

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: P399917

Luminaire Tested: **ARCH-L-PA3-210-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399917
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-PA3-210-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 25010 lumens
Efficiency: N/A
Efficacy: 118.5 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

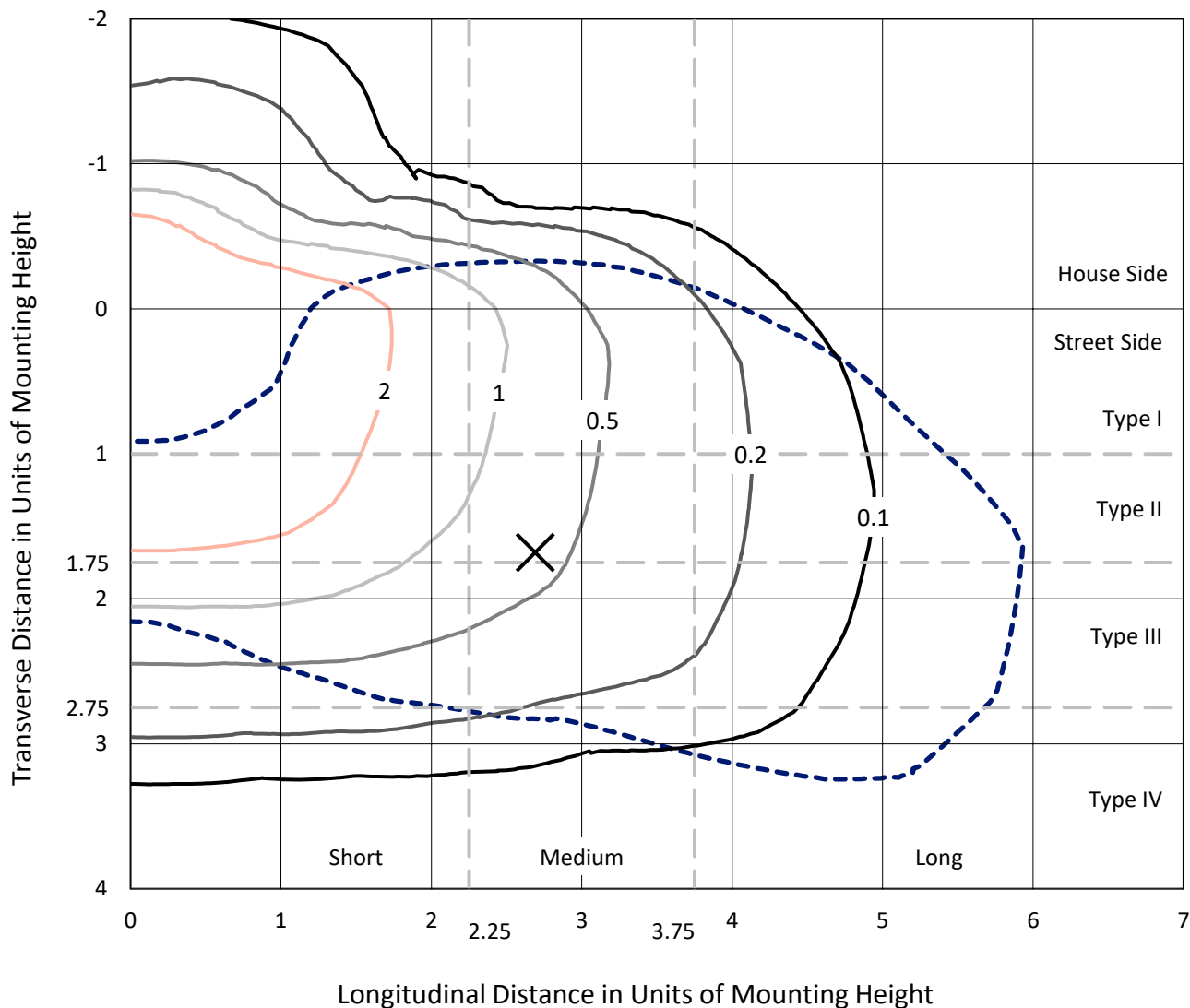
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

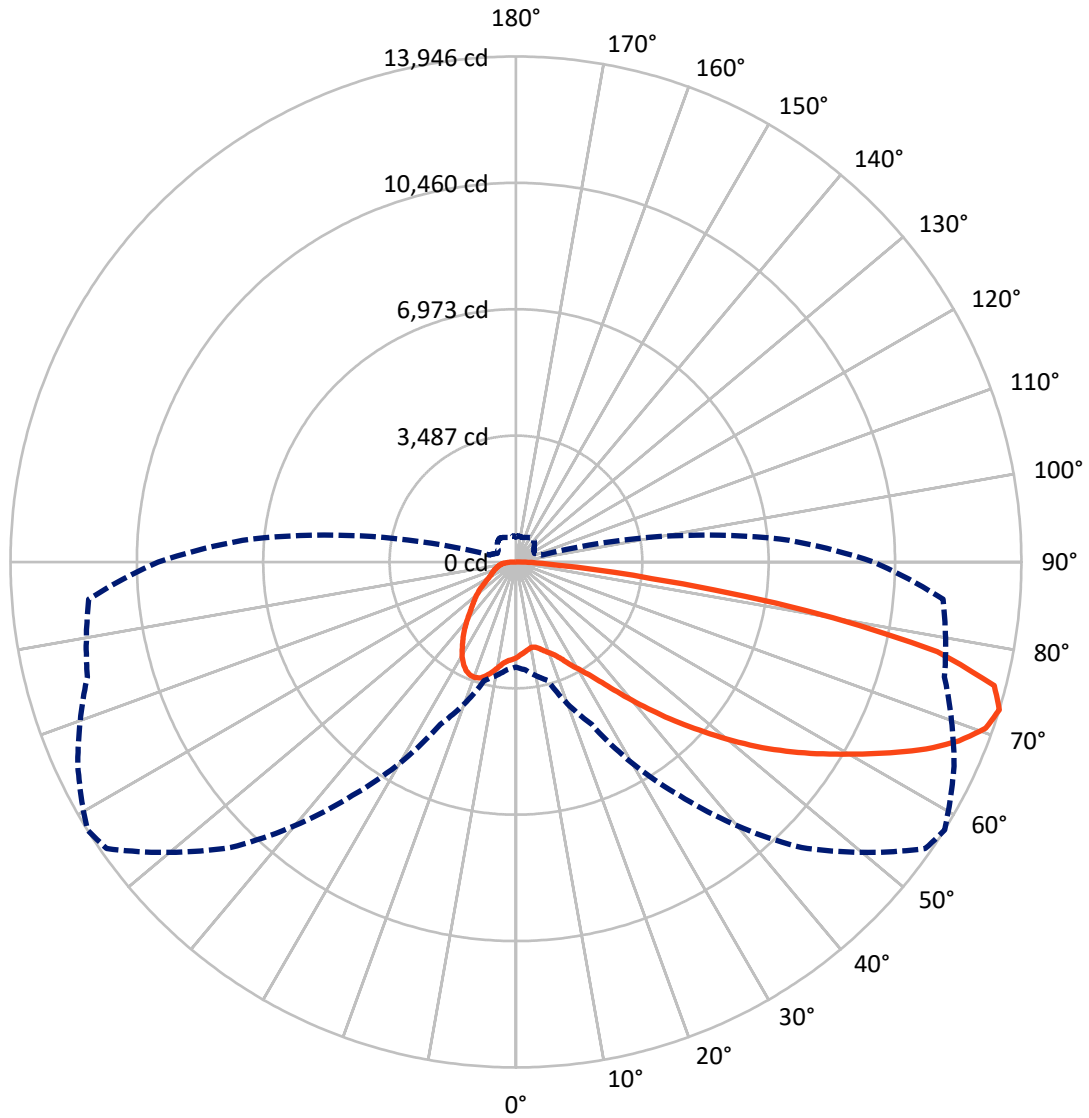
✕ Max cd
 - - - 1/2 Max cd



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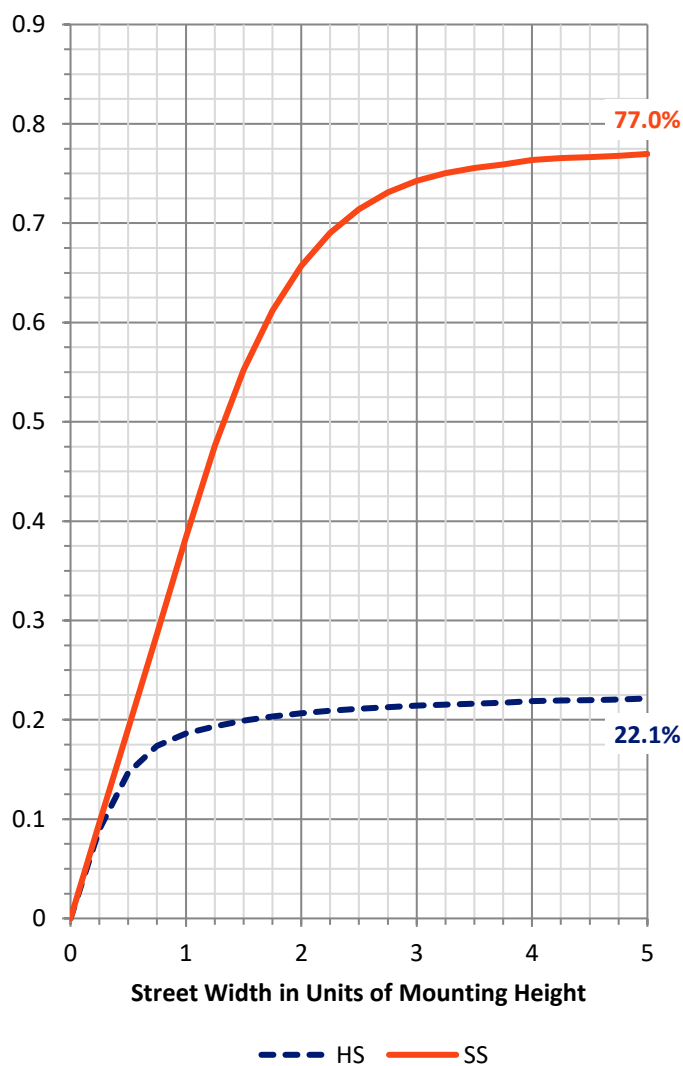
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5672.0	0.0	5672.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19338.0	0.0	19338.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	25010.0	0.0	25010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.0
10°-20°	807.0	3.2
20°-30°	1445.7	5.8
30°-40°	2174.7	8.7
40°-50°	3521.6	14.1
50°-60°	5301.1	21.2
60°-70°	6238.9	24.9
70°-80°	4423.9	17.7
80°-90°	843.0	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°	25010.0	100.0
0°-180°	25010.0	100.0

Coefficient of Utilization



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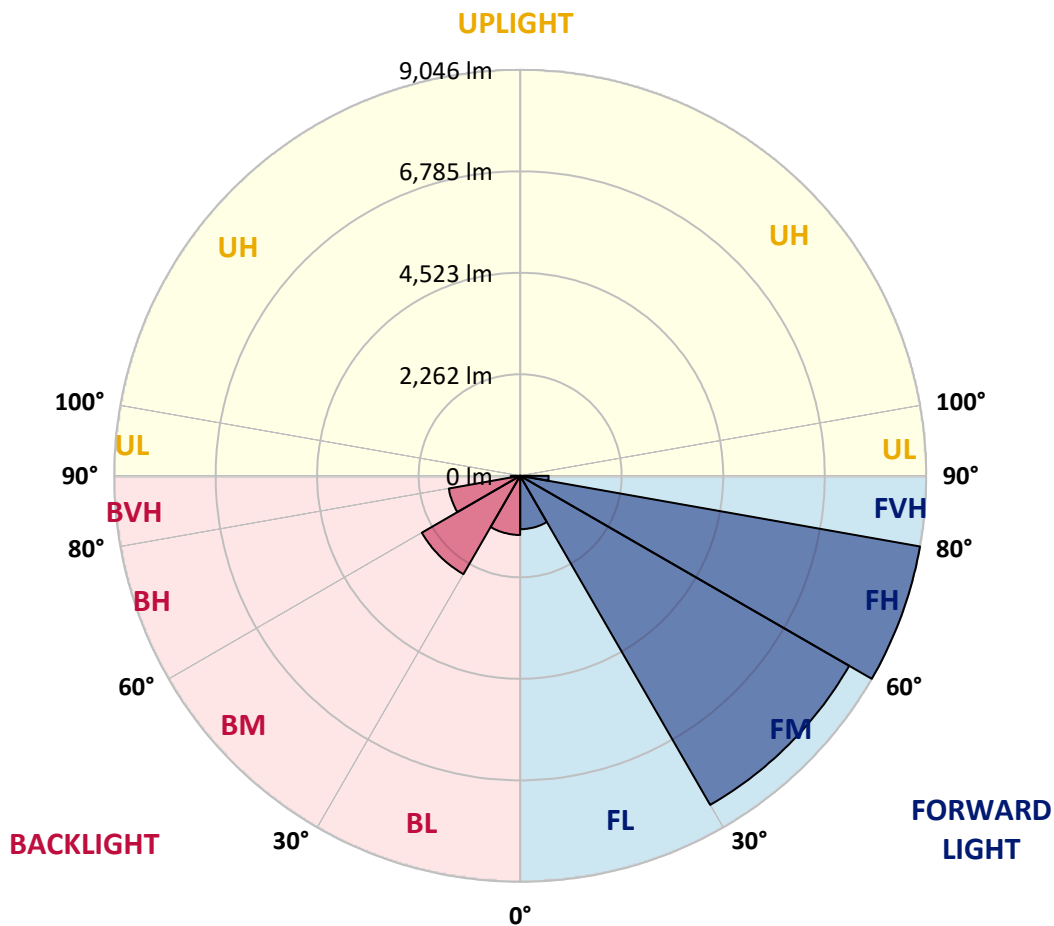
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1189.3	4.8			
FM (30°-60°)	8466.6	33.9			
FH (60°-80°)	9046.2	36.2			G4/12000
FVH (80°-90°)	635.9	2.5			G4/750
BL (0°-30°)	1317.5	5.3	B3/2500		
BM (30°-60°)	2530.8	10.1	B3/5000		
BH (60°-80°)	1616.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	207.1	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°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2539.0	2525.8	2529.1	2529.1	2542.3	2548.9	2552.2	2562.1	2568.7	2585.2	2608.3
5°	2420.1	2410.2	2413.5	2416.8	2439.9	2463.0	2482.8	2496.1	2515.9	2542.3	2575.3
7.5°	2334.3	2327.7	2331.0	2337.6	2357.4	2383.8	2416.8	2436.6	2466.3	2515.9	2572.0
10°	2271.5	2271.5	2274.8	2288.0	2307.9	2340.9	2367.3	2390.4	2449.8	2539.0	2624.8
12.5°	2222.0	2222.0	2231.9	2258.3	2291.3	2324.4	2387.1	2413.5	2492.8	2614.9	2717.3
15°	2218.7	2222.0	2225.3	2248.4	2284.7	2357.4	2449.8	2489.4	2585.2	2730.5	2849.3
17.5°	2271.5	2274.8	2261.6	2268.2	2311.2	2413.5	2535.7	2581.9	2704.1	2862.5	2984.7
20°	2433.3	2433.3	2393.7	2357.4	2387.1	2499.4	2638.0	2684.2	2819.6	2994.6	3116.8
22.5°	2763.5	2780.0	2687.5	2608.3	2562.1	2624.8	2750.3	2799.8	2951.7	3139.9	3262.0
25°	3163.0	3179.5	3054.0	2941.8	2855.9	2846.0	2928.6	2981.4	3106.9	3301.7	3404.0
27.5°	3549.3	3519.6	3404.0	3298.4	3189.4	3100.3	3163.0	3209.2	3354.5	3503.1	3565.8
30°	3853.0	3829.9	3717.7	3641.7	3539.4	3423.8	3387.5	3437.0	3555.9	3694.6	3727.6
32.5°	4189.8	4173.3	4061.0	3962.0	3876.1	3767.2	3687.9	3711.1	3777.1	3876.1	3896.0
35°	4619.0	4655.3	4536.5	4335.1	4239.3	4133.7	4077.5	4084.1	4133.7	4196.4	4163.4
37.5°	5071.3	5114.3	5120.9	4803.9	4675.1	4579.4	4520.0	4543.1	4602.5	4645.4	4543.1
40°	5910.0	5867.0	5695.4	5460.9	5262.8	5170.4	5087.9	5084.6	5127.5	5203.4	5018.5
42.5°	7022.6	6983.0	6636.3	6332.6	6018.9	5913.3	5751.5	5682.2	5702.0	5797.7	5540.2
45°	8089.1	8072.5	7795.2	7441.9	7065.5	6860.8	6491.1	6322.7	6306.2	6382.1	6075.0
47.5°	9036.6	8964.0	8762.6	8488.6	8448.9	7914.1	7233.9	7006.1	6926.9	6969.8	6626.4
50°	10050.2	9802.6	9525.3	9356.9	9644.1	9145.6	7983.4	7745.7	7550.9	7580.6	7224.0
52.5°	10588.4	10172.4	9990.8	10040.3	10426.6	10235.1	8798.9	8508.4	8194.7	8237.6	7818.3
55°	10126.2	10122.9	10202.1	10509.2	11047.3	10826.1	9574.8	9247.9	8904.6	8914.5	8501.8
57.5°	9492.3	9621.0	10030.4	10707.3	11816.6	11446.8	10337.5	9990.8	9677.2	9627.6	9277.7
60°	8914.5	9056.4	9650.7	10674.3	12084.1	12014.7	11063.8	10760.1	10505.9	10360.6	10093.2
62.5°	8036.2	8141.9	8983.8	10462.9	11859.5	12424.1	11800.1	11592.1	11400.6	11100.2	10971.4
65°	7002.8	7039.1	7927.3	9766.3	11578.9	12582.6	12533.1	12440.6	12255.7	11813.3	11839.7
67.5°	5883.6	5956.2	6735.4	8653.6	10964.8	12510.0	13101.0	13176.9	12959.0	12295.4	12394.4
70°	4691.7	4780.8	5371.8	7115.1	9921.5	12196.3	13625.9	13748.1	13328.8	12453.8	12496.8
72.5°	2902.2	2988.0	3384.2	4942.6	7864.5	11143.1	13787.7	13946.2	13338.7	12242.5	11829.8
75°	1003.7	1013.6	1324.0	2370.6	4668.5	8412.6	13259.5	13632.5	12919.4	11473.3	10294.6
77.5°	458.9	475.4	587.7	977.3	2070.1	4539.8	10948.3	11882.7	11644.9	10271.5	7924.0
80°	317.0	323.6	406.1	584.4	1195.2	1598.0	6910.4	8128.7	8544.7	7953.7	5077.9
82.5°	237.7	244.3	313.7	396.2	861.7	775.9	2631.4	3777.1	4695.0	4609.1	2123.0
85°	227.8	224.5	244.3	264.1	574.5	462.2	851.8	1168.8	1832.4	1568.3	534.9
87.5°	99.0	109.0	250.9	148.6	300.5	214.6	369.8	432.5	558.0	485.3	191.5
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°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2618.2	2624.8	2644.6	2674.3	2690.8	2723.9	2747.0	2760.2	2770.1	2773.4	2773.4
5°	2595.1	2608.3	2651.2	2700.8	2747.0	2816.3	2879.0	2915.4	2941.8	2951.7	2955.0
7.5°	2601.7	2634.7	2697.5	2770.1	2829.5	2918.7	2994.6	3067.2	3126.7	3149.8	3149.8
10°	2664.4	2710.7	2796.5	2892.3	2968.2	3060.6	3139.9	3202.6	3271.9	3311.6	3318.2
12.5°	2760.2	2816.3	2928.6	3034.2	3120.1	3192.7	3265.3	3311.6	3344.6	3374.3	3380.9
15°	2895.6	2964.9	3077.1	3186.1	3262.0	3308.3	3328.1	3328.1	3324.8	3328.1	3334.7
17.5°	3030.9	3097.0	3209.2	3318.2	3354.5	3328.1	3305.0	3298.4	3295.1	3288.4	3291.8
20°	3163.0	3225.7	3321.5	3404.0	3374.3	3281.8	3252.1	3248.8	3238.9	3232.3	3225.7
22.5°	3295.1	3341.3	3420.5	3450.2	3331.4	3199.3	3163.0	3143.2	3130.0	3113.5	3097.0
25°	3446.9	3460.1	3519.6	3473.3	3225.7	3047.4	2994.6	2964.9	2951.7	2935.2	2922.0
27.5°	3588.9	3588.9	3598.8	3437.0	3070.5	2846.0	2766.8	2714.0	2710.7	2707.4	2704.1
30°	3717.7	3701.2	3668.1	3328.1	2869.1	2598.4	2479.5	2426.7	2446.5	2463.0	2466.3
32.5°	3869.5	3836.5	3744.1	3179.5	2628.1	2321.1	2175.8	2152.7	2175.8	2195.6	2182.4
35°	4107.3	4047.8	3823.3	3007.8	2397.0	2066.8	1928.2	1895.2	1888.5	1885.2	1858.8
37.5°	4447.3	4345.0	3886.0	2822.9	2169.2	1842.3	1740.0	1670.6	1607.9	1541.9	1532.0
40°	4863.3	4688.4	3929.0	2611.6	1928.2	1654.1	1545.2	1456.0	1350.4	1234.8	1221.6
42.5°	5319.0	5058.1	3948.8	2377.2	1716.9	1499.0	1363.6	1251.3	1132.5	1043.3	1026.8
45°	5810.9	5457.6	3932.3	2152.7	1545.2	1366.9	1215.0	1092.8	997.1	934.4	921.2
47.5°	6289.7	5916.6	3886.0	1974.4	1413.1	1254.6	1099.5	987.2	914.6	845.2	828.7
50°	6903.8	6355.7	3829.9	1835.7	1267.8	1142.4	1026.8	908.0	825.4	792.4	785.8
52.5°	7583.9	6794.8	3763.9	1660.7	1125.9	1053.2	980.6	874.9	848.5	785.8	775.9
55°	8320.2	7316.5	3750.7	1439.5	1000.4	990.5	934.4	904.7	911.3	785.8	769.3
57.5°	9096.1	7874.5	3780.4	1218.3	898.1	934.4	954.2	931.1	921.2	802.3	769.3
60°	9905.0	8412.6	3691.3	1013.6	818.8	888.1	977.3	917.9	845.2	795.7	772.6
62.5°	10690.8	8864.9	3305.0	868.3	759.4	874.9	964.1	868.3	785.8	785.8	775.9
65°	11261.9	9066.3	2585.2	762.7	719.8	858.4	941.0	835.3	769.3	792.4	779.2
67.5°	11328.0	8858.3	1736.7	680.1	686.7	828.7	888.1	805.6	752.8	812.2	792.4
70°	10921.9	8316.9	1063.1	617.4	643.8	775.9	841.9	775.9	729.7	795.7	766.0
72.5°	9868.7	7306.6	749.5	564.6	597.6	726.4	799.0	749.5	696.6	719.8	690.0
75°	8095.7	5662.3	594.3	515.1	551.4	680.1	762.7	709.9	657.0	647.1	627.3
77.5°	5735.0	3628.5	478.7	475.4	501.9	624.0	713.2	663.6	610.8	591.0	577.8
80°	3298.4	1779.6	412.7	429.2	455.6	567.9	653.7	610.8	561.3	531.6	511.8
82.5°	1261.2	620.7	363.2	373.1	402.8	508.5	594.3	558.0	508.5	534.9	449.0
85°	409.4	340.1	297.1	307.1	336.8	422.6	525.0	495.2	439.1	389.6	359.9
87.5°	181.6	184.9	158.5	175.0	211.3	280.6	383.0	363.2	320.3	267.4	257.5
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)