

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: P1211209

Luminaire Tested: **ARCH4-200-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211209
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: ARCH4-200-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31809 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 203.7
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

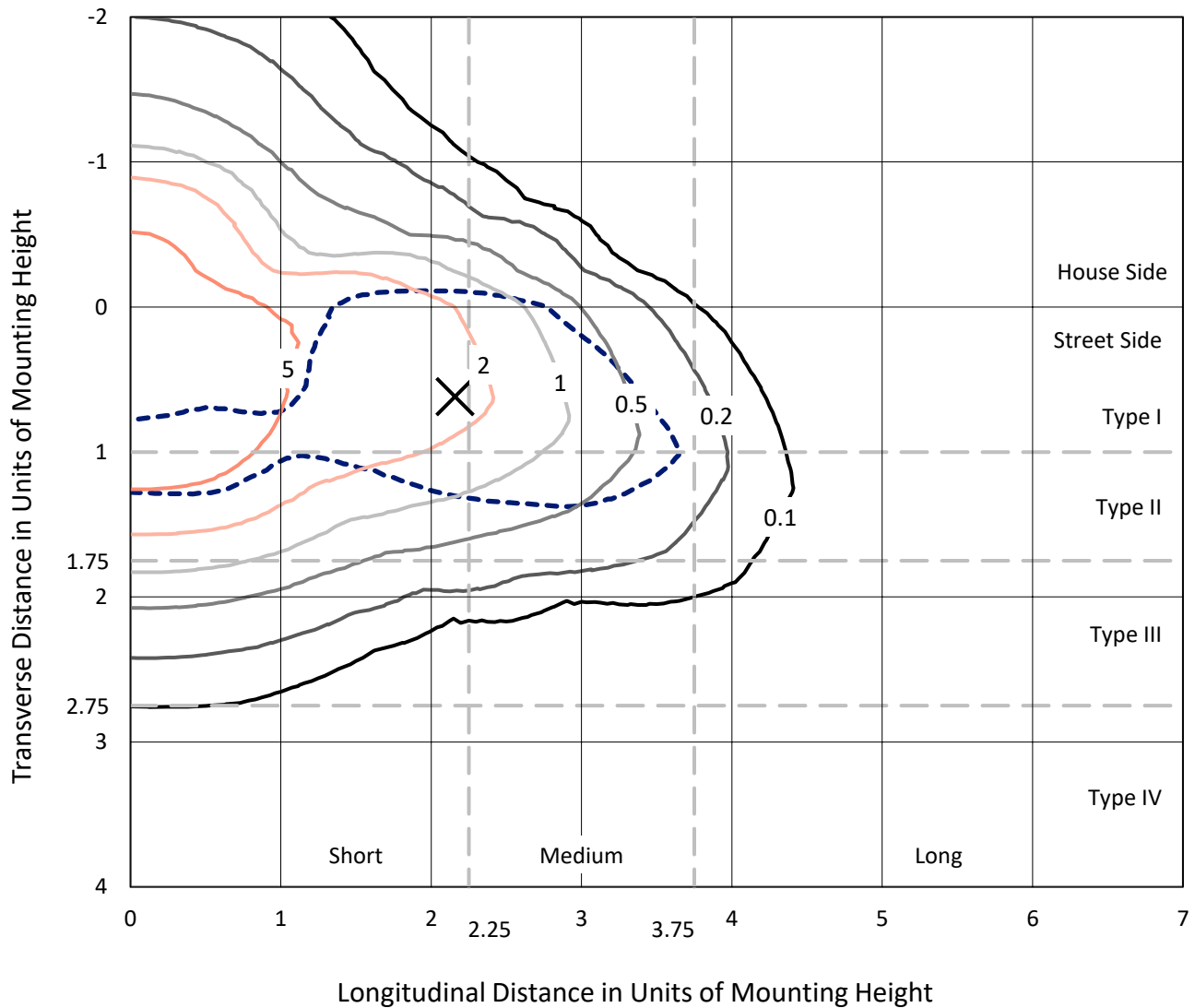


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Iso-Footcandle Lines of Horizontal Illumination

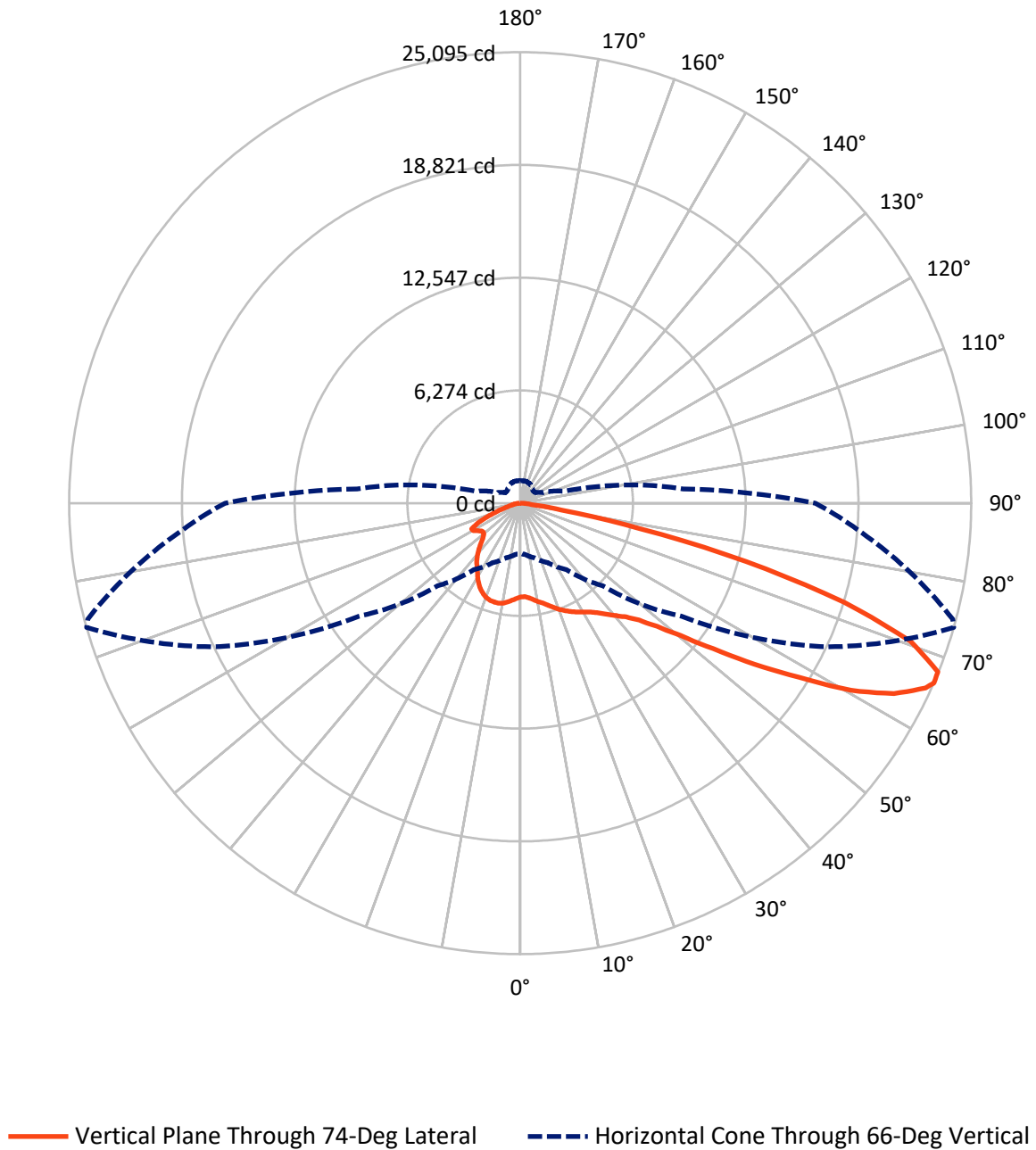
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	7746.4	0.0	7746.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	24062.6	0.0	24062.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	31809.0	0.0	31809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.4	1.6
10°-20°	1529.7	4.8
20°-30°	2870.4	9.0
30°-40°	4415.4	13.9
40°-50°	5939.1	18.7
50°-60°	7023.7	22.1
60°-70°	6497.3	20.4
70°-80°	2733.4	8.6
80°-90°	302.5	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°	31809.0	100.0
0°-180°	31809.0	100.0

Coefficient of Utilization



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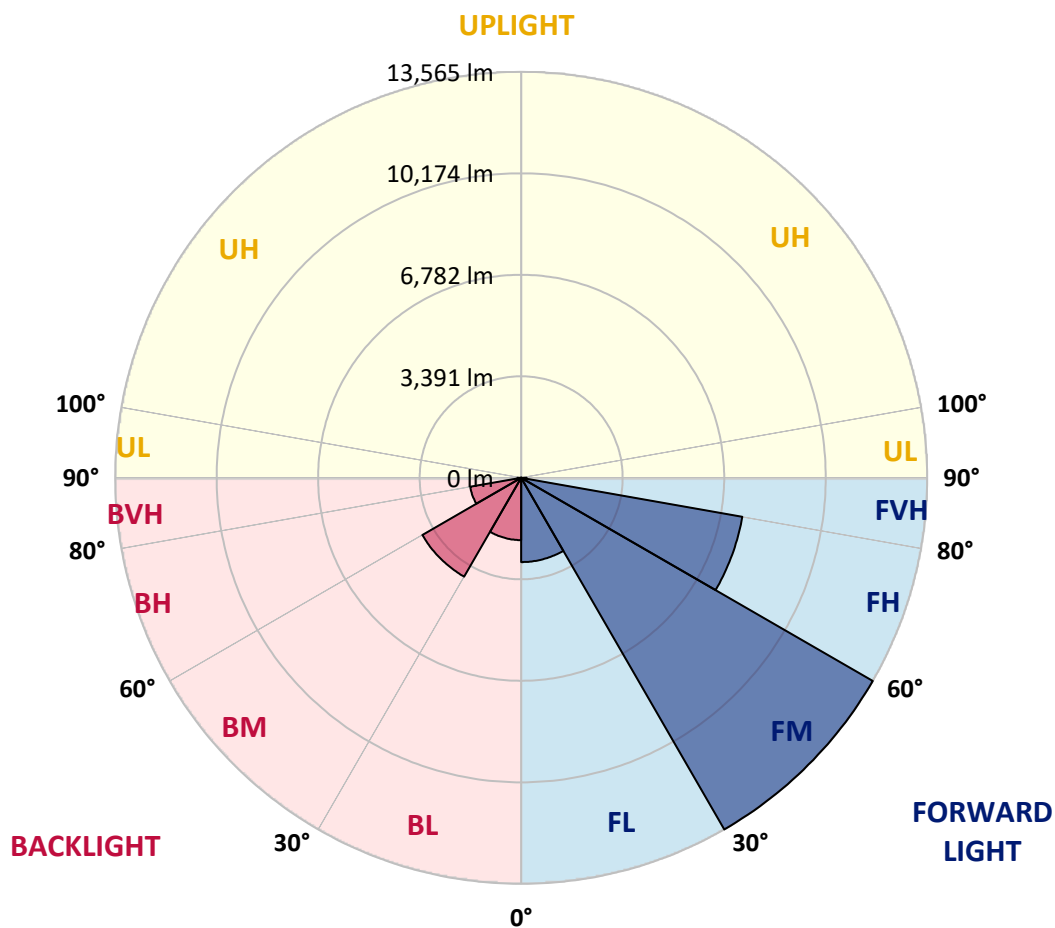
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2815.5	8.9			
FM	(30°-60°)	13564.8	42.6			
FH	(60°-80°)	7501.5	23.6			G4/12000
FVH	(80°-90°)	181.0	0.6			G2/225
BL	(0°-30°)	2082.1	6.5	B3/2500		
BM	(30°-60°)	3813.5	12.0	B3/5000		
BH	(60°-80°)	1729.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	121.5	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6
2.5°	5198.2	5190.0	5206.4	5230.9	5243.2	5222.7	5214.6	5210.5	5210.5	5198.2	5218.6
5°	4952.6	4948.5	4985.3	5030.4	5116.3	5177.7	5259.6	5308.7	5292.3	5267.8	5284.1
7.5°	4633.3	4625.2	4670.2	4756.1	4874.8	5009.9	5210.5	5366.0	5427.4	5419.2	5415.1
10°	4756.1	4747.9	4743.9	4719.3	4760.2	4891.2	5099.9	5374.2	5582.9	5587.0	5591.1
12.5°	5181.8	5202.3	5181.8	5104.0	5014.0	4964.9	5087.7	5394.6	5713.9	5738.5	5840.8
15°	5763.0	5742.6	5701.6	5611.6	5472.4	5325.1	5235.0	5488.8	5902.2	5922.7	6147.8
17.5°	6274.7	6291.0	6266.5	6180.5	6016.8	5824.4	5550.2	5652.5	6102.7	6160.0	6475.2
20°	6831.3	6896.8	6864.1	6757.6	6622.6	6336.0	5992.2	5889.9	6323.8	6364.7	6814.9
22.5°	7473.9	7543.5	7482.1	7379.8	7269.3	6917.3	6475.2	6180.5	6508.0	6593.9	7142.4
25°	8243.4	8308.9	8251.6	8092.0	7952.8	7523.0	6995.0	6508.0	6688.1	6782.2	7408.4
27.5°	8853.3	8902.4	8955.6	8861.5	8648.6	8202.5	7535.3	6847.7	6868.1	6966.4	7654.0
30°	9397.7	9520.4	9565.5	9577.7	9397.7	8898.3	8087.9	7199.7	7023.7	7126.0	7899.6
32.5°	10142.6	10326.8	10253.1	10326.8	10220.4	9553.2	8660.9	7564.0	7224.2	7318.4	8132.9
35°	11231.3	11378.7	11186.3	11129.0	10957.1	10216.3	9213.5	7940.5	7490.3	7592.6	8353.9
37.5°	12402.0	12569.8	12291.4	12062.2	11734.8	10871.2	9688.3	8435.8	7858.7	7940.5	8558.6
40°	13425.2	13564.4	13322.9	13020.0	12471.5	11448.3	10097.6	8783.7	8227.0	8329.4	8796.0
42.5°	14370.7	14460.8	14190.6	13900.0	13167.4	11968.1	10539.6	9152.1	8656.8	8755.0	8988.3
45°	15328.5	15398.1	15021.5	14608.1	13748.6	12442.9	11026.7	9667.8	9287.1	9418.1	9299.4
47.5°	15500.4	15520.9	15455.4	15177.0	14207.0	12897.2	11628.4	10359.5	10249.0	10392.3	9835.6
50°	14309.3	14493.5	14898.7	15173.0	14391.2	13277.9	12230.0	11350.0	11575.2	11759.3	10948.9
52.5°	11996.7	12172.7	13110.1	14149.7	13949.1	13363.8	12876.8	12606.6	13445.7	13666.7	12463.4
55°	9557.3	9712.8	10703.3	12201.4	12520.7	12970.9	13568.5	14211.1	15831.9	15979.3	14125.1
57.5°	7870.9	7956.9	8665.0	10105.8	10617.4	11714.3	13940.9	16118.5	18259.1	18484.2	15570.0
60°	6454.7	6548.9	7076.9	8263.9	8943.3	9917.5	13646.2	18001.3	21157.0	21157.0	17424.1
62.5°	4858.5	4940.3	5431.5	6360.6	7502.6	8394.9	12704.8	19249.6	23342.7	23244.5	18766.7
65°	3335.8	3401.3	3757.4	4375.5	5402.8	7154.7	11419.6	19266.0	24791.6	24660.7	19339.7
66°	2799.6	2857.0	3159.8	3659.2	4522.8	6491.6	10965.3	18918.1	25094.5	24910.3	19098.2
67.5°	2210.2	2251.2	2451.7	2746.4	3315.4	5255.5	10249.0	17931.7	25065.9	24955.4	18484.2
70°	1579.9	1608.6	1755.9	1817.3	1960.6	3041.1	8141.1	15705.1	23056.2	23088.9	16069.3
72.5°	1223.8	1268.8	1358.9	1371.2	1338.4	1616.8	4940.3	13101.9	18860.8	18848.5	11927.2
75°	986.4	1011.0	1056.0	1080.6	1072.4	1043.7	2091.6	9774.2	12983.2	13134.6	6679.9
77.5°	777.7	773.6	814.5	847.3	871.8	818.6	957.8	5730.3	6806.8	6614.4	2509.0
80°	573.0	573.0	630.3	642.6	679.4	687.6	638.5	2210.2	2337.1	2124.3	650.8
82.5°	376.6	376.6	438.0	446.1	483.0	536.2	462.5	663.1	646.7	614.0	294.7
85°	204.7	196.5	216.9	245.6	266.0	315.2	278.3	331.5	339.7	335.6	196.5
87.5°	40.9	36.8	57.3	65.5	73.7	98.2	90.0	135.1	188.3	184.2	86.0
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°	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6	5214.6
2.5°	5247.3	5243.2	5288.2	5341.4	5402.8	5439.7	5456.0	5484.7	5464.2	5472.4	5497.0
5°	5325.1	5337.3	5402.8	5472.4	5501.1	5480.6	5435.6	5419.2	5382.4	5374.2	5366.0
7.5°	5439.7	5460.1	5525.6	5542.0	5456.0	5312.8	5210.5	5153.2	5091.8	5075.4	5067.2
10°	5628.0	5640.2	5656.6	5488.8	5275.9	5083.6	4956.7	4903.5	4862.5	4829.8	4838.0
12.5°	5865.3	5857.2	5730.3	5382.4	5079.5	4883.0	4797.1	4764.3	4735.7	4715.2	4711.1
15°	6164.1	6106.8	5742.6	5235.0	4895.3	4731.6	4670.2	4657.9	4625.2	4625.2	4621.1
17.5°	6467.0	6319.7	5734.4	5079.5	4719.3	4629.2	4592.4	4584.2	4576.0	4571.9	4584.2
20°	6769.9	6508.0	5668.9	4887.1	4596.5	4543.3	4535.1	4539.2	4531.0	4543.3	4535.1
22.5°	7036.0	6630.7	5546.1	4682.5	4510.5	4506.5	4486.0	4494.2	4522.8	4526.9	4539.2
25°	7240.6	6675.8	5366.0	4494.2	4449.2	4441.0	4465.5	4498.3	4522.8	4526.9	4547.4
27.5°	7408.4	6651.2	5140.9	4346.8	4342.7	4387.8	4461.4	4473.7	4477.8	4477.8	4461.4
30°	7535.3	6598.0	4854.4	4183.1	4203.6	4314.1	4383.7	4383.7	4350.9	4342.7	4367.3
32.5°	7564.0	6528.4	4543.3	4015.3	4048.0	4179.0	4265.0	4236.3	4199.5	4199.5	4215.8
35°	7588.5	6434.3	4293.6	3786.1	3835.2	3990.7	4072.6	4015.3	3974.4	3962.1	3958.0
37.5°	7580.3	6397.4	4068.5	3495.5	3561.0	3712.4	3765.6	3712.4	3651.0	3622.4	3659.2
40°	7588.5	6372.9	3786.1	3176.2	3241.7	3331.7	3401.3	3360.4	3303.1	3229.4	3266.3
42.5°	7637.6	6405.6	3475.0	2865.1	2865.1	2914.3	3033.0	3004.3	2865.1	2836.5	2869.2
45°	7899.6	6581.6	3163.9	2554.1	2509.0	2541.8	2664.6	2541.8	2455.8	2455.8	2484.5
47.5°	8534.0	6909.1	2889.7	2279.8	2173.4	2238.9	2271.6	2157.0	2091.6	2075.2	2103.8
50°	9827.4	7564.0	2726.0	2054.7	1923.7	1972.9	1952.4	1948.3	1882.8	1891.0	1907.4
52.5°	11792.1	8841.0	2676.9	1944.2	1780.5	1792.8	1772.3	1780.5	1768.2	1809.1	1821.4
55°	13932.8	10187.6	2738.3	1960.6	1682.2	1596.3	1604.5	1645.4	1694.5	1760.0	1772.3
57.5°	15533.1	10863.0	2897.9	2071.1	1559.5	1428.5	1448.9	1526.7	1620.8	1674.1	1702.7
60°	16724.2	10781.1	3131.2	2099.7	1412.1	1277.0	1313.9	1428.5	1510.3	1555.4	1584.0
62.5°	17113.1	10269.5	3188.5	1891.0	1219.7	1133.8	1223.8	1342.5	1379.4	1428.5	1448.9
65°	16793.8	9545.0	2771.0	1534.9	1072.4	1027.4	1158.3	1248.4	1297.5	1322.1	1326.1
66°	16417.2	9111.1	2545.9	1395.7	1019.2	994.6	1133.8	1207.5	1256.6	1252.5	1256.6
67.5°	15590.4	8202.5	2181.6	1199.3	941.4	945.5	1092.8	1142.0	1158.3	1146.1	1146.1
70°	12778.5	5775.3	1563.5	908.7	826.8	884.1	982.3	994.6	1031.4	1015.1	1015.1
72.5°	7879.1	2836.5	1047.8	695.8	736.7	826.8	822.7	863.6	949.6	974.1	990.5
75°	3872.0	1150.1	691.7	589.4	659.0	691.7	683.5	785.9	908.7	1015.1	1051.9
77.5°	1469.4	573.0	483.0	515.7	532.1	519.8	544.4	712.2	908.7	1101.0	1137.9
80°	454.3	397.0	380.7	425.7	401.1	380.7	409.3	589.4	769.5	835.0	835.0
82.5°	274.2	311.1	294.7	290.6	270.1	274.2	294.7	421.6	593.5	622.1	622.1
85°	192.4	204.7	167.8	159.6	155.5	151.4	151.4	245.6	352.0	347.9	360.2
87.5°	73.7	81.9	61.4	61.4	57.3	40.9	32.7	40.9	40.9	28.7	20.5
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)