

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: P835879

Luminaire Tested: **ARCH3-110-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835879
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: ARCH3-110-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14890 lumens
Efficiency: N/A
Efficacy: 133.1 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): 111.9
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



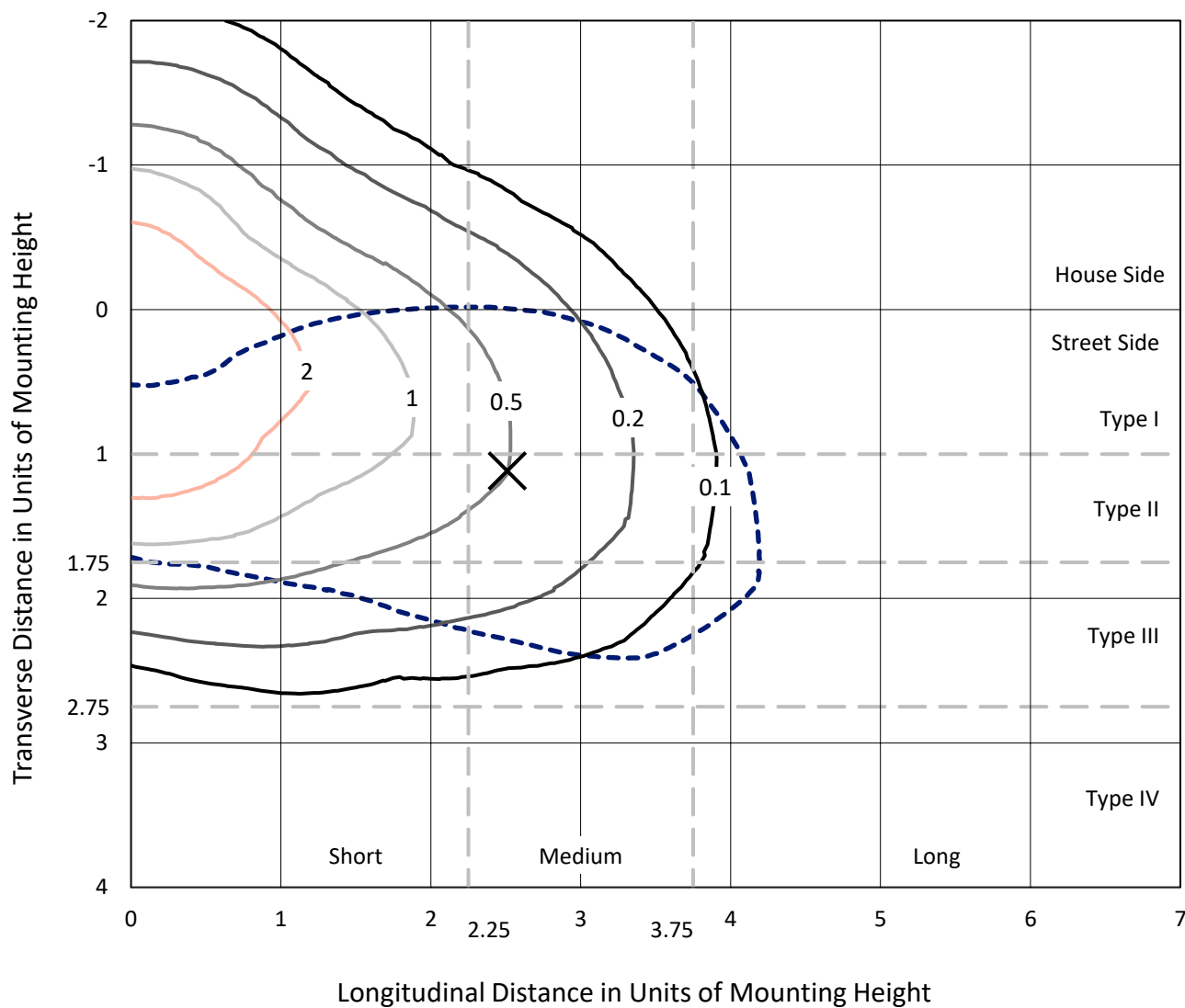
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Iso-Footcandle Lines of Horizontal Illumination

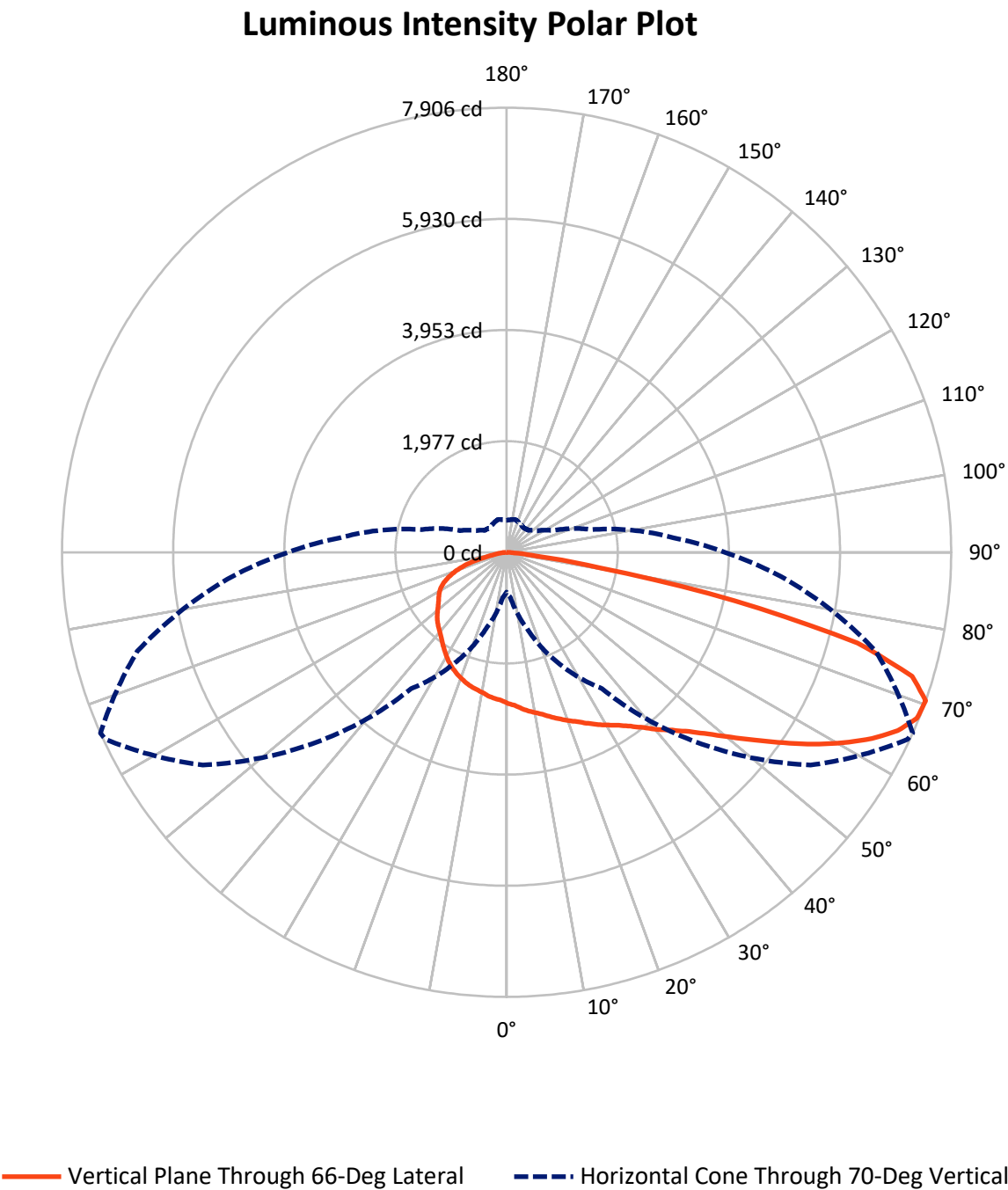
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

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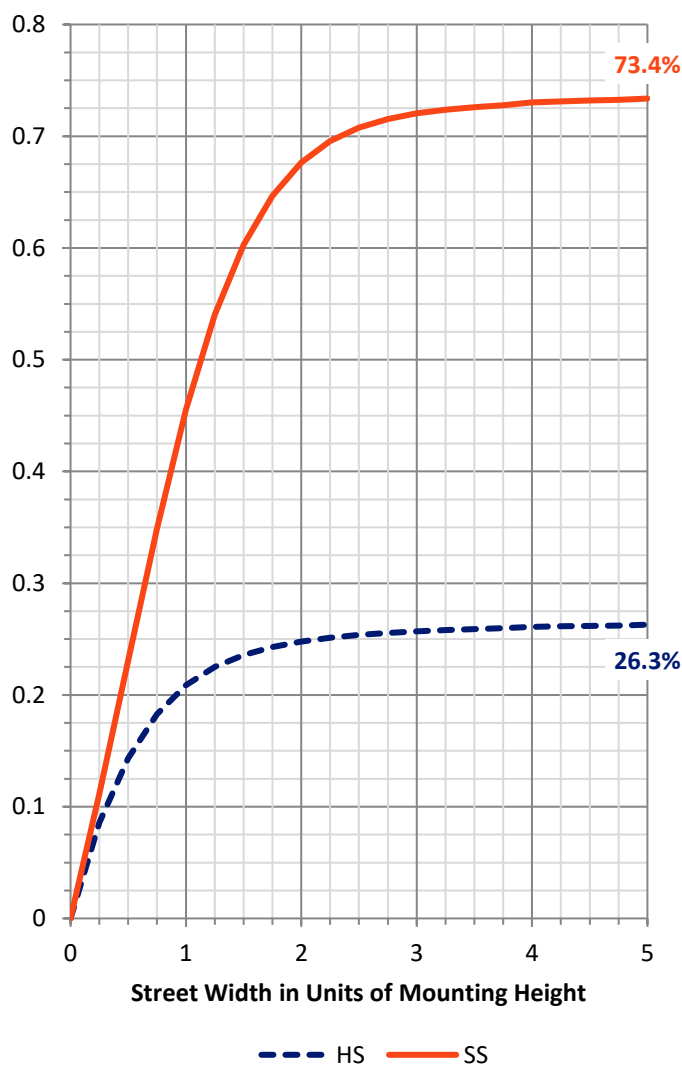
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3945.5	0.0	3945.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	10944.5	0.0	10944.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	14890.0	0.0	14890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	1.7
10°-20°	774.6	5.2
20°-30°	1298.4	8.7
30°-40°	1944.2	13.1
40°-50°	2599.4	17.5
50°-60°	3034.9	20.4
60°-70°	3017.7	20.3
70°-80°	1786.5	12.0
80°-90°	176.1	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°	14890.0	100.0
0°-180°	14890.0	100.0

Coefficient of Utilization



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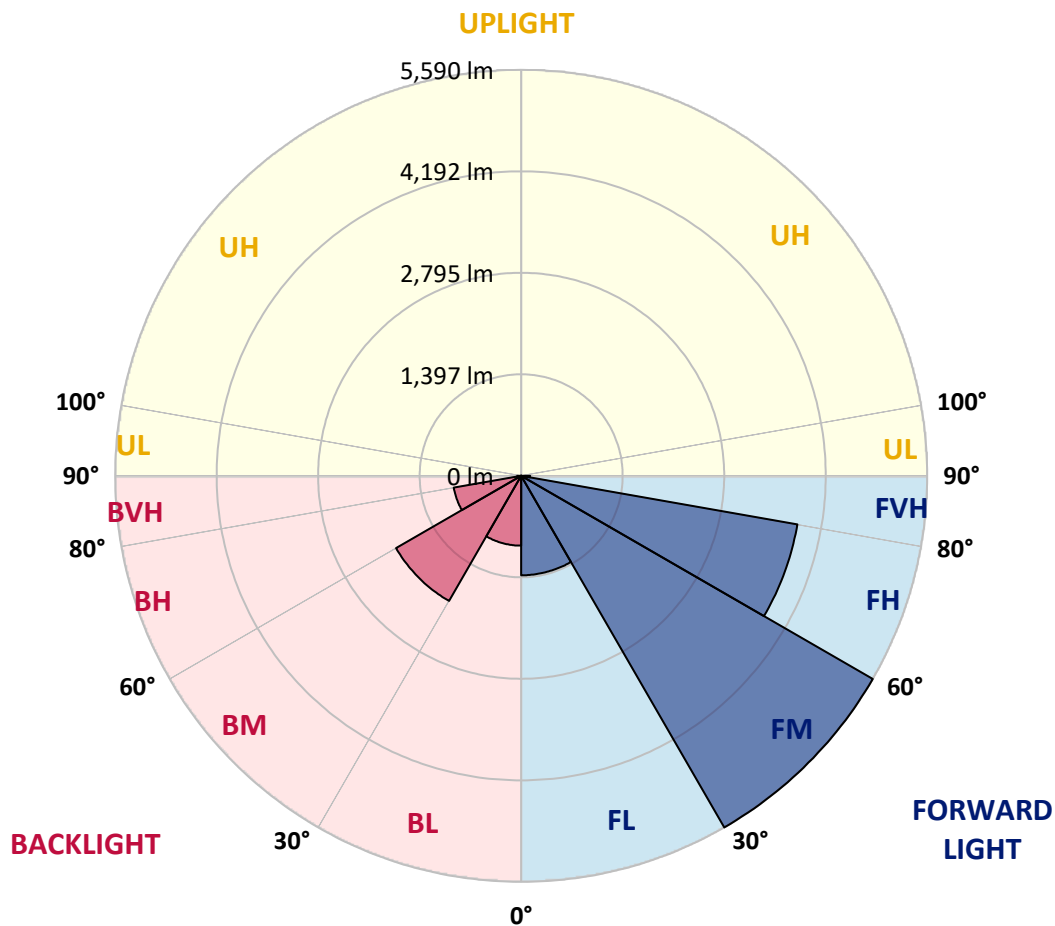
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1369.5	9.2			
FM	(30°-60°)	5589.5	37.5			
FH	(60°-80°)	3861.7	25.9			G2/5000
FVH	(80°-90°)	123.8	0.8			G2/225
BL	(0°-30°)	961.7	6.5	B2/1000		
BM	(30°-60°)	1988.9	13.4	B2/2500		
BH	(60°-80°)	942.5	6.3	B2/1000		G2/1000
BVH	(80°-90°)	52.3	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°	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3
2.5°	2786.1	2781.7	2779.5	2770.7	2751.0	2759.8	2740.0	2726.8	2724.6	2693.9	2676.3
5°	2900.3	2898.1	2893.7	2880.5	2849.8	2854.2	2821.2	2797.1	2790.5	2742.2	2704.9
7.5°	2996.9	2992.5	2990.3	2972.7	2939.8	2937.6	2898.1	2862.9	2852.0	2786.1	2729.0
10°	3071.5	3064.9	3069.3	3051.8	3016.6	3010.0	2959.5	2913.4	2902.5	2819.0	2740.0
12.5°	3135.2	3130.8	3137.4	3122.0	3093.5	3086.9	3036.4	2977.1	2963.9	2867.3	2764.1
15°	3205.4	3190.1	3203.3	3196.7	3176.9	3174.7	3128.6	3062.7	3045.2	2928.8	2801.5
17.5°	3242.8	3234.0	3249.4	3251.6	3242.8	3258.1	3214.2	3135.2	3119.8	2985.9	2834.4
20°	3269.1	3255.9	3273.5	3286.7	3293.3	3324.0	3288.9	3212.0	3194.5	3040.8	2865.1
22.5°	3359.1	3330.6	3332.8	3341.6	3346.0	3389.9	3367.9	3293.3	3275.7	3108.8	2902.5
25°	3585.3	3528.2	3490.9	3464.5	3433.8	3471.1	3457.9	3385.5	3370.1	3190.1	2948.6
27.5°	3936.6	3864.1	3789.5	3712.6	3591.9	3576.5	3554.5	3488.7	3471.1	3271.3	2994.7
30°	4336.1	4263.7	4175.9	4052.9	3826.8	3708.2	3657.7	3585.3	3565.5	3343.8	3038.6
32.5°	4733.5	4669.9	4582.0	4432.7	4110.0	3868.5	3760.9	3686.3	3666.5	3422.8	3091.3
35°	5043.1	5003.6	4946.5	4759.9	4391.0	4057.3	3910.2	3820.2	3798.2	3547.9	3187.9
37.5°	5293.4	5264.8	5216.5	5021.1	4595.2	4246.1	4081.5	3978.3	3954.1	3684.1	3291.1
40°	5662.2	5587.6	5548.1	5264.8	4773.0	4417.4	4274.7	4167.1	4140.7	3829.0	3374.5
42.5°	5976.2	5921.3	5873.0	5482.2	4942.1	4564.5	4456.9	4358.1	4323.0	3971.7	3464.5
45°	6028.9	6050.8	6026.7	5589.8	5209.9	4709.4	4641.3	4577.6	4544.7	4164.9	3600.6
47.5°	6031.1	6031.1	5888.4	5651.2	5541.5	4871.8	4838.9	4860.9	4825.7	4410.8	3763.1
50°	5873.0	5901.5	5826.9	5666.6	5629.3	5034.3	5080.4	5199.0	5163.8	4672.0	3938.7
52.5°	5545.9	5640.3	5638.1	5642.5	5502.0	5172.6	5335.1	5605.1	5545.9	4966.2	4125.4
55°	4968.4	5157.3	5326.3	5471.2	5392.2	5256.1	5646.9	6037.7	5976.2	5295.6	4314.2
57.5°	4474.5	4595.2	4806.0	5216.5	5262.6	5328.5	5938.9	6489.9	6435.0	5660.0	4511.8
60°	3910.2	4077.1	4287.8	4871.8	5104.6	5422.9	6259.4	6931.2	6878.5	6028.9	4702.8
62.5°	3043.0	3258.1	3679.7	4342.7	4874.0	5482.2	6511.9	7319.8	7295.7	6378.0	4874.0
65°	2120.9	2311.9	2902.5	3692.9	4507.4	5455.8	6713.9	7666.7	7644.8	6663.4	4994.8
67.5°	1238.3	1460.0	2127.5	2972.7	3859.7	5273.6	6779.7	7870.9	7870.9	6836.8	5027.7
70°	707.0	810.1	1402.9	2167.0	2959.5	4770.8	6595.3	7868.7	7906.0	6797.3	4891.6
72.5°	494.0	540.1	944.1	1457.8	2006.7	3859.7	6112.3	7488.9	7539.4	6424.1	4426.2
75°	384.2	417.1	665.2	994.6	1264.6	2621.4	5056.3	6314.3	6448.2	5475.6	3578.7
77.5°	292.0	316.2	388.6	621.3	810.1	1506.1	3337.2	4140.7	4149.5	3352.5	1918.9
80°	213.0	237.1	259.1	379.8	430.3	704.8	1260.2	1730.1	1681.8	1622.5	1038.5
82.5°	127.3	151.5	158.1	206.4	210.8	300.8	441.3	557.7	535.7	713.5	487.4
85°	54.9	76.8	81.2	94.4	90.0	122.9	175.6	147.1	131.7	151.5	105.4
87.5°	13.2	22.0	22.0	24.2	19.8	30.7	32.9	24.2	22.0	26.3	26.3
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°	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3	2687.3
2.5°	2671.9	2665.4	2667.5	2630.2	2619.2	2608.3	2601.7	2597.3	2592.9	2599.5	2606.1
5°	2691.7	2676.3	2658.8	2603.9	2581.9	2557.8	2540.2	2524.8	2518.3	2518.3	2524.8
7.5°	2707.1	2680.7	2643.4	2570.9	2531.4	2498.5	2470.0	2450.2	2439.2	2439.2	2445.8
10°	2709.3	2671.9	2612.7	2524.8	2472.1	2423.8	2390.9	2369.0	2353.6	2353.6	2358.0
12.5°	2722.4	2671.9	2595.1	2489.7	2423.8	2364.6	2325.0	2292.1	2285.5	2285.5	2289.9
15°	2744.4	2682.9	2584.1	2459.0	2379.9	2311.9	2268.0	2232.8	2219.7	2228.4	2230.6
17.5°	2764.1	2689.5	2564.4	2419.5	2325.0	2250.4	2202.1	2171.4	2153.8	2173.6	2173.6
20°	2777.3	2689.5	2535.8	2369.0	2265.8	2182.3	2136.2	2098.9	2085.7	2109.9	2112.1
22.5°	2797.1	2687.3	2505.1	2318.5	2202.1	2114.3	2068.2	2039.6	2033.0	2059.4	2068.2
25°	2819.0	2691.7	2472.1	2261.4	2131.8	2046.2	2011.1	1997.9	2002.3	2035.2	2046.2
27.5°	2843.2	2700.5	2439.2	2197.7	2055.0	1978.2	1958.4	1965.0	1982.5	2024.3	2037.4
30°	2865.1	2702.7	2393.1	2123.1	1967.2	1894.7	1903.5	1932.1	1958.4	2000.1	2015.5
32.5°	2893.7	2704.9	2344.8	2041.8	1872.8	1820.1	1859.6	1905.7	1932.1	1971.6	1989.1
35°	2963.9	2742.2	2307.5	1962.8	1785.0	1756.4	1822.3	1881.6	1896.9	1932.1	1947.4
37.5°	3045.2	2803.7	2287.7	1881.6	1699.3	1692.7	1776.2	1835.4	1839.8	1861.8	1877.2
40°	3095.7	2830.0	2265.8	1813.5	1622.5	1626.9	1712.5	1758.6	1749.8	1765.2	1776.2
42.5°	3146.2	2838.8	2219.7	1756.4	1550.0	1554.4	1620.3	1653.2	1657.6	1690.5	1705.9
45°	3231.8	2862.9	2169.2	1703.7	1484.2	1468.8	1508.3	1552.2	1609.3	1673.0	1690.5
47.5°	3346.0	2913.4	2116.5	1640.0	1420.5	1370.0	1385.4	1462.2	1521.5	1580.8	1591.7
50°	3462.3	2963.9	2068.2	1563.2	1356.8	1264.6	1271.2	1341.5	1389.8	1435.9	1442.5
52.5°	3576.5	3007.9	2026.5	1490.8	1284.4	1139.5	1165.8	1238.3	1271.2	1293.2	1299.7
55°	3690.7	3045.2	1989.1	1429.3	1200.9	1040.7	1064.8	1132.9	1165.8	1176.8	1181.2
57.5°	3809.2	3089.1	1960.6	1376.6	1106.5	952.9	968.2	1016.5	1047.3	1060.4	1056.0
60°	3908.0	3126.4	1945.2	1321.7	1012.1	871.6	867.2	911.1	955.0	968.2	963.8
62.5°	3984.9	3150.6	1921.1	1251.4	928.7	790.4	768.4	825.5	871.6	880.4	887.0
65°	4026.6	3152.8	1861.8	1161.4	843.1	702.6	687.2	744.3	772.8	781.6	781.6
67.5°	4020.0	3117.6	1745.4	1040.7	764.0	623.5	610.4	645.5	687.2	693.8	687.2
70°	3883.9	2972.7	1558.8	913.3	669.6	553.3	529.1	564.2	603.8	579.6	568.6
72.5°	3497.4	2597.3	1284.4	772.8	564.2	465.4	454.5	489.6	491.8	496.2	485.2
75°	2759.8	1934.2	961.6	601.6	456.7	390.8	388.6	382.0	390.8	408.4	395.2
77.5°	1449.0	966.0	520.3	368.8	331.5	314.0	298.6	296.4	322.7	333.7	320.5
80°	786.0	542.3	298.6	221.7	202.0	204.2	223.9	219.6	248.1	254.7	243.7
82.5°	342.5	256.9	147.1	133.9	133.9	131.7	138.3	153.7	184.4	184.4	147.1
85°	74.6	63.7	57.1	65.9	74.6	74.6	74.6	74.6	52.7	28.5	19.8
87.5°	24.2	24.2	24.2	26.3	28.5	28.5	24.2	17.6	11.0	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)