

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: P836311

Luminaire Tested: **ARCH3-170-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836311
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: ARCH3-170-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20231 lumens
Efficiency: N/A
Efficacy: 118.6 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): 170.6
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



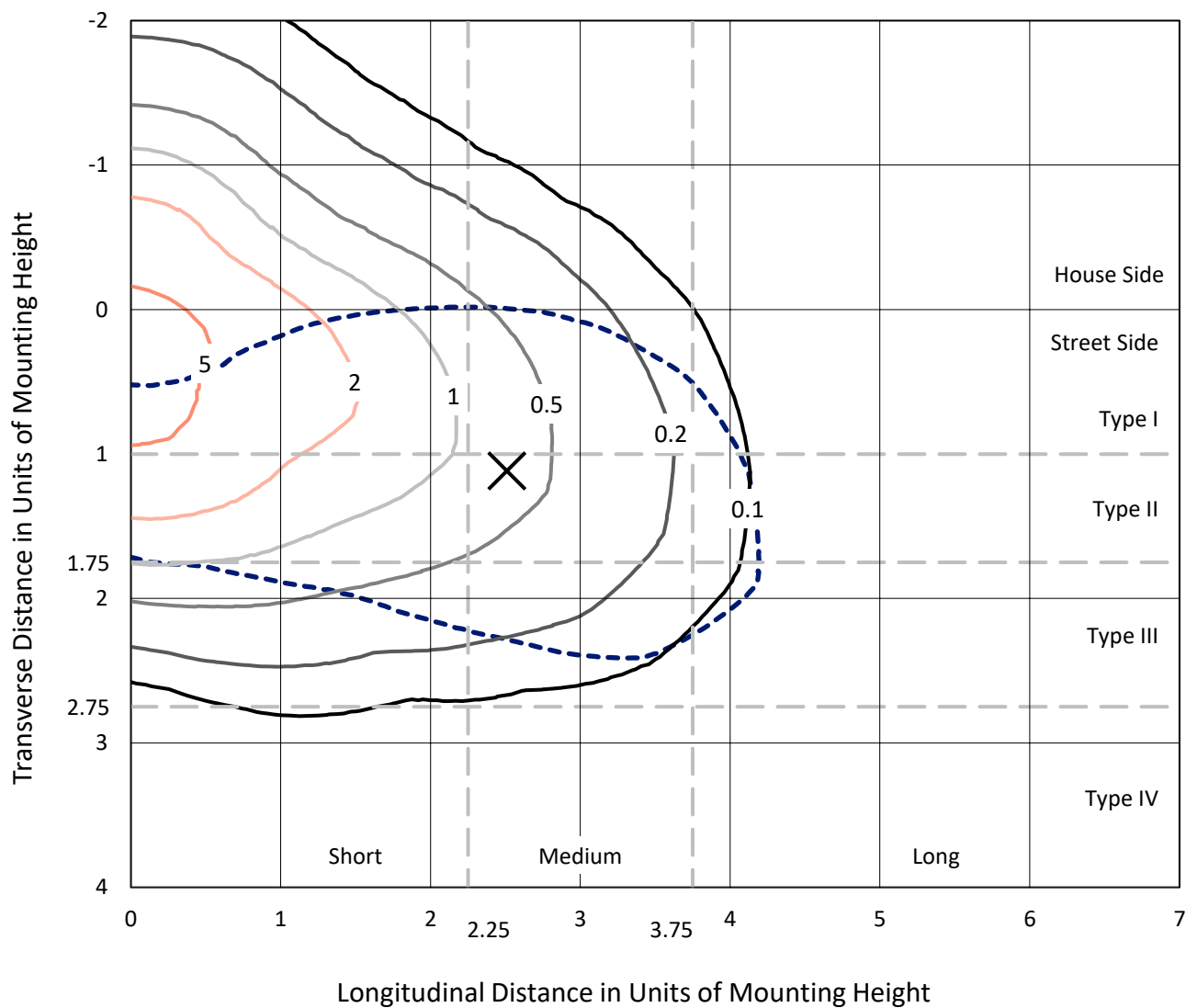
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

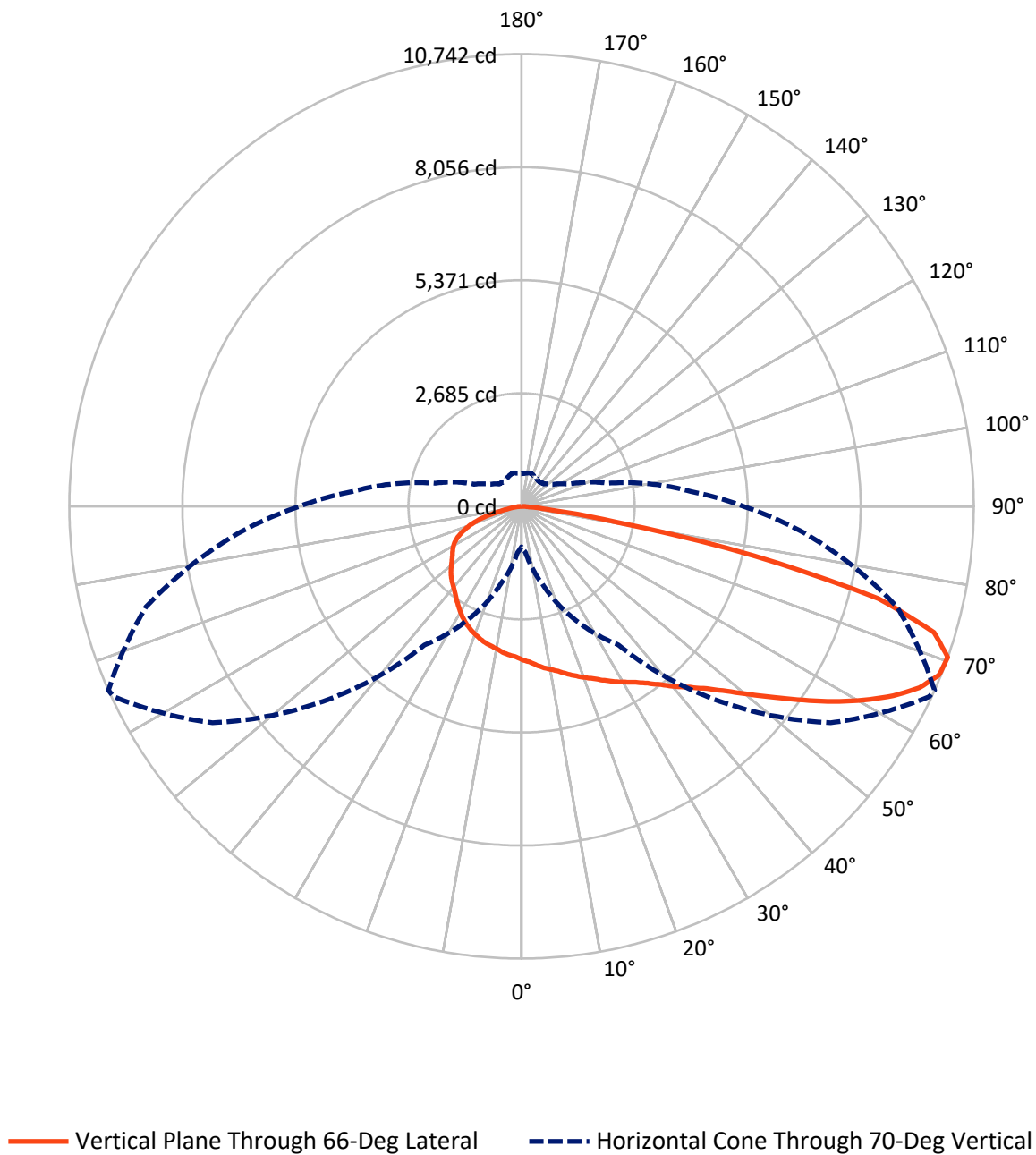


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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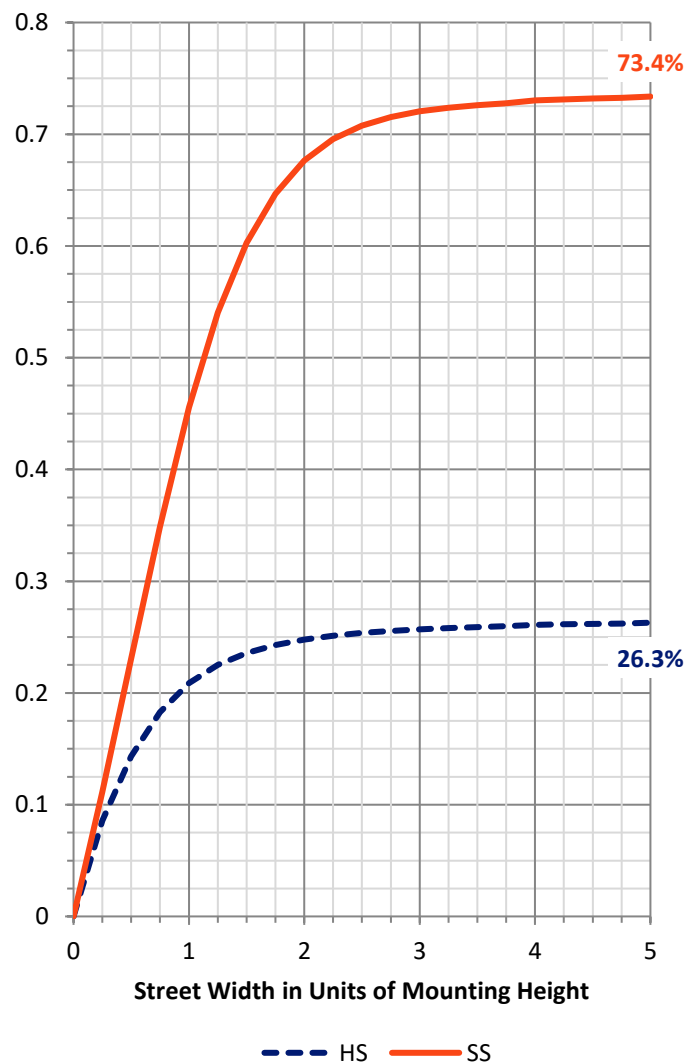
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5360.7	0.0	5360.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14870.2	0.0	14870.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	20231.0	0.0	20231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.8	1.7
10°-20°	1052.4	5.2
20°-30°	1764.2	8.7
30°-40°	2641.6	13.1
40°-50°	3531.8	17.5
50°-60°	4123.5	20.4
60°-70°	4100.1	20.3
70°-80°	2427.3	12.0
80°-90°	239.2	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°	20231.0	100.0
0°-180°	20231.0	100.0

Coefficient of Utilization



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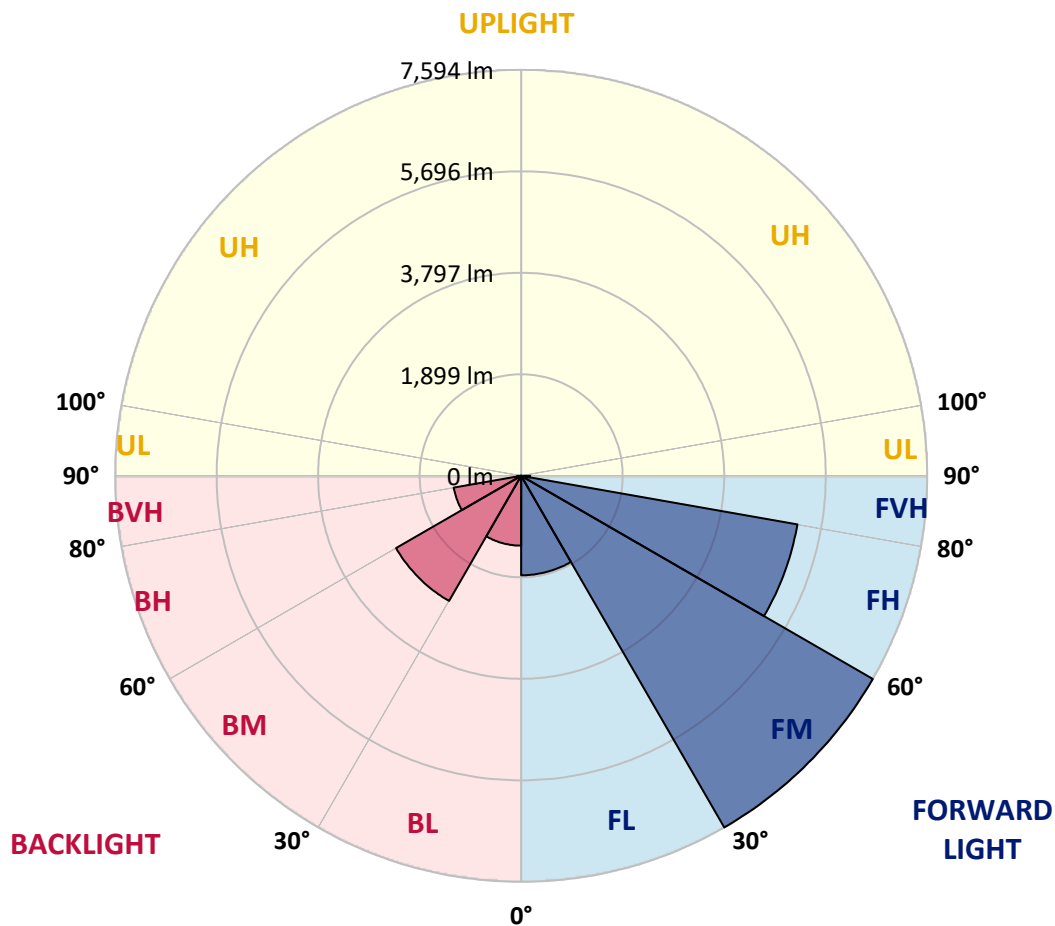
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1860.7	9.2			
FM	(30°-60°)	7594.4	37.5			
FH	(60°-80°)	5246.9	25.9			G3/7500
FVH	(80°-90°)	168.1	0.8			G2/225
BL	(0°-30°)	1306.7	6.5	B3/2500		
BM	(30°-60°)	2702.4	13.4	B3/5000		
BH	(60°-80°)	1280.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	71.1	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°	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2
2.5°	3785.5	3779.5	3776.5	3764.6	3737.7	3749.7	3722.8	3704.9	3701.9	3660.2	3636.3
5°	3940.6	3937.6	3931.6	3913.7	3872.0	3877.9	3833.2	3800.4	3791.4	3725.8	3675.1
7.5°	4071.8	4065.9	4062.9	4039.0	3994.3	3991.3	3937.6	3889.9	3875.0	3785.5	3707.9
10°	4173.3	4164.3	4170.3	4146.4	4098.7	4089.7	4021.1	3958.5	3943.6	3830.2	3722.8
12.5°	4259.8	4253.8	4262.8	4241.9	4203.1	4194.1	4125.5	4045.0	4027.1	3895.8	3755.6
15°	4355.2	4334.3	4352.2	4343.3	4316.5	4313.5	4250.8	4161.3	4137.5	3979.4	3806.4
17.5°	4405.9	4394.0	4414.9	4417.9	4405.9	4426.8	4367.2	4259.8	4238.9	4056.9	3851.1
20°	4441.7	4423.8	4447.7	4465.6	4474.6	4516.3	4468.6	4364.2	4340.3	4131.5	3892.9
22.5°	4564.0	4525.3	4528.2	4540.2	4546.1	4605.8	4576.0	4474.6	4450.7	4224.0	3943.6
25°	4871.3	4793.7	4743.0	4707.2	4665.5	4716.2	4698.3	4599.8	4579.0	4334.3	4006.2
27.5°	5348.6	5250.1	5148.7	5044.3	4880.2	4859.4	4829.5	4740.0	4716.2	4444.7	4068.9
30°	5891.5	5793.1	5673.7	5506.7	5199.4	5038.3	4969.7	4871.3	4844.4	4543.2	4128.5
32.5°	6431.4	6344.9	6225.6	6022.7	5584.2	5256.1	5109.9	5008.5	4981.7	4650.6	4200.1
35°	6852.0	6798.3	6720.8	6467.2	5966.1	5512.6	5312.8	5190.5	5160.7	4820.6	4331.4
37.5°	7192.1	7153.3	7087.7	6822.2	6243.5	5769.2	5545.5	5405.3	5372.4	5005.5	4471.6
40°	7693.2	7591.8	7538.1	7153.3	6485.1	6001.9	5808.0	5661.8	5626.0	5202.4	4584.9
42.5°	8119.8	8045.2	7979.6	7448.6	6714.8	6201.7	6055.6	5921.3	5873.6	5396.3	4707.2
45°	8191.4	8221.2	8188.4	7594.8	7078.7	6398.6	6306.1	6219.6	6174.9	5658.8	4892.2
47.5°	8194.4	8194.4	8000.5	7678.3	7529.2	6619.4	6574.6	6604.4	6556.7	5992.9	5112.9
50°	7979.6	8018.4	7917.0	7699.2	7648.5	6840.1	6902.7	7063.8	7016.1	6347.9	5351.6
52.5°	7535.1	7663.4	7660.4	7666.4	7475.5	7028.0	7248.8	7615.7	7535.1	6747.6	5605.1
55°	6750.6	7007.1	7236.8	7433.7	7326.3	7141.4	7672.4	8203.3	8119.8	7195.1	5861.7
57.5°	6079.4	6243.5	6529.9	7087.7	7150.3	7239.8	8069.1	8817.9	8743.3	7690.3	6130.1
60°	5312.8	5539.5	5825.9	6619.4	6935.6	7368.1	8504.6	9417.4	9345.8	8191.4	6389.7
62.5°	4134.5	4426.8	4999.6	5900.4	6622.3	7448.6	8847.7	9945.4	9912.6	8665.7	6622.3
65°	2881.6	3141.1	3943.6	5017.5	6124.2	7412.8	9122.1	10416.8	10386.9	9053.5	6786.4
67.5°	1682.4	1983.7	2890.6	4039.0	5244.2	7165.2	9211.6	10694.2	10694.2	9289.2	6831.2
70°	960.5	1100.7	1906.2	2944.3	4021.1	6482.1	8961.0	10691.2	10741.9	9235.5	6646.2
72.5°	671.2	733.8	1282.7	1980.7	2726.5	5244.2	8304.8	10175.1	10243.7	8728.4	6013.8
75°	522.0	566.8	903.9	1351.3	1718.2	3561.7	6869.9	8579.2	8761.2	7439.7	4862.3
77.5°	396.7	429.6	528.0	844.2	1100.7	2046.4	4534.2	5626.0	5637.9	4555.1	2607.2
80°	289.4	322.2	352.0	516.1	584.7	957.6	1712.3	2350.6	2285.0	2204.5	1411.0
82.5°	173.0	205.8	214.8	280.4	286.4	408.7	599.6	757.7	727.9	969.5	662.2
85°	74.6	104.4	110.4	128.3	122.3	167.0	238.6	199.9	179.0	205.8	143.2
87.5°	17.9	29.8	29.8	32.8	26.8	41.8	44.7	32.8	29.8	35.8	35.8
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°	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2	3651.2
2.5°	3630.4	3621.4	3624.4	3573.7	3558.8	3543.8	3534.9	3528.9	3523.0	3531.9	3540.9
5°	3657.2	3636.3	3612.5	3537.9	3508.0	3475.2	3451.4	3430.5	3421.5	3421.5	3430.5
7.5°	3678.1	3642.3	3591.6	3493.1	3439.4	3394.7	3355.9	3329.1	3314.2	3314.2	3323.1
10°	3681.1	3630.4	3549.8	3430.5	3358.9	3293.3	3248.5	3218.7	3197.8	3197.8	3203.8
12.5°	3699.0	3630.4	3525.9	3382.8	3293.3	3212.7	3159.0	3114.3	3105.3	3105.3	3111.3
15°	3728.8	3645.3	3511.0	3341.0	3233.6	3141.1	3081.5	3033.7	3015.8	3027.8	3030.8
17.5°	3755.6	3654.2	3484.2	3287.3	3159.0	3057.6	2992.0	2950.2	2926.4	2953.2	2953.2
20°	3773.5	3654.2	3445.4	3218.7	3078.5	2965.1	2902.5	2851.8	2833.9	2866.7	2869.7
22.5°	3800.4	3651.2	3403.6	3150.1	2992.0	2872.7	2810.0	2771.2	2762.3	2798.1	2810.0
25°	3830.2	3657.2	3358.9	3072.5	2896.5	2780.2	2732.5	2714.6	2720.5	2765.3	2780.2
27.5°	3863.0	3669.1	3314.2	2986.0	2792.1	2687.7	2660.9	2669.8	2693.7	2750.4	2768.3
30°	3892.9	3672.1	3251.5	2884.6	2672.8	2574.4	2586.3	2625.1	2660.9	2717.5	2738.4
32.5°	3931.6	3675.1	3185.9	2774.2	2544.5	2472.9	2526.6	2589.3	2625.1	2678.8	2702.6
35°	4027.1	3725.8	3135.2	2666.8	2425.2	2386.4	2475.9	2556.5	2577.3	2625.1	2646.0
37.5°	4137.5	3809.3	3108.3	2556.5	2308.9	2299.9	2413.3	2493.8	2499.8	2529.6	2550.5
40°	4206.1	3845.1	3078.5	2464.0	2204.5	2210.4	2326.8	2389.4	2377.5	2398.4	2413.3
42.5°	4274.7	3857.1	3015.8	2386.4	2106.0	2112.0	2201.5	2246.2	2252.2	2296.9	2317.8
45°	4391.0	3889.9	2947.2	2314.8	2016.5	1995.7	2049.3	2109.0	2186.6	2273.1	2296.9
47.5°	4546.1	3958.5	2875.6	2228.3	1930.0	1861.4	1882.3	1986.7	2067.2	2147.8	2162.7
50°	4704.2	4027.1	2810.0	2123.9	1843.5	1718.2	1727.2	1822.6	1888.3	1950.9	1959.9
52.5°	4859.4	4086.8	2753.3	2025.5	1745.1	1548.2	1584.0	1682.4	1727.2	1757.0	1766.0
55°	5014.5	4137.5	2702.6	1942.0	1631.7	1414.0	1446.8	1539.2	1584.0	1598.9	1604.9
57.5°	5175.6	4197.1	2663.9	1870.4	1503.4	1294.6	1315.5	1381.1	1422.9	1440.8	1434.8
60°	5309.8	4247.8	2643.0	1795.8	1375.2	1184.3	1178.3	1238.0	1297.6	1315.5	1309.6
62.5°	5414.2	4280.7	2610.2	1700.3	1261.8	1073.9	1044.1	1121.6	1184.3	1196.2	1205.1
65°	5470.9	4283.6	2529.6	1578.0	1145.5	954.6	933.7	1011.2	1050.0	1062.0	1062.0
67.5°	5461.9	4235.9	2371.5	1414.0	1038.1	847.2	829.3	877.0	933.7	942.6	933.7
70°	5277.0	4039.0	2118.0	1240.9	909.8	751.7	718.9	766.6	820.3	787.5	772.6
72.5°	4752.0	3528.9	1745.1	1050.0	766.6	632.4	617.5	665.2	668.2	674.2	659.3
75°	3749.7	2628.1	1306.6	817.4	620.5	531.0	528.0	519.0	531.0	554.8	536.9
77.5°	1968.8	1312.5	707.0	501.1	450.4	426.6	405.7	402.7	438.5	453.4	435.5
80°	1067.9	736.8	405.7	301.3	274.4	277.4	304.3	298.3	337.1	346.0	331.1
82.5°	465.4	349.0	199.9	182.0	182.0	179.0	187.9	208.8	250.6	250.6	199.9
85°	101.4	86.5	77.6	89.5	101.4	101.4	101.4	101.4	71.6	38.8	26.8
87.5°	32.8	32.8	32.8	35.8	38.8	38.8	32.8	23.9	14.9	3.0	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)