

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: P399775

Luminaire Tested: **ARCH-L-PA3-190-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23050 lumens
Efficiency: N/A
Efficacy: 122.0 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

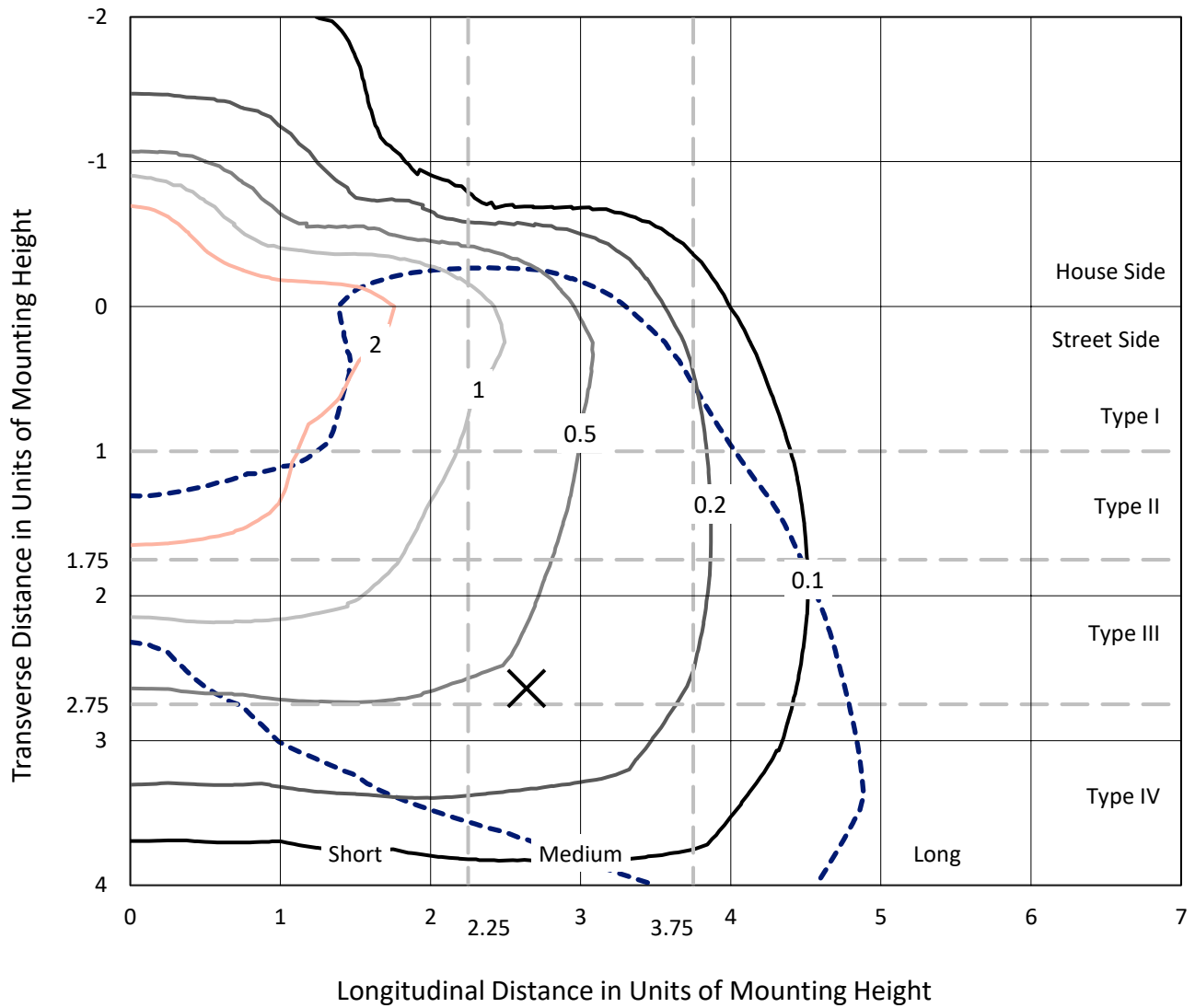
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

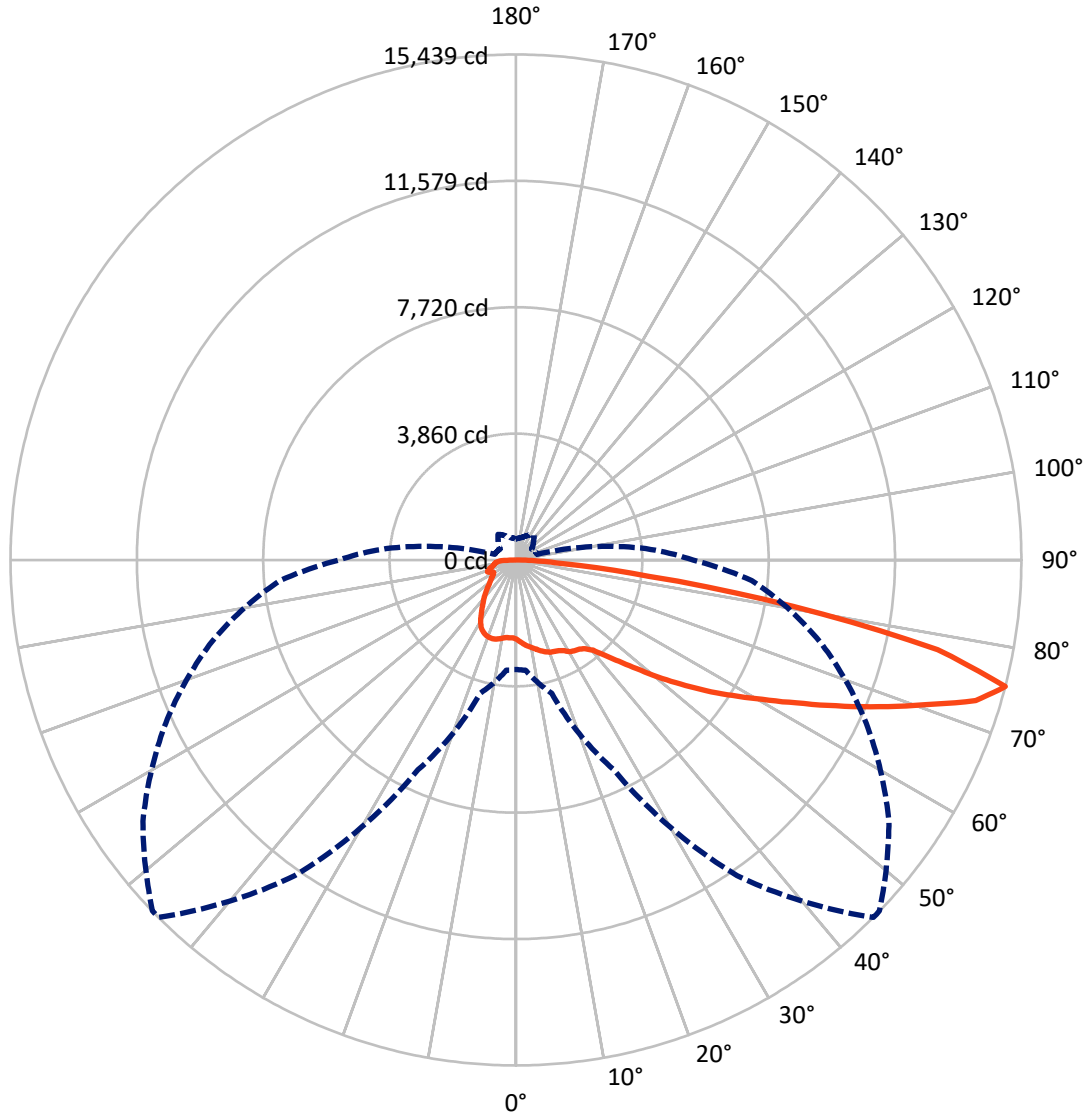
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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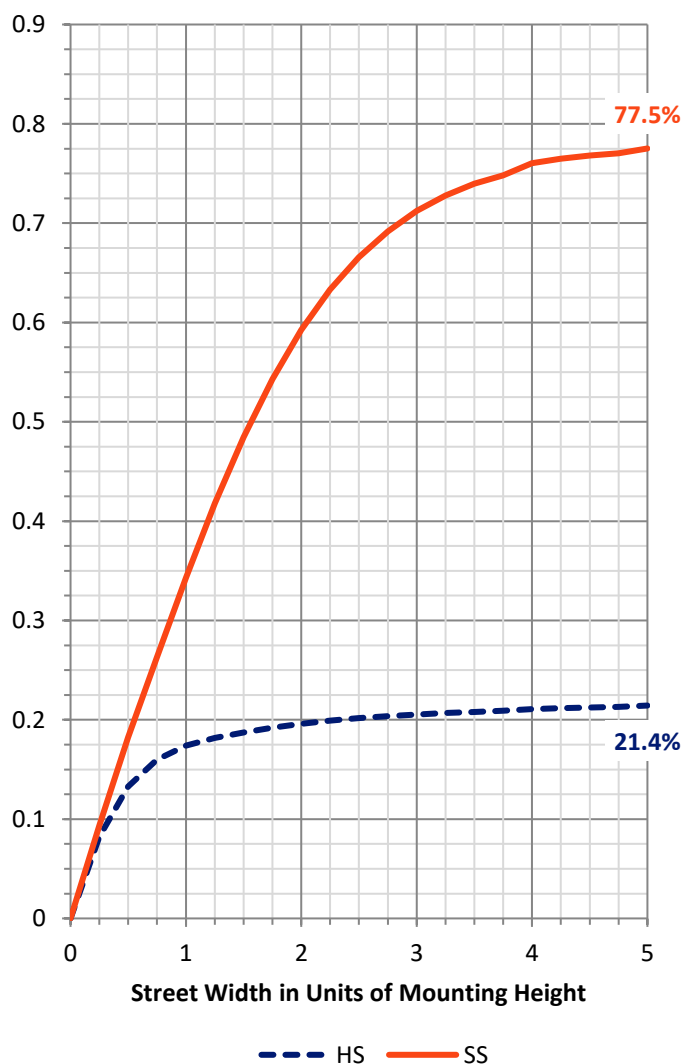
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5093.9	0.0	5093.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17956.1	0.0	17956.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	23050.0	0.0	23050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	1.0
10°-20°	761.9	3.3
20°-30°	1298.9	5.6
30°-40°	1819.9	7.9
40°-50°	2673.7	11.6
50°-60°	4255.2	18.5
60°-70°	6053.1	26.3
70°-80°	5068.2	22.0
80°-90°	879.6	3.8
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°	23050.0	100.0
0°-180°	23050.0	100.0

Coefficient of Utilization



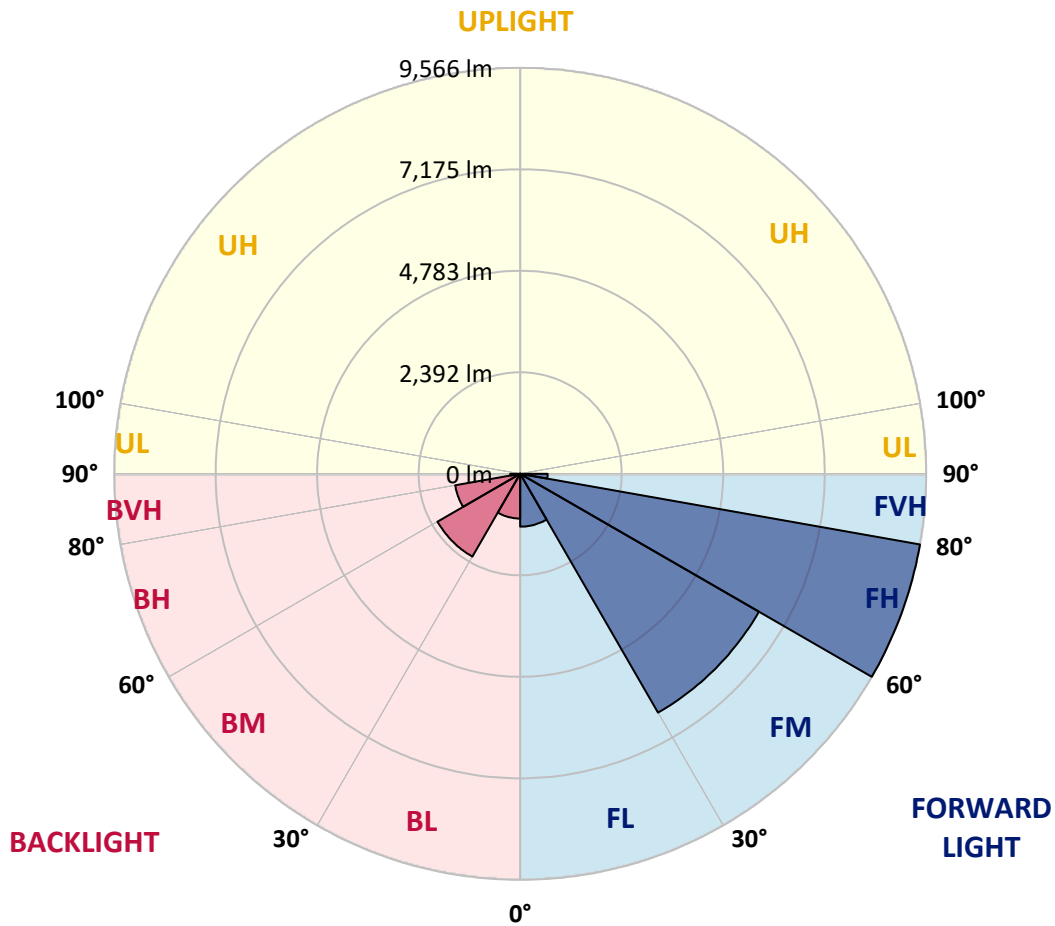
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.0	5.4			
FM (30°-60°)	6497.1	28.2			
FH (60°-80°)	9566.3	41.5			G4/12000
FVH (80°-90°)	646.6	2.8			G4/750
BL (0°-30°)	1054.3	4.6	B3/2500		
BM (30°-60°)	2251.8	9.8	B2/2500		
BH (60°-80°)	1555.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	232.9	1.0			G3/500
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°	46°	55°	65°	75°	85°
0°	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8
2.5°	2559.3	2547.0	2540.9	2540.9	2516.2	2500.8	2497.8	2476.2	2457.7	2439.2	2423.8
5°	2707.2	2697.9	2679.5	2664.1	2630.2	2587.1	2580.9	2534.7	2488.5	2445.4	2408.4
7.5°	2842.7	2824.2	2802.7	2771.9	2716.4	2657.9	2648.7	2584.0	2519.3	2454.6	2405.4
10°	2956.6	2938.2	2907.4	2864.3	2793.4	2722.6	2713.3	2645.6	2577.8	2500.8	2430.0
12.5°	3064.4	3049.0	3002.8	2944.3	2861.2	2796.5	2787.3	2728.7	2657.9	2571.7	2479.3
15°	3156.8	3141.4	3092.2	3024.4	2928.9	2879.7	2867.3	2811.9	2741.1	2648.7	2553.2
17.5°	3203.0	3203.0	3150.7	3076.8	2987.4	2950.5	2941.2	2873.5	2808.8	2719.5	2624.0
20°	3218.4	3224.6	3187.6	3098.3	3021.3	3005.9	2996.7	2941.2	2867.3	2781.1	2691.8
22.5°	3227.7	3240.0	3209.2	3107.6	3042.9	3033.6	3027.5	2990.5	2932.0	2848.9	2759.5
25°	3258.5	3258.5	3236.9	3123.0	3070.6	3067.5	3067.5	3046.0	3005.9	2935.1	2845.8
27.5°	3304.7	3301.6	3273.9	3156.8	3132.2	3141.4	3138.4	3135.3	3107.6	3036.7	2941.2
30°	3381.7	3381.7	3350.9	3224.6	3209.2	3249.2	3252.3	3258.5	3215.4	3104.5	3027.5
32.5°	3498.7	3486.4	3455.6	3292.3	3267.7	3304.7	3310.8	3307.7	3270.8	3166.1	3129.1
35°	3859.0	3831.3	3720.4	3443.3	3320.1	3341.6	3344.7	3360.1	3366.3	3283.1	3264.6
37.5°	4490.4	4453.4	4284.1	3800.5	3486.4	3434.0	3430.9	3471.0	3504.9	3430.9	3430.9
40°	5177.2	5146.4	5047.9	4416.5	3794.4	3621.9	3609.6	3646.5	3689.6	3637.3	3652.7
42.5°	5768.5	5793.2	5802.4	5069.4	4256.3	3973.0	3939.1	3886.8	3954.5	3908.3	3969.9
45°	6212.0	6199.7	6369.1	5737.7	4853.8	4413.4	4367.2	4225.5	4311.8	4308.7	4444.2
47.5°	6683.3	6661.7	6732.5	6366.0	5534.5	4952.4	4881.5	4672.1	4801.5	4890.8	5115.6
50°	7129.8	7136.0	7160.6	6861.9	6273.6	5608.4	5519.1	5238.8	5423.6	5611.5	5928.7
52.5°	7711.9	7668.8	7638.0	7440.9	7102.1	6292.1	6233.6	5913.3	6172.0	6393.7	6815.7
55°	8220.1	8192.4	8173.9	8164.7	7795.1	7046.7	6985.1	6652.5	7025.1	7182.2	7804.3
57.5°	8762.1	8746.7	8845.3	9002.4	8854.5	7813.6	7748.9	7428.6	7844.4	7955.2	8876.1
60°	9159.4	9168.7	9439.7	9840.1	9738.5	8645.1	8568.1	8284.8	8642.0	8740.6	9947.9
62.5°	9162.5	9254.9	9883.2	10600.8	10717.8	9602.9	9513.6	9205.6	9461.3	9461.3	10908.8
65°	8287.8	8392.6	9803.1	10788.7	11709.6	10742.5	10656.2	10172.7	10268.2	10138.8	11811.2
67.5°	7416.3	7539.4	8866.9	10804.1	12405.6	11962.1	11860.5	11139.8	10976.6	10650.1	12442.6
70°	6837.2	6923.5	8032.2	10603.9	12824.5	13237.2	13160.2	12057.6	11534.0	11078.2	12310.1
72.5°	5756.2	5725.4	6784.9	9652.2	13058.5	14684.7	14620.0	13055.4	12017.5	10874.9	10499.2
75°	3341.6	3378.6	4210.1	7071.3	11771.1	15439.2	15433.1	13908.6	11805.0	9606.0	7234.5
77.5°	964.0	991.7	1382.8	3107.6	7444.0	13169.4	13591.3	12719.7	9978.7	6846.5	3751.2
80°	421.9	443.5	600.6	1034.8	3206.1	8602.0	8971.6	8602.0	6018.0	3141.4	1472.2
82.5°	249.5	264.9	391.1	640.6	1536.8	4093.1	4592.0	4010.0	2596.3	1333.6	609.8
85°	141.7	147.8	224.8	406.5	967.1	1432.1	1607.7	1506.0	1265.8	757.6	320.3
87.5°	64.7	67.8	110.9	191.0	542.1	483.5	502.0	665.2	733.0	462.0	160.2
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°	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8
2.5°	2417.7	2408.4	2390.0	2383.8	2374.6	2377.6	2380.7	2380.7	2383.8	2374.6	2374.6
5°	2393.0	2377.6	2359.2	2359.2	2359.2	2383.8	2405.4	2417.7	2423.8	2423.8	2417.7
7.5°	2383.8	2365.3	2343.8	2349.9	2356.1	2386.9	2426.9	2467.0	2479.3	2479.3	2473.1
10°	2402.3	2383.8	2368.4	2377.6	2393.0	2417.7	2448.5	2485.4	2516.2	2519.3	2516.2
12.5°	2445.4	2423.8	2408.4	2426.9	2445.4	2460.8	2476.2	2491.6	2531.6	2537.8	2537.8
15°	2516.2	2494.7	2476.2	2491.6	2497.8	2497.8	2497.8	2497.8	2537.8	2543.9	2543.9
17.5°	2587.1	2568.6	2550.1	2553.2	2534.7	2510.1	2500.8	2497.8	2519.3	2537.8	2540.9
20°	2654.8	2639.4	2620.9	2590.1	2543.9	2497.8	2482.4	2482.4	2494.7	2522.4	2522.4
22.5°	2728.7	2710.3	2679.5	2608.6	2531.6	2467.0	2451.6	2460.8	2476.2	2513.1	2510.1
25°	2811.9	2787.3	2734.9	2602.5	2491.6	2414.6	2417.7	2445.4	2473.1	2513.1	2513.1
27.5°	2904.3	2870.4	2765.7	2553.2	2402.3	2328.4	2356.1	2420.8	2460.8	2503.9	2510.1
30°	3005.9	2975.1	2790.3	2467.0	2257.5	2189.8	2257.5	2362.2	2423.8	2463.9	2473.1
32.5°	3129.1	3104.5	2811.9	2356.1	2069.7	2011.1	2109.7	2239.0	2337.6	2383.8	2393.0
35°	3283.1	3258.5	2839.6	2229.8	1894.1	1832.5	1921.8	2054.3	2183.6	2242.1	2260.6
37.5°	3483.3	3446.3	2864.3	2094.3	1746.3	1675.4	1718.6	1838.7	1955.7	2035.8	2057.3
40°	3738.9	3680.4	2885.8	1940.3	1616.9	1536.8	1552.2	1610.8	1678.5	1749.3	1777.1
42.5°	4099.3	3982.2	2888.9	1777.1	1484.5	1410.6	1404.4	1422.9	1422.9	1422.9	1432.1
45°	4601.3	4379.5	2895.0	1623.1	1349.0	1272.0	1253.5	1247.3	1201.1	1111.8	1105.7
47.5°	5235.7	4900.0	2922.8	1493.7	1207.3	1139.5	1114.9	1090.3	1004.0	911.6	893.2
50°	6048.8	5503.7	2978.2	1370.5	1087.2	1041.0	1010.2	951.7	856.2	785.4	766.9
52.5°	6985.1	6221.3	3030.6	1241.2	997.9	967.1	930.1	859.3	757.6	714.5	708.4
55°	8059.9	7022.0	3135.3	1127.2	920.9	899.3	865.4	797.7	720.7	689.9	686.8
57.5°	9159.4	7918.3	3283.1	1025.6	847.0	834.6	834.6	776.1	726.8	714.5	714.5
60°	10218.9	8688.2	3169.2	930.1	779.2	785.4	843.9	828.5	791.5	806.9	816.2
62.5°	11041.2	9141.0	2571.7	853.1	729.9	785.4	936.3	936.3	893.2	887.0	887.0
65°	11392.3	9134.8	1807.9	794.6	711.4	862.4	1044.1	994.8	880.8	837.7	828.5
67.5°	11303.0	8734.4	1247.3	754.6	705.3	942.4	1093.3	954.8	825.4	788.4	760.7
70°	10517.7	7887.5	960.9	717.6	696.0	908.6	1077.9	908.6	782.3	748.4	723.8
72.5°	8485.0	6326.0	797.7	680.6	659.1	840.8	1025.6	865.4	748.4	711.4	686.8
75°	5411.3	3979.2	674.5	631.4	588.2	754.6	954.8	822.3	711.4	662.2	643.7
77.5°	2602.5	1715.5	588.2	572.9	529.7	699.1	883.9	766.9	662.2	622.1	609.8
80°	1053.3	785.4	511.3	514.3	486.6	665.2	834.6	714.5	612.9	569.8	548.2
82.5°	548.2	455.8	431.2	443.5	443.5	634.4	797.7	671.4	569.8	551.3	480.5
85°	295.7	283.3	332.6	357.3	385.0	572.9	742.2	625.2	520.5	446.6	431.2
87.5°	144.8	184.8	187.9	215.6	267.9	458.9	625.2	523.6	434.3	360.3	354.2
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)