

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: P836905

Luminaire Tested: **ARCH3-90-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

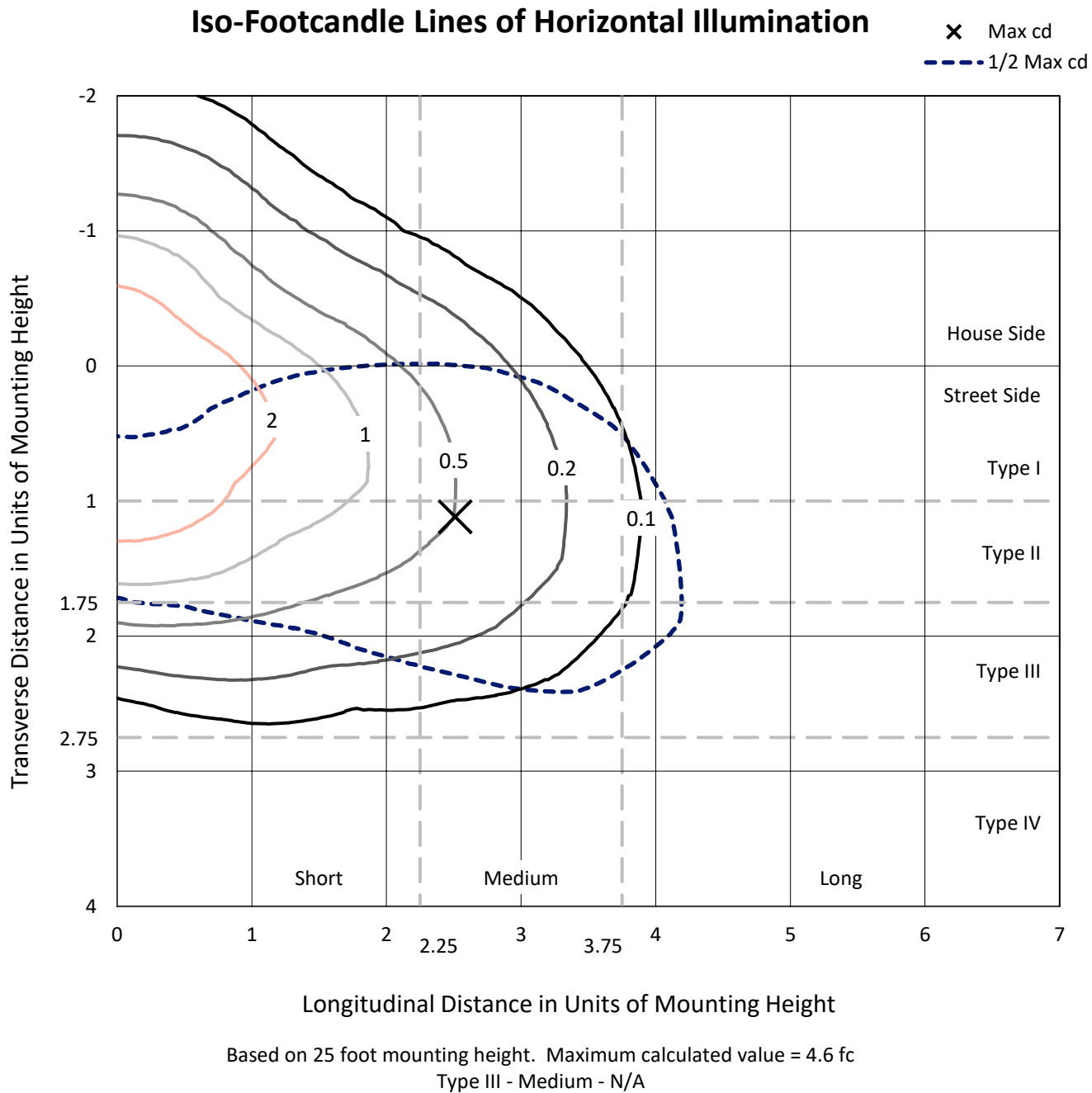
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14619 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

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

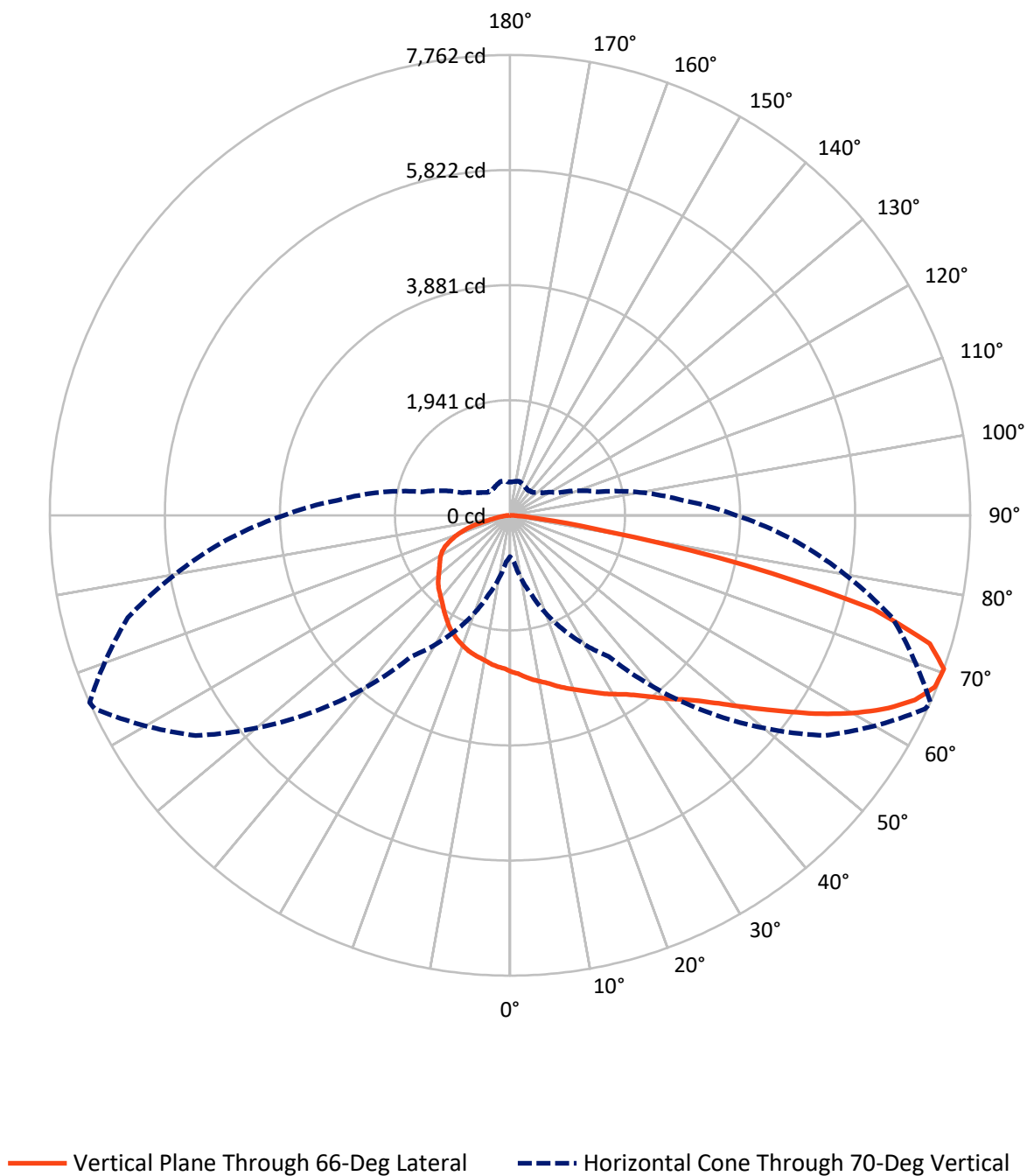


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3873.7	0.0	3873.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	10745.3	0.0	10745.3
	% Fixture	73.5	0.0	73.5
Total	Lumens	14619.0	0.0	14619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.7
10°-20°	760.5	5.2
20°-30°	1274.8	8.7
30°-40°	1908.8	13.1
40°-50°	2552.1	17.5
50°-60°	2979.6	20.4
60°-70°	2962.8	20.3
70°-80°	1754.0	12.0
80°-90°	172.9	1.2
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°	14619.0	100.0
0°-180°	14619.0	100.0

Coefficient of Utilization



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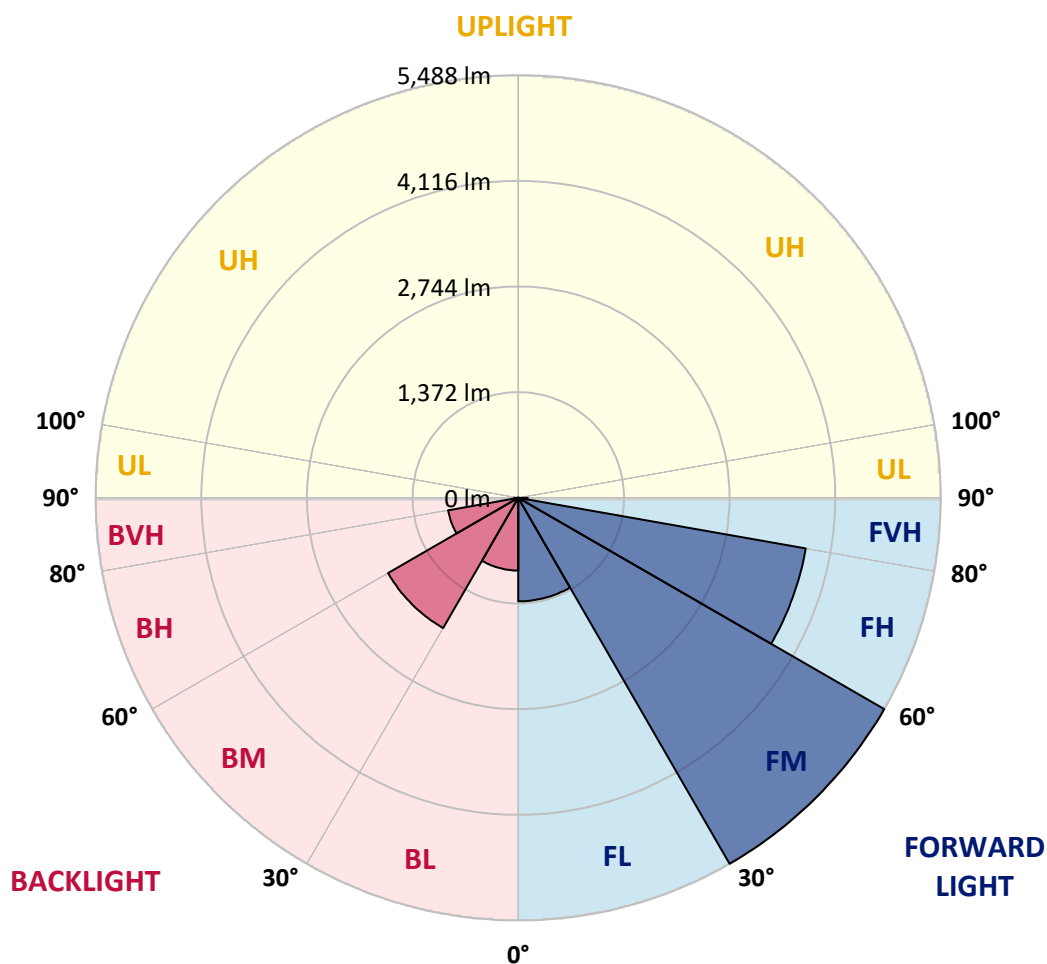
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1344.6	9.2			
FM	(30°-60°)	5487.8	37.5			
FH	(60°-80°)	3791.5	25.9			G2/5000
FVH	(80°-90°)	121.5	0.8			G2/225
BL	(0°-30°)	944.2	6.5	B2/1000		
BM	(30°-60°)	1952.7	13.4	B2/2500		
BH	(60°-80°)	925.3	6.3	B2/1000		G2/1000
BVH	(80°-90°)	51.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4
2.5°	2735.4	2731.1	2728.9	2720.3	2700.9	2709.5	2690.1	2677.2	2675.0	2644.9	2627.6
5°	2847.5	2845.3	2841.0	2828.1	2797.9	2802.2	2769.9	2746.2	2739.7	2692.3	2655.6
7.5°	2942.3	2938.0	2935.9	2918.6	2886.3	2884.1	2845.3	2810.8	2800.1	2735.4	2679.4
10°	3015.6	3009.2	3013.5	2996.2	2961.7	2955.3	2905.7	2860.4	2849.6	2767.7	2690.1
12.5°	3078.1	3073.8	3080.3	3065.2	3037.2	3030.7	2981.1	2922.9	2910.0	2815.2	2713.8
15°	3147.1	3132.0	3145.0	3138.5	3119.1	3116.9	3071.7	3007.0	2989.8	2875.5	2750.5
17.5°	3183.8	3175.1	3190.2	3192.4	3183.8	3198.8	3155.7	3078.1	3063.0	2931.6	2782.8
20°	3209.6	3196.7	3213.9	3226.9	3233.3	3263.5	3229.0	3153.6	3136.3	2985.4	2813.0
22.5°	3298.0	3270.0	3272.1	3280.8	3285.1	3328.2	3306.6	3233.3	3216.1	3052.3	2849.6
25°	3520.0	3464.0	3427.3	3401.5	3371.3	3407.9	3395.0	3323.9	3308.8	3132.0	2894.9
27.5°	3864.9	3793.8	3720.5	3645.0	3526.5	3511.4	3489.8	3425.2	3407.9	3211.8	2940.2
30°	4257.2	4186.1	4099.9	3979.2	3757.1	3640.7	3591.2	3520.0	3500.6	3282.9	2983.3
32.5°	4647.4	4584.9	4498.6	4352.1	4035.2	3798.1	3692.5	3619.2	3599.8	3360.5	3035.0
35°	4951.3	4912.5	4856.5	4673.2	4311.1	3983.5	3839.0	3750.7	3729.1	3483.4	3129.9
37.5°	5197.0	5169.0	5121.6	4929.7	4511.6	4168.8	4007.2	3905.9	3882.2	3617.0	3231.2
40°	5559.2	5485.9	5447.1	5169.0	4686.2	4337.0	4196.9	4091.2	4065.4	3759.3	3313.1
42.5°	5867.4	5813.5	5766.1	5382.4	4852.1	4481.4	4375.8	4278.8	4244.3	3899.4	3401.5
45°	5919.1	5940.7	5917.0	5488.0	5115.1	4623.7	4556.8	4494.3	4462.0	4089.1	3535.1
47.5°	5921.3	5921.3	5781.2	5548.4	5440.6	4783.2	4750.8	4772.4	4737.9	4330.5	3694.6
50°	5766.1	5794.1	5720.8	5563.5	5526.8	4942.7	4987.9	5104.3	5069.9	4587.0	3867.1
52.5°	5444.9	5537.6	5535.5	5539.8	5401.8	5078.5	5238.0	5503.1	5444.9	4875.9	4050.3
55°	4878.0	5063.4	5229.4	5371.6	5294.0	5160.4	5544.1	5927.8	5867.4	5199.2	4235.7
57.5°	4393.0	4511.6	4718.5	5121.6	5166.9	5231.5	5830.8	6371.8	6317.9	5557.0	4429.7
60°	3839.0	4002.9	4209.8	4783.2	5011.7	5324.2	6145.5	6805.1	6753.3	5919.1	4617.2
62.5°	2987.6	3198.8	3612.7	4263.7	4785.3	5382.4	6393.4	7186.6	7162.9	6261.9	4785.3
65°	2082.3	2269.8	2849.6	3625.6	4425.3	5356.5	6591.7	7527.2	7505.6	6542.1	4903.9
67.5°	1215.7	1433.4	2088.7	2918.6	3789.5	5177.6	6656.3	7727.7	7727.7	6712.4	4936.2
70°	694.1	795.4	1377.4	2127.5	2905.7	4684.0	6475.3	7725.5	7762.1	6673.6	4802.6
72.5°	485.0	530.3	926.9	1431.3	1970.2	3789.5	6001.1	7352.6	7402.2	6307.1	4345.6
75°	377.2	409.6	653.1	976.5	1241.6	2573.7	4964.2	6199.4	6330.9	5375.9	3513.6
77.5°	286.7	310.4	381.5	610.0	795.4	1478.7	3276.4	4065.4	4074.0	3291.5	1884.0
80°	209.1	232.8	254.4	372.9	422.5	691.9	1237.3	1698.6	1651.2	1593.0	1019.6
82.5°	125.0	148.7	155.2	202.6	206.9	295.3	433.3	547.5	526.0	700.6	478.5
85°	53.9	75.4	79.8	92.7	88.4	120.7	172.4	144.4	129.3	148.7	103.5
87.5°	12.9	21.6	21.6	23.7	19.4	30.2	32.3	23.7	21.6	25.9	25.9
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°	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4	2638.4
2.5°	2623.3	2616.8	2619.0	2582.4	2571.6	2560.8	2554.3	2550.0	2545.7	2552.2	2558.6
5°	2642.7	2627.6	2610.4	2556.5	2534.9	2511.2	2494.0	2478.9	2472.4	2472.4	2478.9
7.5°	2657.8	2631.9	2595.3	2524.2	2485.4	2453.0	2425.0	2405.6	2394.8	2394.8	2401.3
10°	2660.0	2623.3	2565.1	2478.9	2427.2	2379.7	2347.4	2325.8	2310.8	2310.8	2315.1
12.5°	2672.9	2623.3	2547.9	2444.4	2379.7	2321.5	2282.7	2250.4	2243.9	2243.9	2248.2
15°	2694.4	2634.1	2537.1	2414.2	2336.6	2269.8	2226.7	2192.2	2179.3	2187.9	2190.0
17.5°	2713.8	2640.6	2517.7	2375.4	2282.7	2209.4	2162.0	2131.8	2114.6	2134.0	2134.0
20°	2726.8	2640.6	2489.7	2325.8	2224.5	2142.6	2097.4	2060.7	2047.8	2071.5	2073.6
22.5°	2746.2	2638.4	2459.5	2276.3	2162.0	2075.8	2030.5	2002.5	1996.0	2021.9	2030.5
25°	2767.7	2642.7	2427.2	2220.2	2093.0	2009.0	1974.5	1961.6	1965.9	1998.2	2009.0
27.5°	2791.4	2651.3	2394.8	2157.7	2017.6	1942.2	1922.8	1929.2	1946.5	1987.4	2000.4
30°	2813.0	2653.5	2349.6	2084.4	1931.4	1860.2	1868.9	1896.9	1922.8	1963.7	1978.8
32.5°	2841.0	2655.6	2302.1	2004.7	1838.7	1787.0	1825.8	1871.0	1896.9	1935.7	1952.9
35°	2910.0	2692.3	2265.5	1927.1	1752.5	1724.4	1789.1	1847.3	1862.4	1896.9	1912.0
37.5°	2989.8	2752.6	2246.1	1847.3	1668.4	1661.9	1743.8	1802.0	1806.4	1827.9	1843.0
40°	3039.3	2778.5	2224.5	1780.5	1593.0	1597.3	1681.3	1726.6	1718.0	1733.1	1743.8
42.5°	3088.9	2787.1	2179.3	1724.4	1521.8	1526.1	1590.8	1623.1	1627.4	1659.8	1674.9
45°	3173.0	2810.8	2129.7	1672.7	1457.2	1442.1	1480.9	1524.0	1580.0	1642.5	1659.8
47.5°	3285.1	2860.4	2078.0	1610.2	1394.6	1345.1	1360.2	1435.6	1493.8	1552.0	1562.8
50°	3399.3	2910.0	2030.5	1534.8	1332.1	1241.6	1248.1	1317.0	1364.5	1409.7	1416.2
52.5°	3511.4	2953.1	1989.6	1463.6	1261.0	1118.7	1144.6	1215.7	1248.1	1269.6	1276.1
55°	3623.5	2989.8	1952.9	1403.3	1179.1	1021.7	1045.4	1112.3	1144.6	1155.4	1159.7
57.5°	3739.9	3032.9	1924.9	1351.5	1086.4	935.5	950.6	998.0	1028.2	1041.1	1036.8
60°	3836.9	3069.5	1909.8	1297.6	993.7	855.8	851.4	894.6	937.7	950.6	946.3
62.5°	3912.3	3093.2	1886.1	1228.7	911.8	776.0	754.4	810.5	855.8	864.4	870.8
65°	3953.3	3095.4	1827.9	1140.3	827.7	689.8	674.7	730.7	758.8	767.4	767.4
67.5°	3946.8	3060.9	1713.7	1021.7	750.1	612.2	599.2	633.7	674.7	681.2	674.7
70°	3813.2	2918.6	1530.4	896.7	657.4	543.2	519.5	554.0	592.8	569.1	558.3
72.5°	3433.8	2550.0	1261.0	758.8	554.0	457.0	446.2	480.7	482.8	487.2	476.4
75°	2709.5	1899.0	944.1	590.6	448.4	383.7	381.5	375.1	383.7	400.9	388.0
77.5°	1422.7	948.4	510.9	362.1	325.5	308.2	293.2	291.0	316.9	327.6	314.7
80°	771.7	532.4	293.2	217.7	198.3	200.5	219.9	215.6	243.6	250.0	239.3
82.5°	336.3	252.2	144.4	131.5	131.5	129.3	135.8	150.9	181.1	181.1	144.4
85°	73.3	62.5	56.0	64.7	73.3	73.3	73.3	73.3	51.7	28.0	19.4
87.5°	23.7	23.7	23.7	25.9	28.0	28.0	23.7	17.2	10.8	2.2	0.0
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)