

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: P400052

Luminaire Tested: **ARCH-L-PA3-230-722-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400052
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-PA3-230-722-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23326 lumens
Efficiency: N/A
Efficacy: 101.9 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

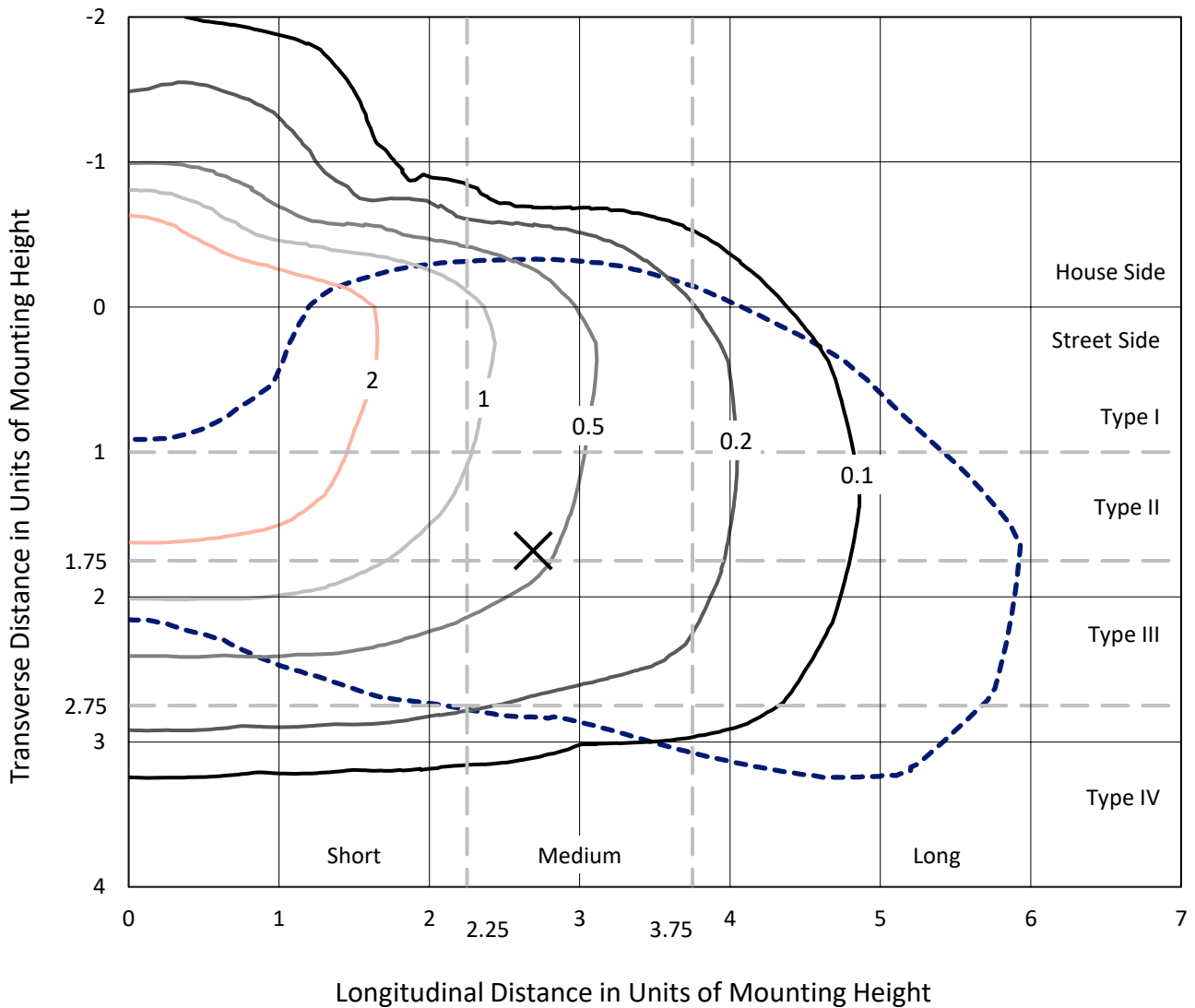
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

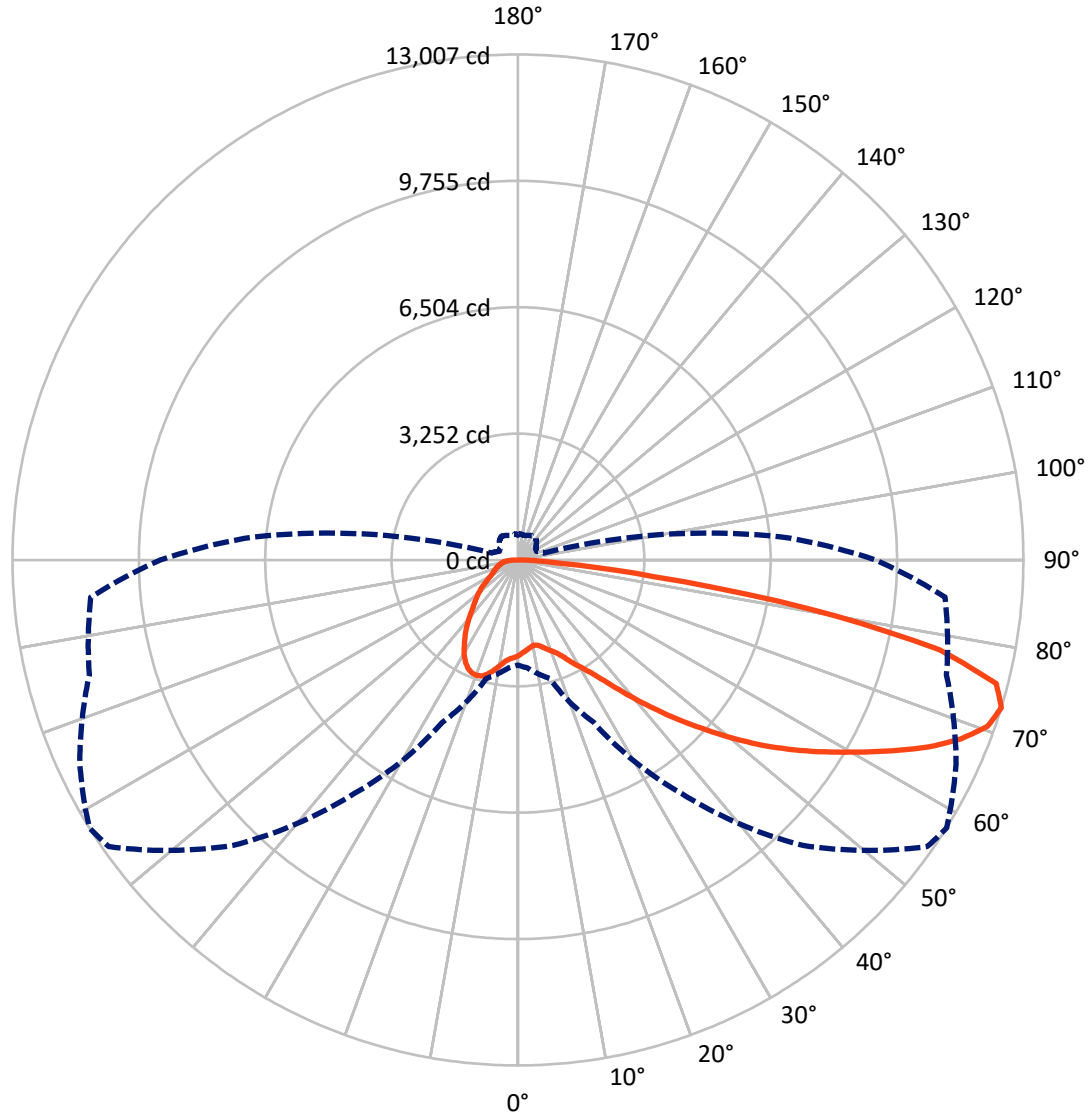
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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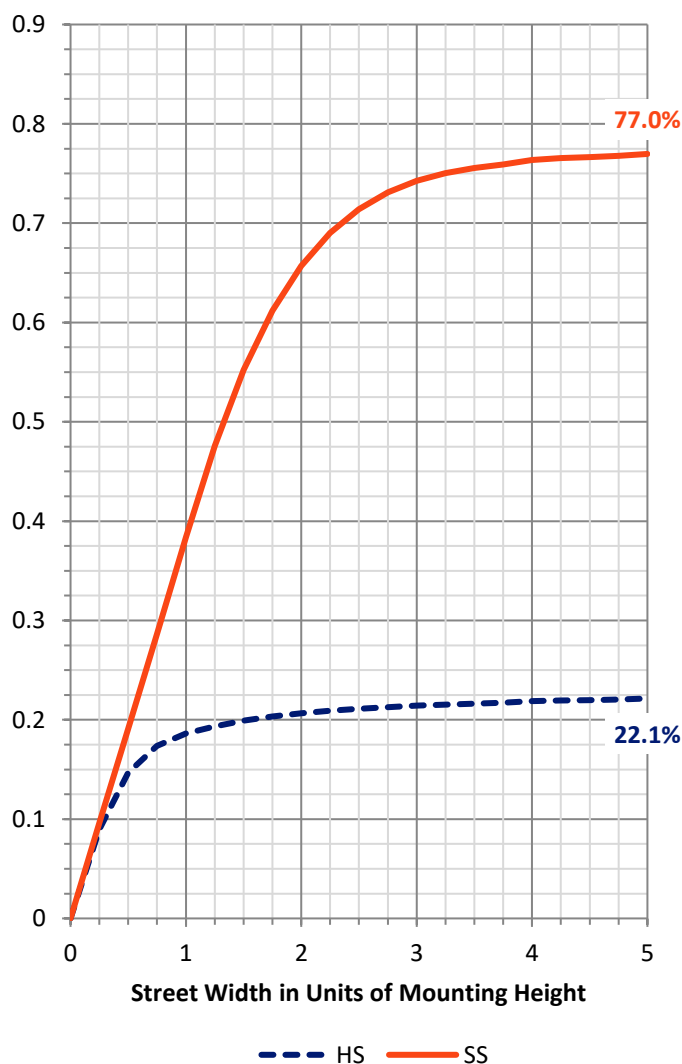
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5290.1	0.0	5290.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	18035.9	0.0	18035.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	23326.0	0.0	23326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.0
10°-20°	752.7	3.2
20°-30°	1348.3	5.8
30°-40°	2028.3	8.7
40°-50°	3284.5	14.1
50°-60°	4944.2	21.2
60°-70°	5818.8	24.9
70°-80°	4126.0	17.7
80°-90°	786.2	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°	23326.0	100.0
0°-180°	23326.0	100.0

Coefficient of Utilization



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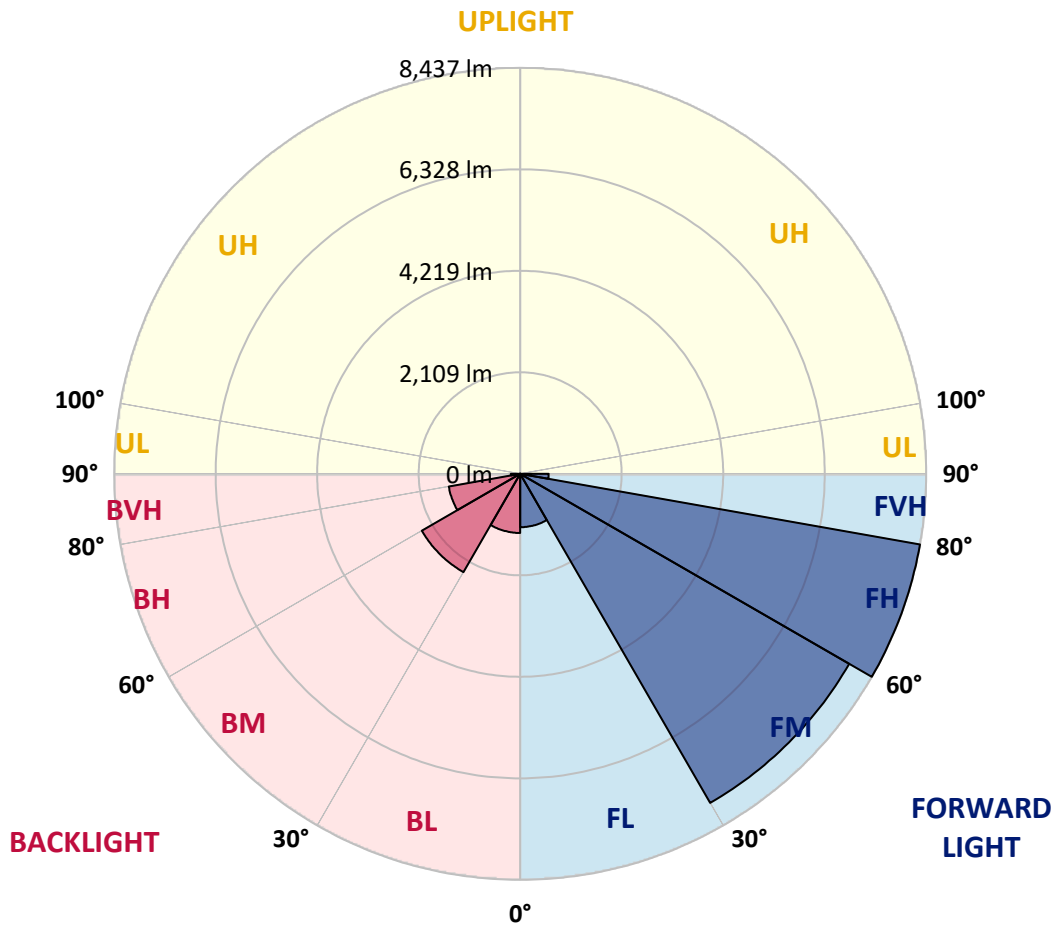
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.3	4.8			
FM (30°-60°)	7896.5	33.9			
FH (60°-80°)	8437.1	36.2			G4/12000
FVH (80°-90°)	593.0	2.5			G4/750
BL (0°-30°)	1228.8	5.3	B3/2500		
BM (30°-60°)	2360.4	10.1	B2/2500		
BH (60°-80°)	1507.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	193.2	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°	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4
2.5°	2368.0	2355.7	2358.8	2358.8	2371.1	2377.3	2380.3	2389.6	2395.7	2411.1	2432.7
5°	2257.2	2247.9	2251.0	2254.1	2275.6	2297.2	2315.7	2328.0	2346.5	2371.1	2401.9
7.5°	2177.1	2170.9	2174.0	2180.2	2198.7	2223.3	2254.1	2272.6	2300.3	2346.5	2398.8
10°	2118.6	2118.6	2121.7	2134.0	2152.5	2183.3	2207.9	2229.4	2284.9	2368.0	2448.1
12.5°	2072.4	2072.4	2081.6	2106.3	2137.1	2167.9	2226.4	2251.0	2324.9	2438.8	2534.3
15°	2069.3	2072.4	2075.5	2097.0	2130.9	2198.7	2284.9	2321.8	2411.1	2546.6	2657.5
17.5°	2118.6	2121.7	2109.4	2115.5	2155.5	2251.0	2364.9	2408.0	2522.0	2669.8	2783.7
20°	2269.5	2269.5	2232.5	2198.7	2226.4	2331.1	2460.4	2503.5	2629.8	2793.0	2906.9
22.5°	2577.4	2592.8	2506.6	2432.7	2389.6	2448.1	2565.1	2611.3	2752.9	2928.5	3042.4
25°	2950.0	2965.4	2848.4	2743.7	2663.6	2654.4	2731.4	2780.6	2897.7	3079.3	3174.8
27.5°	3310.3	3282.6	3174.8	3076.3	2974.6	2891.5	2950.0	2993.1	3128.6	3267.2	3325.7
30°	3593.6	3572.0	3467.3	3396.5	3301.1	3193.3	3159.4	3205.6	3316.5	3445.8	3476.6
32.5°	3907.7	3892.3	3787.6	3695.2	3615.2	3513.5	3439.6	3461.2	3522.8	3615.2	3633.6
35°	4308.0	4341.9	4231.0	4043.2	3953.9	3855.3	3803.0	3809.2	3855.3	3913.8	3883.1
37.5°	4729.9	4769.9	4776.1	4480.4	4360.4	4271.1	4215.6	4237.2	4292.6	4332.6	4237.2
40°	5512.0	5472.0	5311.9	5093.2	4908.5	4822.3	4745.3	4742.2	4782.2	4853.0	4680.6
42.5°	6549.8	6512.8	6189.5	5906.2	5613.6	5515.1	5364.2	5299.6	5318.0	5407.3	5167.1
45°	7544.4	7529.0	7270.3	6940.8	6589.8	6398.9	6054.0	5896.9	5881.6	5952.4	5666.0
47.5°	8428.2	8360.4	8172.6	7917.0	7880.0	7381.2	6746.8	6534.4	6460.5	6500.5	6180.2
50°	9373.5	9142.6	8883.9	8726.9	8994.8	8529.8	7445.9	7224.1	7042.5	7070.2	6737.6
52.5°	9875.5	9487.5	9318.1	9364.3	9724.6	9546.0	8206.5	7935.5	7642.9	7683.0	7291.9
55°	9444.4	9441.3	9515.2	9801.6	10303.5	10097.2	8930.1	8625.2	8305.0	8314.2	7929.3
57.5°	8853.1	8973.2	9355.1	9986.3	11021.0	10676.1	9641.4	9318.1	9025.6	8979.4	8653.0
60°	8314.2	8446.6	9000.9	9955.5	11270.4	11205.7	10318.9	10035.6	9798.5	9663.0	9413.6
62.5°	7495.1	7593.7	8378.9	9758.4	11061.0	11587.6	11005.6	10811.6	10633.0	10352.8	10232.7
65°	6531.3	6565.2	7393.5	9108.7	10799.3	11735.4	11689.2	11603.0	11430.5	11017.9	11042.5
67.5°	5487.4	5555.1	6281.9	8071.0	10226.5	11667.6	12218.8	12289.7	12086.4	11467.5	11559.9
70°	4375.8	4458.9	5010.1	6636.0	9253.4	11375.1	12708.5	12822.4	12431.3	11615.3	11655.3
72.5°	2706.7	2786.8	3156.3	4609.8	7335.0	10392.8	12859.3	13007.2	12440.6	11418.2	11033.3
75°	936.1	945.4	1234.8	2211.0	4354.2	7846.2	12366.7	12714.6	12049.5	10700.7	9601.4
77.5°	428.0	443.4	548.1	911.5	1930.7	4234.1	10211.1	11082.6	10860.9	9579.8	7390.4
80°	295.6	301.8	378.8	545.0	1114.7	1490.4	6445.1	7581.3	7969.3	7418.1	4736.0
82.5°	221.7	227.9	292.5	369.5	803.7	723.6	2454.2	3522.8	4378.8	4298.8	1980.0
85°	212.5	209.4	227.9	246.3	535.8	431.1	794.5	1090.1	1709.0	1462.7	498.9
87.5°	92.4	101.6	234.0	138.6	280.2	200.2	344.9	403.4	520.4	452.7	178.6
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°	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4	2460.4
2.5°	2441.9	2448.1	2466.6	2494.3	2509.7	2540.5	2562.0	2574.3	2583.6	2586.7	2586.7
5°	2420.4	2432.7	2472.7	2518.9	2562.0	2626.7	2685.2	2719.1	2743.7	2752.9	2756.0
7.5°	2426.5	2457.3	2515.8	2583.6	2639.0	2722.1	2793.0	2860.7	2916.1	2937.7	2937.7
10°	2485.0	2528.1	2608.2	2697.5	2768.3	2854.6	2928.5	2987.0	3051.6	3088.6	3094.7
12.5°	2574.3	2626.7	2731.4	2829.9	2910.0	2977.7	3045.5	3088.6	3119.4	3147.1	3153.2
15°	2700.6	2765.3	2870.0	2971.6	3042.4	3085.5	3104.0	3104.0	3100.9	3104.0	3110.1
17.5°	2826.8	2888.4	2993.1	3094.7	3128.6	3104.0	3082.4	3076.3	3073.2	3067.0	3070.1
20°	2950.0	3008.5	3097.8	3174.8	3147.1	3060.9	3033.2	3030.1	3020.8	3014.7	3008.5
22.5°	3073.2	3116.3	3190.2	3217.9	3107.1	2983.9	2950.0	2931.5	2919.2	2903.8	2888.4
25°	3214.8	3227.2	3282.6	3239.5	3008.5	2842.2	2793.0	2765.3	2752.9	2737.5	2725.2
27.5°	3347.2	3347.2	3356.5	3205.6	2863.8	2654.4	2580.5	2531.2	2528.1	2525.1	2522.0
30°	3467.3	3451.9	3421.2	3104.0	2676.0	2423.4	2312.6	2263.3	2281.8	2297.2	2300.3
32.5°	3609.0	3578.2	3492.0	2965.4	2451.2	2164.8	2029.3	2007.7	2029.3	2047.8	2035.4
35°	3830.7	3775.3	3565.9	2805.3	2235.6	1927.7	1798.3	1767.5	1761.4	1758.3	1733.7
37.5°	4147.9	4052.4	3624.4	2632.8	2023.1	1718.3	1622.8	1558.1	1499.6	1438.1	1428.8
40°	4535.9	4372.7	3664.4	2435.8	1798.3	1542.8	1441.1	1358.0	1259.5	1151.7	1139.4
42.5°	4960.8	4717.6	3682.9	2217.1	1601.3	1398.0	1271.8	1167.1	1056.2	973.1	957.7
45°	5419.6	5090.2	3667.5	2007.7	1441.1	1274.8	1133.2	1019.3	930.0	871.5	859.1
47.5°	5866.2	5518.2	3624.4	1841.4	1318.0	1170.2	1025.4	920.7	853.0	788.3	772.9
50°	6438.9	5927.7	3572.0	1712.1	1182.5	1065.5	957.7	846.8	769.8	739.0	732.9
52.5°	7073.3	6337.3	3510.5	1548.9	1050.1	982.3	914.6	816.0	791.4	732.9	723.6
55°	7760.0	6823.8	3498.1	1342.6	933.0	923.8	871.5	843.7	849.9	732.9	717.5
57.5°	8483.6	7344.2	3525.9	1136.3	837.6	871.5	889.9	868.4	859.1	748.3	717.5
60°	9238.0	7846.2	3442.7	945.4	763.7	828.3	911.5	856.1	788.3	742.1	720.6
62.5°	9970.9	8268.0	3082.4	809.9	708.2	816.0	899.2	809.9	732.9	732.9	723.6
65°	10503.6	8455.9	2411.1	711.3	671.3	800.6	877.6	779.1	717.5	739.0	726.7
67.5°	10565.2	8261.9	1619.7	634.3	640.5	772.9	828.3	751.4	702.1	757.5	739.0
70°	10186.5	7756.9	991.5	575.8	600.5	723.6	785.2	723.6	680.5	742.1	714.4
72.5°	9204.2	6814.6	699.0	526.6	557.4	677.5	745.2	699.0	649.7	671.3	643.6
75°	7550.6	5281.1	554.3	480.4	514.3	634.3	711.3	662.1	612.8	603.6	585.1
77.5°	5348.8	3384.2	446.5	443.4	468.1	582.0	665.1	618.9	569.7	551.2	538.9
80°	3076.3	1659.8	384.9	400.3	424.9	529.6	609.7	569.7	523.5	495.8	477.3
82.5°	1176.3	578.9	338.7	348.0	375.7	474.2	554.3	520.4	474.2	498.9	418.8
85°	381.8	317.2	277.1	286.4	314.1	394.2	489.6	461.9	409.6	363.4	335.6
87.5°	169.4	172.4	147.8	163.2	197.1	261.7	357.2	338.7	298.7	249.4	240.2
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)