

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: P399800

Luminaire Tested: **ARCH-L-PA3-190-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399800
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-PA3-190-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27677 lumens
Efficiency: N/A
Efficacy: 146.4 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

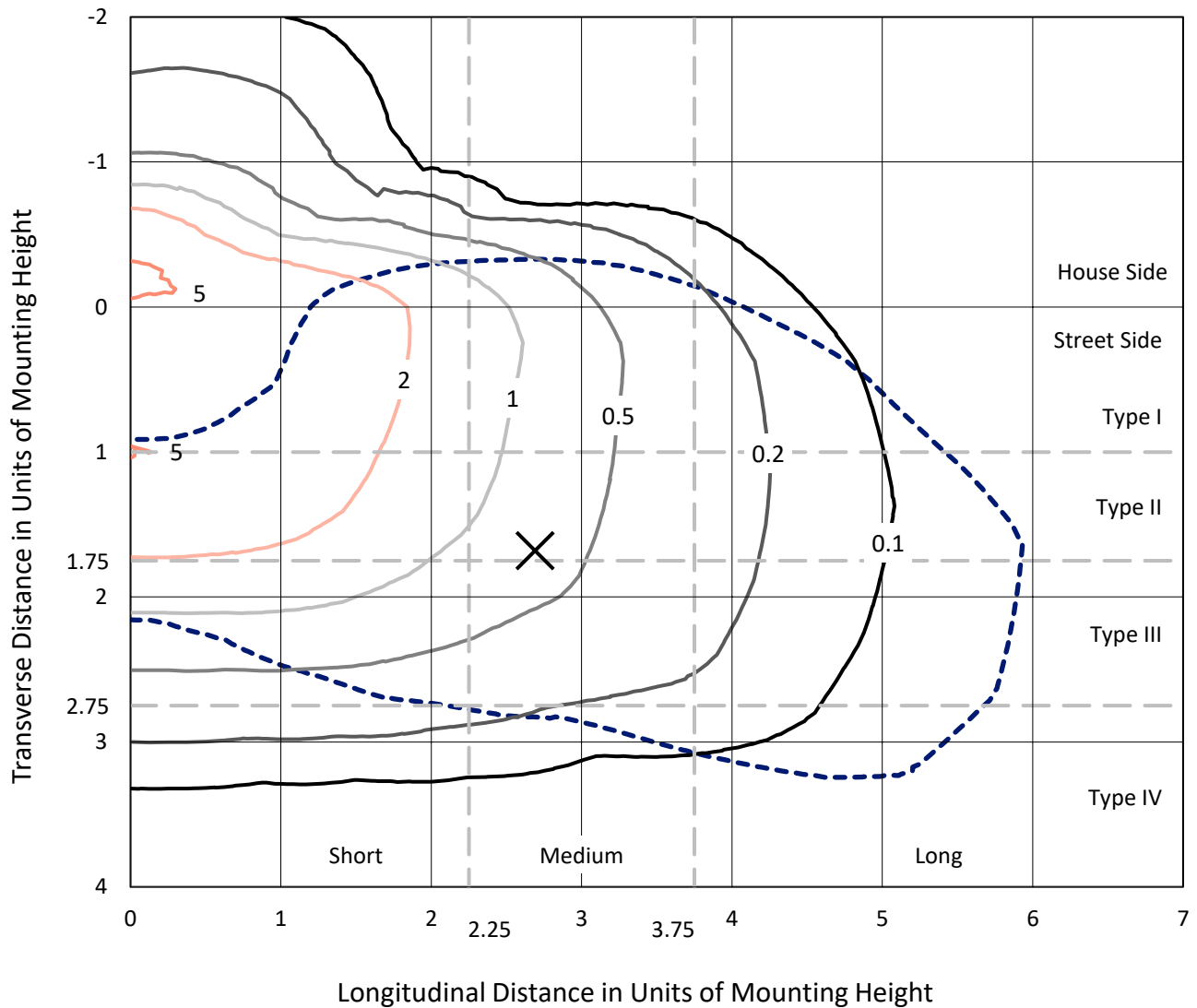
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

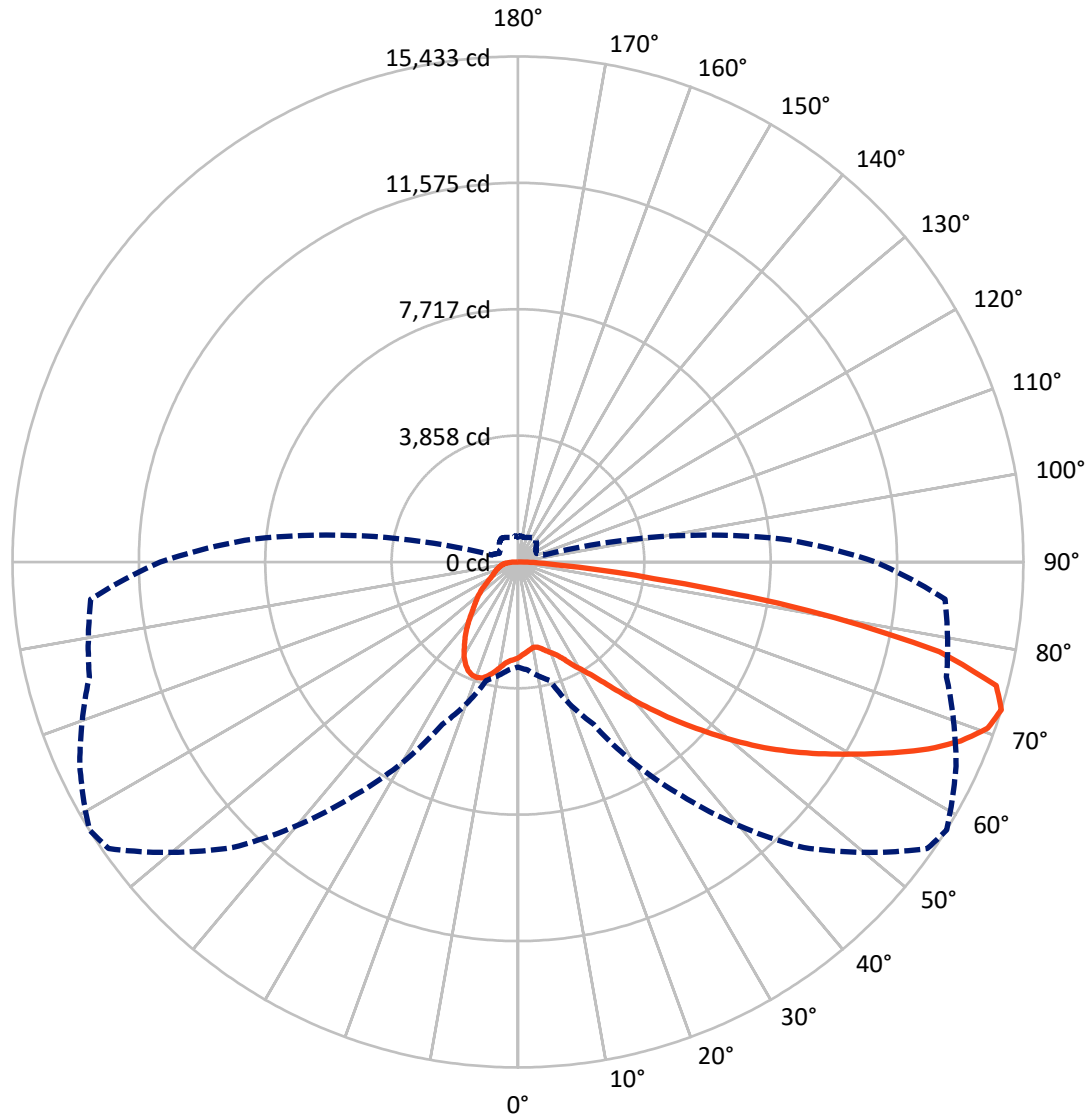
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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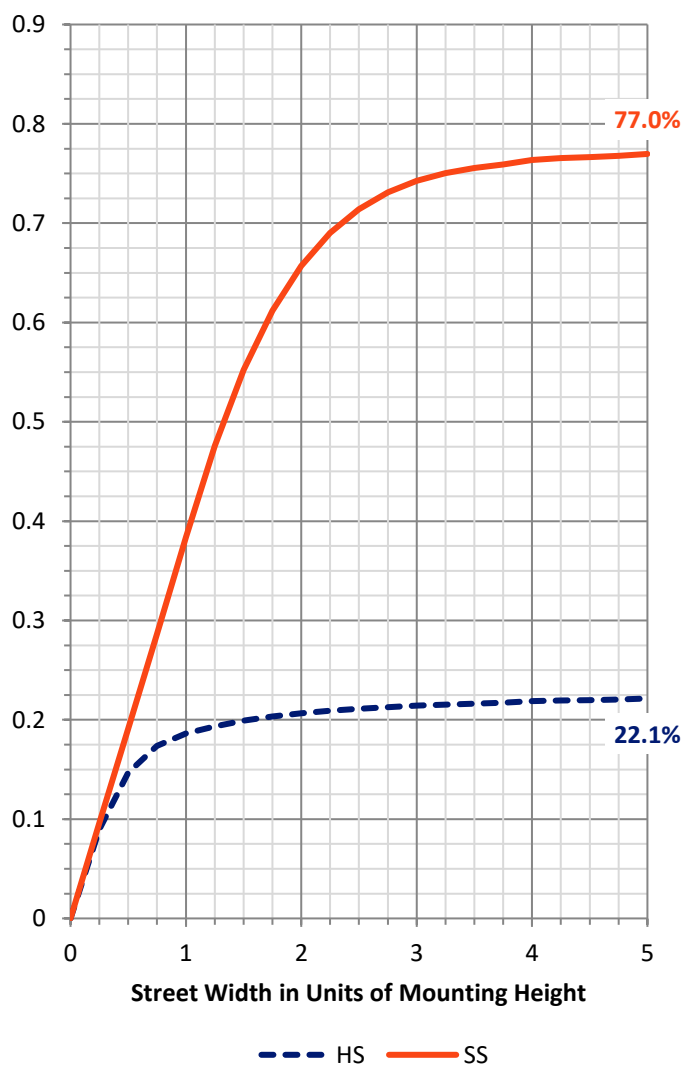
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6276.8	0.0	6276.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21400.2	0.0	21400.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	27677.0	0.0	27677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	1.0
10°-20°	893.1	3.2
20°-30°	1599.8	5.8
30°-40°	2406.6	8.7
40°-50°	3897.1	14.1
50°-60°	5866.4	21.2
60°-70°	6904.2	24.9
70°-80°	4895.7	17.7
80°-90°	932.9	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°	27677.0	100.0
0°-180°	27677.0	100.0

Coefficient of Utilization



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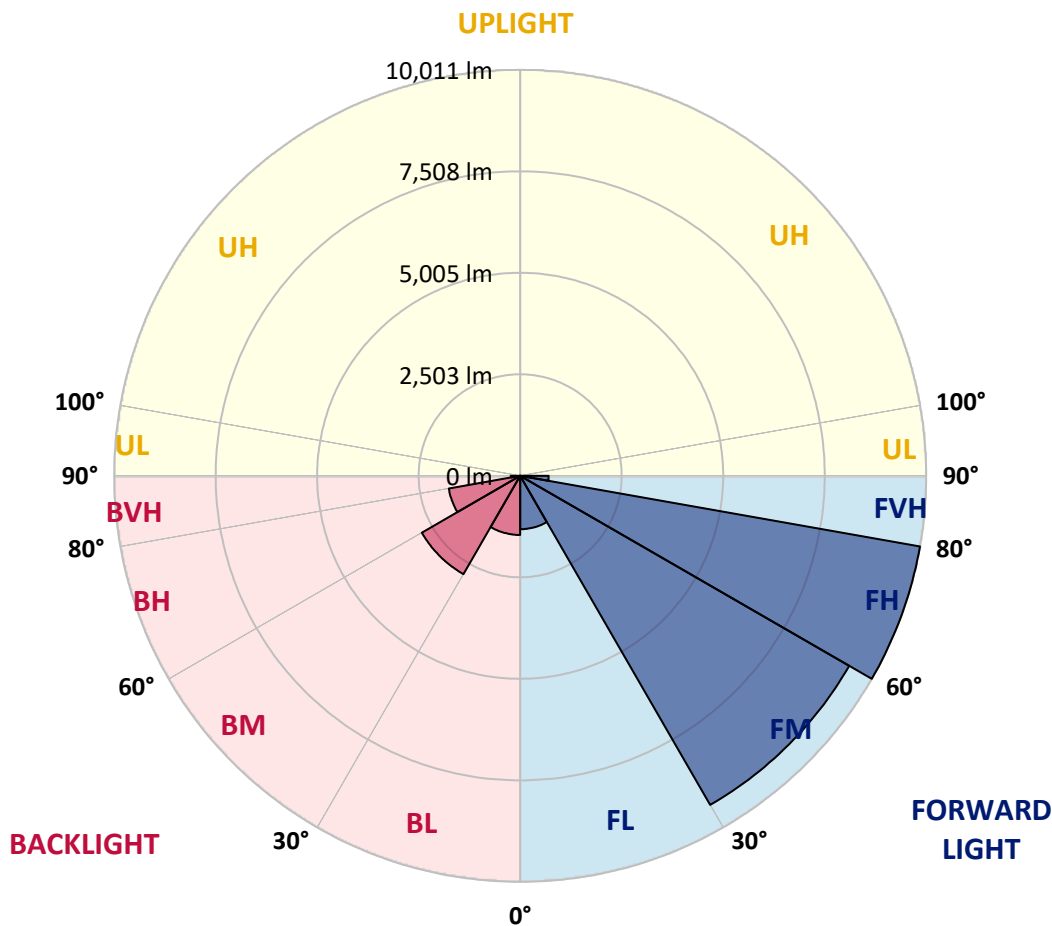
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.2	4.8			
FM (30°-60°)	9369.5	33.9			
FH (60°-80°)	10010.9	36.2			G4/12000
FVH (80°-90°)	703.7	2.5			G4/750
BL (0°-30°)	1458.0	5.3	B3/2500		
BM (30°-60°)	2800.7	10.1	B3/5000		
BH (60°-80°)	1789.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	229.2	0.8			G3/500
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°	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3
2.5°	2809.7	2795.1	2798.8	2798.8	2813.4	2820.7	2824.3	2835.3	2842.6	2860.9	2886.5
5°	2678.2	2667.2	2670.9	2674.5	2700.1	2725.7	2747.6	2762.2	2784.1	2813.4	2849.9
7.5°	2583.2	2575.9	2579.5	2586.8	2608.8	2638.0	2674.5	2696.5	2729.3	2784.1	2846.3
10°	2513.8	2513.8	2517.4	2532.0	2554.0	2590.5	2619.7	2645.3	2711.1	2809.7	2904.7
12.5°	2459.0	2459.0	2469.9	2499.2	2535.7	2572.2	2641.7	2670.9	2758.6	2893.8	3007.0
15°	2455.3	2459.0	2462.6	2488.2	2528.4	2608.8	2711.1	2754.9	2860.9	3021.6	3153.2
17.5°	2513.8	2517.4	2502.8	2510.1	2557.6	2670.9	2806.1	2857.2	2992.4	3167.8	3303.0
20°	2692.8	2692.8	2649.0	2608.8	2641.7	2765.9	2919.3	2970.5	3120.3	3313.9	3449.1
22.5°	3058.2	3076.4	2974.1	2886.5	2835.3	2904.7	3043.6	3098.4	3266.4	3474.7	3609.9
25°	3500.3	3518.5	3379.7	3255.5	3160.5	3149.5	3240.9	3299.3	3438.2	3653.7	3767.0
27.5°	3927.8	3894.9	3767.0	3650.1	3529.5	3430.9	3500.3	3551.4	3712.2	3876.6	3946.0
30°	4263.9	4238.3	4114.1	4030.1	3916.8	3788.9	3748.7	3803.5	3935.1	4088.5	4125.1
32.5°	4636.6	4618.3	4494.1	4384.5	4289.5	4168.9	4081.2	4106.8	4179.9	4289.5	4311.4
35°	5111.6	5151.8	5020.2	4797.4	4691.4	4574.5	4512.4	4519.7	4574.5	4643.9	4607.4
37.5°	5612.1	5659.6	5666.9	5316.2	5173.7	5067.7	5002.0	5027.5	5093.3	5140.8	5027.5
40°	6540.2	6492.7	6302.7	6043.3	5824.1	5721.8	5630.4	5626.8	5674.3	5758.3	5553.7
42.5°	7771.5	7727.7	7344.0	7007.9	6660.8	6543.8	6364.8	6288.1	6310.0	6416.0	6131.0
45°	8951.7	8933.4	8626.5	8235.5	7819.0	7592.5	7183.2	6996.9	6978.6	7062.7	6722.9
47.5°	10000.3	9919.9	9697.0	9393.8	9349.9	8758.0	8005.3	7753.2	7665.5	7713.0	7333.0
50°	11122.0	10847.9	10541.0	10354.7	10672.6	10120.8	8834.7	8571.7	8356.1	8389.0	7994.4
52.5°	11717.5	11257.2	11056.2	11111.0	11538.5	11326.6	9737.2	9415.7	9068.6	9116.1	8652.0
55°	11206.0	11202.4	11290.0	11629.8	12225.4	11980.6	10595.8	10234.1	9854.1	9865.1	9408.4
57.5°	10504.5	10647.0	11100.1	11849.1	13076.7	12667.5	11439.8	11056.2	10709.1	10654.3	10267.0
60°	9865.1	10022.2	10679.9	11812.5	13372.7	13295.9	12243.7	11907.5	11626.2	11465.4	11169.5
62.5°	8893.2	9010.1	9941.8	11578.7	13124.2	13749.0	13058.5	12828.3	12616.4	12283.9	12141.4
65°	7749.6	7789.8	8772.6	10807.8	12813.7	13924.4	13869.6	13767.3	13562.7	13073.1	13102.3
67.5°	6511.0	6591.3	7453.6	9576.4	12134.1	13844.0	14498.0	14582.1	14340.9	13606.5	13716.1
70°	5192.0	5290.6	5944.6	7873.8	10979.5	13496.9	15079.0	15214.2	14750.1	13781.9	13829.4
72.5°	3211.6	3306.6	3745.1	5469.6	8703.2	12331.4	15258.0	15433.4	14761.1	13548.1	13091.3
75°	1110.7	1121.7	1465.1	2623.4	5166.4	9309.7	14673.4	15086.3	14297.1	12696.7	11392.3
77.5°	507.9	526.1	650.4	1081.5	2290.9	5023.9	12115.8	13149.8	12886.7	11366.8	8769.0
80°	350.8	358.1	449.4	646.7	1322.7	1768.4	7647.3	8995.5	9455.9	8801.9	5619.4
82.5°	263.1	270.4	347.1	438.4	953.6	858.6	2912.0	4179.9	5195.6	5100.6	2349.4
85°	252.1	248.5	270.4	292.3	635.8	511.5	942.7	1293.4	2027.8	1735.5	591.9
87.5°	109.6	120.6	277.7	164.4	332.5	237.5	409.2	478.6	617.5	537.1	211.9
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°	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3	2919.3
2.5°	2897.4	2904.7	2926.6	2959.5	2977.8	3014.3	3039.9	3054.5	3065.5	3069.1	3069.1
5°	2871.8	2886.5	2934.0	2988.8	3039.9	3116.6	3186.1	3226.2	3255.5	3266.4	3270.1
7.5°	2879.1	2915.7	2985.1	3065.5	3131.3	3229.9	3313.9	3394.3	3460.1	3485.7	3485.7
10°	2948.6	2999.7	3094.7	3200.7	3284.7	3387.0	3474.7	3544.1	3620.9	3664.7	3672.0
12.5°	3054.5	3116.6	3240.9	3357.8	3452.8	3533.2	3613.5	3664.7	3701.2	3734.1	3741.4
15°	3204.3	3281.1	3405.3	3525.9	3609.9	3661.0	3683.0	3683.0	3679.3	3683.0	3690.3
17.5°	3354.1	3427.2	3551.4	3672.0	3712.2	3683.0	3657.4	3650.1	3646.4	3639.1	3642.8
20°	3500.3	3569.7	3675.7	3767.0	3734.1	3631.8	3598.9	3595.3	3584.3	3577.0	3569.7
22.5°	3646.4	3697.6	3785.3	3818.2	3686.6	3540.5	3500.3	3478.4	3463.7	3445.5	3427.2
25°	3814.5	3829.1	3894.9	3843.7	3569.7	3372.4	3313.9	3281.1	3266.4	3248.2	3233.6
27.5°	3971.6	3971.6	3982.6	3803.5	3398.0	3149.5	3061.8	3003.4	2999.7	2996.1	2992.4
30°	4114.1	4095.8	4059.3	3683.0	3175.1	2875.5	2744.0	2685.5	2707.4	2725.7	2729.3
32.5°	4282.2	4245.6	4143.3	3518.5	2908.4	2568.6	2407.8	2382.2	2407.8	2429.7	2415.1
35°	4545.2	4479.5	4231.0	3328.6	2652.6	2287.2	2133.8	2097.2	2089.9	2086.3	2057.1
37.5°	4921.6	4808.3	4300.4	3123.9	2400.5	2038.8	1925.5	1848.8	1779.4	1706.3	1695.3
40°	5382.0	5188.3	4347.9	2890.1	2133.8	1830.5	1709.9	1611.3	1494.4	1366.5	1351.9
42.5°	5886.2	5597.5	4369.9	2630.7	1899.9	1658.8	1509.0	1384.8	1253.2	1154.6	1136.3
45°	6430.6	6039.6	4351.6	2382.2	1709.9	1512.6	1344.6	1209.4	1103.4	1034.0	1019.4
47.5°	6960.4	6547.5	4300.4	2184.9	1563.8	1388.4	1216.7	1092.5	1012.1	935.4	917.1
50°	7640.0	7033.4	4238.3	2031.5	1403.0	1264.2	1136.3	1004.8	913.4	876.9	869.6
52.5°	8392.6	7519.4	4165.3	1837.8	1245.9	1165.5	1085.2	968.2	939.0	869.6	858.6
55°	9207.4	8096.7	4150.6	1593.0	1107.1	1096.1	1034.0	1001.1	1008.4	869.6	851.3
57.5°	10066.0	8714.2	4183.5	1348.2	993.8	1034.0	1055.9	1030.4	1019.4	887.9	851.3
60°	10961.2	9309.7	4084.9	1121.7	906.1	982.9	1081.5	1015.7	935.4	880.6	855.0
62.5°	11830.8	9810.3	3657.4	960.9	840.4	968.2	1066.9	960.9	869.6	869.6	858.6
65°	12462.9	10033.2	2860.9	844.0	796.5	950.0	1041.3	924.4	851.3	876.9	862.3
67.5°	12536.0	9803.0	1921.9	752.7	760.0	917.1	982.9	891.5	833.1	898.8	876.9
70°	12086.6	9203.8	1176.5	683.2	712.5	858.6	931.7	858.6	807.5	880.6	847.7
72.5°	10921.0	8085.7	829.4	624.8	661.3	803.8	884.2	829.4	770.9	796.5	763.6
75°	8959.0	6266.2	657.7	570.0	610.2	752.7	844.0	785.6	727.1	716.1	694.2
77.5°	6346.5	4015.5	529.8	526.1	555.4	690.6	789.2	734.4	675.9	654.0	639.4
80°	3650.1	1969.4	456.7	475.0	504.2	628.4	723.4	675.9	621.1	588.3	566.3
82.5°	1395.7	686.9	401.9	412.9	445.8	562.7	657.7	617.5	562.7	591.9	496.9
85°	453.1	376.3	328.8	339.8	372.7	467.7	580.9	548.1	485.9	431.1	398.3
87.5°	201.0	204.6	175.4	193.6	233.8	310.6	423.8	401.9	354.4	296.0	285.0
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)