

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: P399791

Luminaire Tested: **ARCH-L-PA3-190-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399791
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-PA3-190-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27678 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

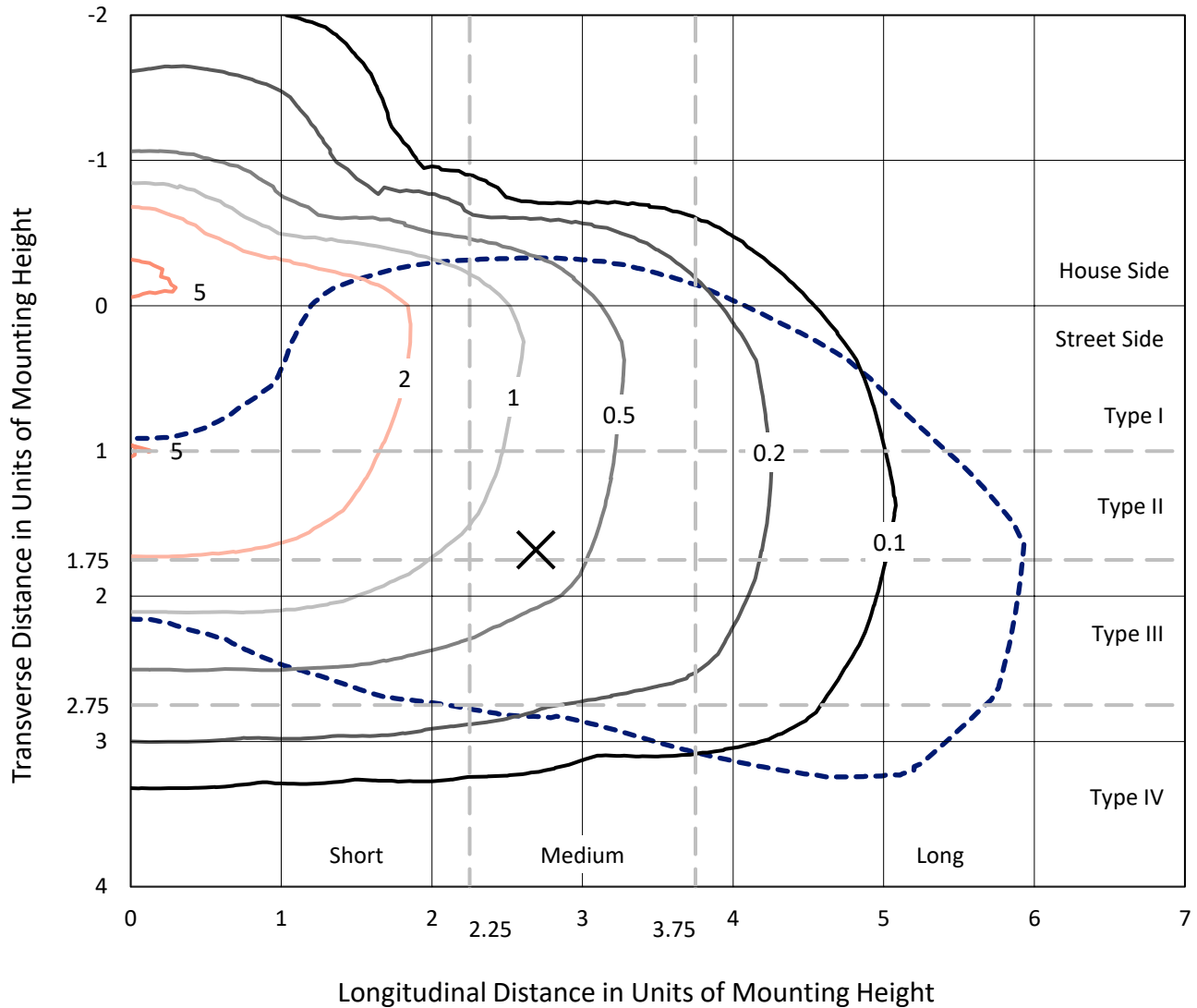
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

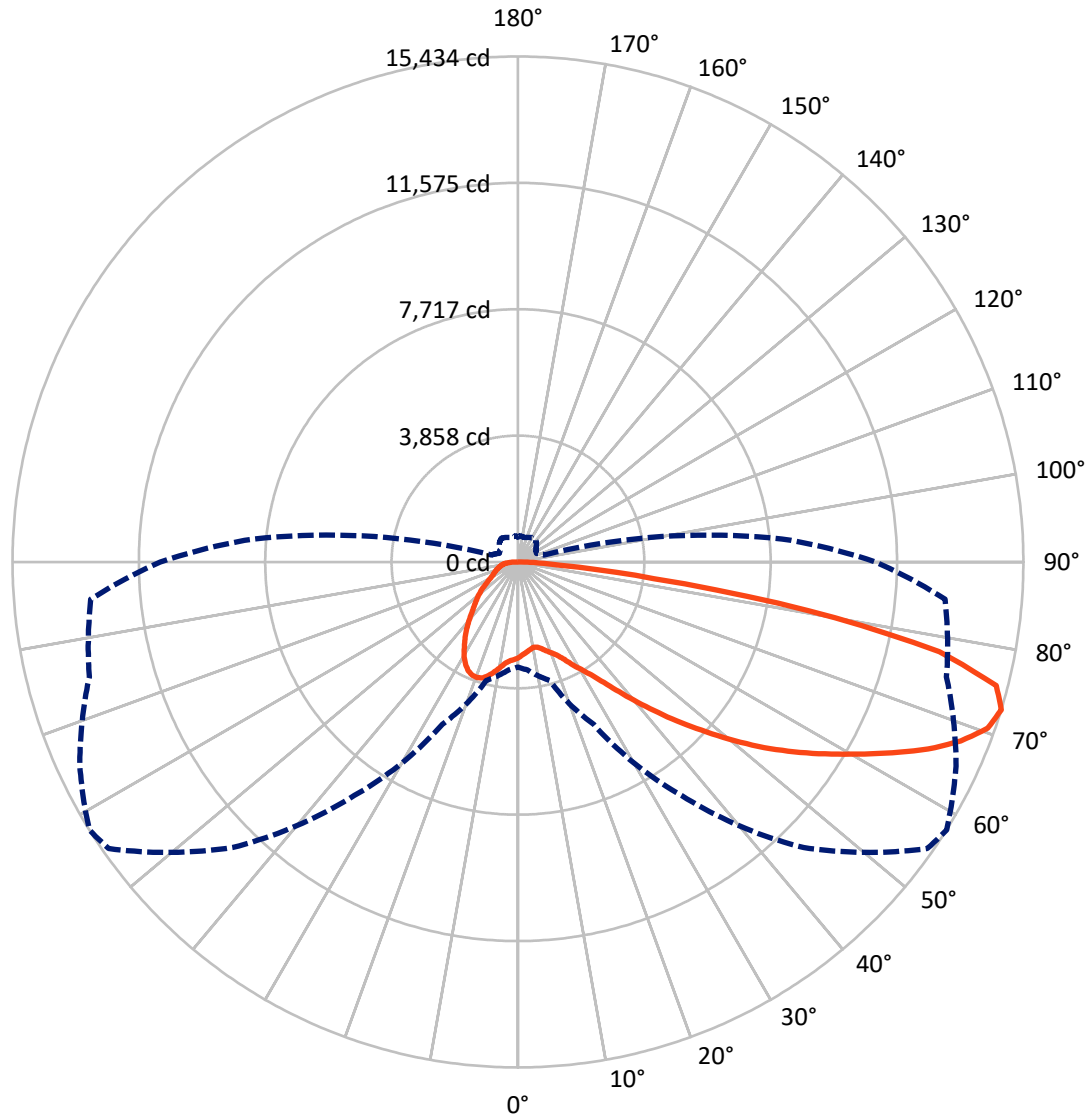
✕ Max cd
 - - - 1/2 Max cd



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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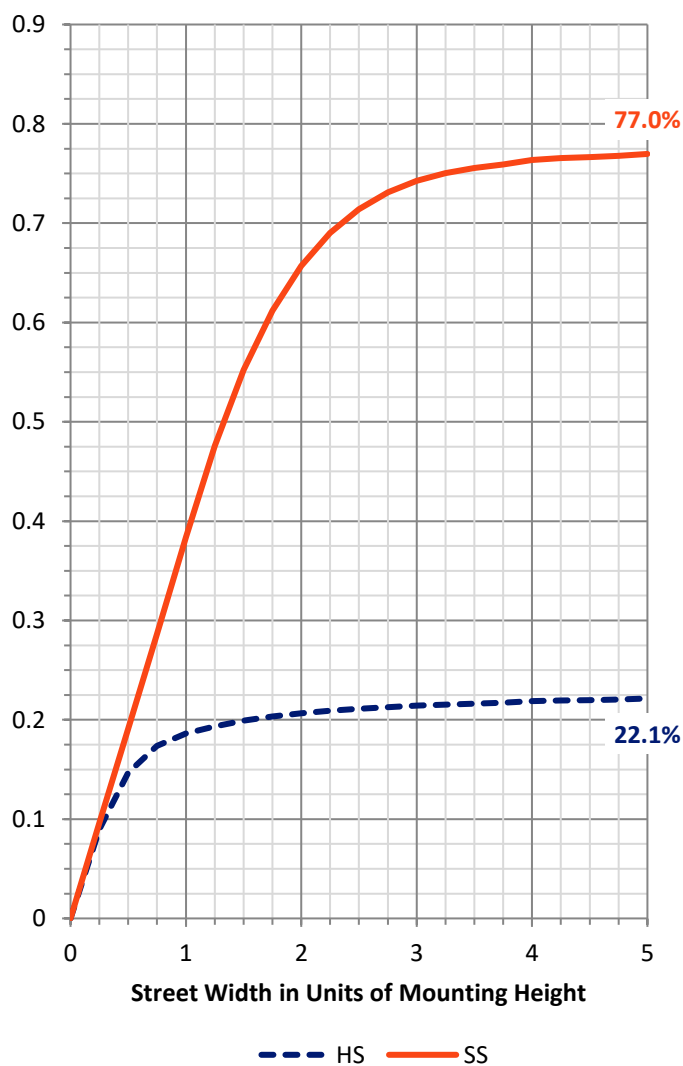
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6277.1	0.0	6277.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21400.9	0.0	21400.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	27678.0	0.0	27678.0
	% 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°	1599.9	5.8
30°-40°	2406.7	8.7
40°-50°	3897.3	14.1
50°-60°	5866.6	21.2
60°-70°	6904.4	24.9
70°-80°	4895.9	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°	27678.0	100.0
0°-180°	27678.0	100.0

Coefficient of Utilization



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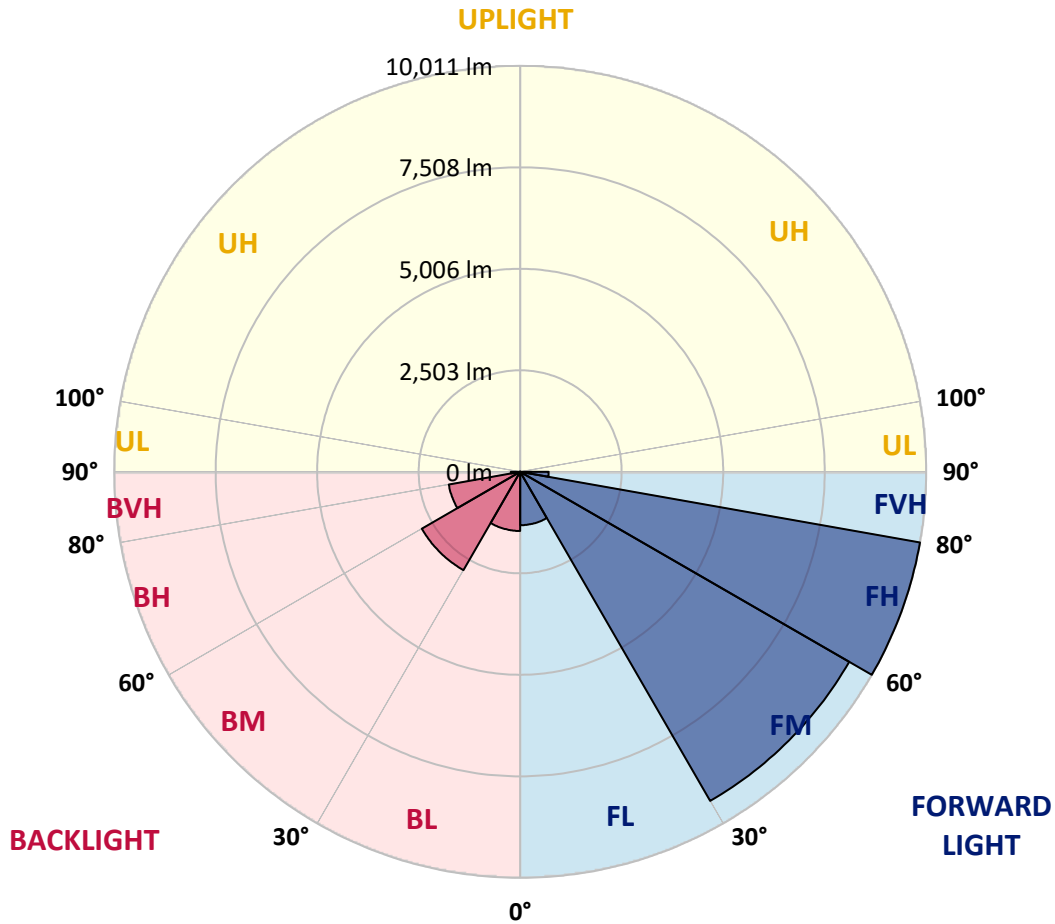
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.2	4.8			
FM (30°-60°)	9369.8	33.9			
FH (60°-80°)	10011.2	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°)	2800.8	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°	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4
2.5°	2809.8	2795.2	2798.9	2798.9	2813.5	2820.8	2824.4	2835.4	2842.7	2861.0	2886.6
5°	2678.3	2667.3	2671.0	2674.6	2700.2	2725.8	2747.7	2762.3	2784.2	2813.5	2850.0
7.5°	2583.3	2576.0	2579.6	2586.9	2608.9	2638.1	2674.6	2696.6	2729.4	2784.2	2846.4
10°	2513.9	2513.9	2517.5	2532.1	2554.1	2590.6	2619.8	2645.4	2711.2	2809.8	2904.8
12.5°	2459.1	2459.1	2470.0	2499.2	2535.8	2572.3	2641.7	2671.0	2758.7	2893.9	3007.1
15°	2455.4	2459.1	2462.7	2488.3	2528.5	2608.9	2711.2	2755.0	2861.0	3021.7	3153.3
17.5°	2513.9	2517.5	2502.9	2510.2	2557.7	2671.0	2806.2	2857.3	2992.5	3167.9	3303.1
20°	2692.9	2692.9	2649.1	2608.9	2641.7	2766.0	2919.4	2970.6	3120.4	3314.1	3449.3
22.5°	3058.3	3076.6	2974.2	2886.6	2835.4	2904.8	3043.7	3098.5	3266.6	3474.8	3610.0
25°	3500.4	3518.7	3379.8	3255.6	3160.6	3149.6	3241.0	3299.4	3438.3	3653.9	3767.1
27.5°	3927.9	3895.0	3767.1	3650.2	3529.6	3431.0	3500.4	3551.6	3712.3	3876.8	3946.2
30°	4264.1	4238.5	4114.3	4030.2	3916.9	3789.1	3748.9	3803.7	3935.2	4088.7	4125.2
32.5°	4636.8	4618.5	4494.3	4384.6	4289.6	4169.1	4081.4	4106.9	4180.0	4289.6	4311.6
35°	5111.8	5152.0	5020.4	4797.5	4691.6	4574.6	4512.5	4519.8	4574.6	4644.1	4607.5
37.5°	5612.3	5659.8	5667.1	5316.4	5173.9	5067.9	5002.1	5027.7	5093.5	5141.0	5027.7
40°	6540.4	6492.9	6302.9	6043.5	5824.3	5722.0	5630.6	5627.0	5674.5	5758.5	5553.9
42.5°	7771.8	7727.9	7344.3	7008.1	6661.0	6544.1	6365.0	6288.3	6310.2	6416.2	6131.2
45°	8952.0	8933.7	8626.8	8235.8	7819.3	7592.7	7183.5	6997.2	6978.9	7062.9	6723.1
47.5°	10000.6	9920.3	9697.4	9394.1	9350.2	8758.3	8005.6	7753.5	7665.8	7713.3	7333.3
50°	11122.4	10848.3	10541.4	10355.1	10672.9	10121.2	8835.1	8572.0	8356.4	8389.3	7994.7
52.5°	11718.0	11257.6	11056.6	11111.4	11538.9	11327.0	9737.6	9416.0	9068.9	9116.4	8652.4
55°	11206.4	11202.8	11290.5	11630.3	12225.8	11981.0	10596.2	10234.5	9854.5	9865.4	9408.7
57.5°	10504.9	10647.4	11100.5	11849.5	13077.2	12668.0	11440.3	11056.6	10709.5	10654.7	10267.4
60°	9865.4	10022.6	10680.3	11813.0	13373.2	13296.4	12244.1	11908.0	11626.6	11465.8	11169.9
62.5°	8893.5	9010.4	9942.2	11579.1	13124.7	13749.5	13058.9	12828.7	12616.8	12284.3	12141.8
65°	7749.9	7790.0	8772.9	10808.1	12814.1	13924.9	13870.1	13767.8	13563.2	13073.5	13102.8
67.5°	6511.2	6591.6	7453.9	9576.8	12134.5	13844.5	14498.5	14582.6	14341.4	13607.0	13716.6
70°	5192.1	5290.8	5944.8	7874.1	10979.9	13497.4	15079.5	15214.7	14750.7	13782.4	13829.9
72.5°	3211.8	3306.8	3745.2	5469.8	8703.5	12331.8	15258.6	15433.9	14761.6	13548.5	13091.8
75°	1110.8	1121.7	1465.2	2623.5	5166.6	9310.1	14673.9	15086.8	14297.6	12697.2	11392.8
77.5°	507.9	526.2	650.4	1081.5	2291.0	5024.1	12116.2	13150.3	12887.2	11367.2	8769.3
80°	350.8	358.1	449.4	646.7	1322.7	1768.5	7647.5	8995.8	9456.2	8802.2	5619.6
82.5°	263.1	270.4	347.1	438.5	953.7	858.7	2912.1	4180.0	5195.8	5100.8	2349.4
85°	252.1	248.5	270.4	292.3	635.8	511.5	942.7	1293.5	2027.9	1735.6	591.9
87.5°	109.6	120.6	277.7	164.4	332.5	237.5	409.2	478.7	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°	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4	2919.4
2.5°	2897.5	2904.8	2926.7	2959.6	2977.9	3014.4	3040.0	3054.6	3065.6	3069.2	3069.2
5°	2871.9	2886.6	2934.1	2988.9	3040.0	3116.7	3186.2	3226.4	3255.6	3266.6	3270.2
7.5°	2879.2	2915.8	2985.2	3065.6	3131.4	3230.0	3314.1	3394.4	3460.2	3485.8	3485.8
10°	2948.7	2999.8	3094.8	3200.8	3284.8	3387.1	3474.8	3544.3	3621.0	3664.8	3672.1
12.5°	3054.6	3116.7	3241.0	3357.9	3452.9	3533.3	3613.7	3664.8	3701.4	3734.3	3741.6
15°	3204.4	3281.2	3405.4	3526.0	3610.0	3661.2	3683.1	3683.1	3679.4	3683.1	3690.4
17.5°	3354.3	3427.3	3551.6	3672.1	3712.3	3683.1	3657.5	3650.2	3646.6	3639.3	3642.9
20°	3500.4	3569.8	3675.8	3767.1	3734.3	3631.9	3599.1	3595.4	3584.4	3577.1	3569.8
22.5°	3646.6	3697.7	3785.4	3818.3	3686.8	3540.6	3500.4	3478.5	3463.9	3445.6	3427.3
25°	3814.6	3829.3	3895.0	3843.9	3569.8	3372.5	3314.1	3281.2	3266.6	3248.3	3233.7
27.5°	3971.8	3971.8	3982.7	3803.7	3398.1	3149.6	3061.9	3003.5	2999.8	2996.2	2992.5
30°	4114.3	4096.0	4059.4	3683.1	3175.2	2875.6	2744.1	2685.6	2707.5	2725.8	2729.4
32.5°	4282.3	4245.8	4143.5	3518.7	2908.5	2568.7	2407.9	2382.3	2407.9	2429.8	2415.2
35°	4545.4	4479.6	4231.2	3328.7	2652.7	2287.3	2133.9	2097.3	2090.0	2086.4	2057.1
37.5°	4921.8	4808.5	4300.6	3124.1	2400.6	2038.9	1925.6	1848.9	1779.4	1706.4	1695.4
40°	5382.1	5188.5	4348.1	2890.2	2133.9	1830.6	1710.0	1611.4	1494.4	1366.5	1351.9
42.5°	5886.4	5597.7	4370.0	2630.8	1900.0	1658.9	1509.0	1384.8	1253.3	1154.6	1136.4
45°	6430.8	6039.8	4351.8	2382.3	1710.0	1512.7	1344.6	1209.4	1103.5	1034.0	1019.4
47.5°	6960.6	6547.7	4300.6	2185.0	1563.9	1388.5	1216.7	1092.5	1012.1	935.4	917.1
50°	7640.2	7033.7	4238.5	2031.6	1403.1	1264.2	1136.4	1004.8	913.5	876.9	869.6
52.5°	8392.9	7519.7	4165.4	1837.9	1246.0	1165.6	1085.2	968.3	939.0	869.6	858.7
55°	9207.7	8097.0	4150.8	1593.1	1107.1	1096.2	1034.0	1001.2	1008.5	869.6	851.4
57.5°	10066.4	8714.5	4183.7	1348.3	993.9	1034.0	1056.0	1030.4	1019.4	887.9	851.4
60°	10961.6	9310.1	4085.0	1121.7	906.2	982.9	1081.5	1015.8	935.4	880.6	855.0
62.5°	11831.2	9810.6	3657.5	961.0	840.4	968.3	1066.9	961.0	869.6	869.6	858.7
65°	12463.3	10033.5	2861.0	844.0	796.5	950.0	1041.4	924.4	851.4	876.9	862.3
67.5°	12536.4	9803.3	1921.9	752.7	760.0	917.1	982.9	891.5	833.1	898.9	876.9
70°	12087.0	9204.1	1176.5	683.3	712.5	858.7	931.7	858.7	807.5	880.6	847.7
72.5°	10921.4	8086.0	829.4	624.8	661.4	803.9	884.2	829.4	771.0	796.5	763.7
75°	8959.3	6266.4	657.7	570.0	610.2	752.7	844.0	785.6	727.1	716.2	694.2
77.5°	6346.8	4015.6	529.8	526.2	555.4	690.6	789.2	734.4	676.0	654.0	639.4
80°	3650.2	1969.4	456.7	475.0	504.2	628.5	723.5	676.0	621.2	588.3	566.3
82.5°	1395.8	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	581.0	548.1	486.0	431.2	398.3
87.5°	201.0	204.6	175.4	193.7	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)