

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: P1211261

Luminaire Tested: **ARCH4-220-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211261
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: ARCH4-220-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32510 lumens
Efficiency: N/A
Efficacy: 146.6 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): 221.8
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



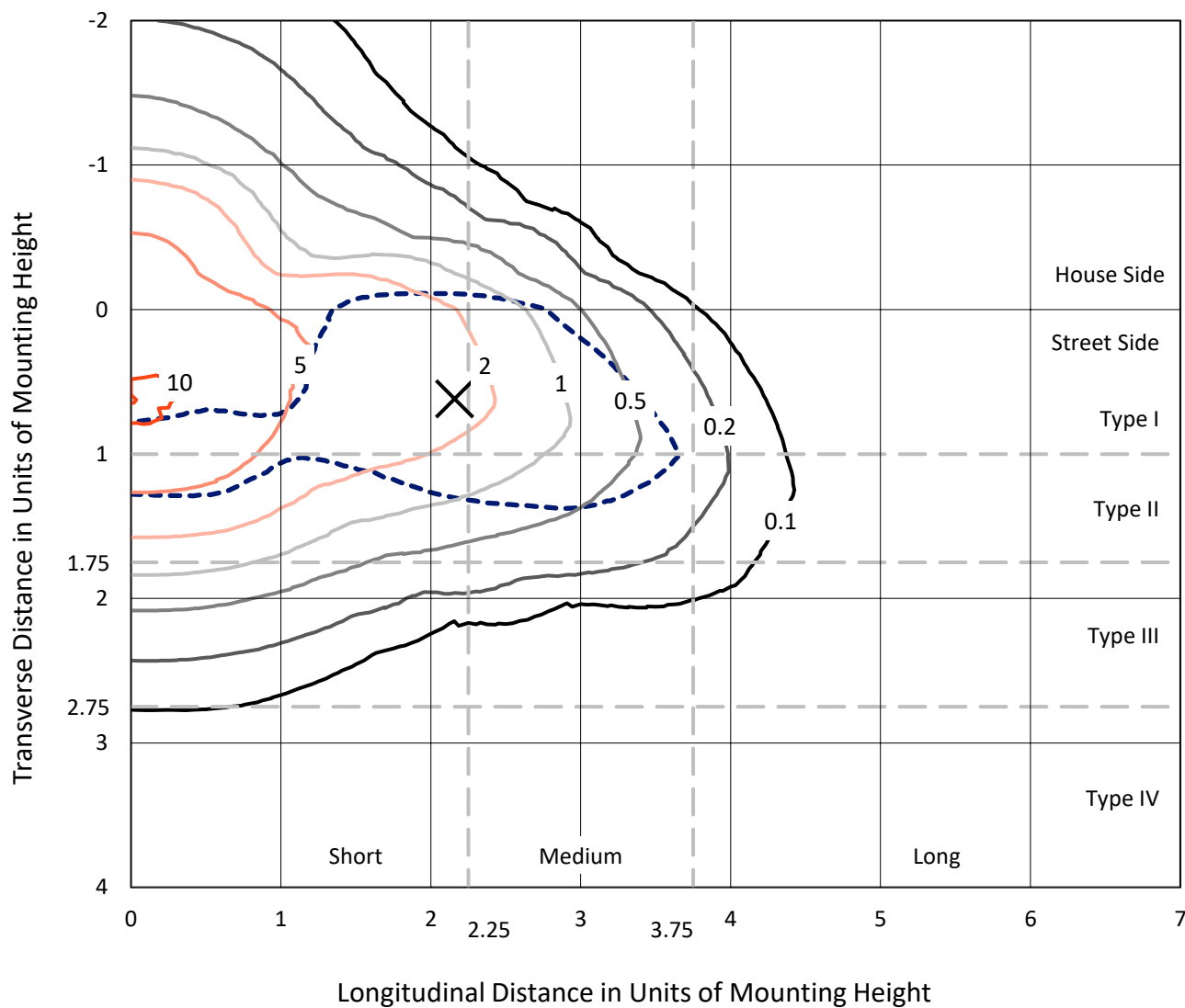
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Iso-Footcandle Lines of Horizontal Illumination

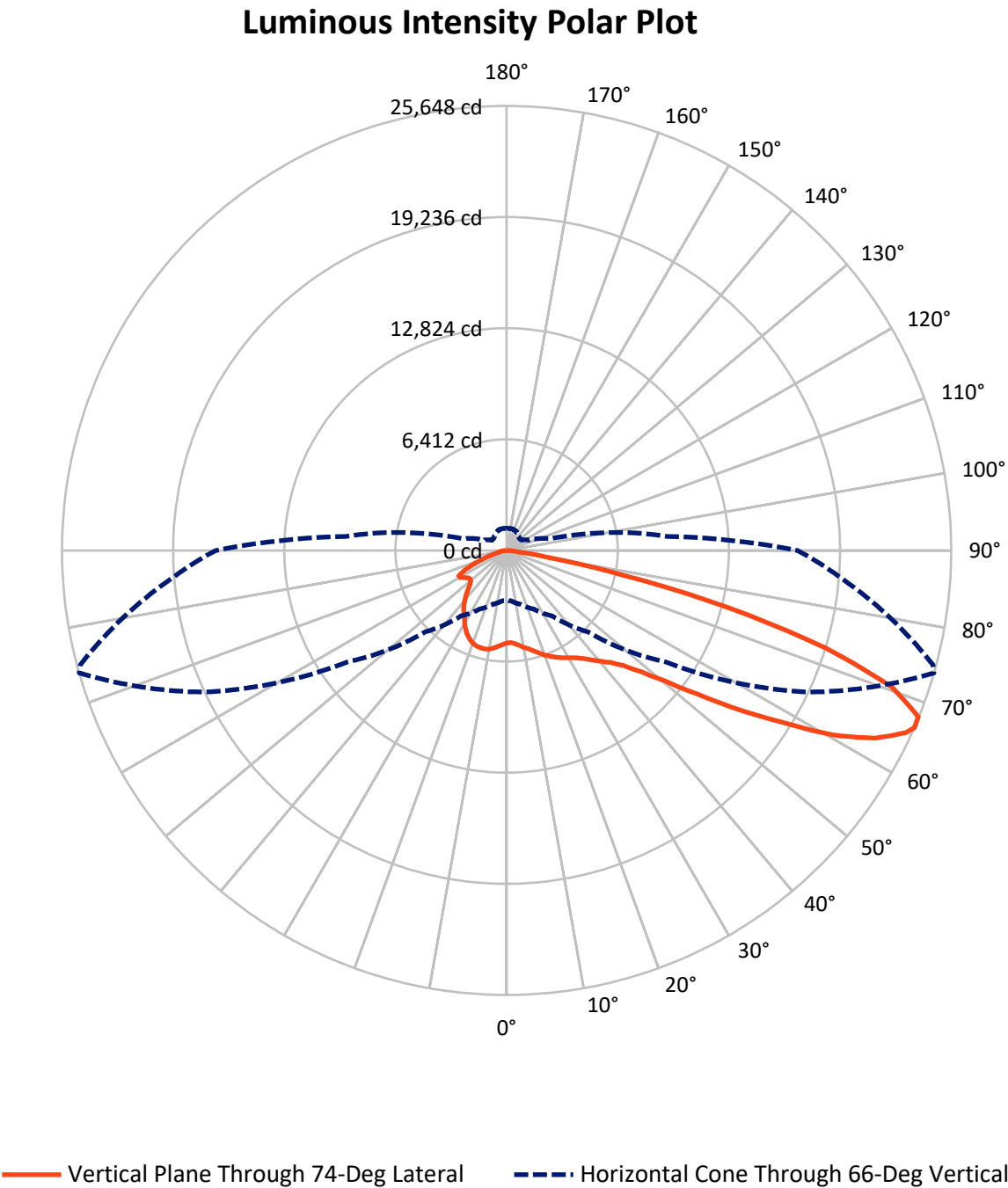
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7917.1	0.0	7917.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	24592.9	0.0	24592.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	32510.0	0.0	32510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.4	1.6
10°-20°	1563.4	4.8
20°-30°	2933.7	9.0
30°-40°	4512.7	13.9
40°-50°	6070.0	18.7
50°-60°	7178.5	22.1
60°-70°	6640.5	20.4
70°-80°	2793.6	8.6
80°-90°	309.1	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°	32510.0	100.0
0°-180°	32510.0	100.0

Coefficient of Utilization



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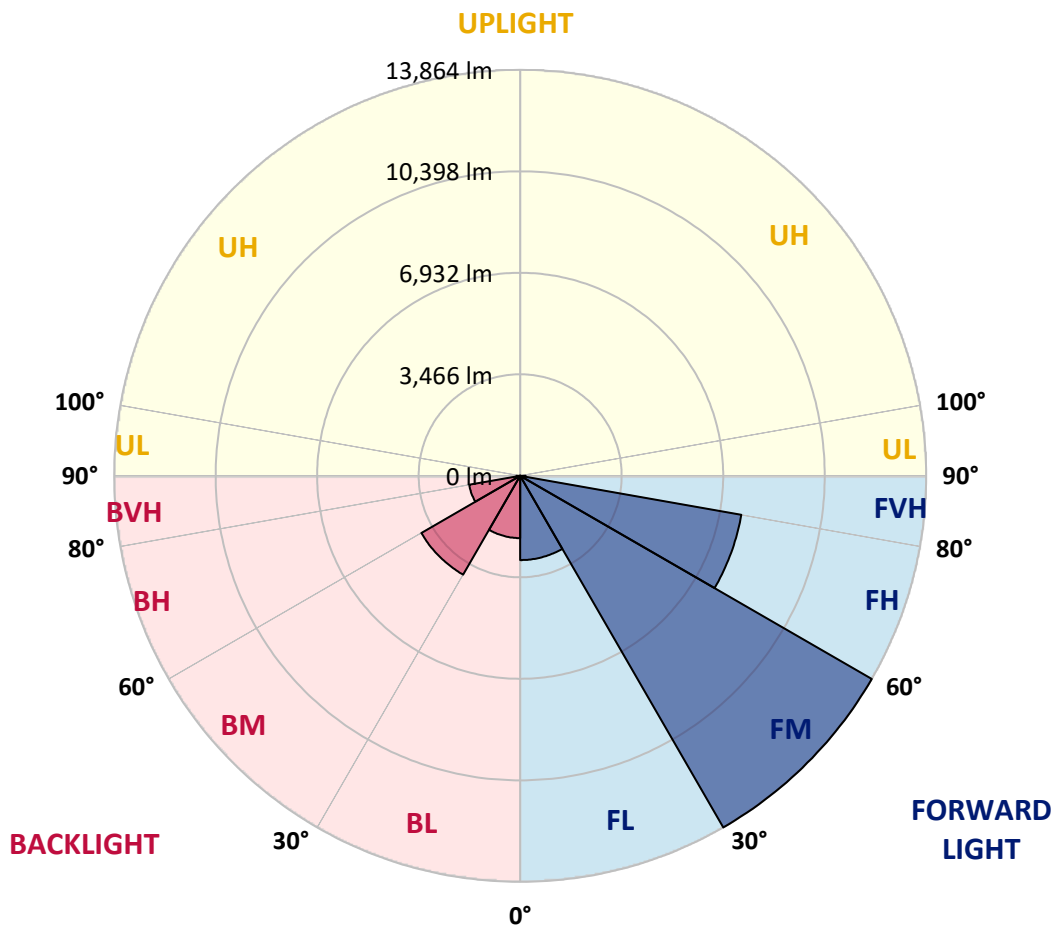
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2877.5	8.9			
FM	(30°-60°)	13863.7	42.6			
FH	(60°-80°)	7666.8	23.6			G4/12000
FVH	(80°-90°)	184.9	0.6			G2/225
BL	(0°-30°)	2127.9	6.5	B3/2500		
BM	(30°-60°)	3897.6	12.0	B3/5000		
BH	(60°-80°)	1767.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	124.2	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°	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5
2.5°	5312.7	5304.4	5321.1	5346.2	5358.8	5337.8	5329.5	5325.3	5325.3	5312.7	5333.7
5°	5061.7	5057.6	5095.2	5141.2	5229.1	5291.8	5375.5	5425.7	5409.0	5383.9	5400.6
7.5°	4735.4	4727.1	4773.1	4860.9	4982.3	5120.3	5325.3	5484.3	5547.0	5538.6	5534.4
10°	4860.9	4852.6	4848.4	4823.3	4865.1	4999.0	5212.3	5492.6	5706.0	5710.1	5714.3
12.5°	5296.0	5316.9	5296.0	5216.5	5124.5	5074.3	5199.8	5513.5	5839.8	5864.9	5969.5
15°	5890.0	5869.1	5827.3	5735.2	5593.0	5442.4	5350.4	5609.7	6032.3	6053.2	6283.3
17.5°	6412.9	6429.7	6404.6	6316.7	6149.4	5952.8	5672.5	5777.1	6237.2	6295.8	6617.9
20°	6981.9	7048.8	7015.3	6906.6	6768.5	6475.7	6124.3	6019.7	6463.1	6505.0	6965.1
22.5°	7638.6	7709.7	7647.0	7542.4	7429.5	7069.7	6617.9	6316.7	6651.4	6739.2	7299.8
25°	8425.1	8492.0	8433.4	8270.3	8128.1	7688.8	7149.2	6651.4	6835.4	6931.7	7571.7
27.5°	9048.4	9098.6	9153.0	9056.8	8839.2	8383.2	7701.4	6998.6	7019.5	7119.9	7822.7
30°	9604.8	9730.3	9776.3	9788.8	9604.8	9094.4	8266.1	7358.3	7178.5	7283.1	8073.7
32.5°	10366.1	10554.4	10479.1	10554.4	10445.6	9763.7	8851.8	7730.7	7383.4	7479.7	8312.1
35°	11478.9	11629.5	11432.8	11374.3	11198.6	10441.4	9416.5	8115.5	7655.4	7759.9	8538.0
37.5°	12675.3	12846.8	12562.3	12328.1	11993.4	11110.7	9901.8	8621.7	8031.9	8115.5	8747.2
40°	13721.1	13863.3	13616.5	13306.9	12746.4	11700.6	10320.1	8977.3	8408.3	8512.9	8989.8
42.5°	14687.4	14779.4	14503.4	14206.3	13457.5	12231.8	10771.9	9353.8	8847.6	8948.0	9186.4
45°	15666.3	15737.4	15352.6	14930.0	14051.6	12717.1	11269.7	9880.9	9491.8	9625.7	9504.4
47.5°	15842.0	15862.9	15796.0	15511.5	14520.1	13181.4	11884.6	10587.8	10474.9	10621.3	10052.4
50°	14624.7	14812.9	15227.1	15507.3	14708.3	13570.5	12499.6	11600.2	11830.3	12018.5	11190.2
52.5°	12261.1	12441.0	13399.0	14461.5	14256.5	13658.3	13160.5	12884.4	13742.0	13967.9	12738.0
55°	9767.9	9926.9	10939.2	12470.3	12796.6	13256.7	13867.5	14524.3	16180.8	16331.4	14436.4
57.5°	8044.4	8132.3	8856.0	10328.5	10851.4	11972.5	14248.2	16473.7	18661.5	18891.6	15913.1
60°	6597.0	6693.2	7232.9	8446.0	9140.4	10136.0	13947.0	18398.0	21623.3	21623.3	17808.1
62.5°	4965.5	5049.2	5551.2	6500.8	7667.9	8579.9	12984.8	19673.9	23857.1	23756.7	19180.2
65°	3409.4	3476.3	3840.2	4471.9	5521.9	7312.3	11671.3	19690.6	25338.0	25204.1	19765.9
66°	2861.3	2919.9	3229.5	3739.8	4622.5	6634.6	11206.9	19335.0	25647.6	25459.3	19519.1
67.5°	2259.0	2300.8	2505.8	2807.0	3388.4	5371.3	10474.9	18326.9	25618.3	25505.3	18891.6
70°	1614.7	1644.0	1794.6	1857.4	2003.8	3108.2	8320.5	16051.2	23564.3	23597.8	16423.5
72.5°	1250.8	1296.8	1388.8	1401.4	1367.9	1652.4	5049.2	13390.6	19276.4	19263.9	12190.0
75°	1008.2	1033.3	1079.3	1104.4	1096.0	1066.7	2137.6	9989.6	13269.3	13424.1	6827.1
77.5°	794.8	790.6	832.5	865.9	891.0	836.7	978.9	5856.6	6956.8	6760.1	2564.3
80°	585.7	585.7	644.2	656.8	694.4	702.8	652.6	2259.0	2388.6	2171.1	665.1
82.5°	384.9	384.9	447.6	456.0	493.6	548.0	472.7	677.7	661.0	627.5	301.2
85°	209.2	200.8	221.7	251.0	271.9	322.1	284.5	338.8	347.2	343.0	200.8
87.5°	41.8	37.6	58.6	66.9	75.3	100.4	92.0	138.0	192.4	188.2	87.8
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°	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5	5329.5
2.5°	5362.9	5358.8	5404.8	5459.2	5521.9	5559.5	5576.3	5605.6	5584.6	5593.0	5618.1
5°	5442.4	5455.0	5521.9	5593.0	5622.3	5601.4	5555.4	5538.6	5501.0	5492.6	5484.3
7.5°	5559.5	5580.5	5647.4	5664.1	5576.3	5429.9	5325.3	5266.7	5204.0	5187.2	5178.9
10°	5752.0	5764.5	5781.3	5609.7	5392.2	5195.6	5065.9	5011.5	4969.7	4936.2	4944.6
12.5°	5994.6	5986.2	5856.6	5501.0	5191.4	4990.6	4902.8	4869.3	4840.0	4819.1	4814.9
15°	6300.0	6241.4	5869.1	5350.4	5003.2	4835.8	4773.1	4760.5	4727.1	4727.1	4722.9
17.5°	6609.5	6458.9	5860.7	5191.4	4823.3	4731.3	4693.6	4685.2	4676.9	4672.7	4685.2
20°	6919.1	6651.4	5793.8	4994.8	4697.8	4643.4	4635.0	4639.2	4630.9	4643.4	4635.0
22.5°	7191.0	6776.9	5668.3	4785.6	4609.9	4605.8	4584.9	4593.2	4622.5	4626.7	4639.2
25°	7400.2	6822.9	5484.3	4593.2	4547.2	4538.8	4563.9	4597.4	4622.5	4626.7	4647.6
27.5°	7571.7	6797.8	5254.2	4442.6	4438.4	4484.5	4559.8	4572.3	4576.5	4576.5	4559.8
30°	7701.4	6743.4	4961.3	4275.3	4296.2	4409.2	4480.3	4480.3	4446.8	4438.4	4463.5
32.5°	7730.7	6672.3	4643.4	4103.8	4137.2	4271.1	4359.0	4329.7	4292.0	4292.0	4308.8
35°	7755.8	6576.1	4388.2	3869.5	3919.7	4078.7	4162.3	4103.8	4061.9	4049.4	4045.2
37.5°	7747.4	6538.4	4158.2	3572.5	3639.4	3794.2	3848.6	3794.2	3731.5	3702.2	3739.8
40°	7755.8	6513.3	3869.5	3246.2	3313.1	3405.2	3476.3	3434.5	3375.9	3300.6	3338.2
42.5°	7806.0	6546.8	3551.6	2928.3	2928.3	2978.5	3099.8	3070.5	2928.3	2899.0	2932.5
45°	8073.7	6726.7	3233.7	2610.4	2564.3	2597.8	2723.3	2597.8	2510.0	2510.0	2539.2
47.5°	8722.1	7061.3	2953.4	2330.1	2221.3	2288.2	2321.7	2204.6	2137.6	2120.9	2150.2
50°	10044.0	7730.7	2786.0	2100.0	1966.1	2016.3	1995.4	1991.2	1924.3	1932.7	1949.4
52.5°	12052.0	9035.8	2735.9	1987.0	1819.7	1832.3	1811.4	1819.7	1807.2	1849.0	1861.5
55°	14239.8	10412.1	2798.6	2003.8	1719.3	1631.5	1639.8	1681.7	1731.9	1798.8	1811.4
57.5°	15875.5	11102.4	2961.7	2116.7	1593.8	1460.0	1480.9	1560.4	1656.6	1711.0	1740.2
60°	17092.8	11018.7	3200.2	2146.0	1443.2	1305.2	1342.8	1460.0	1543.6	1589.6	1618.9
62.5°	17490.2	10495.8	3258.8	1932.7	1246.6	1158.8	1250.8	1372.1	1409.8	1460.0	1480.9
65°	17163.9	9755.4	2832.1	1568.7	1096.0	1050.0	1183.9	1275.9	1326.1	1351.2	1355.4
66°	16779.0	9311.9	2602.0	1426.5	1041.6	1016.5	1158.8	1234.1	1284.3	1280.1	1284.3
67.5°	15934.0	8383.2	2229.7	1225.7	962.1	966.3	1116.9	1167.1	1183.9	1171.3	1171.3
70°	13060.1	5902.6	1598.0	928.7	845.0	903.6	1004.0	1016.5	1054.2	1037.4	1037.4
72.5°	8052.8	2899.0	1070.9	711.2	753.0	845.0	840.8	882.7	970.5	995.6	1012.3
75°	3957.4	1175.5	707.0	602.4	673.5	707.0	698.6	803.2	928.7	1037.4	1075.1
77.5°	1501.8	585.7	493.6	527.1	543.8	531.3	556.4	727.9	928.7	1125.3	1162.9
80°	464.3	405.8	389.0	435.1	410.0	389.0	418.3	602.4	786.5	853.4	853.4
82.5°	280.3	317.9	301.2	297.0	276.1	280.3	301.2	430.9	606.6	635.9	635.9
85°	196.6	209.2	171.5	163.1	159.0	154.8	154.8	251.0	359.8	355.6	368.1
87.5°	75.3	83.7	62.7	62.7	58.6	41.8	33.5	41.8	41.8	29.3	20.9
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)