

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: P400394

Luminaire Tested: **ARCH-L-PA3-270-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400394
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-PA3-270-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25945 lumens
Efficiency: N/A
Efficacy: 95.0 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

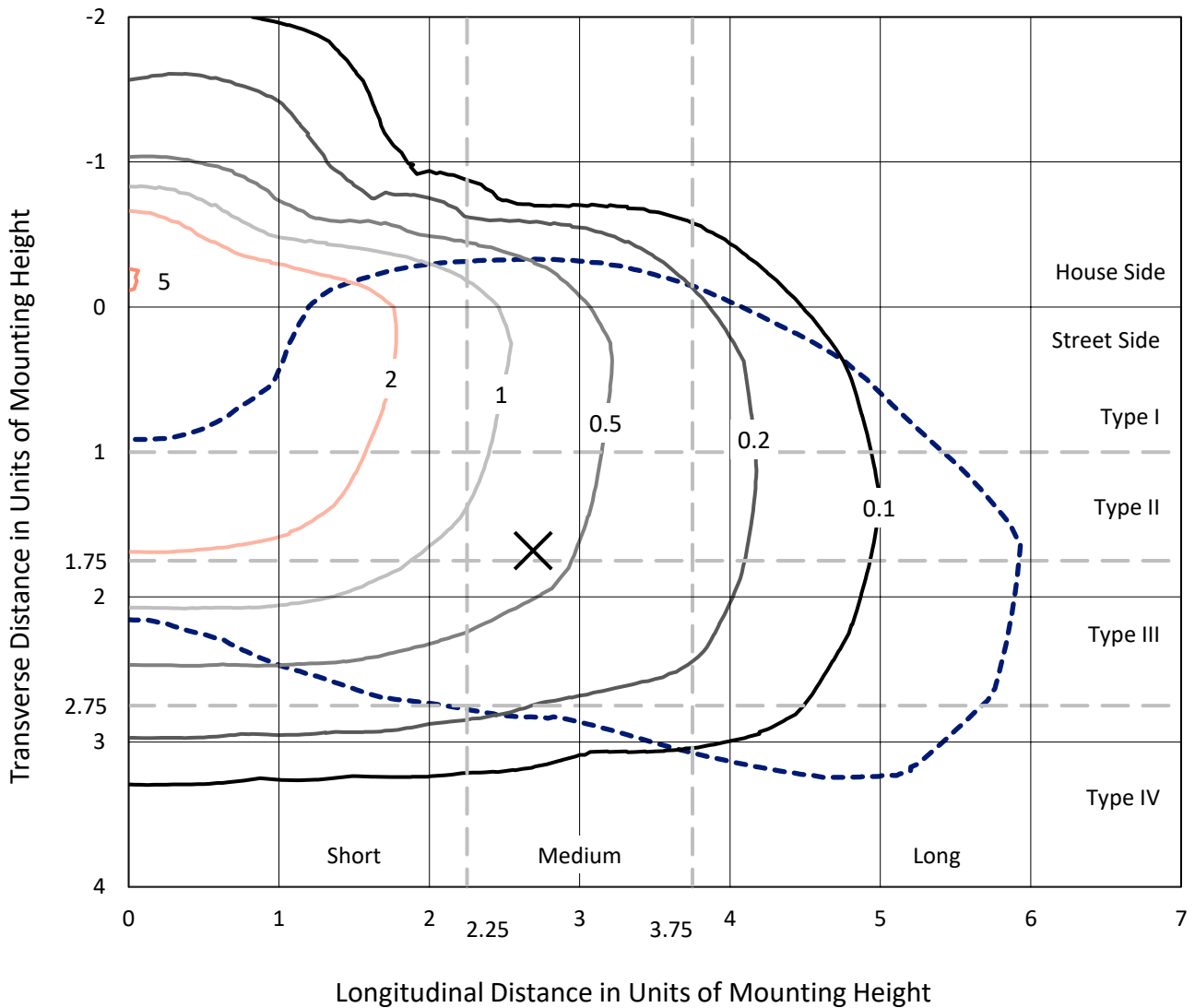
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

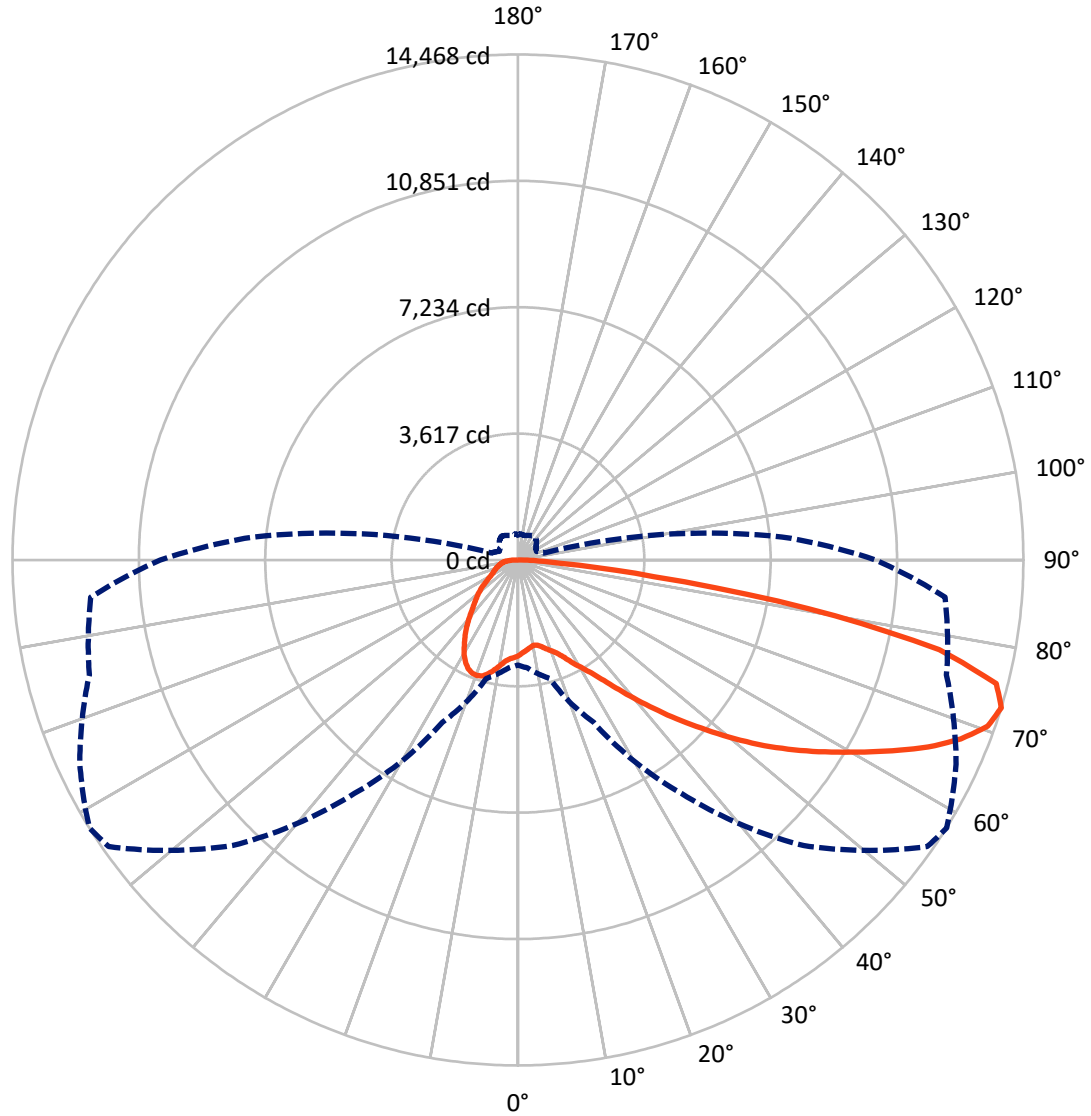
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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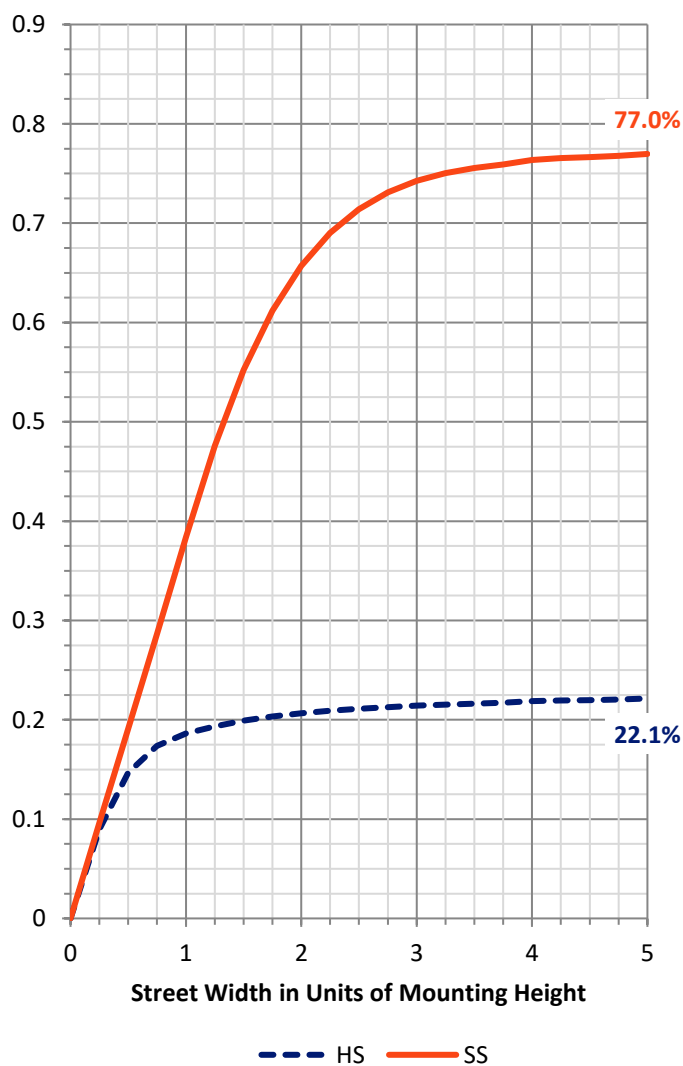
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5884.0	0.0	5884.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20061.0	0.0	20061.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	25945.0	0.0	25945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	1.0
10°-20°	837.2	3.2
20°-30°	1499.7	5.8
30°-40°	2256.0	8.7
40°-50°	3653.2	14.1
50°-60°	5499.3	21.2
60°-70°	6472.1	24.9
70°-80°	4589.3	17.7
80°-90°	874.5	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°	25945.0	100.0
0°-180°	25945.0	100.0

Coefficient of Utilization

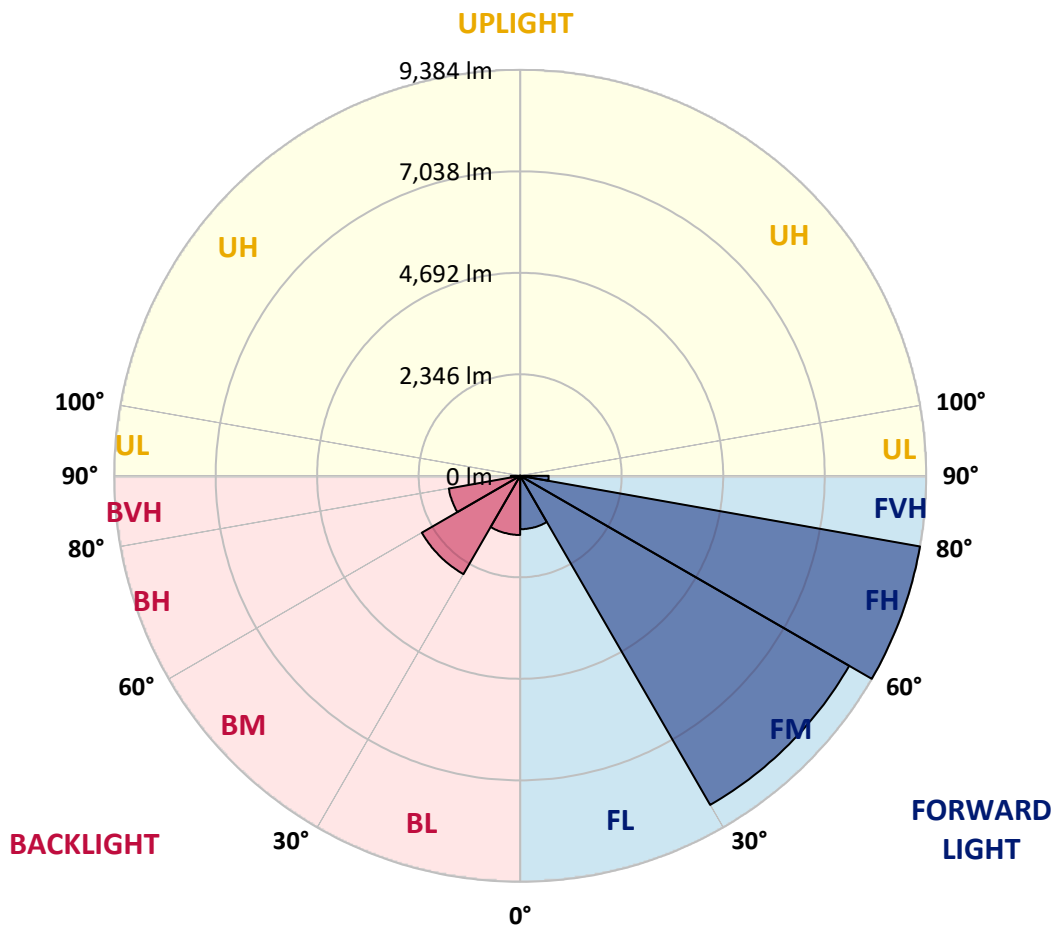


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.8	4.8			
FM (30°-60°)	8783.1	33.9			
FH (60°-80°)	9384.4	36.2			G4/12000
FVH (80°-90°)	659.6	2.5			G4/750
BL (0°-30°)	1366.8	5.3	B3/2500		
BM (30°-60°)	2625.4	10.1	B3/5000		
BH (60°-80°)	1677.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	214.9	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°	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6
2.5°	2633.9	2620.2	2623.6	2623.6	2637.3	2644.2	2647.6	2657.9	2664.7	2681.8	2705.8
5°	2510.6	2500.3	2503.7	2507.2	2531.1	2555.1	2575.7	2589.4	2609.9	2637.3	2671.6
7.5°	2421.5	2414.7	2418.1	2425.0	2445.5	2472.9	2507.2	2527.7	2558.5	2609.9	2668.1
10°	2356.5	2356.5	2359.9	2373.6	2394.1	2428.4	2455.8	2479.8	2541.4	2633.9	2722.9
12.5°	2305.1	2305.1	2315.4	2342.8	2377.0	2411.3	2476.3	2503.7	2585.9	2712.7	2818.8
15°	2301.7	2305.1	2308.5	2332.5	2370.2	2445.5	2541.4	2582.5	2681.8	2832.5	2955.9
17.5°	2356.5	2359.9	2346.2	2353.0	2397.6	2503.7	2630.5	2678.4	2805.1	2969.6	3096.3
20°	2524.3	2524.3	2483.2	2445.5	2476.3	2592.8	2736.6	2784.6	2925.0	3106.6	3233.3
22.5°	2866.8	2883.9	2788.0	2705.8	2657.9	2722.9	2853.1	2904.5	3062.0	3257.3	3384.0
25°	3281.2	3298.4	3168.2	3051.8	2962.7	2952.4	3038.1	3092.9	3223.0	3425.1	3531.3
27.5°	3682.0	3651.1	3531.3	3421.7	3308.6	3216.2	3281.2	3329.2	3479.9	3634.0	3699.1
30°	3997.1	3973.1	3856.6	3777.9	3671.7	3551.8	3514.1	3565.5	3688.8	3832.7	3866.9
32.5°	4346.4	4329.3	4212.9	4110.1	4021.1	3908.0	3825.8	3849.8	3918.3	4021.1	4041.6
35°	4791.7	4829.4	4706.1	4497.1	4397.8	4288.2	4230.0	4236.8	4288.2	4353.3	4319.0
37.5°	5260.9	5305.5	5312.3	4983.5	4849.9	4750.6	4688.9	4712.9	4774.6	4819.1	4712.9
40°	6130.9	6086.4	5908.3	5665.1	5459.6	5363.7	5278.1	5274.6	5319.2	5397.9	5206.1
42.5°	7285.2	7244.1	6884.4	6569.3	6243.9	6134.3	5966.5	5894.6	5915.1	6014.5	5747.3
45°	8391.5	8374.3	8086.6	7720.2	7329.7	7117.3	6733.7	6559.0	6541.9	6620.7	6302.2
47.5°	9374.5	9299.1	9090.2	8805.9	8764.8	8209.9	7504.4	7268.0	7185.8	7230.4	6874.2
50°	10426.0	10169.1	9881.4	9706.7	10004.7	9487.5	8281.9	8035.3	7833.2	7864.0	7494.1
52.5°	10984.3	10552.7	10364.3	10415.7	10816.4	10617.8	9127.9	8826.5	8501.1	8545.6	8110.6
55°	10504.7	10501.3	10583.5	10902.1	11460.3	11230.9	9932.8	9593.7	9237.5	9247.7	8819.6
57.5°	9847.1	9980.7	10405.4	11107.6	12258.4	11874.8	10724.0	10364.3	10038.9	9987.6	9624.5
60°	9247.7	9395.0	10011.5	11073.3	12535.8	12463.9	11477.5	11162.4	10898.6	10747.9	10470.5
62.5°	8336.7	8446.3	9319.7	10854.1	12302.9	12888.6	12241.3	12025.5	11826.8	11515.1	11381.6
65°	7264.6	7302.3	8223.6	10131.4	12011.8	13053.0	13001.6	12905.7	12713.9	12255.0	12282.4
67.5°	6103.5	6178.9	6987.2	8977.2	11374.7	12977.7	13590.8	13669.5	13443.5	12755.0	12857.8
70°	4867.1	4959.5	5572.6	7381.1	10292.4	12652.3	14135.3	14262.1	13827.1	12919.4	12964.0
72.5°	3010.7	3099.7	3510.7	5127.4	8158.6	11559.7	14303.2	14467.6	13837.4	12700.2	12272.1
75°	1041.2	1051.5	1373.5	2459.2	4843.1	8727.1	13755.2	14142.2	13402.4	11902.2	10679.4
77.5°	476.1	493.2	609.7	1013.8	2147.5	4709.5	11357.6	12326.9	12080.3	10655.5	8220.2
80°	328.8	335.7	421.3	606.2	1239.9	1657.7	7168.7	8432.6	8864.1	8251.0	5267.8
82.5°	246.6	253.5	325.4	411.0	893.9	804.9	2729.8	3918.3	4870.5	4781.4	2202.3
85°	236.3	232.9	253.5	274.0	596.0	479.5	883.7	1212.5	1900.9	1626.9	554.9
87.5°	102.8	113.0	260.3	154.1	311.7	222.6	383.6	448.7	578.8	503.5	198.7
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°	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6	2736.6
2.5°	2716.1	2722.9	2743.5	2774.3	2791.4	2825.7	2849.7	2863.4	2873.6	2877.1	2877.1
5°	2692.1	2705.8	2750.3	2801.7	2849.7	2921.6	2986.7	3024.4	3051.8	3062.0	3065.5
7.5°	2699.0	2733.2	2798.3	2873.6	2935.3	3027.8	3106.6	3181.9	3243.6	3267.5	3267.5
10°	2764.0	2812.0	2901.1	3000.4	3079.2	3175.1	3257.3	3322.3	3394.3	3435.4	3442.2
12.5°	2863.4	2921.6	3038.1	3147.7	3236.7	3312.1	3387.4	3435.4	3469.6	3500.4	3507.3
15°	3003.8	3075.7	3192.2	3305.2	3384.0	3431.9	3452.5	3452.5	3449.1	3452.5	3459.3
17.5°	3144.2	3212.7	3329.2	3442.2	3479.9	3452.5	3428.5	3421.7	3418.2	3411.4	3414.8
20°	3281.2	3346.3	3445.6	3531.3	3500.4	3404.5	3373.7	3370.3	3360.0	3353.2	3346.3
22.5°	3418.2	3466.2	3548.4	3579.2	3455.9	3318.9	3281.2	3260.7	3247.0	3229.9	3212.7
25°	3575.8	3589.5	3651.1	3603.2	3346.3	3161.4	3106.6	3075.7	3062.0	3044.9	3031.2
27.5°	3723.1	3723.1	3733.3	3565.5	3185.3	2952.4	2870.2	2815.4	2812.0	2808.6	2805.1
30°	3856.6	3839.5	3805.3	3452.5	2976.4	2695.5	2572.2	2517.4	2538.0	2555.1	2558.5
32.5°	4014.2	3980.0	3884.1	3298.4	2726.4	2407.8	2257.1	2233.2	2257.1	2277.7	2264.0
35°	4260.8	4199.2	3966.3	3120.3	2486.6	2144.1	2000.3	1966.0	1959.2	1955.7	1928.3
37.5°	4613.6	4507.4	4031.3	2928.5	2250.3	1911.2	1805.0	1733.1	1668.0	1599.5	1589.2
40°	5045.2	4863.6	4075.9	2709.2	2000.3	1716.0	1602.9	1510.5	1400.9	1281.0	1267.3
42.5°	5517.8	5247.2	4096.4	2466.1	1781.0	1555.0	1414.6	1298.1	1174.8	1082.3	1065.2
45°	6028.2	5661.7	4079.3	2233.2	1602.9	1418.0	1260.4	1133.7	1034.4	969.3	955.6
47.5°	6524.8	6137.8	4031.3	2048.2	1465.9	1301.5	1140.6	1024.1	948.7	876.8	859.7
50°	7161.9	6593.3	3973.1	1904.3	1315.2	1185.1	1065.2	941.9	856.3	822.0	815.2
52.5°	7867.4	7048.8	3904.6	1722.8	1168.0	1092.6	1017.3	907.6	880.2	815.2	804.9
55°	8631.2	7590.0	3890.9	1493.3	1037.8	1027.5	969.3	938.5	945.3	815.2	798.0
57.5°	9436.1	8168.8	3921.7	1263.9	931.6	969.3	989.9	965.9	955.6	832.3	798.0
60°	10275.3	8727.1	3829.2	1051.5	849.4	921.3	1013.8	952.2	876.8	825.4	801.5
62.5°	11090.4	9196.4	3428.5	900.8	787.8	907.6	1000.1	900.8	815.2	815.2	804.9
65°	11683.0	9405.3	2681.8	791.2	746.7	890.5	976.2	866.5	798.0	822.0	808.3
67.5°	11751.5	9189.5	1801.6	705.6	712.4	859.7	921.3	835.7	780.9	842.6	822.0
70°	11330.2	8627.8	1102.9	640.5	667.9	804.9	873.4	804.9	756.9	825.4	794.6
72.5°	10237.6	7579.7	777.5	585.7	619.9	753.5	828.9	777.5	722.7	746.7	715.8
75°	8398.3	5874.0	616.5	534.3	572.0	705.6	791.2	736.4	681.6	671.3	650.8
77.5°	5949.4	3764.2	496.6	493.2	520.6	647.3	739.8	688.4	633.6	613.1	599.4
80°	3421.7	1846.1	428.1	445.3	472.7	589.1	678.2	633.6	582.3	551.4	530.9
82.5°	1308.4	643.9	376.8	387.0	417.9	527.5	616.5	578.8	527.5	554.9	465.8
85°	424.7	352.8	308.3	318.5	349.4	438.4	544.6	513.8	455.5	404.2	373.3
87.5°	188.4	191.8	164.4	181.5	219.2	291.1	397.3	376.8	332.2	277.4	267.2
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)