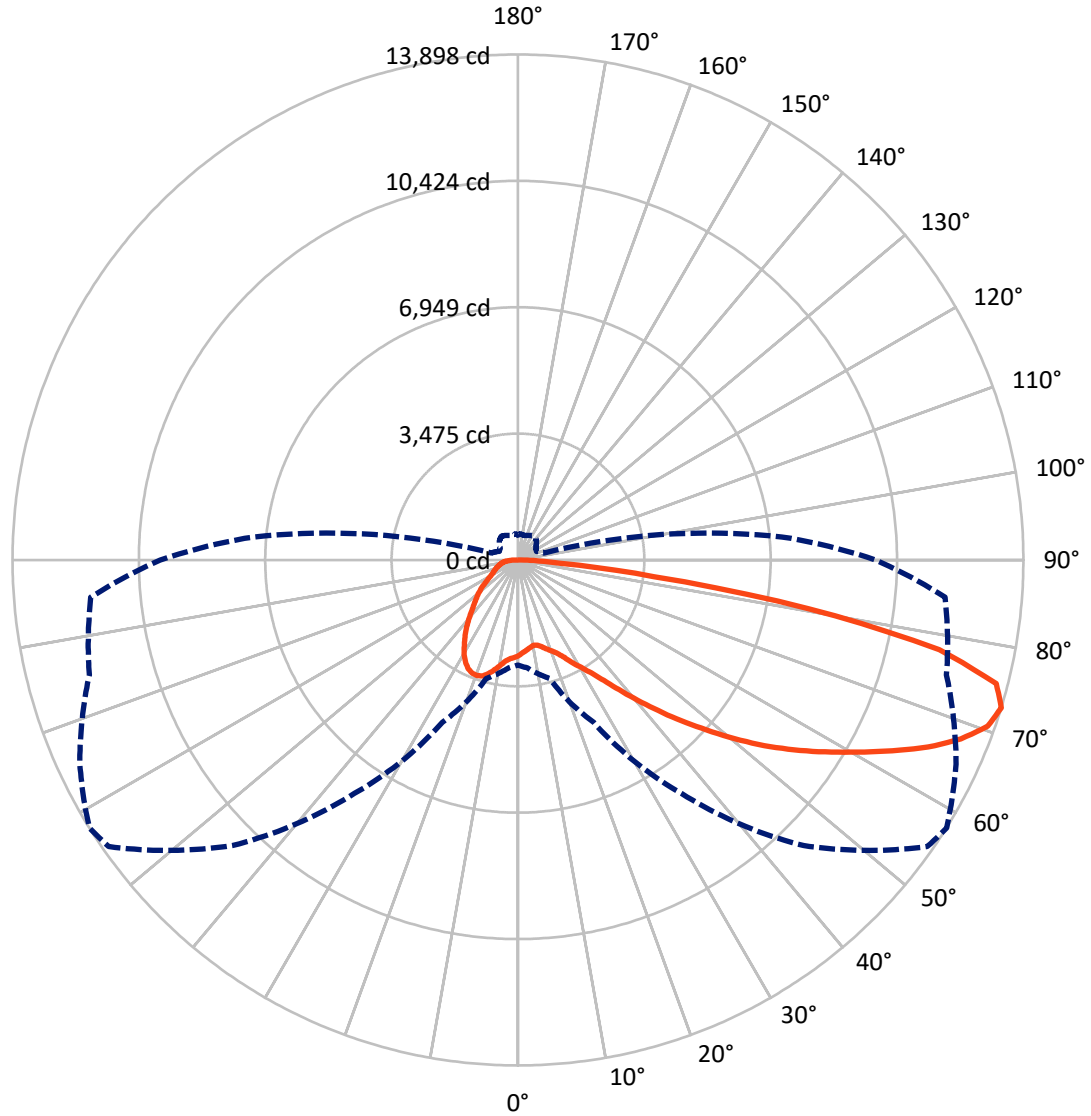
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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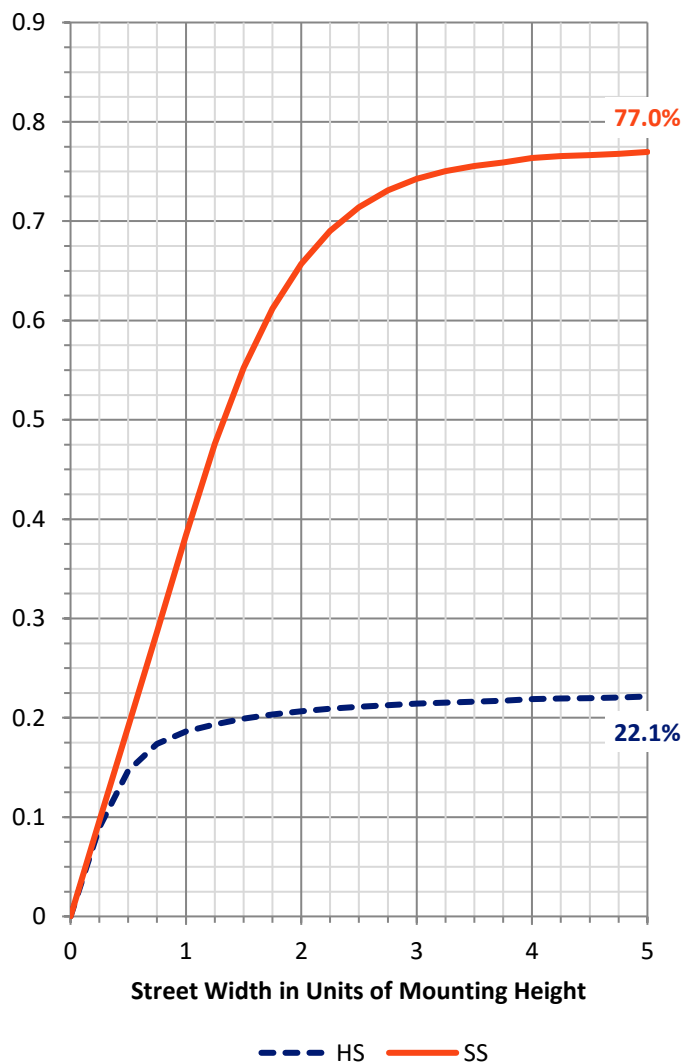
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5652.5	0.0	5652.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19271.5	0.0	19271.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	24924.0	0.0	24924.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	1.0
10°-20°	804.3	3.2
20°-30°	1440.7	5.8
30°-40°	2167.2	8.7
40°-50°	3509.5	14.1
50°-60°	5282.9	21.2
60°-70°	6217.4	24.9
70°-80°	4408.7	17.7
80°-90°	840.1	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°	24924.0	100.0
0°-180°	24924.0	100.0



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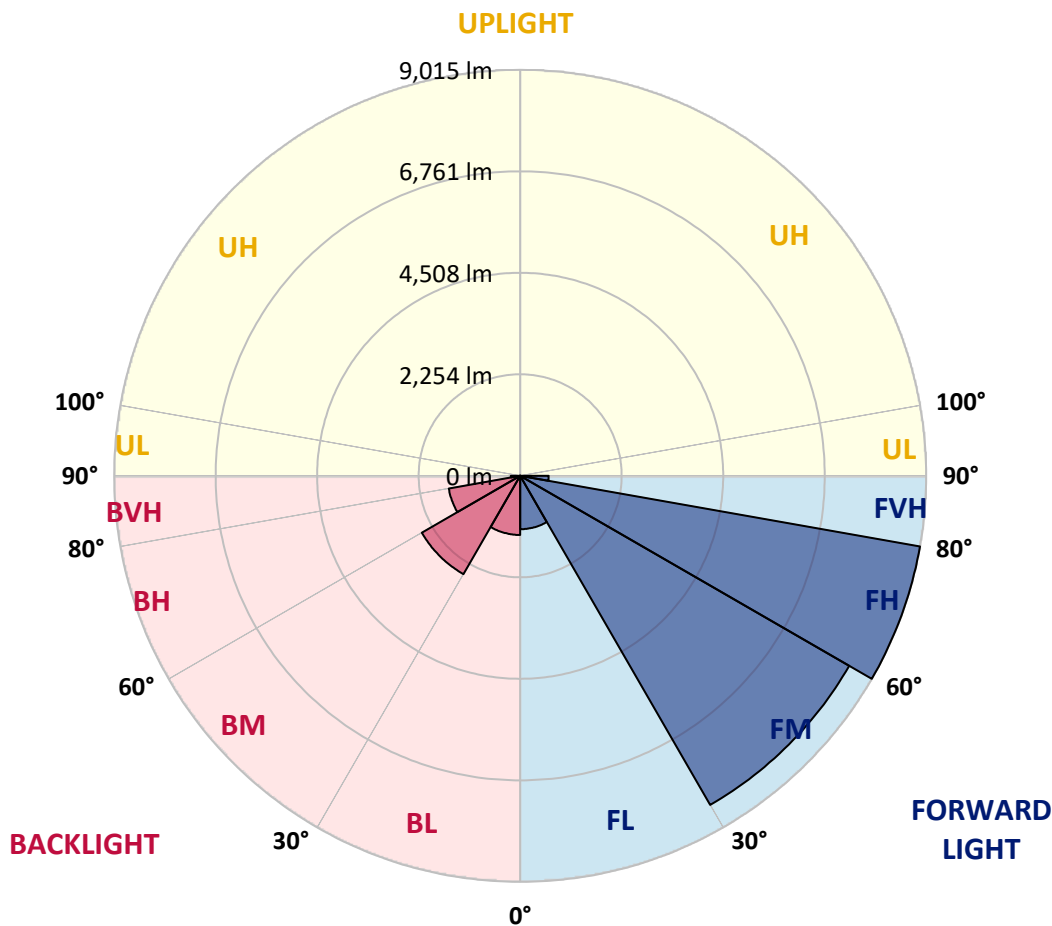
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.2	4.8			
FM (30°-60°)	8437.5	33.9			
FH (60°-80°)	9015.1	36.2			G4/12000
FVH (80°-90°)	633.7	2.5			G4/750
BL (0°-30°)	1313.0	5.3	B3/2500		
BM (30°-60°)	2522.1	10.1	B3/5000		
BH (60°-80°)	1611.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	206.4	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°	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0
2.5°	2530.2	2517.1	2520.4	2520.4	2533.5	2540.1	2543.4	2553.3	2559.9	2576.3	2599.3
5°	2411.8	2401.9	2405.2	2408.5	2431.5	2454.6	2474.3	2487.5	2507.2	2533.5	2566.4
7.5°	2326.2	2319.7	2323.0	2329.5	2349.3	2375.6	2408.5	2428.2	2457.9	2507.2	2563.1
10°	2263.7	2263.7	2267.0	2280.2	2299.9	2332.8	2359.1	2382.2	2441.4	2530.2	2615.8
12.5°	2214.4	2214.4	2224.2	2250.6	2283.5	2316.4	2378.9	2405.2	2484.2	2605.9	2707.9
15°	2211.1	2214.4	2217.7	2240.7	2276.9	2349.3	2441.4	2480.9	2576.3	2721.1	2839.5
17.5°	2263.7	2267.0	2253.9	2260.4	2303.2	2405.2	2527.0	2573.0	2694.8	2852.7	2974.4
20°	2425.0	2425.0	2385.5	2349.3	2378.9	2490.8	2629.0	2675.0	2809.9	2984.3	3106.0
22.5°	2754.0	2770.4	2678.3	2599.3	2553.3	2615.8	2740.8	2790.2	2941.5	3129.1	3250.8
25°	3152.1	3168.6	3043.5	2931.7	2846.1	2836.2	2918.5	2971.1	3096.2	3290.3	3392.3
27.5°	3537.1	3507.5	3392.3	3287.0	3178.4	3089.6	3152.1	3198.2	3342.9	3491.0	3553.5
30°	3839.8	3816.8	3704.9	3629.2	3527.2	3412.0	3375.9	3425.2	3543.7	3681.8	3714.8
32.5°	4175.4	4158.9	4047.1	3948.4	3862.8	3754.2	3675.3	3698.3	3764.1	3862.8	3882.6
35°	4603.1	4639.3	4520.9	4320.2	4224.7	4119.5	4063.5	4070.1	4119.5	4182.0	4149.1
37.5°	5053.9	5096.7	5103.3	4787.4	4659.1	4563.7	4504.4	4527.5	4586.7	4629.5	4527.5
40°	5889.6	5846.9	5675.8	5442.2	5244.7	5152.6	5070.4	5067.1	5109.8	5185.5	5001.3
42.5°	6998.5	6959.0	6613.5	6310.8	5998.2	5892.9	5731.7	5662.6	5682.4	5777.8	5521.1
45°	8061.2	8044.8	7768.4	7416.3	7041.2	6837.2	6468.7	6300.9	6284.5	6360.2	6054.2
47.5°	9005.6	8933.2	8732.5	8459.4	8419.9	7886.9	7209.1	6982.0	6903.1	6945.8	6603.6
50°	10015.7	9768.9	9492.5	9324.7	9611.0	9114.1	7956.0	7719.1	7524.9	7554.5	7199.2
52.5°	10552.0	10137.4	9956.5	10005.8	10390.8	10199.9	8768.7	8479.1	8166.5	8209.3	7791.4
55°	10091.4	10088.1	10167.0	10473.0	11009.4	10788.9	9541.9	9216.1	8873.9	8883.8	8472.5
57.5°	9459.6	9587.9	9995.9	10670.5	11776.0	11407.5	10301.9	9956.5	9643.9	9594.5	9245.8
60°	8883.8	9025.3	9617.6	10637.5	12042.5	11973.4	11025.8	10723.1	10469.7	10325.0	10058.5
62.5°	8008.6	8113.9	8952.9	10427.0	11818.8	12381.4	11759.5	11552.3	11361.4	11062.0	10933.7
65°	6978.7	7014.9	7900.0	9732.7	11539.1	12539.3	12490.0	12397.9	12213.6	11772.7	11799.0
67.5°	5863.3	5935.7	6712.2	8623.9	10927.1	12467.0	13055.9	13131.6	12914.4	12253.1	12351.8
70°	4675.5	4764.4	5353.3	7090.6	9887.4	12154.4	13579.1	13700.8	13283.0	12411.0	12453.8
72.5°	2892.2	2977.7	3372.6	4925.6	7837.5	11104.8	13740.3	13898.2	13292.8	12200.4	11789.2
75°	1000.3	1010.1	1319.4	2362.4	4652.5	8383.7	13213.9	13585.7	12875.0	11433.8	10259.2
77.5°	457.4	473.8	585.7	973.9	2063.0	4524.2	10910.6	11841.8	11604.9	10236.1	7896.7
80°	315.9	322.4	404.7	582.4	1191.1	1592.5	6886.6	8100.7	8515.3	7926.3	5060.5
82.5°	236.9	243.5	312.6	394.8	858.8	773.2	2622.4	3764.1	4678.8	4593.3	2115.7
85°	227.0	223.7	243.5	263.2	572.5	460.6	848.9	1164.8	1826.1	1562.9	533.0
87.5°	98.7	108.6	250.1	148.1	299.4	213.9	368.5	431.0	556.1	483.7	190.8
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°	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0	2629.0
2.5°	2609.2	2615.8	2635.5	2665.1	2681.6	2714.5	2737.5	2750.7	2760.6	2763.9	2763.9
5°	2586.2	2599.3	2642.1	2691.5	2737.5	2806.6	2869.1	2905.3	2931.7	2941.5	2944.8
7.5°	2592.8	2625.7	2688.2	2760.6	2819.8	2908.6	2984.3	3056.7	3115.9	3138.9	3138.9
10°	2655.3	2701.3	2786.9	2882.3	2958.0	3050.1	3129.1	3191.6	3260.7	3300.2	3306.8
12.5°	2750.7	2806.6	2918.5	3023.8	3109.3	3181.7	3254.1	3300.2	3333.1	3362.7	3369.3
15°	2885.6	2954.7	3066.6	3175.1	3250.8	3296.9	3316.6	3316.6	3313.3	3316.6	3323.2
17.5°	3020.5	3086.3	3198.2	3306.8	3342.9	3316.6	3293.6	3287.0	3283.7	3277.1	3280.4
20°	3152.1	3214.6	3310.0	3392.3	3362.7	3270.6	3240.9	3237.7	3227.8	3221.2	3214.6
22.5°	3283.7	3329.8	3408.8	3438.4	3319.9	3188.3	3152.1	3132.4	3119.2	3102.8	3086.3
25°	3435.1	3448.2	3507.5	3461.4	3214.6	3036.9	2984.3	2954.7	2941.5	2925.1	2911.9
27.5°	3576.6	3576.6	3586.4	3425.2	3060.0	2836.2	2757.3	2704.6	2701.3	2698.0	2694.8
30°	3704.9	3688.4	3655.5	3316.6	2859.3	2589.5	2471.0	2418.4	2438.1	2454.6	2457.9
32.5°	3856.2	3823.3	3731.2	3168.6	2619.1	2313.1	2168.3	2145.3	2168.3	2188.1	2174.9
35°	4093.1	4033.9	3810.2	2997.5	2388.8	2059.7	1921.5	1888.6	1882.1	1878.8	1852.4
37.5°	4432.0	4330.0	3872.7	2813.2	2161.7	1836.0	1734.0	1664.9	1602.4	1536.6	1526.7
40°	4846.6	4672.2	3915.5	2602.6	1921.5	1648.4	1539.9	1451.0	1345.7	1230.6	1217.4
42.5°	5300.7	5040.7	3935.2	2369.0	1711.0	1493.8	1358.9	1247.0	1128.6	1039.7	1023.3
45°	5790.9	5438.9	3918.8	2145.3	1539.9	1362.2	1210.8	1089.1	993.7	931.2	918.0
47.5°	6268.0	5896.2	3872.7	1967.6	1408.2	1250.3	1095.7	983.8	911.4	842.3	825.9
50°	6880.0	6333.8	3816.8	1829.4	1263.5	1138.4	1023.3	904.8	822.6	789.7	783.1
52.5°	7557.8	6771.4	3750.9	1655.0	1122.0	1049.6	977.2	871.9	845.6	783.1	773.2
55°	8291.6	7291.3	3737.8	1434.6	997.0	987.1	931.2	901.5	908.1	783.1	766.6
57.5°	9064.8	7847.4	3767.4	1214.1	895.0	931.2	950.9	927.9	918.0	799.5	766.6
60°	9870.9	8383.7	3678.6	1010.1	816.0	885.1	973.9	914.7	842.3	793.0	769.9
62.5°	10654.0	8834.5	3293.6	865.3	756.8	871.9	960.8	865.3	783.1	783.1	773.2
65°	11223.2	9035.2	2576.3	760.1	717.3	855.5	937.7	832.4	766.6	789.7	776.5
67.5°	11289.0	8827.9	1730.7	677.8	684.4	825.9	885.1	802.8	750.2	809.4	789.7
70°	10884.3	8288.3	1059.5	615.3	641.6	773.2	839.0	773.2	727.2	793.0	763.4
72.5°	9834.7	7281.4	746.9	562.6	595.5	723.9	796.3	746.9	694.3	717.3	687.7
75°	8067.8	5642.9	592.3	513.3	549.5	677.8	760.1	707.4	654.8	644.9	625.2
77.5°	5715.3	3616.0	477.1	473.8	500.1	621.9	710.7	661.4	608.7	589.0	575.8
80°	3287.0	1773.5	411.3	427.7	454.1	565.9	651.5	608.7	559.4	529.7	510.0
82.5°	1256.9	618.6	361.9	371.8	401.4	506.7	592.3	556.1	506.7	533.0	447.5
85°	408.0	338.9	296.1	306.0	335.6	421.2	523.2	493.5	437.6	388.3	358.6
87.5°	181.0	184.3	157.9	174.4	210.6	279.7	381.7	361.9	319.2	266.5	256.6
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)