

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: P399782

Luminaire Tested: **ARCH-L-PA3-190-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399782
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-PA3-190-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25205 lumens
Efficiency: N/A
Efficacy: 133.4 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

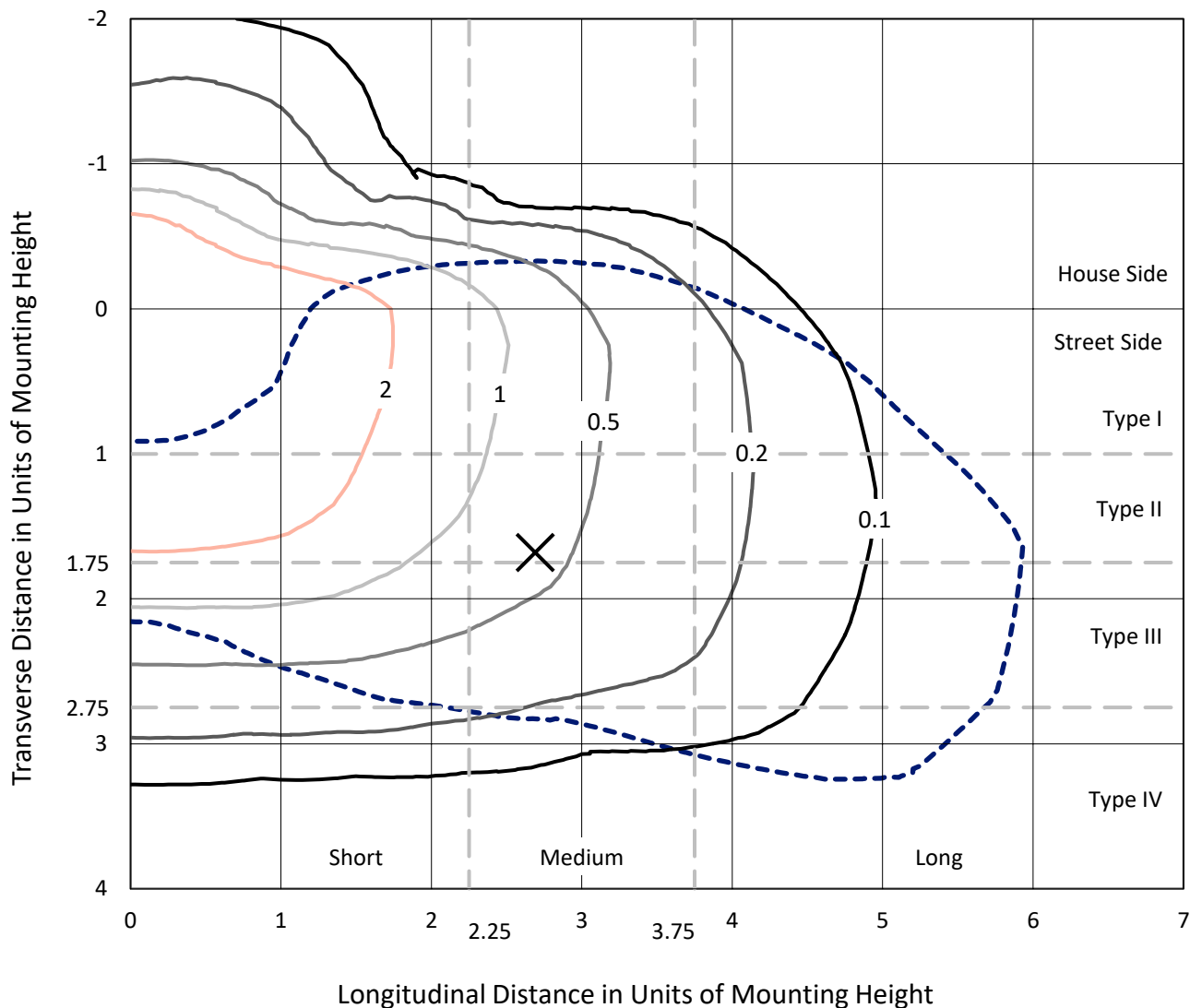
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

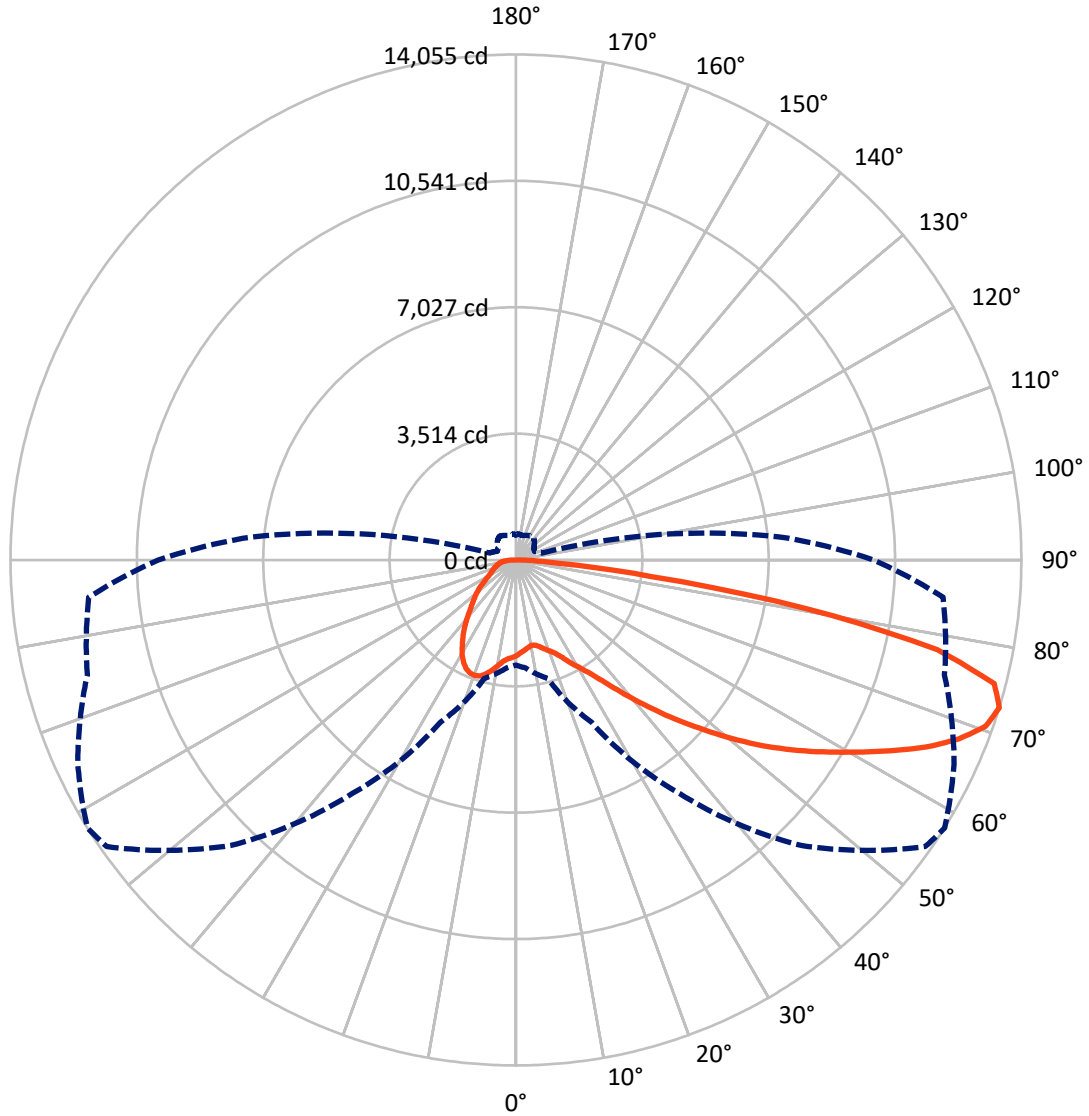
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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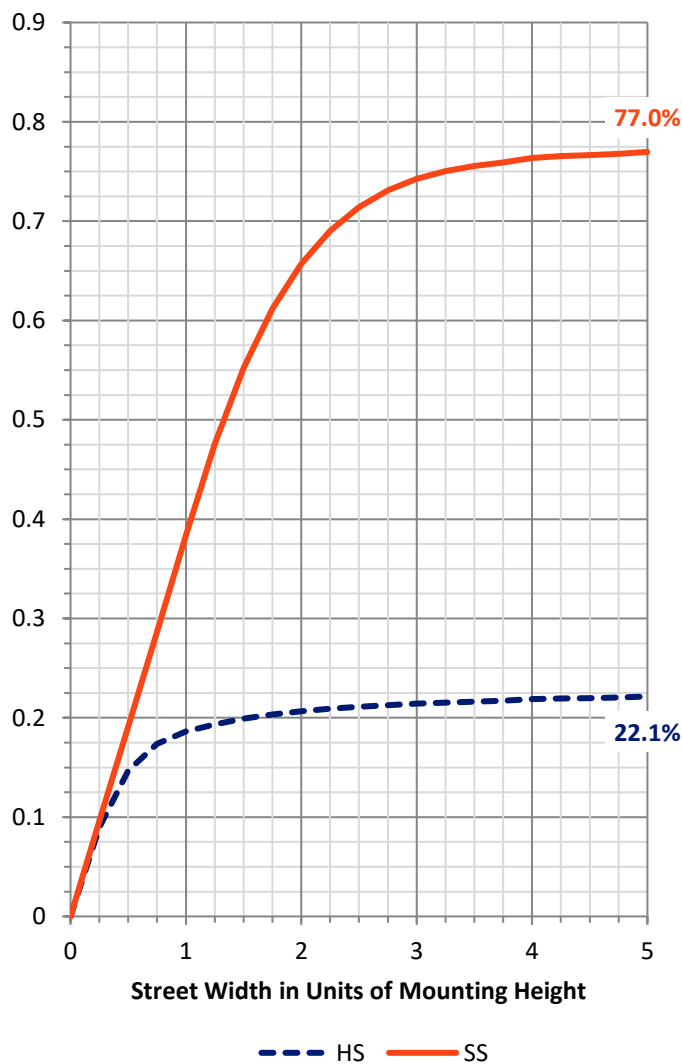
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5716.2	0.0	5716.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19488.8	0.0	19488.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	25205.0	0.0	25205.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.0
10°-20°	813.3	3.2
20°-30°	1456.9	5.8
30°-40°	2191.6	8.7
40°-50°	3549.0	14.1
50°-60°	5342.5	21.2
60°-70°	6287.5	24.9
70°-80°	4458.4	17.7
80°-90°	849.5	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°	25205.0	100.0
0°-180°	25205.0	100.0



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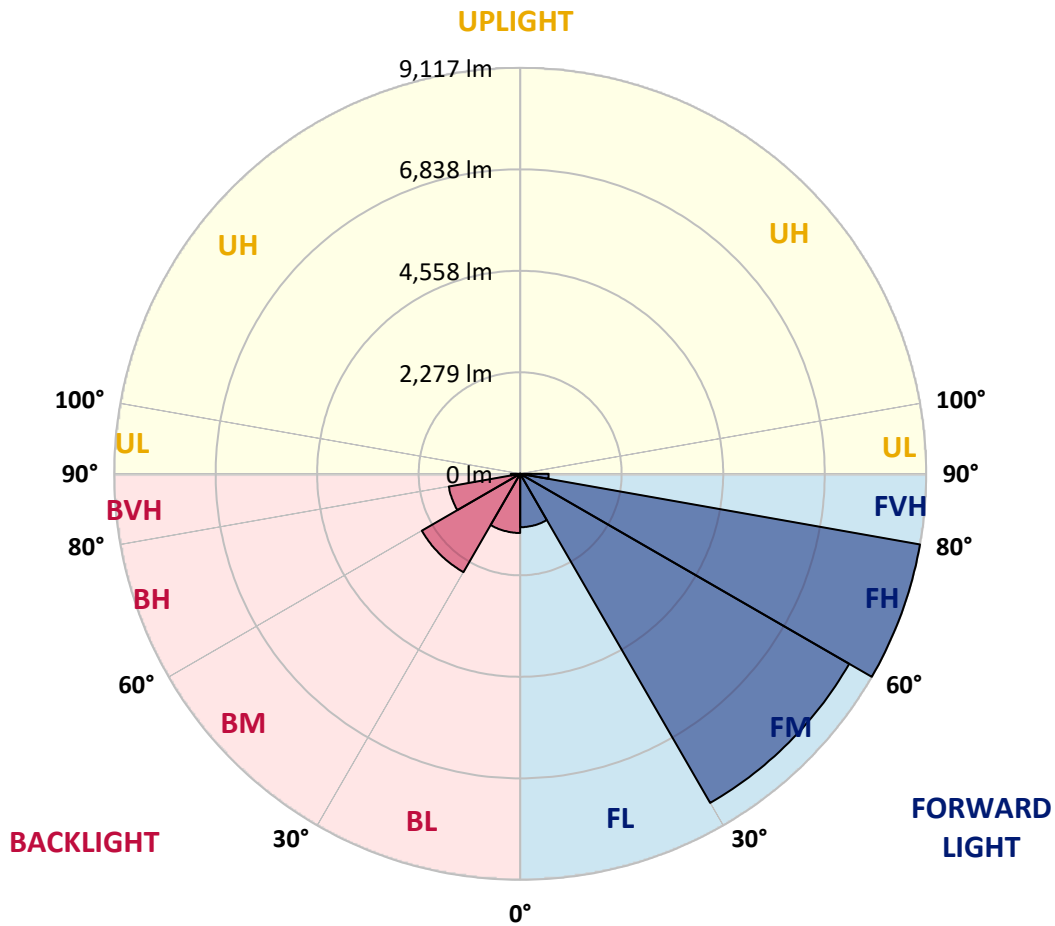
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.6	4.8			
FM (30°-60°)	8532.6	33.9			
FH (60°-80°)	9116.7	36.2			G4/12000
FVH (80°-90°)	640.8	2.5			G4/750
BL (0°-30°)	1327.8	5.3	B3/2500		
BM (30°-60°)	2550.5	10.1	B3/5000		
BH (60°-80°)	1629.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	208.7	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°	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6
2.5°	2558.8	2545.5	2548.8	2548.8	2562.1	2568.8	2572.1	2582.1	2588.7	2605.4	2628.6
5°	2439.0	2429.0	2432.3	2435.7	2458.9	2482.2	2502.2	2515.5	2535.5	2562.1	2595.4
7.5°	2352.5	2345.8	2349.1	2355.8	2375.8	2402.4	2435.7	2455.6	2485.6	2535.5	2592.0
10°	2289.3	2289.3	2292.6	2305.9	2325.9	2359.1	2385.7	2409.0	2468.9	2558.8	2645.3
12.5°	2239.3	2239.3	2249.3	2275.9	2309.2	2342.5	2405.7	2432.3	2512.2	2635.3	2738.4
15°	2236.0	2239.3	2242.7	2266.0	2302.6	2375.8	2468.9	2508.9	2605.4	2751.8	2871.5
17.5°	2289.3	2292.6	2279.3	2285.9	2329.2	2432.3	2555.4	2602.0	2725.1	2884.9	3008.0
20°	2452.3	2452.3	2412.4	2375.8	2405.7	2518.8	2658.6	2705.2	2841.6	3018.0	3141.1
22.5°	2785.0	2801.7	2708.5	2628.6	2582.1	2645.3	2771.7	2821.6	2974.7	3164.4	3287.5
25°	3187.6	3204.3	3077.8	2964.7	2878.2	2868.2	2951.4	3004.6	3131.1	3327.4	3430.5
27.5°	3577.0	3547.0	3430.5	3324.1	3214.3	3124.4	3187.6	3234.2	3380.6	3530.4	3593.6
30°	3883.1	3859.8	3746.7	3670.1	3567.0	3450.5	3413.9	3463.8	3583.6	3723.4	3756.6
32.5°	4222.5	4205.8	4092.7	3992.9	3906.4	3796.6	3716.7	3740.0	3806.5	3906.4	3926.3
35°	4655.0	4691.6	4571.8	4368.9	4272.4	4165.9	4109.3	4116.0	4165.9	4229.1	4195.8
37.5°	5110.9	5154.1	5160.8	4841.4	4711.6	4615.1	4555.2	4578.5	4638.4	4681.7	4578.5
40°	5956.0	5912.8	5739.8	5503.5	5303.9	5210.7	5127.5	5124.2	5167.5	5244.0	5057.6
42.5°	7077.4	7037.4	6688.1	6382.0	6065.8	5959.4	5796.3	5726.5	5746.4	5842.9	5583.4
45°	8152.1	8135.5	7856.0	7500.0	7120.6	6914.3	6541.7	6372.0	6355.3	6431.9	6122.4
47.5°	9107.1	9033.9	8830.9	8554.7	8514.8	7975.8	7290.3	7060.7	6980.9	7024.1	6678.1
50°	10128.6	9879.0	9599.5	9429.8	9719.3	9216.9	8045.7	7806.1	7609.8	7639.7	7280.3
52.5°	10671.0	10251.7	10068.7	10118.6	10507.9	10314.9	8867.5	8574.7	8258.6	8301.9	7879.3
55°	10205.1	10201.8	10281.7	10591.1	11133.5	10910.5	9649.5	9320.0	8974.0	8984.0	8568.1
57.5°	9566.3	9696.0	10108.6	10790.8	11908.8	11536.1	10418.1	10068.7	9752.6	9702.7	9350.0
60°	8984.0	9127.1	9726.0	10757.5	12178.3	12108.4	11150.1	10844.0	10587.8	10441.4	10171.9
62.5°	8098.9	8205.4	9053.9	10544.5	11952.0	12521.0	11892.1	11682.5	11489.5	11186.7	11056.9
65°	7057.4	7094.0	7989.1	9842.4	11669.2	12680.7	12630.8	12537.6	12351.3	11905.4	11932.1
67.5°	5929.4	6002.6	6787.9	8721.1	11050.3	12607.5	13203.1	13279.6	13060.0	12391.2	12491.1
70°	4728.2	4818.1	5413.7	7170.5	9998.8	12291.4	13732.2	13855.3	13432.7	12550.9	12594.2
72.5°	2924.8	3011.3	3410.6	4981.1	7925.9	11230.0	13895.2	14054.9	13442.7	12338.0	11922.1
75°	1011.5	1021.5	1334.3	2389.1	4704.9	8478.2	13362.8	13738.8	13020.1	11562.7	10374.8
77.5°	462.5	479.1	592.3	984.9	2086.3	4575.2	11033.7	11975.3	11735.7	10351.5	7985.8
80°	319.4	326.1	409.3	588.9	1204.5	1610.5	6964.2	8192.1	8611.3	8015.7	5117.5
82.5°	239.6	246.2	316.1	399.3	868.5	781.9	2651.9	3806.5	4731.6	4645.0	2139.5
85°	229.6	226.3	246.2	266.2	579.0	465.8	858.5	1177.9	1846.7	1580.5	539.0
87.5°	99.8	109.8	252.9	149.7	302.8	216.3	372.7	435.9	562.3	489.1	193.0
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°	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6	2658.6
2.5°	2638.6	2645.3	2665.2	2695.2	2711.8	2745.1	2768.4	2781.7	2791.7	2795.0	2795.0
5°	2615.3	2628.6	2671.9	2721.8	2768.4	2838.3	2901.5	2938.1	2964.7	2974.7	2978.0
7.5°	2622.0	2655.3	2718.5	2791.7	2851.6	2941.4	3018.0	3091.2	3151.0	3174.3	3174.3
10°	2685.2	2731.8	2818.3	2914.8	2991.3	3084.5	3164.4	3227.6	3297.5	3337.4	3344.0
12.5°	2781.7	2838.3	2951.4	3057.9	3144.4	3217.6	3290.8	3337.4	3370.7	3400.6	3407.3
15°	2918.1	2988.0	3101.1	3210.9	3287.5	3334.1	3354.0	3354.0	3350.7	3354.0	3360.7
17.5°	3054.6	3121.1	3234.2	3344.0	3380.6	3354.0	3330.7	3324.1	3320.7	3314.1	3317.4
20°	3187.6	3250.9	3347.4	3430.5	3400.6	3307.4	3277.5	3274.2	3264.2	3257.5	3250.9
22.5°	3320.7	3367.3	3447.2	3477.1	3357.3	3224.2	3187.6	3167.7	3154.4	3137.7	3121.1
25°	3473.8	3487.1	3547.0	3500.4	3250.9	3071.2	3018.0	2988.0	2974.7	2958.1	2944.7
27.5°	3616.9	3616.9	3626.9	3463.8	3094.5	2868.2	2788.4	2735.1	2731.8	2728.5	2725.1
30°	3746.7	3730.0	3696.7	3354.0	2891.5	2618.7	2498.9	2445.6	2465.6	2482.2	2485.6
32.5°	3899.7	3866.4	3773.3	3204.3	2648.6	2339.2	2192.8	2169.5	2192.8	2212.7	2199.4
35°	4139.3	4079.4	3853.1	3031.3	2415.7	2083.0	1943.2	1909.9	1903.3	1899.9	1873.3
37.5°	4482.0	4378.9	3916.3	2844.9	2186.1	1856.7	1753.5	1683.7	1620.4	1553.9	1543.9
40°	4901.3	4724.9	3959.6	2632.0	1943.2	1667.0	1557.2	1467.4	1360.9	1244.4	1231.1
42.5°	5360.4	5097.6	3979.6	2395.7	1730.2	1510.6	1374.2	1261.1	1141.3	1051.5	1034.8
45°	5856.2	5500.2	3962.9	2169.5	1557.2	1377.5	1224.5	1101.4	1004.9	941.7	928.3
47.5°	6338.7	5962.7	3916.3	1989.8	1424.1	1264.4	1108.0	994.9	921.7	851.8	835.2
50°	6957.6	6405.2	3859.8	1850.0	1277.7	1151.3	1034.8	915.0	831.8	798.6	791.9
52.5°	7643.0	6847.8	3793.2	1673.7	1134.6	1061.4	988.2	881.8	855.1	791.9	781.9
55°	8385.0	7373.5	3779.9	1450.7	1008.2	998.2	941.7	911.7	918.4	791.9	775.3
57.5°	9167.0	7935.8	3809.9	1227.8	905.1	941.7	961.6	938.3	928.3	808.6	775.3
60°	9982.2	8478.2	3720.0	1021.5	825.2	895.1	984.9	925.0	851.8	801.9	778.6
62.5°	10774.1	8934.1	3330.7	875.1	765.3	881.8	971.6	875.1	791.9	791.9	781.9
65°	11349.8	9137.0	2605.4	768.6	725.4	865.1	948.3	841.8	775.3	798.6	785.3
67.5°	11416.3	8927.4	1750.2	685.4	692.1	835.2	895.1	811.9	758.6	818.5	798.6
70°	11007.0	8381.7	1071.4	622.2	648.8	781.9	848.5	781.9	735.4	801.9	772.0
72.5°	9945.6	7363.5	755.3	569.0	602.3	732.0	805.2	755.3	702.1	725.4	695.4
75°	8158.8	5706.5	598.9	519.1	555.7	685.4	768.6	715.4	662.2	652.2	632.2
77.5°	5779.7	3656.8	482.5	479.1	505.8	628.9	718.7	668.8	615.6	595.6	582.3
80°	3324.1	1793.5	415.9	432.6	459.2	572.3	658.8	615.6	565.7	535.7	515.7
82.5°	1271.1	625.6	366.0	376.0	405.9	512.4	598.9	562.3	512.4	539.0	452.5
85°	412.6	342.7	299.5	309.4	339.4	425.9	529.1	499.1	442.5	392.6	362.7
87.5°	183.0	186.3	159.7	176.4	213.0	282.8	386.0	366.0	322.8	269.5	259.5
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)