

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: P399728

Luminaire Tested: **ARCH-L-PA3-180-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399728
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-PA3-180-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26744 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

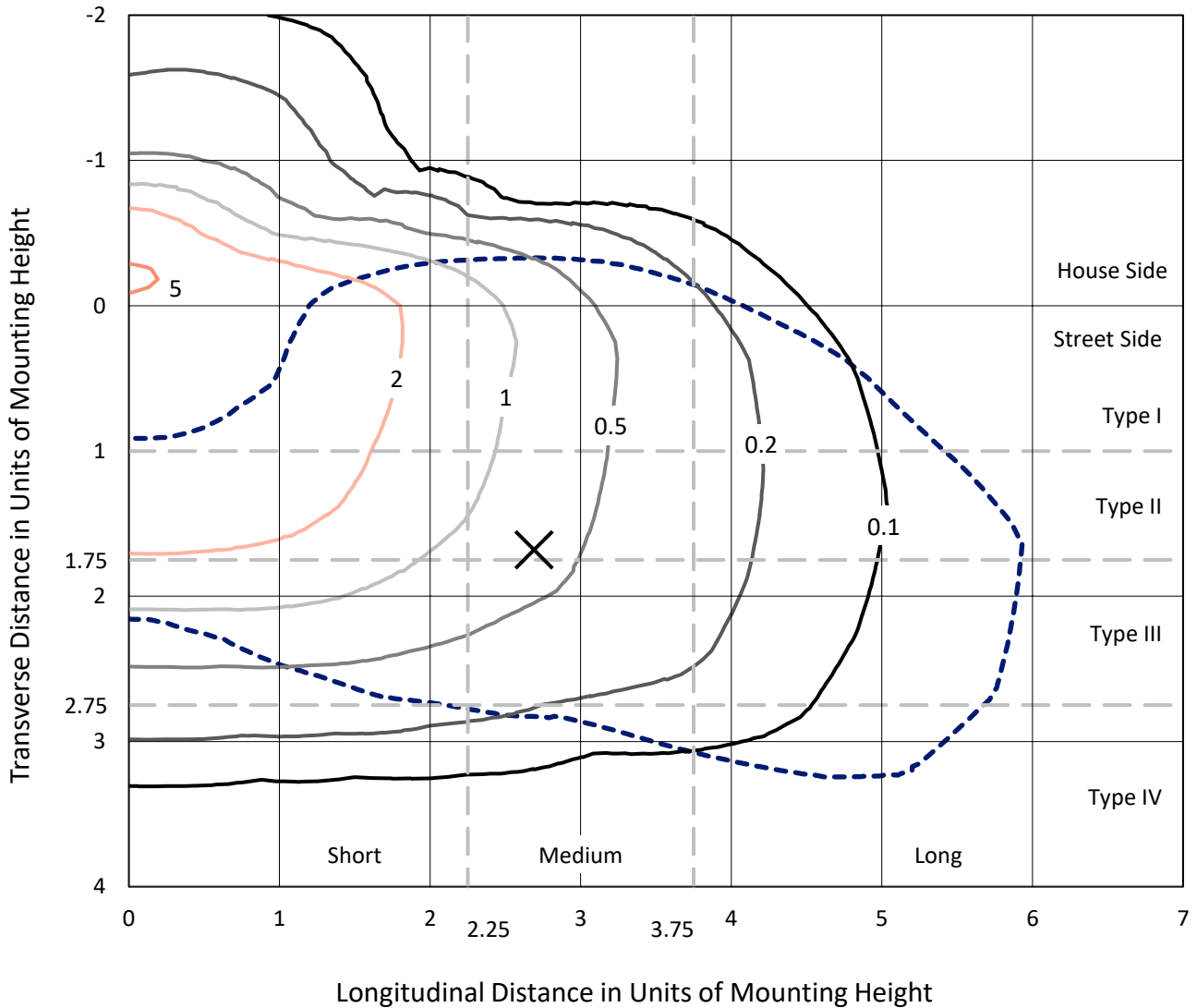
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

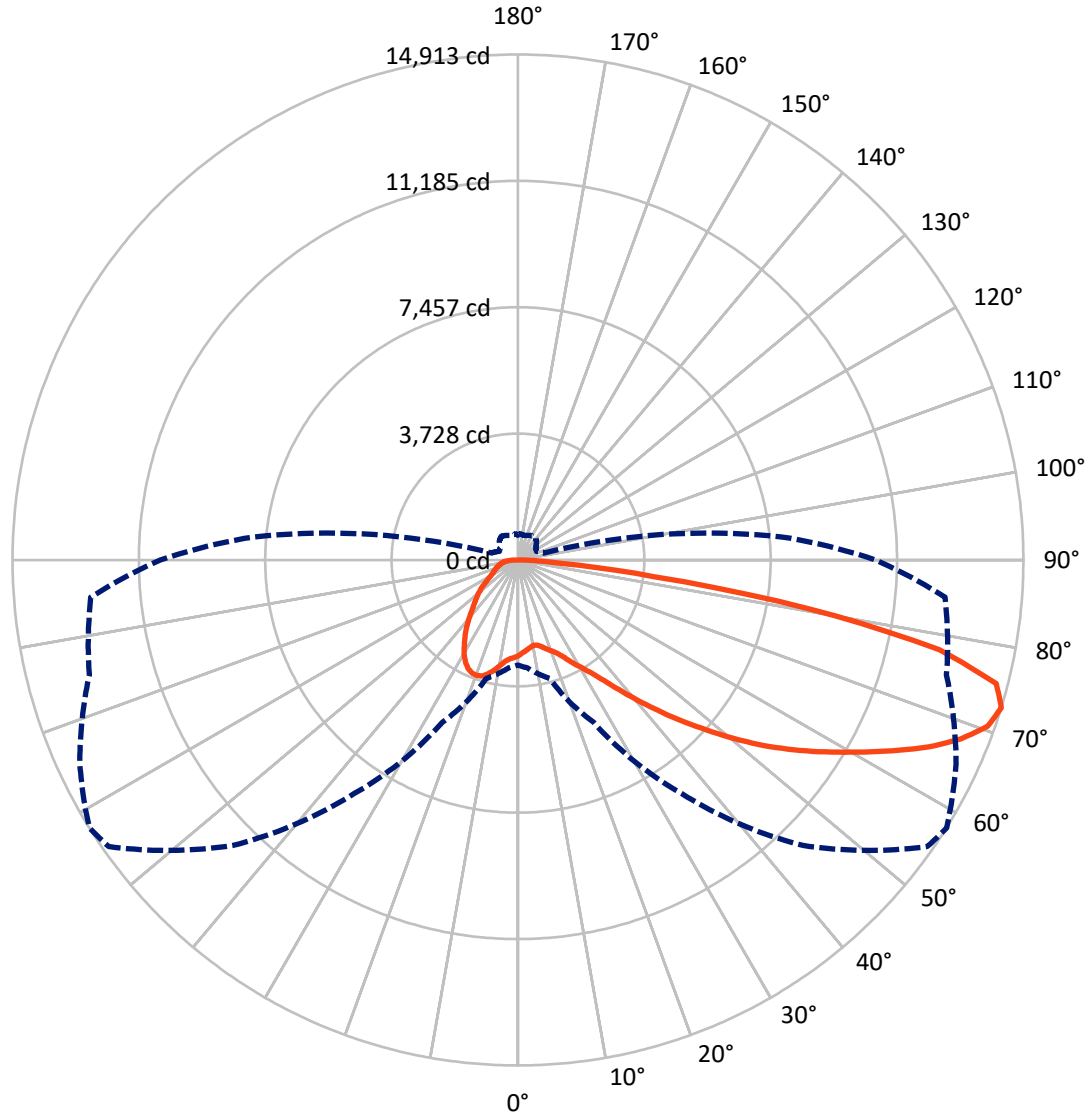
✕ Max cd
 - - - 1/2 Max cd



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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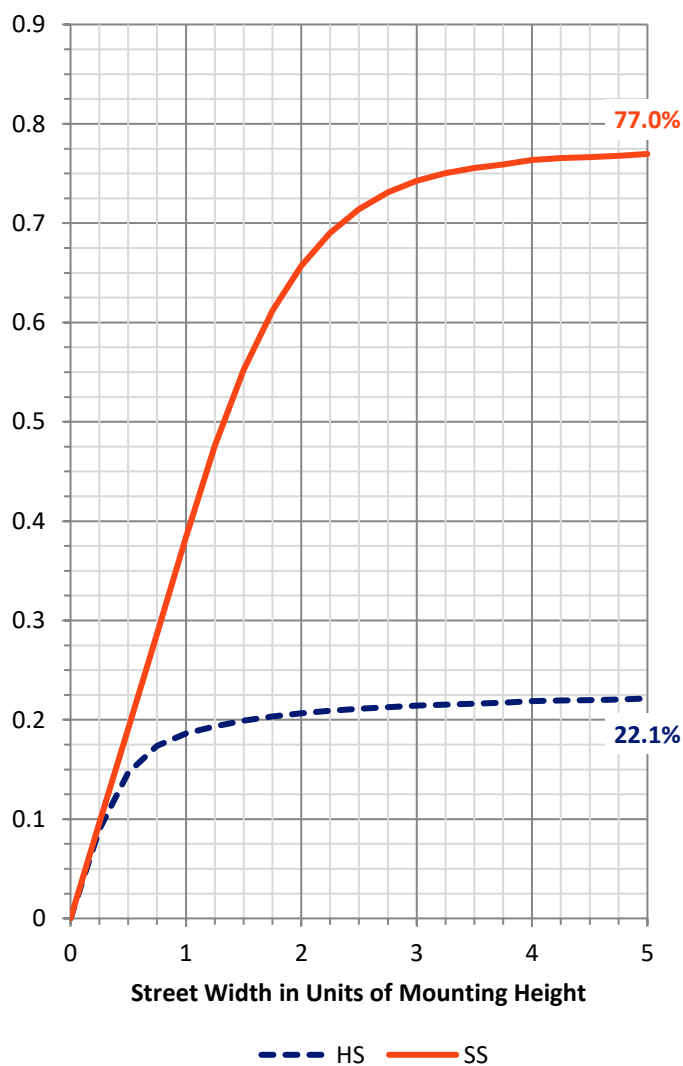
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6065.2	0.0	6065.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20678.8	0.0	20678.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	26744.0	0.0	26744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	1.0
10°-20°	863.0	3.2
20°-30°	1545.9	5.8
30°-40°	2325.5	8.7
40°-50°	3765.8	14.1
50°-60°	5668.7	21.2
60°-70°	6671.4	24.9
70°-80°	4730.6	17.7
80°-90°	901.4	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°	26744.0	100.0
0°-180°	26744.0	100.0

Coefficient of Utilization



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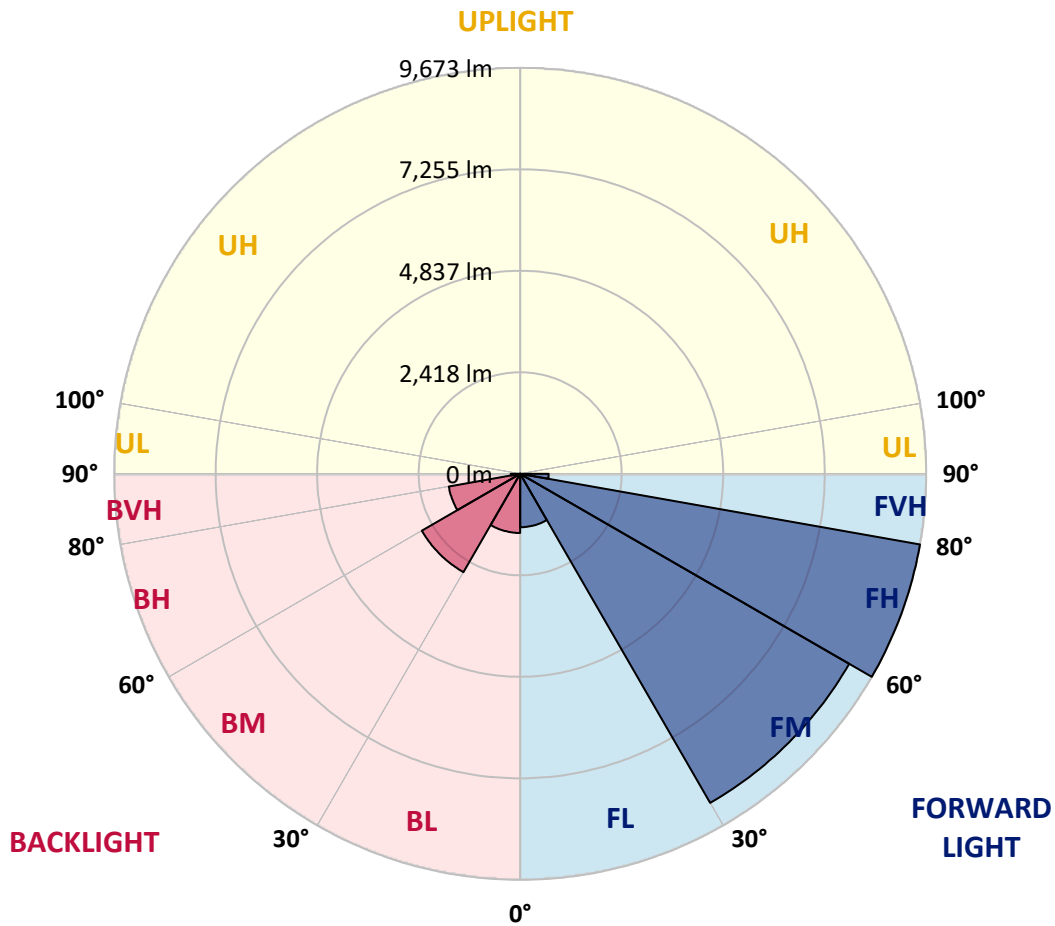
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.8	4.8			
FM (30°-60°)	9053.6	33.9			
FH (60°-80°)	9673.4	36.2			G4/12000
FVH (80°-90°)	679.9	2.5			G4/750
BL (0°-30°)	1408.8	5.3	B3/2500		
BM (30°-60°)	2706.3	10.1	B3/5000		
BH (60°-80°)	1728.6	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°	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9
2.5°	2715.0	2700.9	2704.4	2704.4	2718.5	2725.6	2729.1	2739.7	2746.8	2764.4	2789.1
5°	2587.9	2577.3	2580.8	2584.4	2609.1	2633.8	2655.0	2669.1	2690.3	2718.5	2753.8
7.5°	2496.1	2489.1	2492.6	2499.6	2520.8	2549.1	2584.4	2605.6	2637.3	2690.3	2750.3
10°	2429.0	2429.0	2432.6	2446.7	2467.9	2503.2	2531.4	2556.1	2619.7	2715.0	2806.8
12.5°	2376.1	2376.1	2386.7	2414.9	2450.2	2485.5	2552.6	2580.8	2665.6	2796.2	2905.7
15°	2372.5	2376.1	2379.6	2404.3	2443.2	2520.8	2619.7	2662.0	2764.4	2919.8	3046.9
17.5°	2429.0	2432.6	2418.4	2425.5	2471.4	2580.8	2711.5	2760.9	2891.5	3061.0	3191.6
20°	2602.0	2602.0	2559.7	2520.8	2552.6	2672.6	2820.9	2870.4	3015.1	3202.2	3332.9
22.5°	2955.1	2972.7	2873.9	2789.1	2739.7	2806.8	2941.0	2993.9	3156.3	3357.6	3488.2
25°	3382.3	3399.9	3265.8	3145.7	3053.9	3043.3	3131.6	3188.1	3322.3	3530.6	3640.0
27.5°	3795.4	3763.6	3640.0	3527.0	3410.5	3315.2	3382.3	3431.7	3587.1	3745.9	3813.0
30°	4120.2	4095.5	3975.4	3894.2	3784.8	3661.2	3622.4	3675.3	3802.4	3950.7	3986.0
32.5°	4480.3	4462.6	4342.6	4236.7	4144.9	4028.4	3943.6	3968.4	4039.0	4144.9	4166.1
35°	4939.3	4978.1	4851.0	4635.6	4533.2	4420.3	4360.3	4367.3	4420.3	4487.4	4452.0
37.5°	5423.0	5468.8	5475.9	5137.0	4999.3	4896.9	4833.3	4858.1	4921.6	4967.5	4858.1
40°	6319.7	6273.8	6090.2	5839.6	5627.7	5528.9	5440.6	5437.1	5483.0	5564.2	5366.5
42.5°	7509.5	7467.2	7096.4	6771.6	6436.2	6323.2	6150.2	6076.1	6097.3	6199.7	5924.3
45°	8649.9	8632.2	8335.7	7957.9	7555.4	7336.5	6941.1	6761.0	6743.4	6824.6	6496.2
47.5°	9663.2	9585.5	9370.1	9077.1	9034.7	8462.8	7735.5	7491.9	7407.1	7453.0	7085.8
50°	10747.0	10482.3	10185.7	10005.6	10312.8	9779.7	8536.9	8282.7	8074.4	8106.2	7724.9
52.5°	11322.5	10877.7	10683.5	10736.5	11149.5	10944.8	9409.0	9098.3	8762.9	8808.8	8360.4
55°	10828.3	10824.7	10909.5	11237.8	11813.3	11576.7	10238.6	9889.1	9521.9	9532.5	9091.2
57.5°	10150.4	10288.1	10725.9	11449.6	12635.9	12240.5	11054.2	10683.5	10348.1	10295.1	9920.9
60°	9532.5	9684.3	10319.8	11414.3	12921.9	12847.7	11830.9	11506.1	11234.3	11078.9	10792.9
62.5°	8593.4	8706.4	9606.7	11188.4	12681.8	13285.5	12618.2	12395.8	12191.0	11869.8	11732.1
65°	7488.3	7527.2	8476.9	10443.4	12381.7	13455.0	13402.0	13303.2	13105.5	12632.4	12660.6
67.5°	6291.5	6369.1	7202.4	9253.6	11725.0	13377.3	14009.3	14090.5	13857.5	13147.8	13253.8
70°	5016.9	5112.3	5744.2	7608.4	10609.4	13041.9	14570.7	14701.3	14252.9	13317.3	13363.2
72.5°	3103.4	3195.2	3618.8	5285.3	8409.8	11915.7	14743.6	14913.1	14263.5	13091.3	12650.0
75°	1073.3	1083.9	1415.8	2534.9	4992.2	8995.9	14178.8	14577.7	13815.1	12268.7	11008.3
77.5°	490.7	508.4	628.4	1045.0	2213.7	4854.5	11707.4	12706.5	12452.3	10983.6	8473.4
80°	338.9	346.0	434.3	624.9	1278.1	1708.8	7389.5	8692.3	9137.1	8505.1	5430.0
82.5°	254.2	261.3	335.4	423.7	921.5	829.7	2813.9	4039.0	5020.5	4928.7	2270.2
85°	243.6	240.1	261.3	282.4	614.3	494.3	910.9	1249.8	1959.5	1677.0	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°	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9
2.5°	2799.7	2806.8	2828.0	2859.8	2877.4	2912.7	2937.4	2951.6	2962.1	2965.7	2965.7
5°	2775.0	2789.1	2835.0	2888.0	2937.4	3011.6	3078.7	3117.5	3145.7	3156.3	3159.9
7.5°	2782.1	2817.4	2884.5	2962.1	3025.7	3121.0	3202.2	3279.9	3343.4	3368.2	3368.2
10°	2849.2	2898.6	2990.4	3092.8	3174.0	3272.8	3357.6	3424.7	3498.8	3541.2	3548.2
12.5°	2951.6	3011.6	3131.6	3244.6	3336.4	3414.1	3491.7	3541.2	3576.5	3608.2	3615.3
15°	3096.3	3170.4	3290.5	3407.0	3488.2	3537.6	3558.8	3558.8	3555.3	3558.8	3565.9
17.5°	3241.1	3311.7	3431.7	3548.2	3587.1	3558.8	3534.1	3527.0	3523.5	3516.4	3520.0
20°	3382.3	3449.4	3551.8	3640.0	3608.2	3509.4	3477.6	3474.1	3463.5	3456.4	3449.4
22.5°	3523.5	3572.9	3657.7	3689.4	3562.3	3421.1	3382.3	3361.1	3347.0	3329.3	3311.7
25°	3685.9	3700.0	3763.6	3714.2	3449.4	3258.7	3202.2	3170.4	3156.3	3138.7	3124.6
27.5°	3837.7	3837.7	3848.3	3675.3	3283.4	3043.3	2958.6	2902.1	2898.6	2895.1	2891.5
30°	3975.4	3957.8	3922.5	3558.8	3068.1	2778.6	2651.5	2595.0	2616.2	2633.8	2637.3
32.5°	4137.8	4102.5	4003.7	3399.9	2810.3	2482.0	2326.6	2301.9	2326.6	2347.8	2333.7
35°	4392.0	4328.5	4088.4	3216.3	2563.2	2210.1	2061.9	2026.5	2019.5	2016.0	1987.7
37.5°	4755.7	4646.2	4155.5	3018.6	2319.6	1970.1	1860.6	1786.5	1719.4	1648.8	1638.2
40°	5200.5	5013.4	4201.4	2792.7	2061.9	1768.8	1652.3	1557.0	1444.0	1320.4	1306.3
42.5°	5687.7	5408.8	4222.6	2542.0	1835.9	1602.9	1458.1	1338.1	1211.0	1115.7	1098.0
45°	6213.8	5836.0	4204.9	2301.9	1652.3	1461.7	1299.2	1168.6	1066.2	999.2	985.0
47.5°	6725.7	6326.8	4155.5	2111.3	1511.1	1341.6	1175.7	1055.6	978.0	903.8	886.2
50°	7382.4	6796.3	4095.5	1963.0	1355.7	1221.6	1098.0	970.9	882.6	847.3	840.3
52.5°	8109.7	7265.9	4024.8	1775.9	1203.9	1126.3	1048.6	935.6	907.4	840.3	829.7
55°	8897.0	7823.7	4010.7	1539.3	1069.8	1059.2	999.2	967.4	974.4	840.3	822.6
57.5°	9726.7	8420.4	4042.5	1302.8	960.3	999.2	1020.3	995.6	985.0	857.9	822.6
60°	10591.7	8995.9	3947.2	1083.9	875.6	949.7	1045.0	981.5	903.8	850.9	826.2
62.5°	11432.0	9479.6	3534.1	928.5	812.0	935.6	1030.9	928.5	840.3	840.3	829.7
65°	12042.8	9694.9	2764.4	815.6	769.7	917.9	1006.2	893.2	822.6	847.3	833.2
67.5°	12113.4	9472.5	1857.1	727.3	734.4	886.2	949.7	861.5	805.0	868.5	847.3
70°	11679.1	8893.5	1136.8	660.2	688.5	829.7	900.3	829.7	780.3	850.9	819.1
72.5°	10552.9	7813.1	801.4	603.7	639.0	776.7	854.4	801.4	744.9	769.7	737.9
75°	8657.0	6054.9	635.5	550.8	589.6	727.3	815.6	759.1	702.6	692.0	670.8
77.5°	6132.6	3880.1	511.9	508.4	536.6	667.3	762.6	709.6	653.2	632.0	617.8
80°	3527.0	1903.0	441.3	459.0	487.2	607.3	699.1	653.2	600.2	568.4	547.2
82.5°	1348.7	663.7	388.4	399.0	430.7	543.7	635.5	596.7	543.7	572.0	480.2
85°	437.8	363.6	317.8	328.3	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	409.5	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)