

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: P1211161

Luminaire Tested: **ARCH4-190-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27867 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 190
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



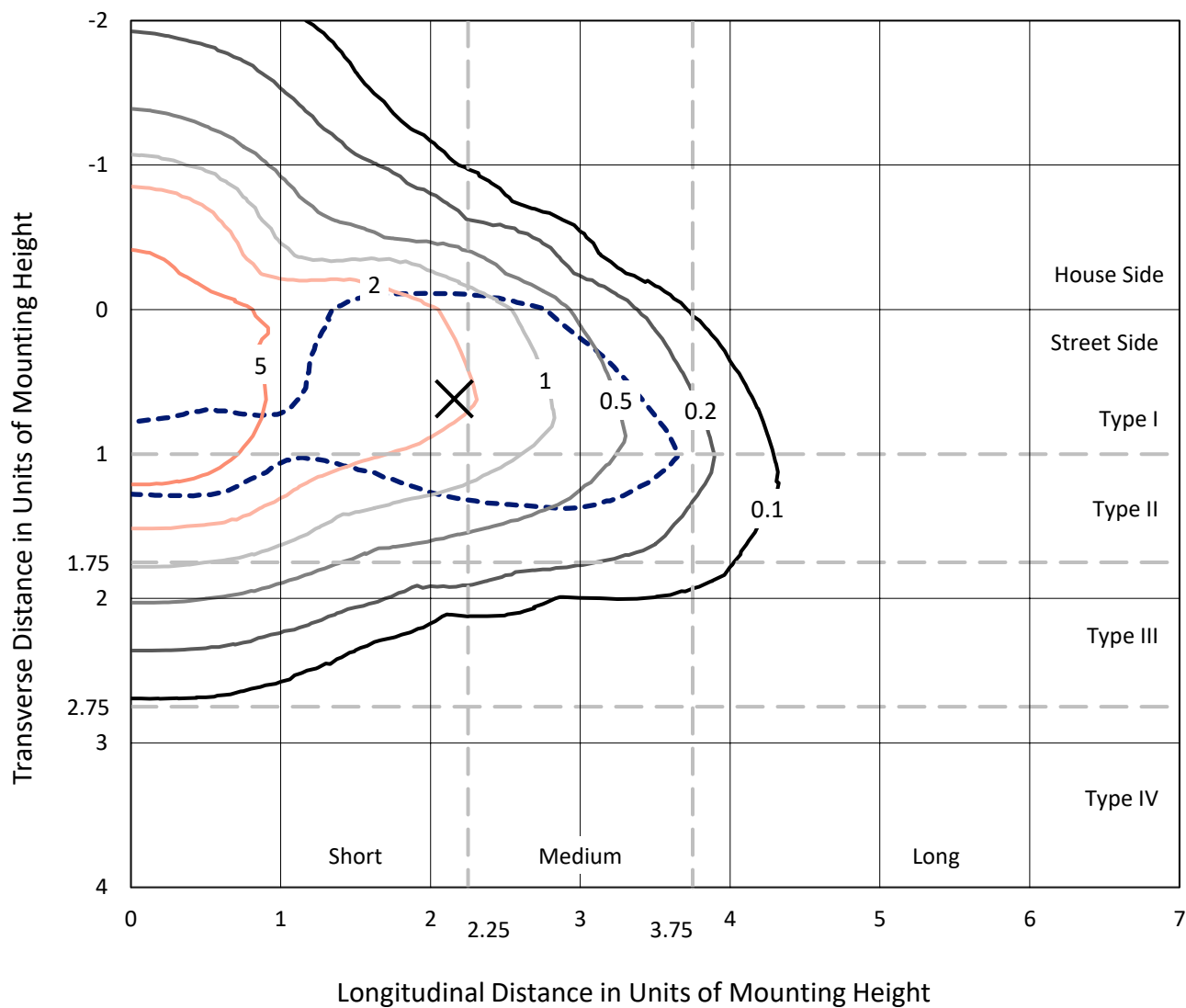
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

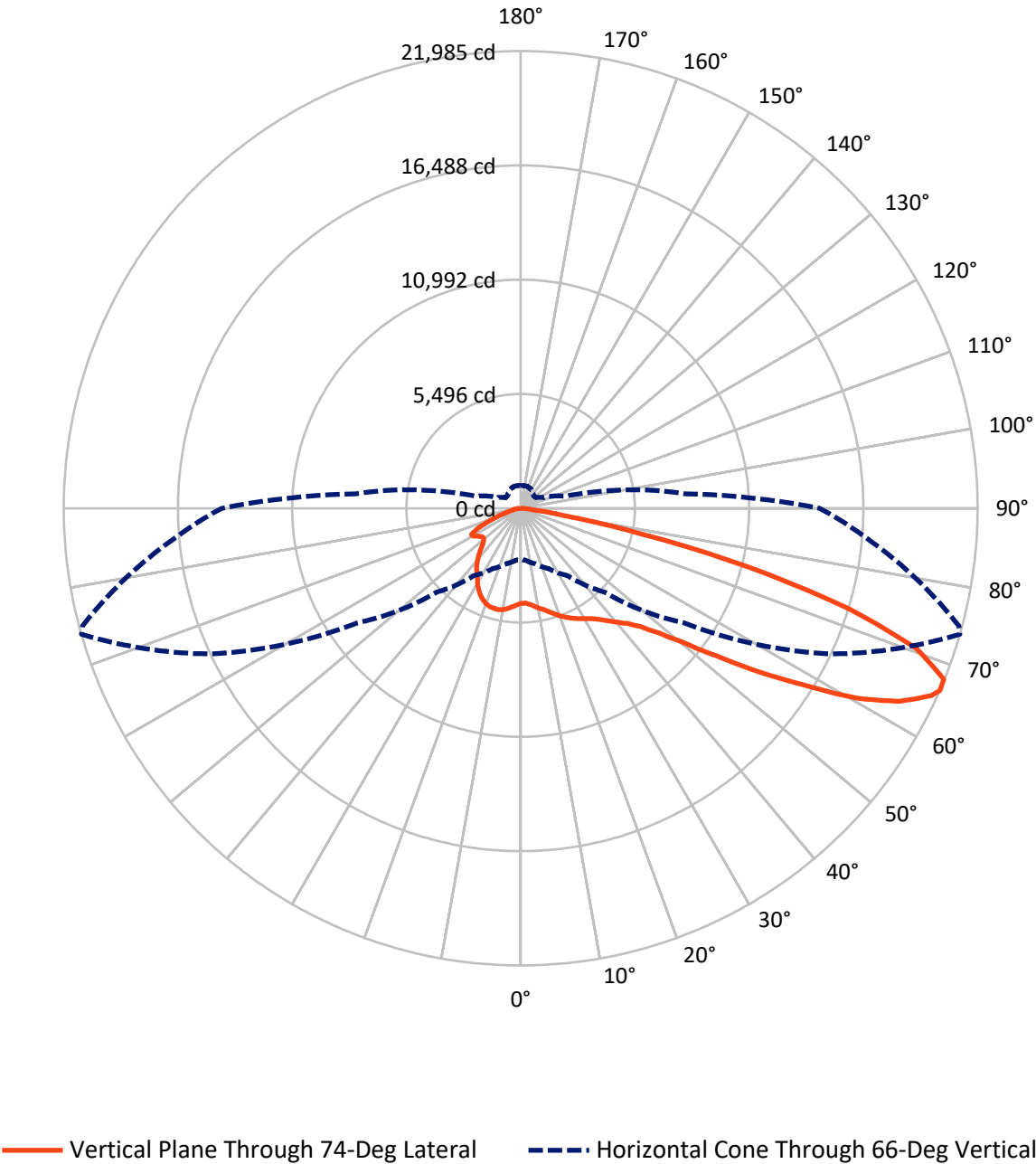


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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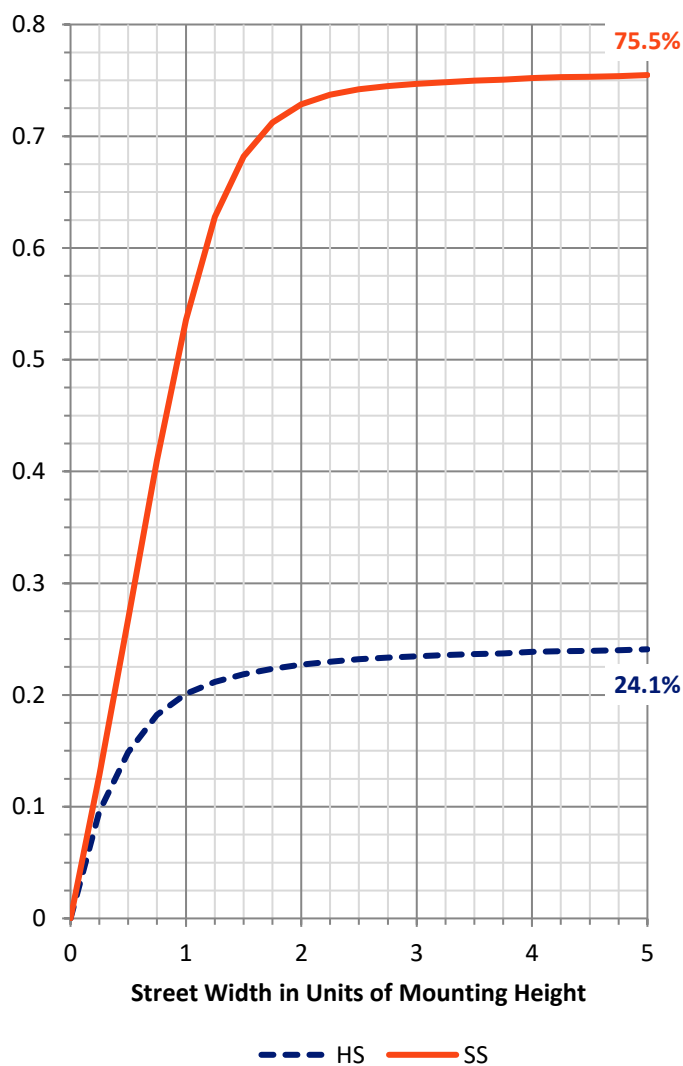
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6786.4	0.0	6786.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	21080.6	0.0	21080.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	27867.0	0.0	27867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.8	1.6
10°-20°	1340.1	4.8
20°-30°	2514.7	9.0
30°-40°	3868.2	13.9
40°-50°	5203.1	18.7
50°-60°	6153.3	22.1
60°-70°	5692.1	20.4
70°-80°	2394.6	8.6
80°-90°	265.0	1.0
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°	27867.0	100.0
0°-180°	27867.0	100.0

Coefficient of Utilization



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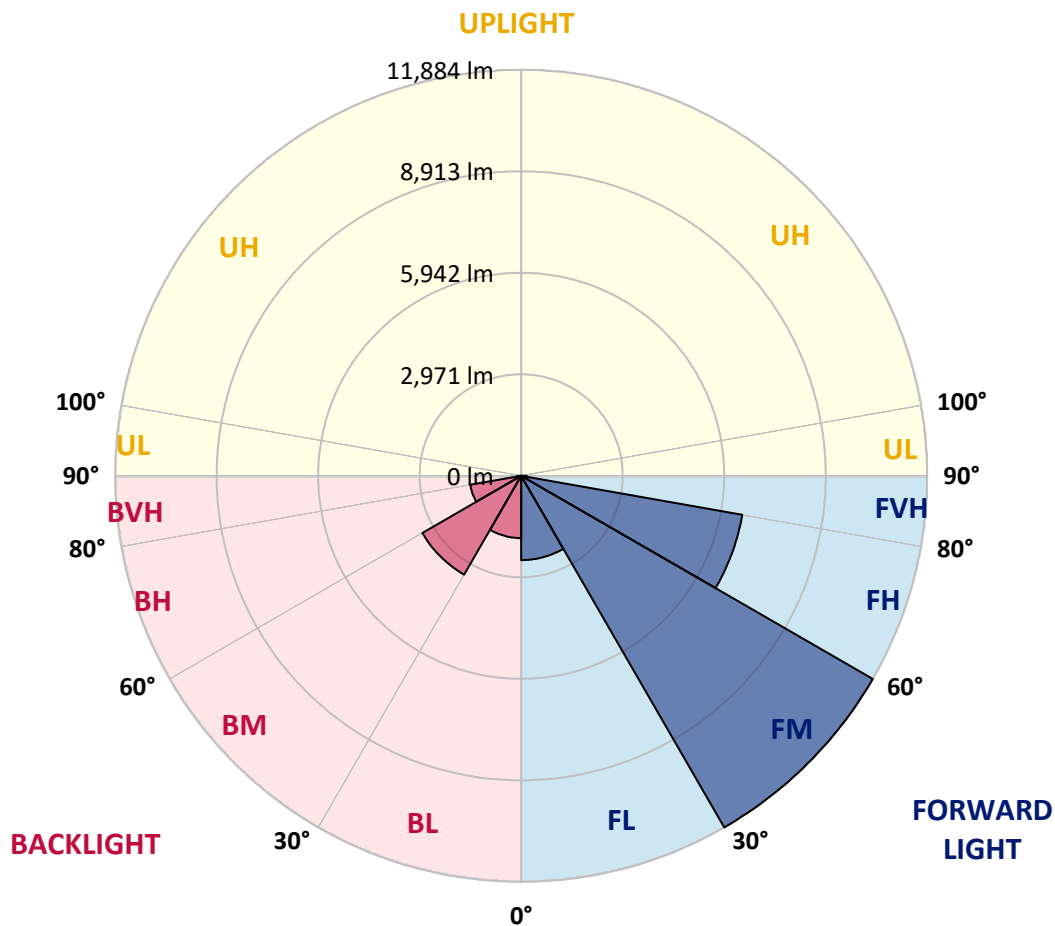
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.6	8.9			
FM	(30°-60°)	11883.7	42.6			
FH	(60°-80°)	6571.8	23.6			G3/7500
FVH	(80°-90°)	158.5	0.6			G2/225
BL	(0°-30°)	1824.0	6.5	B3/2500		
BM	(30°-60°)	3340.9	12.0	B3/5000		
BH	(60°-80°)	1515.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	106.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3
2.5°	4554.0	4546.8	4561.2	4582.7	4593.4	4575.5	4568.3	4564.7	4564.7	4554.0	4571.9
5°	4338.8	4335.2	4367.5	4407.0	4482.3	4536.1	4607.8	4650.8	4636.5	4614.9	4629.3
7.5°	4059.1	4052.0	4091.4	4166.7	4270.7	4389.0	4564.7	4701.0	4754.8	4747.6	4744.0
10°	4166.7	4159.5	4156.0	4134.4	4170.3	4285.0	4467.9	4708.2	4891.1	4894.6	4898.2
12.5°	4539.6	4557.6	4539.6	4471.5	4392.6	4349.6	4457.2	4726.1	5005.8	5027.3	5117.0
15°	5048.8	5030.9	4995.0	4916.2	4794.2	4665.1	4586.3	4808.6	5170.7	5188.7	5385.9
17.5°	5497.1	5511.4	5489.9	5414.6	5271.1	5102.6	4862.4	4952.0	5346.4	5396.7	5672.8
20°	5984.7	6042.1	6013.4	5920.2	5801.8	5550.8	5249.6	5160.0	5540.1	5575.9	5970.4
22.5°	6547.7	6608.7	6554.9	6465.2	6368.4	6060.0	5672.8	5414.6	5701.4	5776.7	6257.2
25°	7221.8	7279.2	7229.0	7089.2	6967.2	6590.7	6128.2	5701.4	5859.2	5941.7	6490.3
27.5°	7756.1	7799.1	7845.8	7763.3	7576.8	7186.0	6601.5	5999.1	6017.0	6103.1	6705.5
30°	8233.0	8340.6	8380.0	8390.8	8233.0	7795.6	7085.6	6307.4	6153.3	6242.9	6920.6
32.5°	8885.6	9047.0	8982.5	9047.0	8953.8	8369.3	7587.6	6626.6	6329.0	6411.4	7125.0
35°	9839.5	9968.6	9800.0	9749.8	9599.2	8950.2	8071.7	6956.5	6562.0	6651.7	7318.6
37.5°	10865.0	11012.0	10768.2	10567.4	10280.5	9523.9	8487.6	7390.4	6884.8	6956.5	7497.9
40°	11761.5	11883.4	11671.8	11406.5	10926.0	10029.5	8846.2	7695.2	7207.5	7297.1	7705.9
42.5°	12589.8	12668.7	12432.0	12177.4	11535.6	10484.9	9233.5	8017.9	7584.0	7670.1	7874.4
45°	13428.9	13489.8	13159.9	12797.8	12044.8	10900.9	9660.2	8469.7	8136.2	8251.0	8147.0
47.5°	13579.5	13597.4	13540.0	13296.2	12446.4	11298.9	10187.3	9075.7	8978.9	9104.4	8616.7
50°	12536.0	12697.4	13052.4	13292.6	12607.7	11632.4	10714.4	9943.5	10140.7	10302.0	9592.1
52.5°	10510.0	10664.2	11485.4	12396.2	12220.5	11707.7	11281.0	11044.3	11779.4	11973.0	10918.8
55°	8372.9	8509.1	9376.9	10689.3	10969.0	11363.4	11887.0	12449.9	13869.9	13999.0	12374.6
57.5°	6895.5	6970.8	7591.2	8853.4	9301.6	10262.6	12213.3	14120.9	15996.3	16193.5	13640.4
60°	5654.8	5737.3	6199.9	7239.8	7835.0	8688.4	11955.1	15770.4	18535.1	18535.1	15264.8
62.5°	4256.4	4328.1	4758.4	5572.4	6572.8	7354.5	11130.4	16864.1	20449.9	20363.8	16441.0
65°	2922.4	2979.8	3291.8	3833.2	4733.3	6268.0	10004.4	16878.4	21719.3	21604.5	16943.0
66°	2452.7	2502.9	2768.2	3205.7	3962.3	5687.1	9606.4	16573.6	21984.6	21823.3	16731.4
67.5°	1936.3	1972.2	2147.9	2406.1	2904.5	4604.2	8978.9	15709.5	21959.5	21862.7	16193.5
70°	1384.1	1409.2	1538.3	1592.1	1717.6	2664.3	7132.2	13758.8	20198.9	20227.6	14077.9
72.5°	1072.2	1111.6	1190.5	1201.2	1172.6	1416.4	4328.1	11478.2	16523.4	16512.7	10449.1
75°	864.2	885.7	925.1	946.7	939.5	914.4	1832.4	8562.9	11374.2	11506.9	5852.0
77.5°	681.3	677.7	713.6	742.3	763.8	717.2	839.1	5020.1	5963.2	5794.7	2198.1
80°	502.0	502.0	552.2	563.0	595.2	602.4	559.4	1936.3	2047.5	1861.0	570.1
82.5°	329.9	329.9	383.7	390.9	423.1	469.7	405.2	580.9	566.6	537.9	258.2
85°	179.3	172.1	190.0	215.1	233.1	276.1	243.8	290.5	297.6	294.0	172.1
87.5°	35.9	32.3	50.2	57.4	64.5	86.1	78.9	118.3	164.9	161.4	75.3
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°	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3	4568.3
2.5°	4597.0	4593.4	4632.9	4679.5	4733.3	4765.5	4779.9	4805.0	4787.1	4794.2	4815.7
5°	4665.1	4675.9	4733.3	4794.2	4819.3	4801.4	4762.0	4747.6	4715.3	4708.2	4701.0
7.5°	4765.5	4783.5	4840.8	4855.2	4779.9	4654.4	4564.7	4514.5	4460.8	4446.4	4439.2
10°	4930.5	4941.3	4955.6	4808.6	4622.1	4453.6	4342.4	4295.8	4259.9	4231.3	4238.4
12.5°	5138.5	5131.3	5020.1	4715.3	4450.0	4277.9	4202.6	4173.9	4148.8	4130.9	4127.3
15°	5400.2	5350.0	5030.9	4586.3	4288.6	4145.2	4091.4	4080.7	4052.0	4052.0	4048.4
17.5°	5665.6	5536.5	5023.7	4450.0	4134.4	4055.6	4023.3	4016.1	4008.9	4005.4	4016.1
20°	5930.9	5701.4	4966.4	4281.5	4026.9	3980.3	3973.1	3976.7	3969.5	3980.3	3973.1
22.5°	6164.0	5809.0	4858.8	4102.2	3951.6	3948.0	3930.1	3937.2	3962.3	3965.9	3976.7
25°	6343.3	5848.5	4701.0	3937.2	3897.8	3890.6	3912.1	3940.8	3962.3	3965.9	3983.8
27.5°	6490.3	5826.9	4503.8	3808.1	3804.5	3844.0	3908.5	3919.3	3922.9	3922.9	3908.5
30°	6601.5	5780.3	4252.8	3664.7	3682.6	3779.4	3840.4	3840.4	3811.7	3804.5	3826.1
32.5°	6626.6	5719.4	3980.3	3517.7	3546.4	3661.1	3736.4	3711.3	3679.0	3679.0	3693.4
35°	6648.1	5636.9	3761.5	3316.9	3359.9	3496.2	3567.9	3517.7	3481.8	3471.1	3467.5
37.5°	6640.9	5604.6	3564.3	3062.3	3119.7	3252.3	3298.9	3252.3	3198.5	3173.4	3205.7
40°	6648.1	5583.1	3316.9	2782.6	2840.0	2918.9	2979.8	2944.0	2893.8	2829.2	2861.5
42.5°	6691.1	5611.8	3044.4	2510.1	2510.1	2553.1	2657.1	2632.0	2510.1	2485.0	2513.7
45°	6920.6	5766.0	2771.8	2237.5	2198.1	2226.8	2334.4	2226.8	2151.5	2151.5	2176.6
47.5°	7476.4	6052.9	2531.6	1997.3	1904.1	1961.4	1990.1	1889.7	1832.4	1818.0	1843.1
50°	8609.5	6626.6	2388.2	1800.1	1685.3	1728.4	1710.4	1706.8	1649.5	1656.6	1671.0
52.5°	10330.7	7745.4	2345.1	1703.3	1559.8	1570.6	1552.7	1559.8	1549.1	1584.9	1595.7
55°	12206.1	8925.1	2398.9	1717.6	1473.8	1398.5	1405.6	1441.5	1484.5	1541.9	1552.7
57.5°	13608.2	9516.8	2538.8	1814.4	1366.2	1251.4	1269.4	1337.5	1420.0	1466.6	1491.7
60°	14651.6	9445.0	2743.1	1839.5	1237.1	1118.8	1151.0	1251.4	1323.2	1362.6	1387.7
62.5°	14992.3	8996.8	2793.3	1656.6	1068.6	993.3	1072.2	1176.1	1208.4	1251.4	1269.4
65°	14712.6	8362.1	2427.6	1344.7	939.5	900.0	1014.8	1093.7	1136.7	1158.2	1161.8
66°	14382.7	7982.0	2230.4	1222.8	892.9	871.4	993.3	1057.8	1100.8	1097.3	1100.8
67.5°	13658.4	7186.0	1911.2	1050.6	824.7	828.3	957.4	1000.4	1014.8	1004.0	1004.0
70°	11194.9	5059.6	1369.8	796.1	724.3	774.5	860.6	871.4	903.6	889.3	889.3
72.5°	6902.7	2485.0	918.0	609.6	645.4	724.3	720.7	756.6	831.9	853.4	867.8
75°	3392.2	1007.6	606.0	516.4	577.3	606.0	598.8	688.5	796.1	889.3	921.6
77.5°	1287.3	502.0	423.1	451.8	466.2	455.4	476.9	623.9	796.1	964.6	996.9
80°	398.0	347.8	333.5	372.9	351.4	333.5	358.6	516.4	674.1	731.5	731.5
82.5°	240.2	272.5	258.2	254.6	236.7	240.2	258.2	369.3	519.9	545.0	545.0
85°	168.5	179.3	147.0	139.8	136.3	132.7	132.7	215.1	308.4	304.8	315.6
87.5°	64.5	71.7	53.8	53.8	50.2	35.9	28.7	35.9	35.9	25.1	17.9
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)