

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: P842597

Luminaire Tested: **ARCH4-70-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12435 lumens
Efficiency: N/A
Efficacy: 168.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

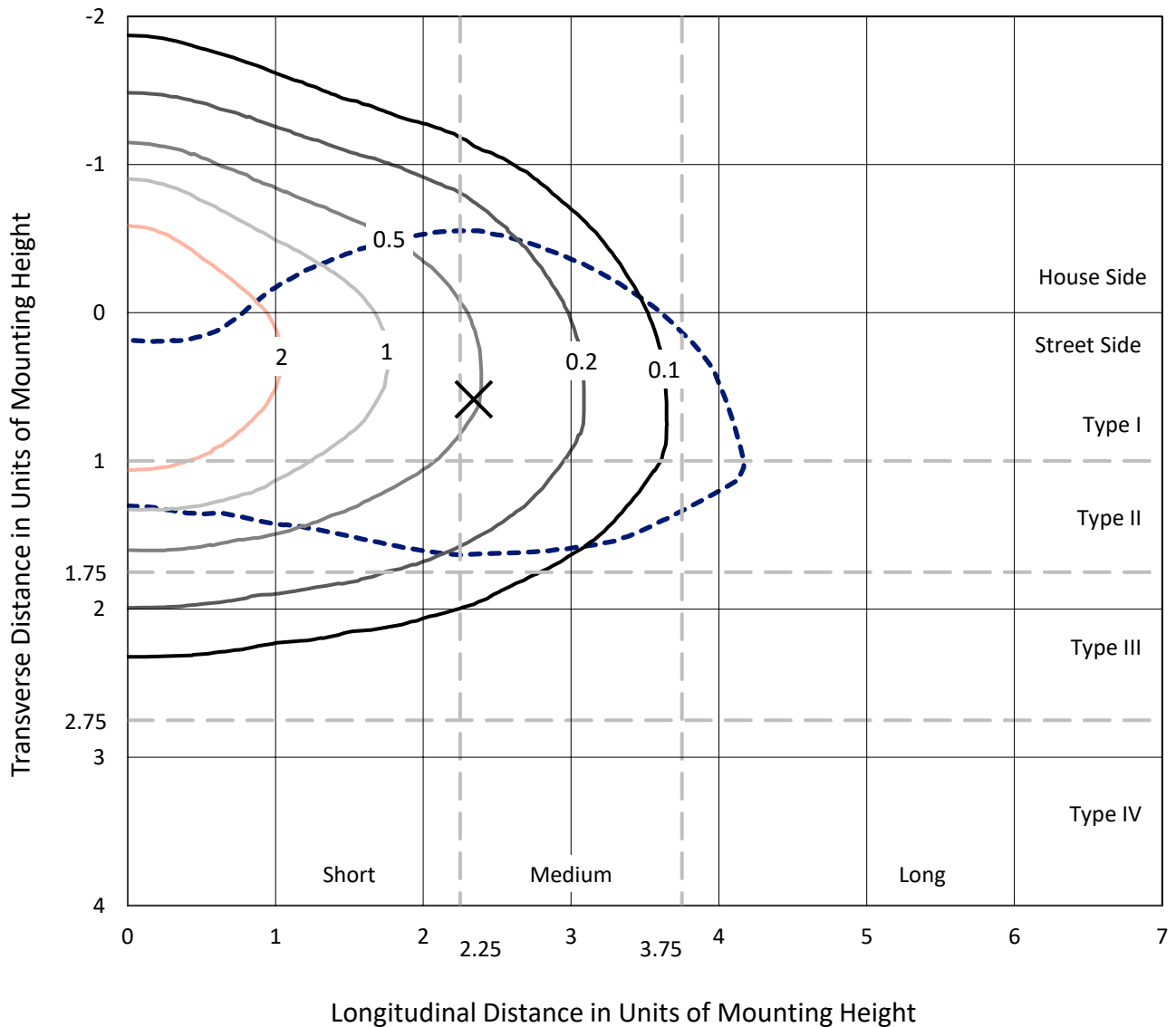
Input Watts (W): 73.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

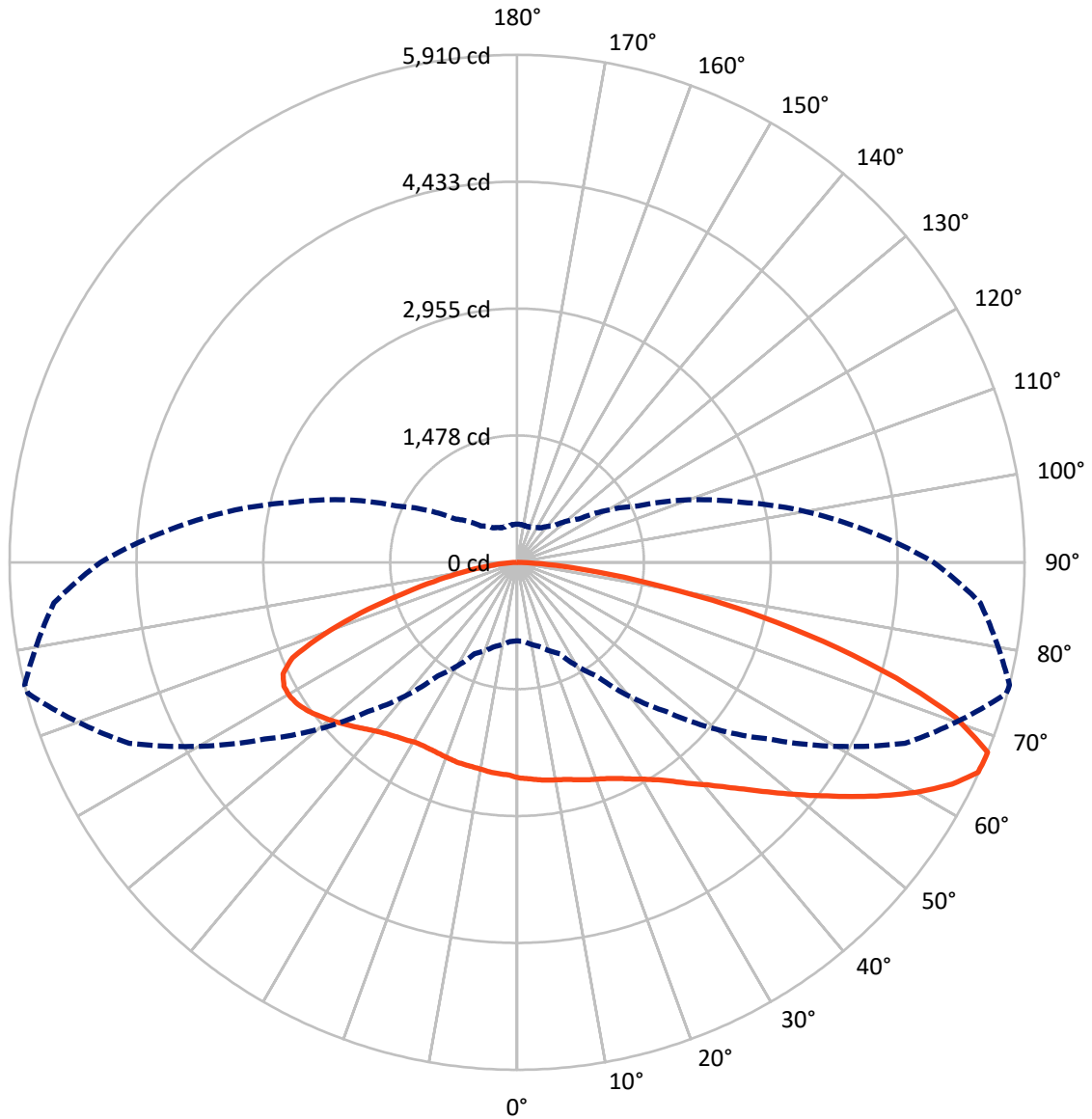
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ARCH4-70-727-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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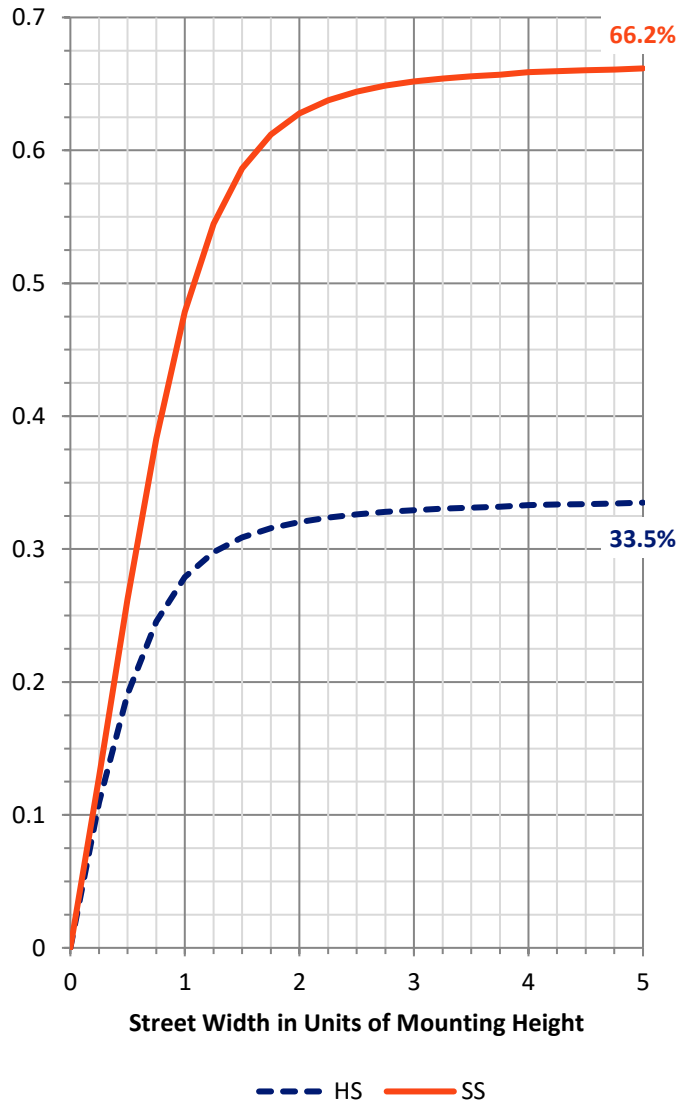
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4201.8	0.0	4201.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8233.2	0.0	8233.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	12435.0	0.0	12435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.9
10°-20°	740.5	6.0
20°-30°	1258.1	10.1
30°-40°	1790.1	14.4
40°-50°	2260.8	18.2
50°-60°	2447.8	19.7
60°-70°	2276.7	18.3
70°-80°	1222.8	9.8
80°-90°	195.9	1.6
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°	12435.0	100.0
0°-180°	12435.0	100.0

Coefficient of Utilization

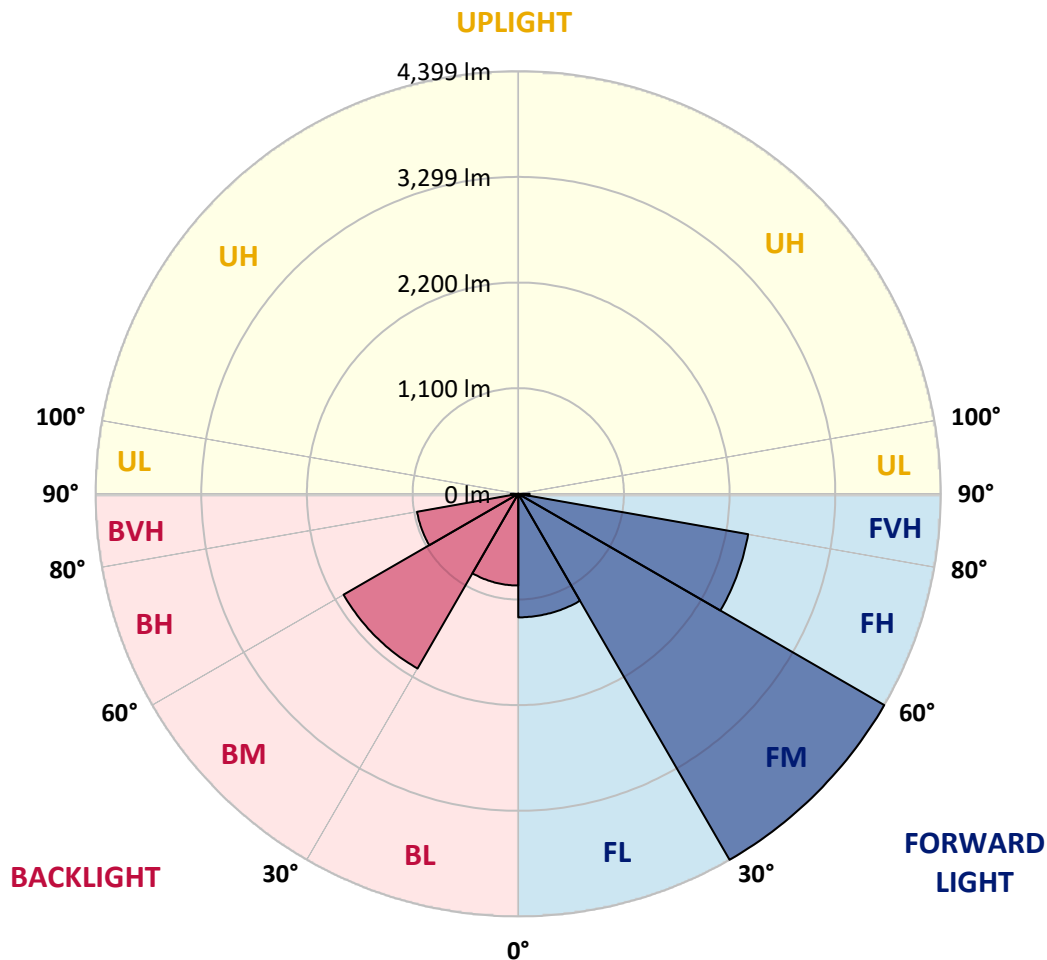


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.9	10.3			
FM (30°-60°)	4399.0	35.4			
FH (60°-80°)	2429.7	19.5			G2/5000
FVH (80°-90°)	118.5	1.0			G2/225
BL (0°-30°)	954.9	7.7	B2/1000		
BM (30°-60°)	2099.7	16.9	B2/2500		
BH (60°-80°)	1069.8	8.6	B3/2500		G3/2500
BVH (80°-90°)	77.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8
2.5°	2588.0	2583.4	2564.9	2567.3	2567.3	2564.9	2537.2	2525.7	2525.7	2523.4	2498.0
5°	2680.4	2673.5	2652.7	2648.1	2638.8	2627.3	2583.4	2558.0	2546.5	2544.2	2509.5
7.5°	2788.9	2779.6	2754.3	2740.4	2717.3	2687.3	2631.9	2592.6	2564.9	2562.6	2514.2
10°	2897.4	2888.2	2858.1	2832.7	2800.4	2751.9	2680.4	2622.7	2578.8	2574.2	2516.5
12.5°	3026.7	3017.4	2980.5	2948.2	2899.7	2835.1	2740.4	2661.9	2601.9	2595.0	2523.4
15°	3162.9	3149.0	3112.1	3075.2	3015.1	2932.0	2818.9	2715.0	2638.8	2627.3	2544.2
17.5°	3276.0	3257.5	3227.5	3190.6	3123.6	3026.7	2897.4	2768.1	2673.5	2664.2	2564.9
20°	3373.0	3359.1	3326.8	3292.2	3220.6	3114.4	2971.3	2821.2	2705.8	2694.2	2581.1
22.5°	3465.3	3446.9	3428.4	3403.0	3324.5	3206.8	3056.7	2885.8	2747.3	2733.5	2601.9
25°	3571.5	3550.7	3543.8	3530.0	3437.6	3317.6	3160.6	2966.7	2805.0	2788.9	2638.8
27.5°	3703.1	3680.0	3666.2	3666.2	3555.4	3430.7	3271.4	3061.3	2872.0	2858.1	2685.0
30°	3841.6	3813.9	3793.2	3793.2	3668.5	3543.8	3379.9	3156.0	2948.2	2932.0	2745.0
32.5°	3964.0	3936.3	3913.2	3910.9	3781.6	3656.9	3493.0	3259.9	3040.5	3019.8	2818.9
35°	4058.7	4033.3	4012.5	4017.1	3894.7	3772.4	3620.0	3398.4	3156.0	3132.9	2915.9
37.5°	4116.4	4107.1	4095.6	4111.8	3998.6	3883.2	3751.6	3532.3	3287.6	3266.8	3035.9
40°	4146.4	4139.5	4185.6	4206.4	4086.4	3982.5	3883.2	3670.8	3430.7	3407.6	3174.4
42.5°	4190.3	4248.0	4266.4	4261.8	4151.0	4058.7	4003.2	3820.9	3599.2	3578.5	3340.7
45°	4033.3	4019.4	4121.0	4176.4	4155.6	4107.1	4116.4	4000.9	3795.5	3774.7	3532.3
47.5°	3823.2	3804.7	3862.4	3998.6	4079.4	4125.6	4218.0	4187.9	4021.7	4003.2	3756.2
50°	3379.9	3405.3	3620.0	3802.4	3961.7	4121.0	4303.4	4388.8	4271.1	4252.6	3996.3
52.5°	2888.2	2913.6	3137.5	3557.7	3818.6	4086.4	4365.7	4589.7	4541.2	4520.4	4252.6
55°	2530.3	2585.7	2839.7	3144.4	3615.4	3977.9	4402.7	4795.1	4832.1	4813.6	4531.9
57.5°	2174.8	2216.3	2408.0	2678.1	3338.3	3788.5	4400.3	4986.7	5136.8	5118.3	4815.9
60°	1756.9	1810.0	1962.4	2253.3	2969.0	3562.3	4335.7	5136.8	5430.0	5416.2	5090.6
62.5°	1470.6	1486.8	1595.3	1846.9	2493.4	3276.0	4190.3	5217.6	5695.5	5686.3	5337.7
65°	1184.4	1186.7	1285.9	1496.0	2033.9	2920.5	3943.2	5187.6	5896.4	5901.0	5515.4
67.5°	914.2	925.8	1015.8	1175.1	1616.1	2458.7	3590.0	4984.4	5898.7	5910.2	5413.9
70°	632.6	641.8	778.0	932.7	1249.0	1960.1	3112.1	4446.5	5413.9	5423.1	4852.8
72.5°	445.6	450.2	595.6	745.7	976.6	1477.6	2347.9	3677.7	4615.0	4622.0	4081.7
75°	332.4	337.1	420.2	565.6	748.0	1022.7	1604.5	2816.6	3687.0	3687.0	3222.9
77.5°	235.5	237.8	272.4	390.2	498.7	690.3	965.0	1844.6	2705.8	2710.4	2347.9
80°	159.3	161.6	177.8	263.2	311.7	374.0	524.1	967.3	1706.1	1713.0	1491.4
82.5°	83.1	87.7	99.3	133.9	157.0	207.8	270.1	491.7	944.2	962.7	895.8
85°	32.3	32.3	36.9	43.9	57.7	80.8	124.7	187.0	427.1	441.0	394.8
87.5°	11.5	11.5	13.9	13.9	16.2	18.5	20.8	27.7	48.5	48.5	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P842597
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8
2.5°	2488.8	2488.8	2477.2	2481.8	2479.5	2474.9	2470.3	2477.2	2470.3	2454.1	2451.8
5°	2493.4	2488.8	2470.3	2468.0	2461.1	2451.8	2440.3	2444.9	2433.3	2419.5	2417.2
7.5°	2495.7	2486.4	2461.1	2451.8	2438.0	2419.5	2401.0	2401.0	2384.9	2371.0	2368.7
10°	2491.1	2479.5	2444.9	2426.4	2401.0	2373.3	2347.9	2341.0	2322.5	2306.4	2306.4
12.5°	2493.4	2477.2	2433.3	2403.3	2368.7	2334.1	2301.8	2292.5	2276.4	2260.2	2257.9
15°	2507.2	2484.1	2428.7	2389.5	2338.7	2299.4	2264.8	2257.9	2244.0	2232.5	2232.5
17.5°	2521.1	2491.1	2421.8	2366.4	2304.1	2260.2	2227.9	2227.9	2218.6	2211.7	2211.7
20°	2528.0	2493.4	2408.0	2334.1	2262.5	2216.3	2186.3	2190.9	2188.6	2186.3	2186.3
22.5°	2544.2	2498.0	2396.4	2304.1	2218.6	2170.2	2142.5	2149.4	2147.1	2147.1	2149.4
25°	2569.6	2509.5	2387.2	2276.4	2177.1	2124.0	2094.0	2098.6	2098.6	2098.6	2098.6
27.5°	2604.2	2532.6	2384.9	2251.0	2135.5	2075.5	2038.6	2038.6	2029.3	2031.6	2033.9
30°	2657.3	2576.5	2389.5	2227.9	2091.7	2015.5	1971.6	1964.7	1962.4	1967.0	1969.3
32.5°	2721.9	2636.5	2417.2	2211.7	2045.5	1948.5	1893.1	1890.8	1883.9	1883.9	1883.9
35°	2802.7	2694.2	2442.6	2209.4	1999.3	1877.0	1816.9	1810.0	1793.8	1786.9	1786.9
37.5°	2906.6	2784.3	2472.6	2193.2	1960.1	1807.7	1736.1	1713.0	1694.6	1692.3	1692.3
40°	3033.6	2885.8	2516.5	2174.8	1918.5	1736.1	1641.5	1602.2	1604.5	1613.8	1613.8
42.5°	3183.7	3010.5	2571.9	2165.5	1858.5	1662.2	1530.7	1484.5	1500.6	1509.9	1512.2
45°	3359.1	3158.3	2634.2	2154.0	1803.1	1579.1	1412.9	1355.2	1362.1	1364.4	1366.7
47.5°	3562.3	3322.2	2698.8	2144.8	1740.7	1475.2	1283.6	1207.4	1205.1	1191.3	1195.9
50°	3774.7	3495.3	2765.8	2128.6	1664.6	1352.9	1147.4	1057.4	1038.9	1018.1	1020.4
52.5°	4000.9	3673.1	2828.1	2103.2	1569.9	1228.2	1018.1	921.2	884.2	861.1	865.8
55°	4250.3	3855.5	2888.2	2064.0	1470.6	1103.5	902.7	803.4	757.2	738.8	741.1
57.5°	4478.8	4031.0	2932.0	2015.5	1362.1	990.4	801.1	704.1	674.1	671.8	674.1
60°	4700.5	4178.7	2950.5	1948.5	1251.3	886.5	706.5	632.6	611.8	623.3	625.7
62.5°	4887.5	4273.4	2941.3	1858.5	1138.2	787.3	630.3	577.2	563.3	586.4	588.7
65°	4996.0	4303.4	2876.6	1729.2	1015.8	690.3	558.7	501.0	494.1	507.9	514.8
67.5°	4852.8	4116.4	2701.2	1551.4	879.6	600.3	489.4	443.3	431.7	443.3	443.3
70°	4301.1	3566.9	2285.6	1269.8	729.5	512.5	424.8	392.5	383.2	392.5	390.2
72.5°	3583.1	2966.7	1800.8	990.4	574.9	431.7	369.4	339.4	330.1	320.9	316.3
75°	2779.6	2253.3	1306.7	727.2	434.0	346.3	309.4	281.7	258.6	267.8	263.2
77.5°	2036.3	1581.4	925.8	503.3	311.7	267.8	242.4	221.6	205.5	223.9	221.6
80°	1311.3	1022.7	618.7	337.1	214.7	187.0	177.8	166.2	182.4	237.8	242.4
82.5°	801.1	648.7	369.4	219.3	140.8	124.7	115.4	115.4	187.0	205.5	207.8
85°	357.8	344.0	200.9	113.1	78.5	71.6	64.6	83.1	76.2	55.4	57.7
87.5°	57.7	60.0	43.9	39.2	30.0	30.0	23.1	16.2	11.5	6.9	6.9
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)