

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: P836095

Luminaire Tested: **ARCH3-140-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836095
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: ARCH3-140-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17916 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 142.5
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

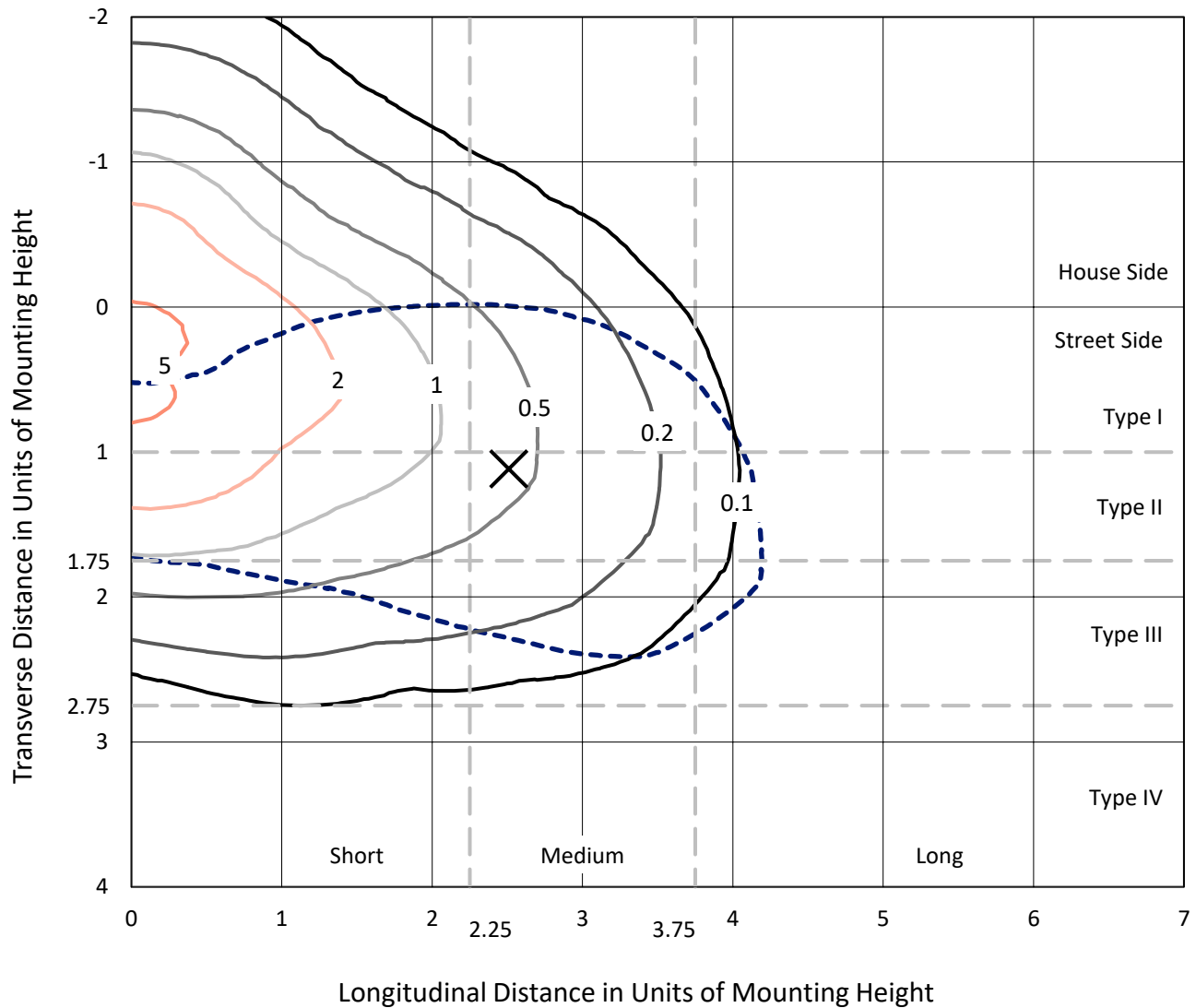


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

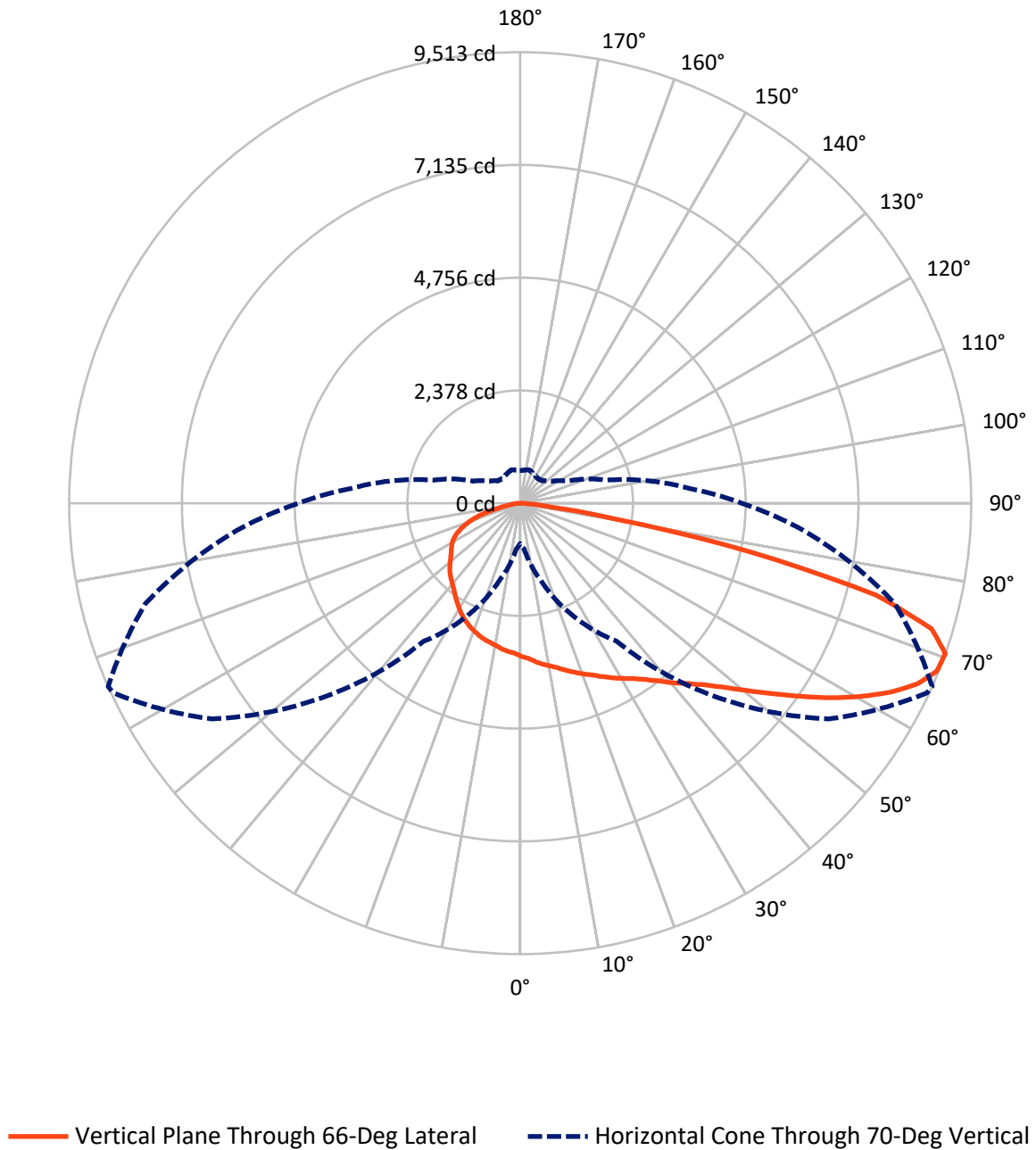


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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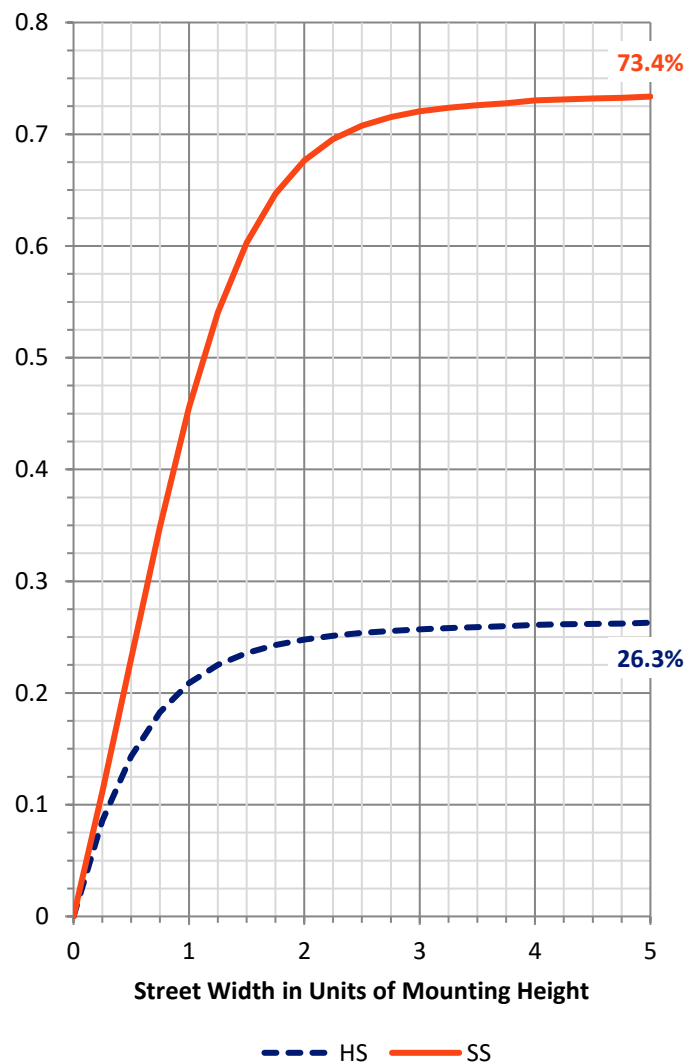
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4747.3	0.0	4747.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	13168.7	0.0	13168.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	17916.0	0.0	17916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	1.7
10°-20°	932.0	5.2
20°-30°	1562.3	8.7
30°-40°	2339.3	13.1
40°-50°	3127.6	17.5
50°-60°	3651.6	20.4
60°-70°	3631.0	20.3
70°-80°	2149.6	12.0
80°-90°	211.9	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°	17916.0	100.0
0°-180°	17916.0	100.0

Coefficient of Utilization



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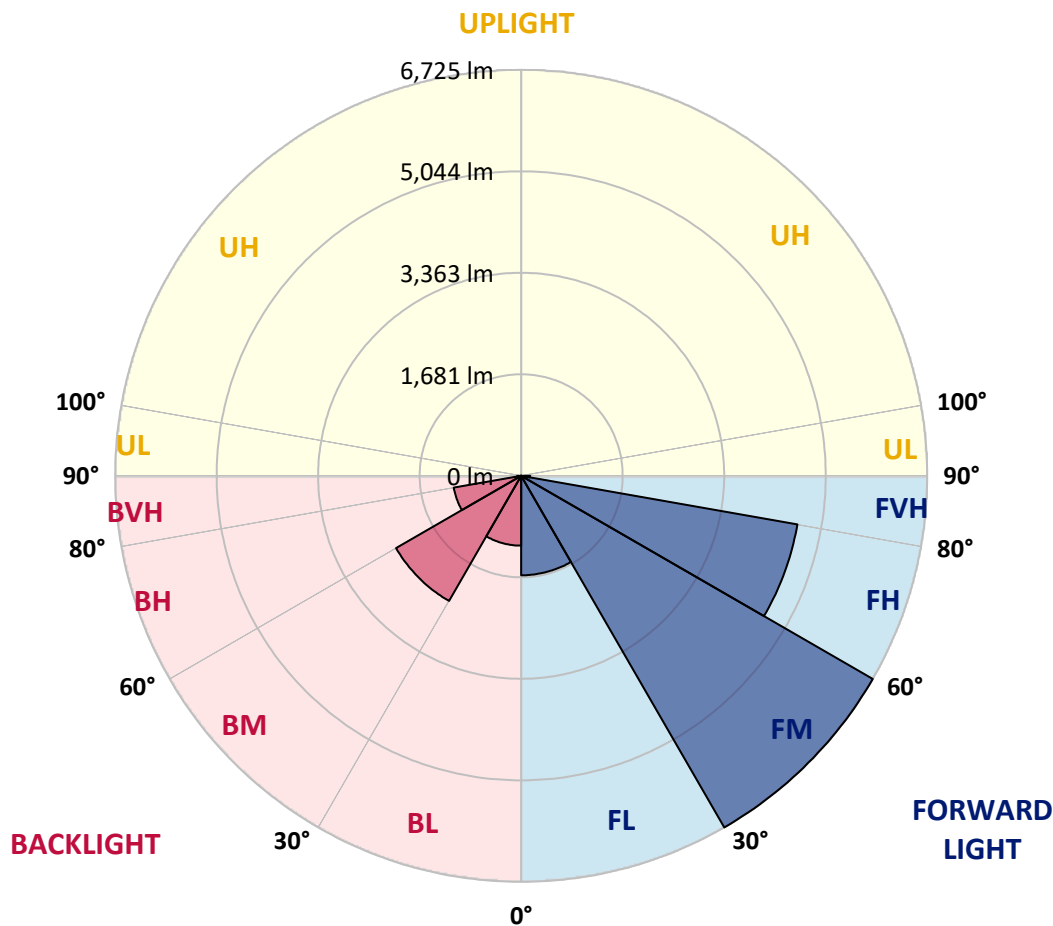
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.8	9.2			
FM	(30°-60°)	6725.4	37.5			
FH	(60°-80°)	4646.5	25.9			G2/5000
FVH	(80°-90°)	148.9	0.8			G2/225
BL	(0°-30°)	1157.2	6.5	B3/2500		
BM	(30°-60°)	2393.1	13.4	B2/2500		
BH	(60°-80°)	1134.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	63.0	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4
2.5°	3352.3	3347.0	3344.4	3333.8	3310.0	3320.6	3296.8	3281.0	3278.3	3241.4	3220.2
5°	3489.7	3487.0	3481.7	3465.9	3428.9	3434.2	3394.6	3365.5	3357.6	3299.5	3254.6
7.5°	3605.9	3600.6	3598.0	3576.8	3537.2	3534.6	3487.0	3444.8	3431.6	3352.3	3283.6
10°	3695.7	3687.8	3693.1	3672.0	3629.7	3621.8	3561.0	3505.5	3492.3	3391.9	3296.8
12.5°	3772.3	3767.1	3775.0	3756.5	3722.1	3714.2	3653.5	3582.1	3566.3	3450.0	3325.9
15°	3856.9	3838.4	3854.2	3846.3	3822.5	3819.9	3764.4	3685.2	3664.0	3524.0	3370.8
17.5°	3901.8	3891.2	3909.7	3912.3	3901.8	3920.3	3867.4	3772.3	3753.8	3592.7	3410.4
20°	3933.5	3917.6	3938.8	3954.6	3962.5	3999.5	3957.3	3864.8	3843.7	3658.7	3447.4
22.5°	4041.8	4007.4	4010.1	4020.7	4025.9	4078.8	4052.4	3962.5	3941.4	3740.6	3492.3
25°	4313.9	4245.2	4200.3	4168.6	4131.6	4176.5	4160.7	4073.5	4055.0	3838.4	3547.8
27.5°	4736.6	4649.4	4559.6	4467.1	4321.8	4303.3	4276.9	4197.6	4176.5	3936.1	3603.3
30°	5217.3	5130.2	5024.5	4876.6	4604.5	4461.8	4401.1	4313.9	4290.1	4023.3	3656.1
32.5°	5695.5	5618.9	5513.2	5333.6	4945.2	4654.7	4525.2	4435.4	4411.6	4118.4	3719.5
35°	6068.0	6020.4	5951.7	5727.2	5283.4	4881.8	4704.9	4596.5	4570.1	4269.0	3835.7
37.5°	6369.1	6334.8	6276.7	6041.5	5529.1	5109.0	4910.9	4786.7	4757.7	4432.8	3959.9
40°	6812.9	6723.1	6675.6	6334.8	5743.0	5315.1	5143.4	5013.9	4982.2	4607.1	4060.3
42.5°	7190.7	7124.6	7066.5	6596.3	5946.4	5492.1	5362.6	5243.8	5201.5	4778.8	4168.6
45°	7254.1	7280.5	7251.4	6725.7	6268.7	5666.4	5584.5	5507.9	5468.3	5011.3	4332.4
47.5°	7256.7	7256.7	7085.0	6799.7	6667.6	5861.9	5822.3	5848.7	5806.4	5307.2	4527.9
50°	7066.5	7100.9	7011.0	6818.2	6773.3	6057.4	6112.9	6255.5	6213.3	5621.5	4739.2
52.5°	6672.9	6786.5	6783.9	6789.1	6620.1	6223.8	6419.3	6744.2	6672.9	5975.5	4963.7
55°	5978.1	6205.3	6408.7	6583.1	6488.0	6324.2	6794.4	7264.7	7190.7	6371.8	5190.9
57.5°	5383.8	5529.1	5782.7	6276.7	6332.1	6411.4	7145.8	7808.8	7742.8	6810.3	5428.7
60°	4704.9	4905.6	5159.2	5861.9	6141.9	6525.0	7531.5	8339.8	8276.4	7254.1	5658.5
62.5°	3661.4	3920.3	4427.5	5225.3	5864.6	6596.3	7835.3	8807.4	8778.3	7674.1	5864.6
65°	2551.9	2781.7	3492.3	4443.3	5423.4	6564.6	8078.3	9224.8	9198.4	8017.5	6009.8
67.5°	1489.9	1756.7	2559.8	3576.8	4644.1	6345.3	8157.5	9470.5	9470.5	8226.2	6049.5
70°	850.6	974.8	1688.0	2607.3	3561.0	5740.4	7935.6	9467.8	9512.7	8178.7	5885.7
72.5°	594.4	649.9	1135.9	1754.1	2414.5	4644.1	7354.5	9010.8	9071.6	7729.6	5325.6
75°	462.3	501.9	800.4	1196.7	1521.6	3154.2	6083.8	7597.5	7758.6	6588.4	4306.0
77.5°	351.3	380.4	467.6	747.6	974.8	1812.2	4015.4	4982.2	4992.8	4033.9	2308.8
80°	256.2	285.3	311.7	457.0	517.8	848.0	1516.3	2081.7	2023.5	1952.2	1249.5
82.5°	153.2	182.3	190.2	248.3	253.6	361.9	531.0	671.0	644.6	858.5	586.5
85°	66.0	92.5	97.7	113.6	108.3	147.9	211.3	177.0	158.5	182.3	126.8
87.5°	15.9	26.4	26.4	29.1	23.8	37.0	39.6	29.1	26.4	31.7	31.7
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°	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4	3233.4
2.5°	3214.9	3207.0	3209.7	3164.7	3151.5	3138.3	3130.4	3125.1	3119.8	3127.8	3135.7
5°	3238.7	3220.2	3199.1	3133.0	3106.6	3077.6	3056.4	3037.9	3030.0	3030.0	3037.9
7.5°	3257.2	3225.5	3180.6	3093.4	3045.9	3006.2	2971.9	2948.1	2934.9	2934.9	2942.8
10°	3259.8	3214.9	3143.6	3037.9	2974.5	2916.4	2876.8	2850.4	2831.9	2831.9	2837.2
12.5°	3275.7	3214.9	3122.5	2995.7	2916.4	2845.1	2797.6	2757.9	2750.0	2750.0	2755.3
15°	3302.1	3228.1	3109.3	2958.7	2863.6	2781.7	2728.9	2686.6	2670.7	2681.3	2684.0
17.5°	3325.9	3236.1	3085.5	2911.1	2797.6	2707.7	2649.6	2612.6	2591.5	2615.3	2615.3
20°	3341.7	3236.1	3051.2	2850.4	2726.2	2625.8	2570.4	2525.5	2509.6	2538.7	2541.3
22.5°	3365.5	3233.4	3014.2	2789.6	2649.6	2543.9	2488.5	2454.1	2446.2	2477.9	2488.5
25°	3391.9	3238.7	2974.5	2720.9	2565.1	2462.1	2419.8	2403.9	2409.2	2448.8	2462.1
27.5°	3421.0	3249.3	2934.9	2644.3	2472.6	2380.2	2356.4	2364.3	2385.4	2435.6	2451.5
30°	3447.4	3251.9	2879.4	2554.5	2367.0	2279.8	2290.3	2324.7	2356.4	2406.6	2425.1
32.5°	3481.7	3254.6	2821.3	2456.8	2253.4	2190.0	2237.5	2293.0	2324.7	2372.2	2393.4
35°	3566.3	3299.5	2776.4	2361.7	2147.7	2113.4	2192.6	2263.9	2282.4	2324.7	2343.2
37.5°	3664.0	3373.4	2752.6	2263.9	2044.7	2036.7	2137.1	2208.5	2213.7	2240.2	2258.6
40°	3724.8	3405.1	2726.2	2182.0	1952.2	1957.5	2060.5	2116.0	2105.4	2123.9	2137.1
42.5°	3785.5	3415.7	2670.7	2113.4	1865.0	1870.3	1949.6	1989.2	1994.5	2034.1	2052.6
45°	3888.6	3444.8	2610.0	2050.0	1785.8	1767.3	1814.8	1867.7	1936.4	2013.0	2034.1
47.5°	4025.9	3505.5	2546.6	1973.3	1709.2	1648.4	1666.9	1759.4	1830.7	1902.0	1915.2
50°	4165.9	3566.3	2488.5	1880.9	1632.6	1521.6	1529.5	1614.1	1672.2	1727.7	1735.6
52.5°	4303.3	3619.1	2438.3	1793.7	1545.4	1371.0	1402.7	1489.9	1529.5	1556.0	1563.9
55°	4440.7	3664.0	2393.4	1719.7	1445.0	1252.2	1281.2	1363.1	1402.7	1415.9	1421.2
57.5°	4583.3	3716.9	2359.0	1656.3	1331.4	1146.5	1165.0	1223.1	1260.1	1275.9	1270.7
60°	4702.2	3761.8	2340.5	1590.3	1217.8	1048.8	1043.5	1096.3	1149.1	1165.0	1159.7
62.5°	4794.7	3790.8	2311.5	1505.8	1117.4	951.0	924.6	993.3	1048.8	1059.3	1067.2
65°	4844.9	3793.5	2240.2	1397.5	1014.4	845.3	826.8	895.5	929.9	940.4	940.4
67.5°	4836.9	3751.2	2100.1	1252.2	919.3	750.2	734.4	776.7	826.8	834.8	826.8
70°	4673.2	3576.8	1875.6	1098.9	805.7	665.7	636.6	678.9	726.5	697.4	684.2
72.5°	4208.2	3125.1	1545.4	929.9	678.9	560.0	546.8	589.1	591.7	597.0	583.8
75°	3320.6	2327.3	1157.1	723.8	549.5	470.2	467.6	459.7	470.2	491.4	475.5
77.5°	1743.5	1162.3	626.1	443.8	398.9	377.8	359.3	356.6	388.3	401.5	385.7
80°	945.7	652.5	359.3	266.8	243.0	245.7	269.5	264.2	298.5	306.4	293.2
82.5°	412.1	309.1	177.0	161.1	161.1	158.5	166.4	184.9	221.9	221.9	177.0
85°	89.8	76.6	68.7	79.3	89.8	89.8	89.8	89.8	63.4	34.3	23.8
87.5°	29.1	29.1	29.1	31.7	34.3	34.3	29.1	21.1	13.2	2.6	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)