

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: P836239

Luminaire Tested: **ARCH3-160-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836239
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: ARCH3-160-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19507 lumens
Efficiency: N/A
Efficacy: 121.2 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): 161
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



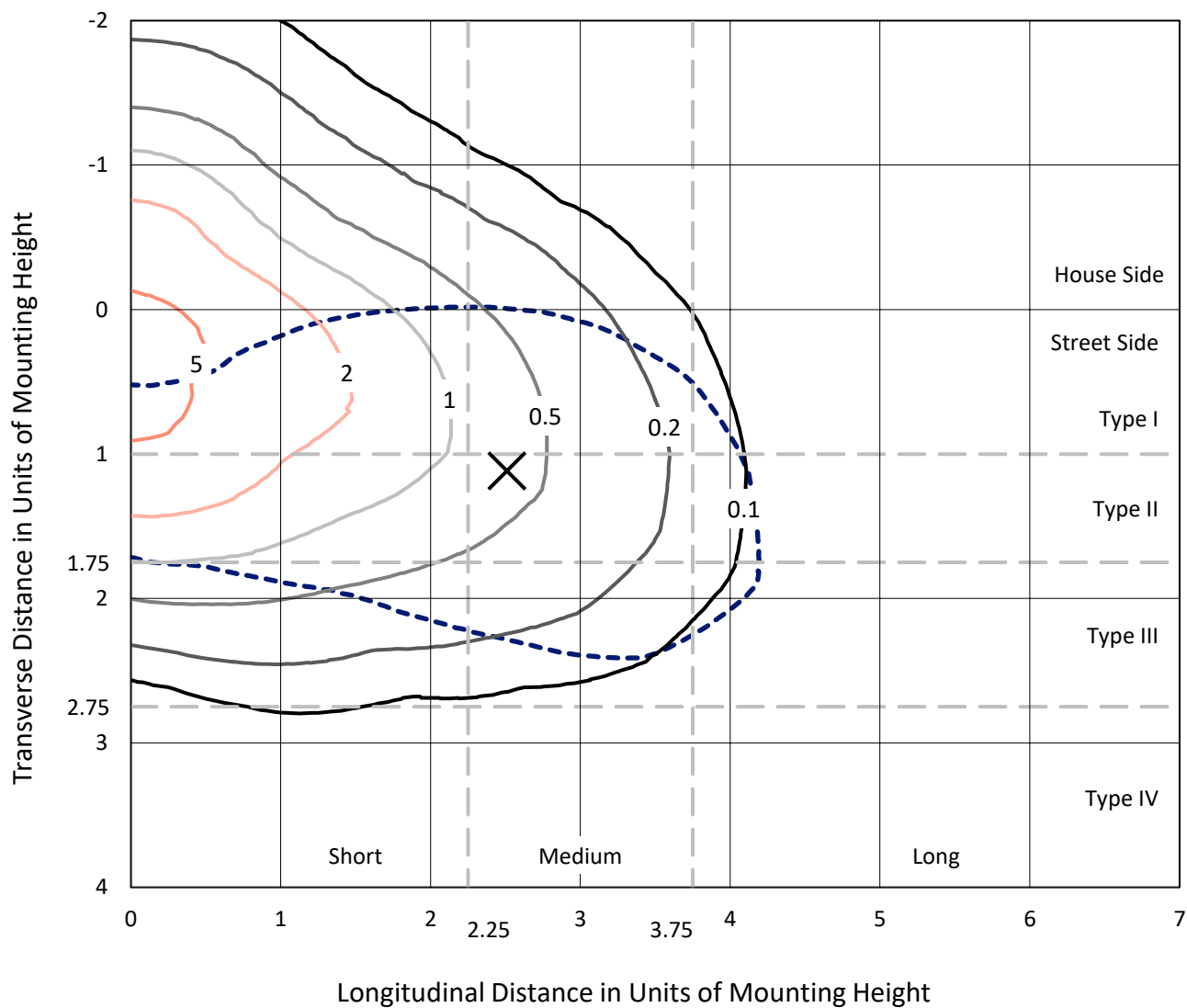
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Iso-Footcandle Lines of Horizontal Illumination

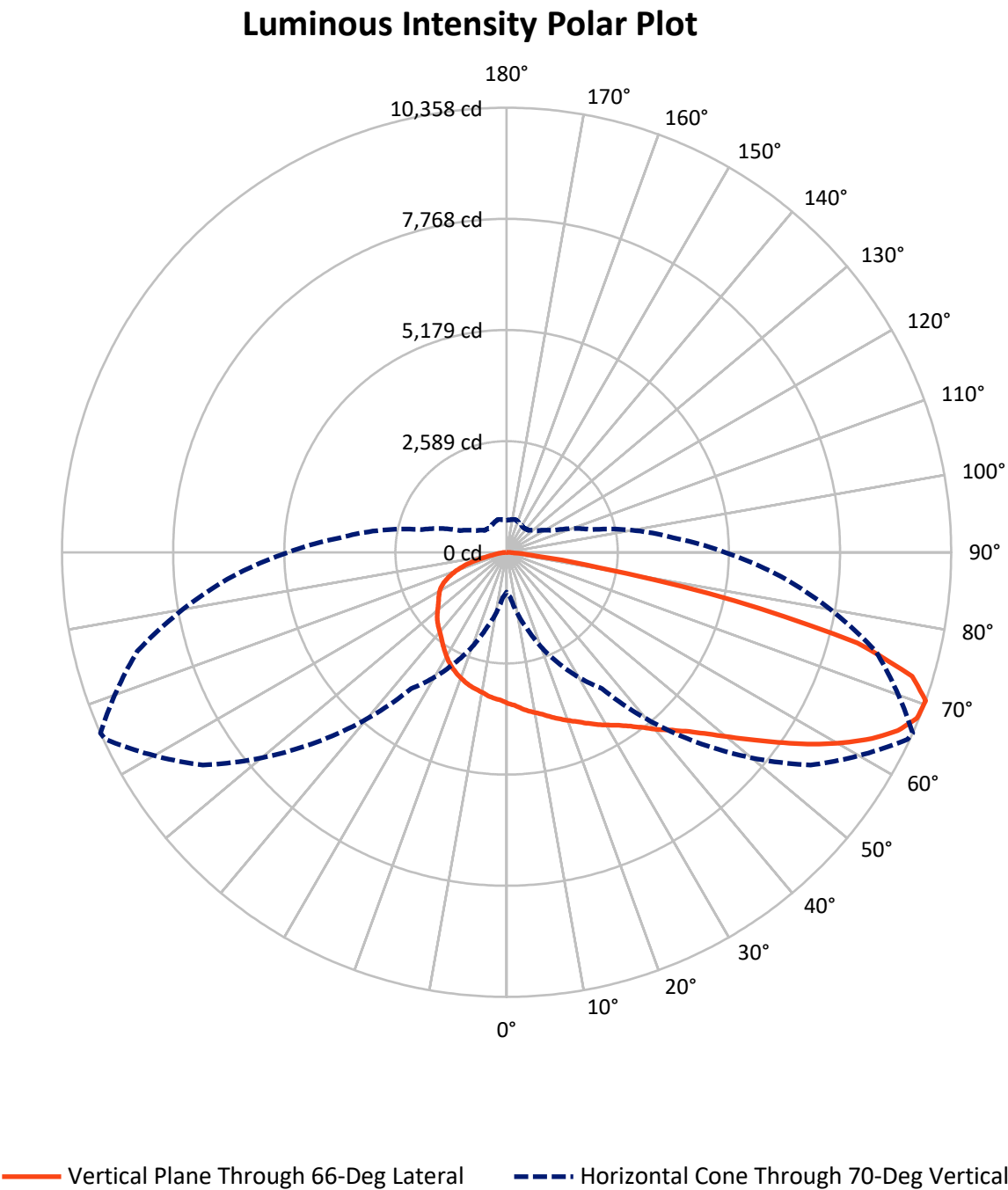
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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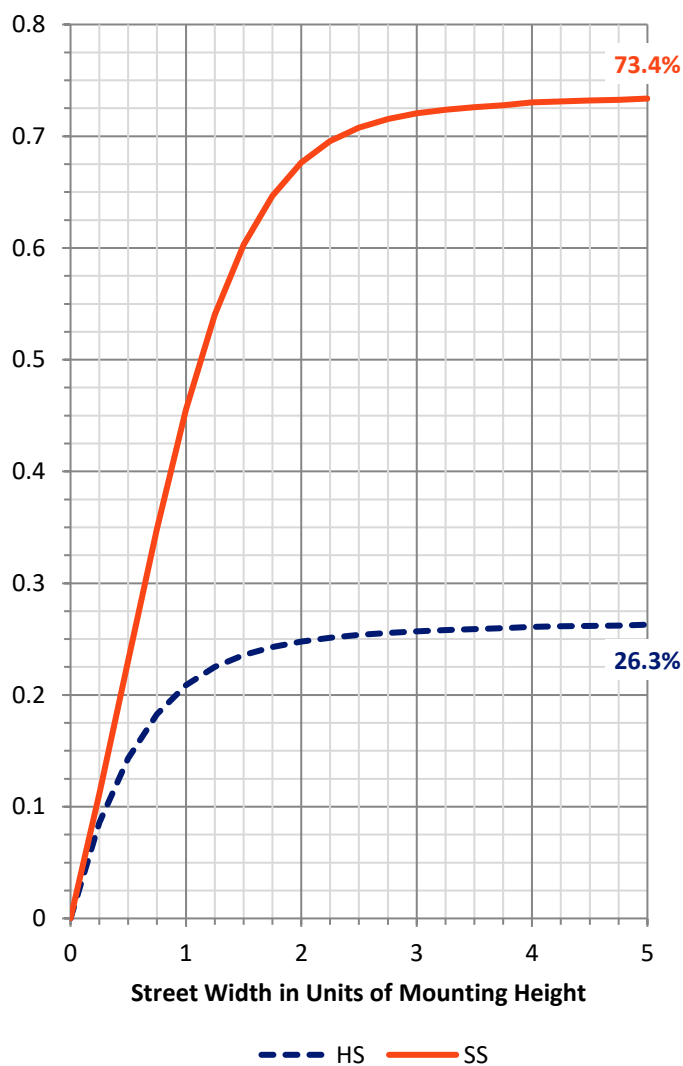
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5168.9	0.0	5168.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14338.1	0.0	14338.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	19507.0	0.0	19507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.7
10°-20°	1014.7	5.2
20°-30°	1701.0	8.7
30°-40°	2547.0	13.1
40°-50°	3405.4	17.5
50°-60°	3975.9	20.4
60°-70°	3953.4	20.3
70°-80°	2340.5	12.0
80°-90°	230.7	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°	19507.0	100.0
0°-180°	19507.0	100.0

Coefficient of Utilization



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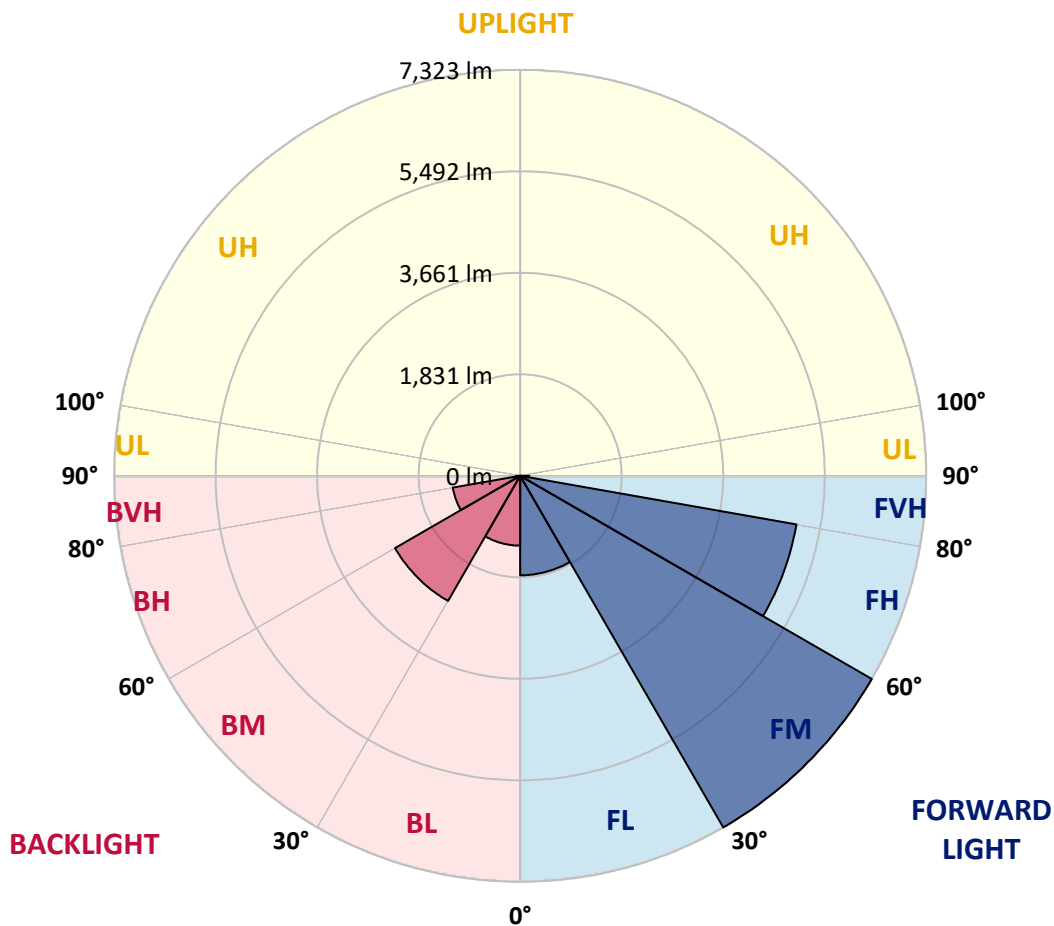
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1794.1	9.2			
FM	(30°-60°)	7322.7	37.5			
FH	(60°-80°)	5059.2	25.9			G3/7500
FVH	(80°-90°)	162.1	0.8			G2/225
BL	(0°-30°)	1260.0	6.5	B3/2500		
BM	(30°-60°)	2605.7	13.4	B3/5000		
BH	(60°-80°)	1234.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	68.6	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°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3650.0	3644.2	3641.4	3629.9	3604.0	3615.5	3589.6	3572.3	3569.5	3529.2	3506.2
5°	3799.6	3796.7	3790.9	3773.7	3733.4	3739.2	3696.0	3664.4	3655.8	3592.5	3543.6
7.5°	3926.1	3920.4	3917.5	3894.5	3851.3	3848.5	3796.7	3750.7	3736.3	3650.0	3575.2
10°	4023.9	4015.3	4021.0	3998.0	3952.0	3943.4	3877.2	3816.8	3802.4	3693.1	3589.6
12.5°	4107.3	4101.6	4110.2	4090.1	4052.7	4044.1	3977.9	3900.2	3883.0	3756.4	3621.2
15°	4199.4	4179.2	4196.5	4187.9	4162.0	4159.1	4098.7	4012.4	3989.4	3837.0	3670.1
17.5°	4248.3	4236.8	4256.9	4259.8	4248.3	4268.4	4210.9	4107.3	4087.2	3911.7	3713.3
20°	4282.8	4265.5	4288.5	4305.8	4314.4	4354.7	4308.7	4208.0	4185.0	3983.7	3753.5
22.5°	4400.7	4363.3	4366.2	4377.7	4383.5	4441.0	4412.2	4314.4	4291.4	4072.8	3802.4
25°	4697.0	4622.2	4573.3	4538.8	4498.5	4547.4	4530.1	4435.2	4415.1	4179.2	3862.8
27.5°	5157.2	5062.3	4964.5	4863.8	4705.6	4685.5	4656.7	4570.4	4547.4	4285.7	3923.2
30°	5680.7	5585.7	5470.7	5309.6	5013.4	4858.0	4791.9	4697.0	4671.1	4380.6	3980.8
32.5°	6201.3	6117.9	6002.8	5807.2	5384.4	5068.0	4927.1	4829.3	4803.4	4484.1	4049.8
35°	6606.8	6555.0	6480.3	6235.8	5752.6	5315.4	5122.7	5004.7	4976.0	4648.1	4176.4
37.5°	6934.7	6897.3	6834.0	6578.1	6020.1	5562.7	5347.0	5211.8	5180.2	4826.4	4311.5
40°	7417.9	7320.1	7268.4	6897.3	6253.0	5787.1	5600.1	5459.2	5424.7	5016.2	4420.8
42.5°	7829.2	7757.3	7694.1	7182.1	6474.5	5979.8	5838.9	5709.4	5663.4	5203.2	4538.8
45°	7898.3	7927.0	7895.4	7323.0	6825.4	6169.6	6080.5	5997.0	5953.9	5456.3	4717.1
47.5°	7901.1	7901.1	7714.2	7403.6	7259.7	6382.5	6339.3	6368.1	6322.1	5778.5	4929.9
50°	7694.1	7731.4	7633.7	7423.7	7374.8	6595.3	6655.7	6811.0	6765.0	6120.7	5160.1
52.5°	7265.5	7389.2	7386.3	7392.0	7208.0	6776.5	6989.4	7343.1	7265.5	6506.2	5404.5
55°	6509.0	6756.4	6977.9	7167.7	7064.1	6885.8	7397.8	7909.8	7829.2	6937.6	5651.9
57.5°	5861.9	6020.1	6296.2	6834.0	6894.4	6980.7	7780.3	8502.3	8430.4	7415.1	5910.8
60°	5122.7	5341.3	5617.4	6382.5	6687.4	7104.4	8200.3	9080.4	9011.4	7898.3	6161.0
62.5°	3986.5	4268.4	4820.6	5689.3	6385.3	7182.1	8531.1	9589.5	9557.9	8355.6	6385.3
65°	2778.5	3028.7	3802.4	4837.9	5905.0	7147.6	8795.7	10044.0	10015.2	8729.5	6543.5
67.5°	1622.2	1912.7	2787.1	3894.5	5056.5	6908.8	8882.0	10311.5	10311.5	8956.7	6586.7
70°	926.2	1061.3	1837.9	2838.9	3877.2	6250.2	8640.4	10308.6	10357.5	8905.0	6408.4
72.5°	647.2	707.6	1236.8	1909.9	2628.9	5056.5	8007.6	9811.0	9877.2	8416.0	5798.6
75°	503.3	546.5	871.5	1303.0	1656.7	3434.3	6624.1	8272.2	8447.6	7173.4	4688.3
77.5°	382.5	414.2	509.1	814.0	1061.3	1973.1	4371.9	5424.7	5436.2	4392.1	2513.9
80°	279.0	310.6	339.4	497.6	563.8	923.3	1651.0	2266.5	2203.2	2125.6	1360.5
82.5°	166.8	198.5	207.1	270.4	276.1	394.1	578.1	730.6	701.8	934.8	638.5
85°	71.9	100.7	106.4	123.7	117.9	161.1	230.1	192.7	172.6	198.5	138.1
87.5°	17.3	28.8	28.8	31.6	25.9	40.3	43.1	31.6	28.8	34.5	34.5
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°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3500.4	3491.8	3494.7	3445.8	3431.4	3417.0	3408.4	3402.6	3396.9	3405.5	3414.1
5°	3526.3	3506.2	3483.2	3411.3	3382.5	3350.9	3327.9	3307.7	3299.1	3299.1	3307.7
7.5°	3546.5	3511.9	3463.0	3368.1	3316.4	3273.2	3235.8	3209.9	3195.5	3195.5	3204.2
10°	3549.3	3500.4	3422.8	3307.7	3238.7	3175.4	3132.3	3103.5	3083.4	3083.4	3089.1
12.5°	3566.6	3500.4	3399.8	3261.7	3175.4	3097.8	3046.0	3002.8	2994.2	2994.2	3000.0
15°	3595.4	3514.8	3385.4	3221.4	3117.9	3028.7	2971.2	2925.2	2907.9	2919.4	2922.3
17.5°	3621.2	3523.4	3359.5	3169.7	3046.0	2948.2	2884.9	2844.6	2821.6	2847.5	2847.5
20°	3638.5	3523.4	3322.1	3103.5	2968.3	2859.0	2798.6	2749.7	2732.5	2764.1	2767.0
22.5°	3664.4	3520.6	3281.8	3037.4	2884.9	2769.9	2709.5	2672.1	2663.4	2698.0	2709.5
25°	3693.1	3526.3	3238.7	2962.6	2792.9	2680.7	2634.7	2617.4	2623.2	2666.3	2680.7
27.5°	3724.8	3537.8	3195.5	2879.2	2692.2	2591.5	2565.6	2574.3	2597.3	2651.9	2669.2
30°	3753.5	3540.7	3135.1	2781.4	2577.1	2482.2	2493.7	2531.1	2565.6	2620.3	2640.4
32.5°	3790.9	3543.6	3071.9	2674.9	2453.5	2384.4	2436.2	2496.6	2531.1	2582.9	2605.9
35°	3883.0	3592.5	3023.0	2571.4	2338.4	2301.0	2387.3	2465.0	2485.1	2531.1	2551.3
37.5°	3989.4	3673.0	2997.1	2465.0	2226.2	2217.6	2326.9	2404.6	2410.3	2439.1	2459.2
40°	4055.6	3707.5	2968.3	2375.8	2125.6	2131.3	2243.5	2303.9	2292.4	2312.5	2326.9
42.5°	4121.7	3719.0	2907.9	2301.0	2030.7	2036.4	2122.7	2165.8	2171.6	2214.7	2234.9
45°	4233.9	3750.7	2841.8	2232.0	1944.4	1924.2	1976.0	2033.5	2108.3	2191.7	2214.7
47.5°	4383.5	3816.8	2772.7	2148.6	1861.0	1794.8	1814.9	1915.6	1993.3	2070.9	2085.3
50°	4535.9	3883.0	2709.5	2047.9	1777.5	1656.7	1665.4	1757.4	1820.7	1881.1	1889.7
52.5°	4685.5	3940.5	2654.8	1953.0	1682.6	1492.8	1527.3	1622.2	1665.4	1694.1	1702.8
55°	4835.0	3989.4	2605.9	1872.5	1573.3	1363.4	1395.0	1484.2	1527.3	1541.7	1547.4
57.5°	4990.3	4046.9	2568.5	1803.4	1449.6	1248.3	1268.4	1331.7	1372.0	1389.2	1383.5
60°	5119.8	4095.8	2548.4	1731.5	1326.0	1141.9	1136.1	1193.7	1251.2	1268.4	1262.7
62.5°	5220.5	4127.5	2516.7	1639.5	1216.7	1035.5	1006.7	1081.5	1141.9	1153.4	1162.0
65°	5275.1	4130.3	2439.1	1521.6	1104.5	920.4	900.3	975.1	1012.5	1024.0	1024.0
67.5°	5266.5	4084.3	2286.6	1363.4	1000.9	816.9	799.6	845.6	900.3	908.9	900.3
70°	5088.1	3894.5	2042.2	1196.5	877.3	724.8	693.2	739.2	791.0	759.3	745.0
72.5°	4581.9	3402.6	1682.6	1012.5	739.2	609.8	595.4	641.4	644.3	650.0	635.7
75°	3615.5	2534.0	1259.8	788.1	598.3	512.0	509.1	500.5	512.0	535.0	517.7
77.5°	1898.3	1265.6	681.7	483.2	434.3	411.3	391.2	388.3	422.8	437.2	419.9
80°	1029.7	710.4	391.2	290.5	264.6	267.5	293.4	287.6	325.0	333.6	319.3
82.5°	448.7	336.5	192.7	175.5	175.5	172.6	181.2	201.3	241.6	241.6	192.7
85°	97.8	83.4	74.8	86.3	97.8	97.8	97.8	97.8	69.0	37.4	25.9
87.5°	31.6	31.6	31.6	34.5	37.4	37.4	31.6	23.0	14.4	2.9	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)