

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: P399719

Luminaire Tested: **ARCH-L-PA3-180-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399719
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-PA3-180-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26745 lumens
Efficiency: N/A
Efficacy: 147.8 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

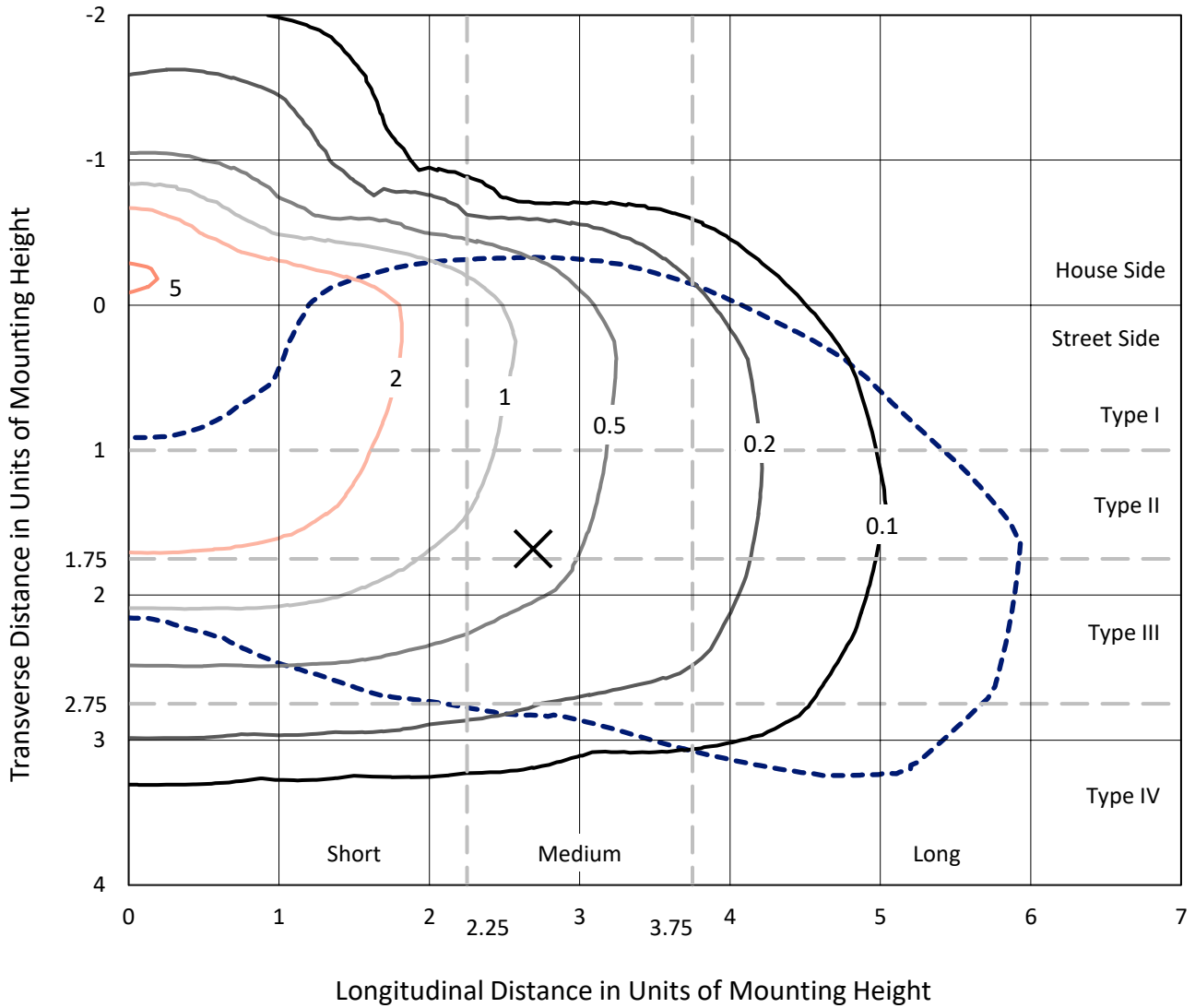
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

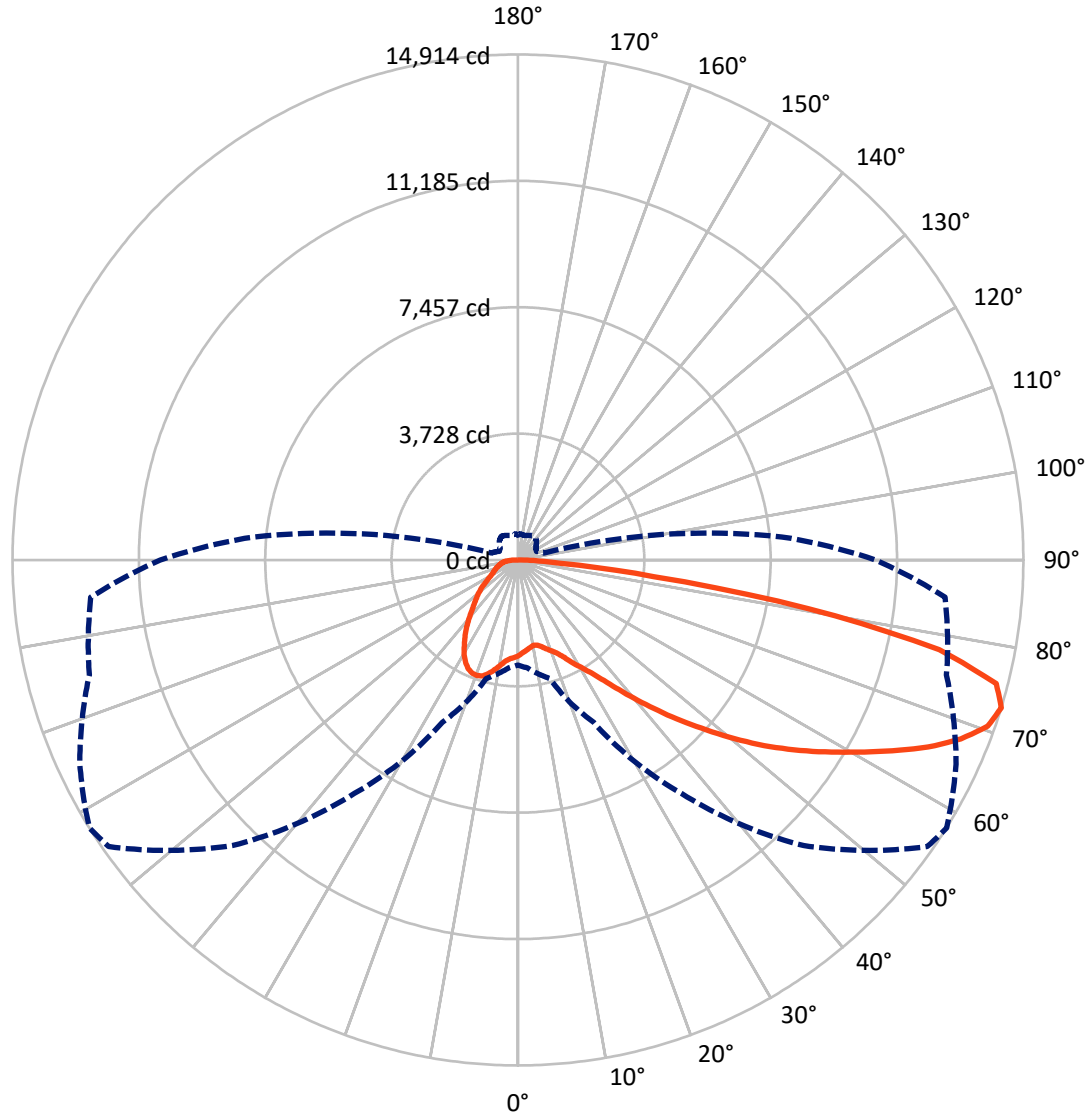
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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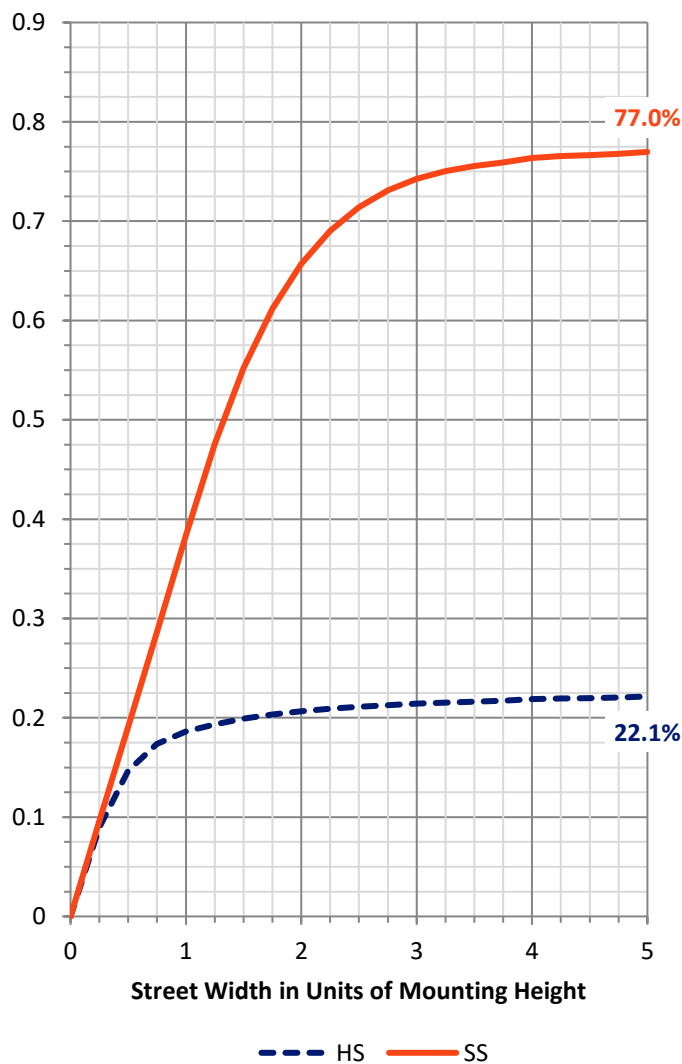
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6065.5	0.0	6065.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20679.5	0.0	20679.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	26745.0	0.0	26745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.8	1.0
10°-20°	863.0	3.2
20°-30°	1546.0	5.8
30°-40°	2325.5	8.7
40°-50°	3765.9	14.1
50°-60°	5668.9	21.2
60°-70°	6671.7	24.9
70°-80°	4730.8	17.7
80°-90°	901.5	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°	26745.0	100.0
0°-180°	26745.0	100.0



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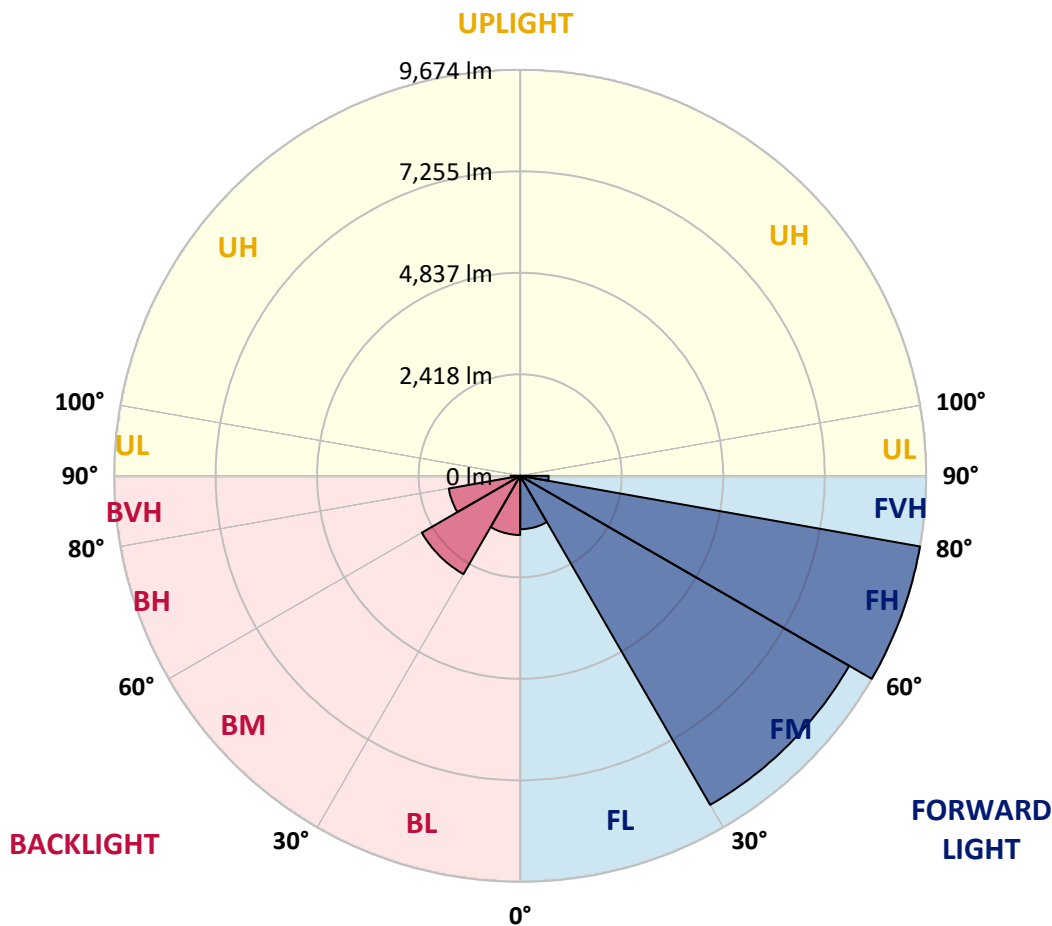
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.8	4.8			
FM (30°-60°)	9054.0	33.9			
FH (60°-80°)	9673.8	36.2			G4/12000
FVH (80°-90°)	680.0	2.5			G4/750
BL (0°-30°)	1408.9	5.3	B3/2500		
BM (30°-60°)	2706.4	10.1	B3/5000		
BH (60°-80°)	1728.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	221.5	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°	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0
2.5°	2715.1	2701.0	2704.5	2704.5	2718.6	2725.7	2729.2	2739.8	2746.9	2764.5	2789.3
5°	2588.0	2577.4	2580.9	2584.5	2609.2	2633.9	2655.1	2669.2	2690.4	2718.6	2753.9
7.5°	2496.2	2489.1	2492.7	2499.7	2520.9	2549.2	2584.5	2605.7	2637.4	2690.4	2750.4
10°	2429.1	2429.1	2432.7	2446.8	2468.0	2503.3	2531.5	2556.2	2619.8	2715.1	2806.9
12.5°	2376.2	2376.2	2386.8	2415.0	2450.3	2485.6	2552.7	2580.9	2665.7	2796.3	2905.8
15°	2372.6	2376.2	2379.7	2404.4	2443.2	2520.9	2619.8	2662.1	2764.5	2919.9	3047.0
17.5°	2429.1	2432.7	2418.5	2425.6	2471.5	2580.9	2711.6	2761.0	2891.6	3061.1	3191.8
20°	2602.1	2602.1	2559.8	2520.9	2552.7	2672.7	2821.0	2870.5	3015.2	3202.3	3333.0
22.5°	2955.2	2972.8	2874.0	2789.3	2739.8	2806.9	2941.1	2994.0	3156.4	3357.7	3488.3
25°	3382.4	3400.1	3265.9	3145.9	3054.1	3043.5	3131.7	3188.2	3322.4	3530.7	3640.2
27.5°	3795.5	3763.7	3640.2	3527.2	3410.7	3315.3	3382.4	3431.8	3587.2	3746.1	3813.2
30°	4120.3	4095.6	3975.6	3894.4	3784.9	3661.3	3622.5	3675.5	3802.6	3950.9	3986.2
32.5°	4480.5	4462.8	4342.8	4236.8	4145.0	4028.5	3943.8	3968.5	4039.1	4145.0	4166.2
35°	4939.4	4978.3	4851.2	4635.8	4533.4	4420.4	4360.4	4367.5	4420.4	4487.5	4452.2
37.5°	5423.2	5469.1	5476.1	5137.2	4999.5	4897.1	4833.5	4858.2	4921.8	4967.7	4858.2
40°	6320.0	6274.1	6090.5	5839.8	5627.9	5529.1	5440.8	5437.3	5483.2	5564.4	5366.7
42.5°	7509.8	7467.4	7096.7	6771.9	6436.5	6323.5	6150.5	6076.3	6097.5	6199.9	5924.5
45°	8650.2	8632.6	8336.0	7958.2	7555.7	7336.8	6941.4	6761.3	6743.6	6824.8	6496.5
47.5°	9663.5	9585.8	9370.5	9077.4	9035.1	8463.1	7735.8	7492.1	7407.4	7453.3	7086.1
50°	10747.4	10482.6	10186.1	10006.0	10313.2	9780.0	8537.2	8283.0	8074.7	8106.5	7725.2
52.5°	11323.0	10878.1	10683.9	10736.9	11149.9	10945.2	9409.3	9098.6	8763.2	8809.1	8360.7
55°	10828.7	10825.1	10909.9	11238.2	11813.7	11577.2	10239.0	9889.5	9522.3	9532.9	9091.6
57.5°	10150.8	10288.5	10726.3	11450.1	12636.4	12240.9	11054.6	10683.9	10348.5	10295.5	9921.3
60°	9532.9	9684.7	10320.2	11414.8	12922.4	12848.2	11831.4	11506.5	11234.7	11079.3	10793.3
62.5°	8593.7	8706.7	9607.0	11188.8	12682.3	13286.0	12618.7	12396.3	12191.5	11870.2	11732.5
65°	7488.6	7527.5	8477.2	10443.8	12382.2	13455.5	13402.5	13303.7	13106.0	12632.8	12661.1
67.5°	6291.7	6369.4	7202.6	9254.0	11725.5	13377.8	14009.8	14091.0	13858.0	13148.3	13254.2
70°	5017.1	5112.5	5744.4	7608.7	10609.8	13042.4	14571.2	14701.8	14253.4	13317.8	13363.7
72.5°	3103.5	3195.3	3619.0	5285.5	8410.1	11916.1	14744.2	14913.7	14264.0	13091.8	12650.5
75°	1073.3	1083.9	1415.8	2535.0	4992.4	8996.2	14179.3	14578.3	13815.6	12269.2	11008.7
77.5°	490.8	508.4	628.5	1045.1	2213.7	4854.7	11707.8	12707.0	12452.8	10984.0	8473.7
80°	338.9	346.0	434.3	624.9	1278.1	1708.9	7389.8	8692.6	9137.5	8505.5	5430.2
82.5°	254.2	261.3	335.4	423.7	921.5	829.7	2814.0	4039.1	5020.7	4928.9	2270.2
85°	243.6	240.1	261.3	282.5	614.3	494.3	910.9	1249.9	1959.5	1677.1	572.0
87.5°	105.9	116.5	268.3	158.9	321.3	229.5	395.4	462.5	596.7	519.0	204.8
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°	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0
2.5°	2799.8	2806.9	2828.1	2859.9	2877.5	2912.8	2937.5	2951.7	2962.3	2965.8	2965.8
5°	2775.1	2789.3	2835.2	2888.1	2937.5	3011.7	3078.8	3117.6	3145.9	3156.4	3160.0
7.5°	2782.2	2817.5	2884.6	2962.3	3025.8	3121.1	3202.3	3280.0	3343.6	3368.3	3368.3
10°	2849.3	2898.7	2990.5	3092.9	3174.1	3273.0	3357.7	3424.8	3498.9	3541.3	3548.4
12.5°	2951.7	3011.7	3131.7	3244.7	3336.5	3414.2	3491.9	3541.3	3576.6	3608.4	3615.4
15°	3096.4	3170.6	3290.6	3407.1	3488.3	3537.8	3558.9	3558.9	3555.4	3558.9	3566.0
17.5°	3241.2	3311.8	3431.8	3548.4	3587.2	3558.9	3534.2	3527.2	3523.6	3516.6	3520.1
20°	3382.4	3449.5	3551.9	3640.2	3608.4	3509.5	3477.7	3474.2	3463.6	3456.6	3449.5
22.5°	3523.6	3573.1	3657.8	3689.6	3562.5	3421.2	3382.4	3361.2	3347.1	3329.4	3311.8
25°	3686.1	3700.2	3763.7	3714.3	3449.5	3258.8	3202.3	3170.6	3156.4	3138.8	3124.7
27.5°	3837.9	3837.9	3848.5	3675.5	3283.6	3043.5	2958.7	2902.2	2898.7	2895.2	2891.6
30°	3975.6	3957.9	3922.6	3558.9	3068.2	2778.7	2651.6	2595.1	2616.2	2633.9	2637.4
32.5°	4138.0	4102.7	4003.8	3400.1	2810.4	2482.1	2326.7	2302.0	2326.7	2347.9	2333.8
35°	4392.2	4328.6	4088.6	3216.5	2563.3	2210.2	2061.9	2026.6	2019.6	2016.0	1987.8
37.5°	4755.9	4646.4	4155.6	3018.7	2319.7	1970.1	1860.7	1786.5	1719.5	1648.8	1638.2
40°	5200.7	5013.6	4201.5	2792.8	2061.9	1768.9	1652.4	1557.0	1444.1	1320.5	1306.4
42.5°	5688.0	5409.0	4222.7	2542.1	1836.0	1602.9	1458.2	1338.1	1211.0	1115.7	1098.0
45°	6214.0	5836.2	4205.1	2302.0	1652.4	1461.7	1299.3	1168.7	1066.3	999.2	985.1
47.5°	6726.0	6327.0	4155.6	2111.4	1511.1	1341.7	1175.7	1055.7	978.0	903.9	886.2
50°	7382.7	6796.6	4095.6	1963.1	1355.8	1221.6	1098.0	970.9	882.7	847.4	840.3
52.5°	8110.0	7266.2	4025.0	1775.9	1204.0	1126.3	1048.6	935.6	907.4	840.3	829.7
55°	8897.4	7824.0	4010.9	1539.4	1069.8	1059.2	999.2	967.4	974.5	840.3	822.7
57.5°	9727.1	8420.7	4042.7	1302.8	960.4	999.2	1020.4	995.7	985.1	858.0	822.7
60°	10592.1	8996.2	3947.3	1083.9	875.6	949.8	1045.1	981.5	903.9	850.9	826.2
62.5°	11432.4	9479.9	3534.2	928.6	812.1	935.6	1031.0	928.6	840.3	840.3	829.7
65°	12043.2	9695.3	2764.5	815.6	769.7	918.0	1006.2	893.3	822.7	847.4	833.2
67.5°	12113.8	9472.9	1857.1	727.3	734.4	886.2	949.8	861.5	805.0	868.6	847.4
70°	11679.6	8893.8	1136.9	660.2	688.5	829.7	900.3	829.7	780.3	850.9	819.1
72.5°	10553.3	7813.4	801.5	603.7	639.1	776.8	854.4	801.5	745.0	769.7	737.9
75°	8657.3	6055.1	635.5	550.8	589.6	727.3	815.6	759.1	702.6	692.0	670.8
77.5°	6132.8	3880.2	512.0	508.4	536.7	667.3	762.6	709.7	653.2	632.0	617.9
80°	3527.2	1903.0	441.3	459.0	487.2	607.3	699.1	653.2	600.2	568.4	547.3
82.5°	1348.7	663.8	388.4	399.0	430.7	543.7	635.5	596.7	543.7	572.0	480.2
85°	437.8	363.7	317.8	328.4	360.1	451.9	561.4	529.6	469.6	416.6	384.8
87.5°	194.2	197.7	169.5	187.1	226.0	300.1	409.6	388.4	342.5	286.0	275.4
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)