

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: P842732

Luminaire Tested: **ARCH4-90-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842732
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: ARCH4-90-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

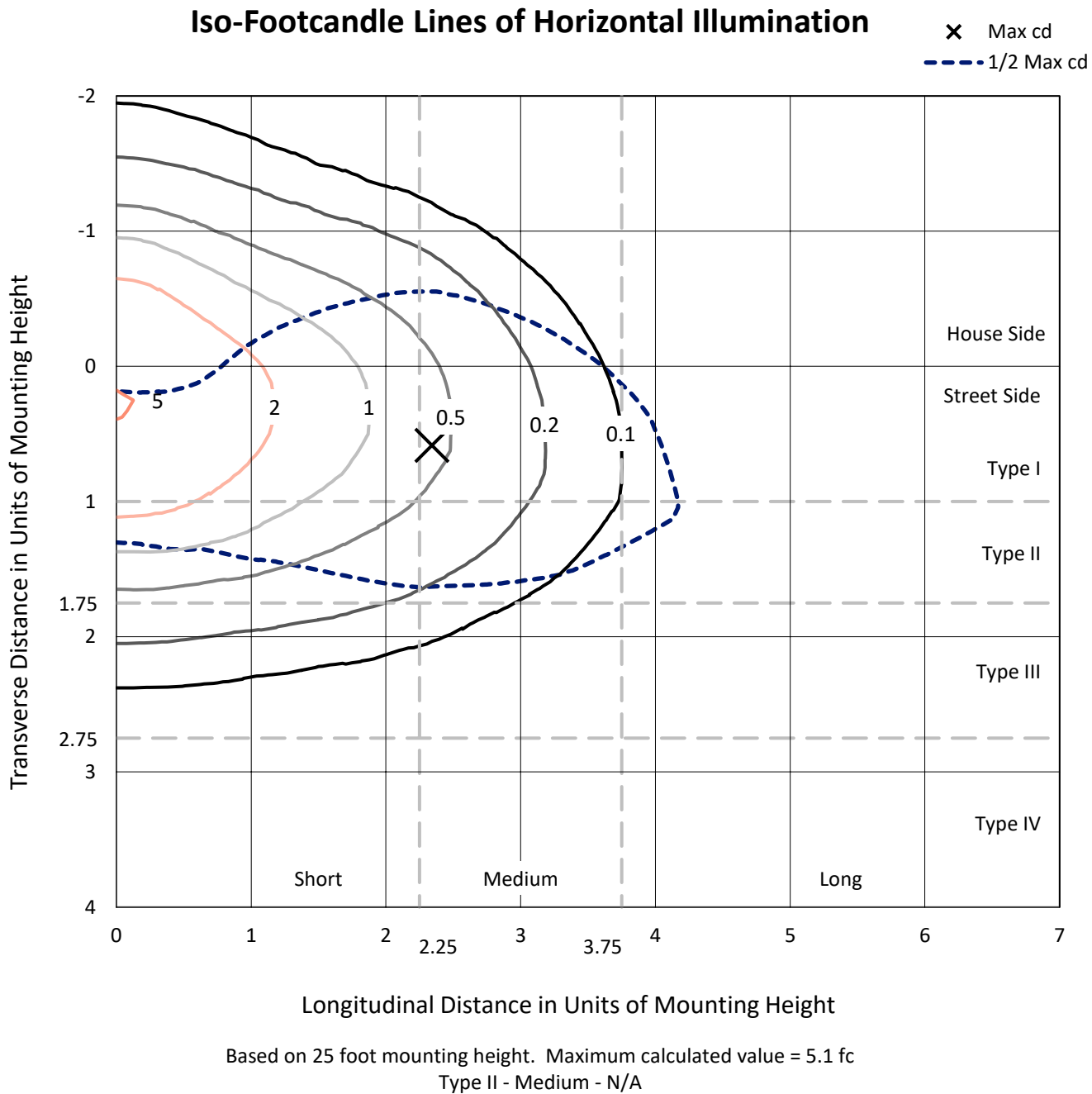
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14063 lumens
Efficiency: N/A
Efficacy: 151.1 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): 93.1
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

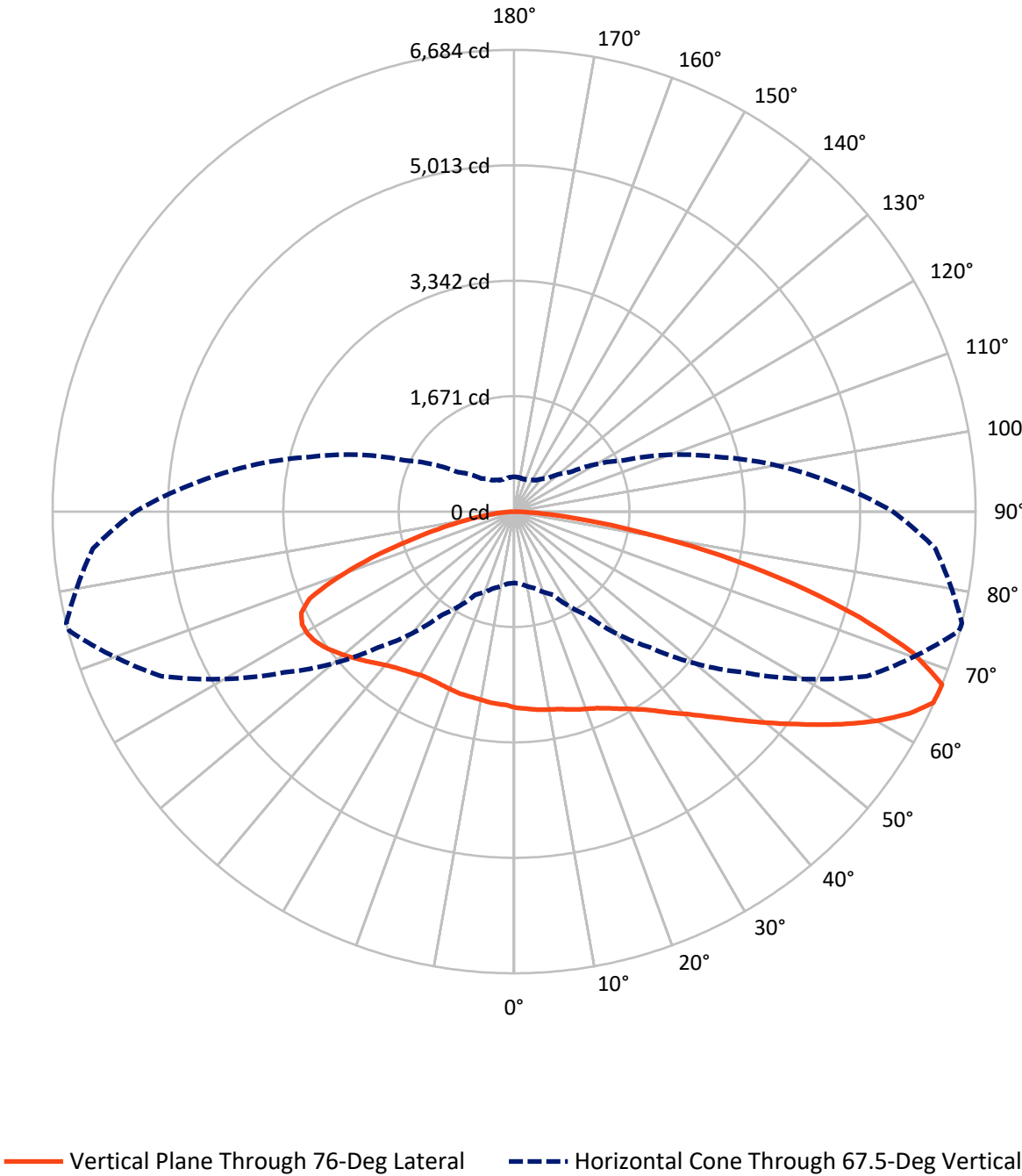


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4752.0	0.0	4752.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9311.0	0.0	9311.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	14063.0	0.0	14063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.9
10°-20°	837.4	6.0
20°-30°	1422.8	10.1
30°-40°	2024.5	14.4
40°-50°	2556.8	18.2
50°-60°	2768.3	19.7
60°-70°	2574.8	18.3
70°-80°	1382.9	9.8
80°-90°	221.6	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°	14063.0	100.0
0°-180°	14063.0	100.0

Coefficient of Utilization



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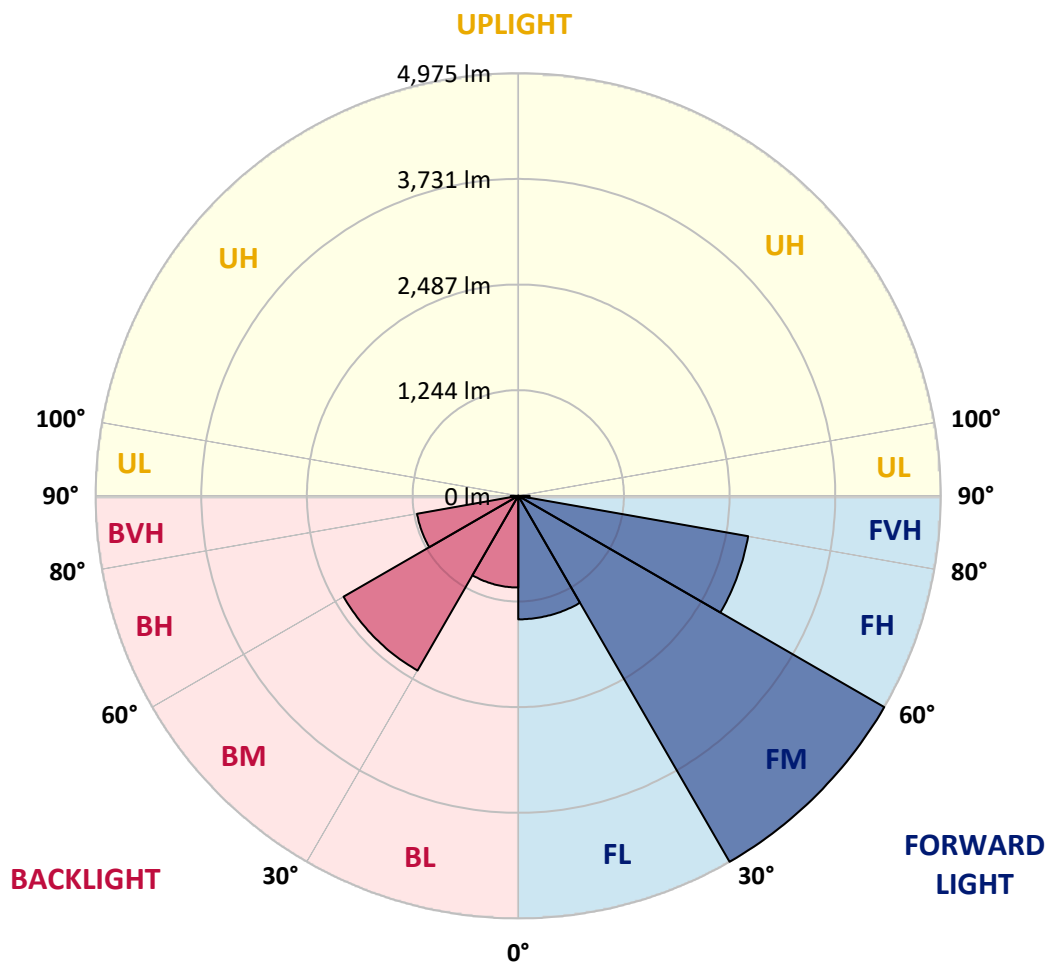
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1454.3	10.3			
FM	(30°-60°)	4974.9	35.4			
FH	(60°-80°)	2747.8	19.5			G2/5000
FVH	(80°-90°)	134.0	1.0			G2/225
BL	(0°-30°)	1079.9	7.7	B3/2500		
BM	(30°-60°)	2374.6	16.9	B2/2500		
BH	(60°-80°)	1209.9	8.6	B3/2500		G3/2500
BVH	(80°-90°)	87.5	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°	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7
2.5°	2926.9	2921.6	2900.7	2903.4	2903.4	2900.7	2869.4	2856.4	2856.4	2853.7	2825.0
5°	3031.3	3023.5	3000.0	2994.7	2984.3	2971.2	2921.6	2892.9	2879.9	2877.2	2838.1
7.5°	3154.0	3143.6	3114.8	3099.2	3073.1	3039.1	2976.5	2932.1	2900.7	2898.1	2843.3
10°	3276.7	3266.3	3232.3	3203.6	3167.1	3112.2	3031.3	2966.0	2916.4	2911.2	2845.9
12.5°	3422.9	3412.5	3370.7	3334.2	3279.3	3206.2	3099.2	3010.4	2942.5	2934.7	2853.7
15°	3577.0	3561.3	3519.5	3477.8	3409.9	3315.9	3187.9	3070.5	2984.3	2971.2	2877.2
17.5°	3704.9	3684.0	3650.1	3608.3	3532.6	3422.9	3276.7	3130.5	3023.5	3013.0	2900.7
20°	3814.6	3798.9	3762.4	3723.2	3642.3	3522.1	3360.3	3190.6	3060.0	3047.0	2919.0
22.5°	3919.0	3898.1	3877.2	3848.5	3759.7	3626.6	3456.9	3263.7	3107.0	3091.3	2942.5
25°	4039.1	4015.6	4007.8	3992.1	3887.7	3751.9	3574.4	3355.0	3172.3	3154.0	2984.3
27.5°	4187.9	4161.8	4146.2	4146.2	4020.8	3879.8	3699.7	3462.1	3248.0	3232.3	3036.5
30°	4344.6	4313.3	4289.8	4289.8	4148.8	4007.8	3822.4	3569.1	3334.2	3315.9	3104.4
32.5°	4483.0	4451.6	4425.5	4422.9	4276.7	4135.7	3950.3	3686.6	3438.6	3415.1	3187.9
35°	4590.0	4561.3	4537.8	4543.0	4404.6	4266.3	4093.9	3843.3	3569.1	3543.0	3297.6
37.5°	4655.3	4644.8	4631.8	4650.1	4522.1	4391.6	4242.8	3994.7	3718.0	3694.5	3433.4
40°	4689.2	4681.4	4733.6	4757.1	4621.4	4503.9	4391.6	4151.4	3879.8	3853.7	3590.0
42.5°	4738.8	4804.1	4825.0	4819.8	4694.5	4590.0	4527.4	4321.1	4070.4	4046.9	3778.0
45°	4561.3	4545.6	4660.5	4723.2	4699.7	4644.8	4655.3	4524.7	4292.4	4268.9	3994.7
47.5°	4323.7	4302.8	4368.1	4522.1	4613.5	4665.7	4770.2	4736.2	4548.2	4527.4	4248.0
50°	3822.4	3851.1	4093.9	4300.2	4480.4	4660.5	4866.8	4963.4	4830.2	4809.3	4519.5
52.5°	3266.3	3295.0	3548.3	4023.4	4318.5	4621.4	4937.3	5190.5	5135.7	5112.2	4809.3
55°	2861.6	2924.2	3211.4	3556.1	4088.7	4498.6	4979.0	5422.9	5464.7	5443.8	5125.3
57.5°	2459.5	2506.5	2723.2	3028.7	3775.4	4284.5	4976.4	5639.6	5809.3	5788.4	5446.4
60°	1986.9	2047.0	2219.3	2548.3	3357.7	4028.7	4903.3	5809.3	6140.9	6125.2	5757.1
62.5°	1663.2	1681.4	1804.2	2088.7	2819.8	3704.9	4738.8	5900.7	6441.2	6430.7	6036.5
65°	1339.4	1342.0	1454.3	1691.9	2300.2	3302.8	4459.5	5866.8	6668.3	6673.5	6237.5
67.5°	1033.9	1047.0	1148.8	1329.0	1827.7	2780.6	4060.0	5637.0	6670.9	6684.0	6122.6
70°	715.4	725.8	879.9	1054.8	1412.5	2216.7	3519.5	5028.7	6122.6	6133.1	5488.2
72.5°	503.9	509.1	673.6	843.3	1104.4	1671.0	2655.3	4159.2	5219.3	5227.1	4616.1
75°	376.0	381.2	475.2	639.7	845.9	1156.6	1814.6	3185.3	4169.7	4169.7	3644.9
77.5°	266.3	268.9	308.1	441.2	564.0	780.7	1091.4	2086.1	3060.0	3065.2	2655.3
80°	180.2	182.8	201.0	297.6	352.5	423.0	592.7	1094.0	1929.5	1937.3	1686.7
82.5°	94.0	99.2	112.3	151.4	177.5	235.0	305.5	556.1	1067.9	1088.8	1013.0
85°	36.6	36.6	41.8	49.6	65.3	91.4	141.0	211.5	483.0	498.7	446.5
87.5°	13.1	13.1	15.7	15.7	18.3	20.9	23.5	31.3	54.8	54.8	52.2
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°	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7	2840.7
2.5°	2814.6	2814.6	2801.5	2806.8	2804.1	2798.9	2793.7	2801.5	2793.7	2775.4	2772.8
5°	2819.8	2814.6	2793.7	2791.1	2783.3	2772.8	2759.8	2765.0	2751.9	2736.3	2733.6
7.5°	2822.4	2812.0	2783.3	2772.8	2757.1	2736.3	2715.4	2715.4	2697.1	2681.4	2678.8
10°	2817.2	2804.1	2765.0	2744.1	2715.4	2684.0	2655.3	2647.5	2626.6	2608.3	2608.3
12.5°	2819.8	2801.5	2751.9	2718.0	2678.8	2639.7	2603.1	2592.7	2574.4	2556.1	2553.5
15°	2835.5	2809.4	2746.7	2702.3	2644.9	2600.5	2561.3	2553.5	2537.8	2524.8	2524.8
17.5°	2851.1	2817.2	2738.9	2676.2	2605.7	2556.1	2519.6	2519.6	2509.1	2501.3	2501.3
20°	2859.0	2819.8	2723.2	2639.7	2558.7	2506.5	2472.6	2477.8	2475.2	2472.6	2472.6
22.5°	2877.2	2825.0	2710.1	2605.7	2509.1	2454.3	2422.9	2430.8	2428.2	2428.2	2430.8
25°	2906.0	2838.1	2699.7	2574.4	2462.1	2402.1	2368.1	2373.3	2373.3	2373.3	2373.3
27.5°	2945.1	2864.2	2697.1	2545.7	2415.1	2347.2	2305.5	2305.5	2295.0	2297.6	2300.2
30°	3005.2	2913.8	2702.3	2519.6	2365.5	2279.3	2229.7	2221.9	2219.3	2224.5	2227.1
32.5°	3078.3	2981.7	2733.6	2501.3	2313.3	2203.6	2141.0	2138.4	2130.5	2130.5	2130.5
35°	3169.7	3047.0	2762.4	2498.7	2261.1	2122.7	2054.8	2047.0	2028.7	2020.9	2020.9
37.5°	3287.2	3148.8	2796.3	2480.4	2216.7	2044.4	1963.4	1937.3	1916.4	1913.8	1913.8
40°	3430.8	3263.7	2845.9	2459.5	2169.7	1963.4	1856.4	1812.0	1814.6	1825.0	1825.0
42.5°	3600.5	3404.7	2908.6	2449.1	2101.8	1879.9	1731.0	1678.8	1697.1	1707.6	1710.2
45°	3798.9	3571.8	2979.1	2436.0	2039.1	1785.9	1597.9	1532.6	1540.5	1543.1	1545.7
47.5°	4028.7	3757.1	3052.2	2425.6	1968.6	1668.4	1451.7	1365.5	1362.9	1347.2	1352.5
50°	4268.9	3953.0	3127.9	2407.3	1882.5	1530.0	1297.6	1195.8	1174.9	1151.4	1154.0
52.5°	4524.7	4154.0	3198.4	2378.6	1775.4	1389.0	1151.4	1041.8	1000.0	973.9	979.1
55°	4806.7	4360.3	3266.3	2334.2	1663.2	1248.0	1020.9	908.6	856.4	835.5	838.1
57.5°	5065.2	4558.7	3315.9	2279.3	1540.5	1120.1	906.0	796.3	762.4	759.8	762.4
60°	5315.9	4725.8	3336.8	2203.6	1415.1	1002.6	798.9	715.4	691.9	705.0	707.6
62.5°	5527.3	4832.8	3326.3	2101.8	1287.2	890.3	712.8	652.7	637.1	663.2	665.8
65°	5650.1	4866.8	3253.2	1955.6	1148.8	780.7	631.8	566.6	558.7	574.4	582.2
67.5°	5488.2	4655.3	3054.8	1754.5	994.8	678.8	553.5	501.3	488.2	501.3	501.3
70°	4864.2	4033.9	2584.8	1436.0	825.1	579.6	480.4	443.9	433.4	443.9	441.2
72.5°	4052.2	3355.0	2036.5	1120.1	650.1	488.2	417.7	383.8	373.4	362.9	357.7
75°	3143.6	2548.3	1477.8	822.4	490.9	391.6	349.9	318.5	292.4	302.9	297.6
77.5°	2302.8	1788.5	1047.0	569.2	352.5	302.9	274.1	250.6	232.4	253.3	250.6
80°	1483.0	1156.6	699.7	381.2	242.8	211.5	201.0	188.0	206.3	268.9	274.1
82.5°	906.0	733.7	417.7	248.0	159.3	141.0	130.5	130.5	211.5	232.4	235.0
85°	404.7	389.0	227.2	127.9	88.8	80.9	73.1	94.0	86.2	62.7	65.3
87.5°	65.3	67.9	49.6	44.4	33.9	33.9	26.1	18.3	13.1	7.8	7.8
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)