

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: P1211477

Luminaire Tested: **ARCH4-290-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211477
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: ARCH4-290-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34716 lumens
Efficiency: N/A
Efficacy: 119.8 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): 289.7
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



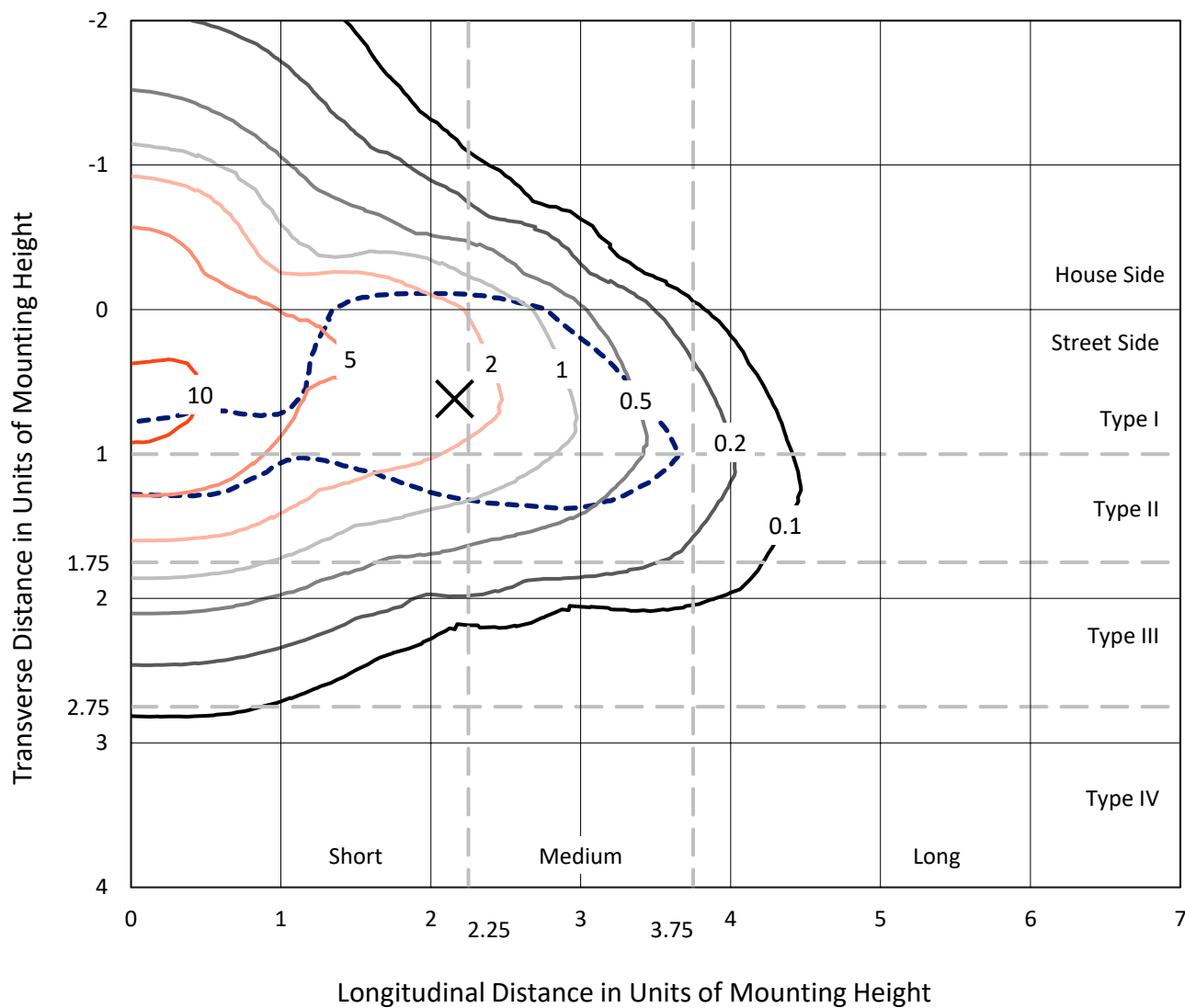
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Iso-Footcandle Lines of Horizontal Illumination

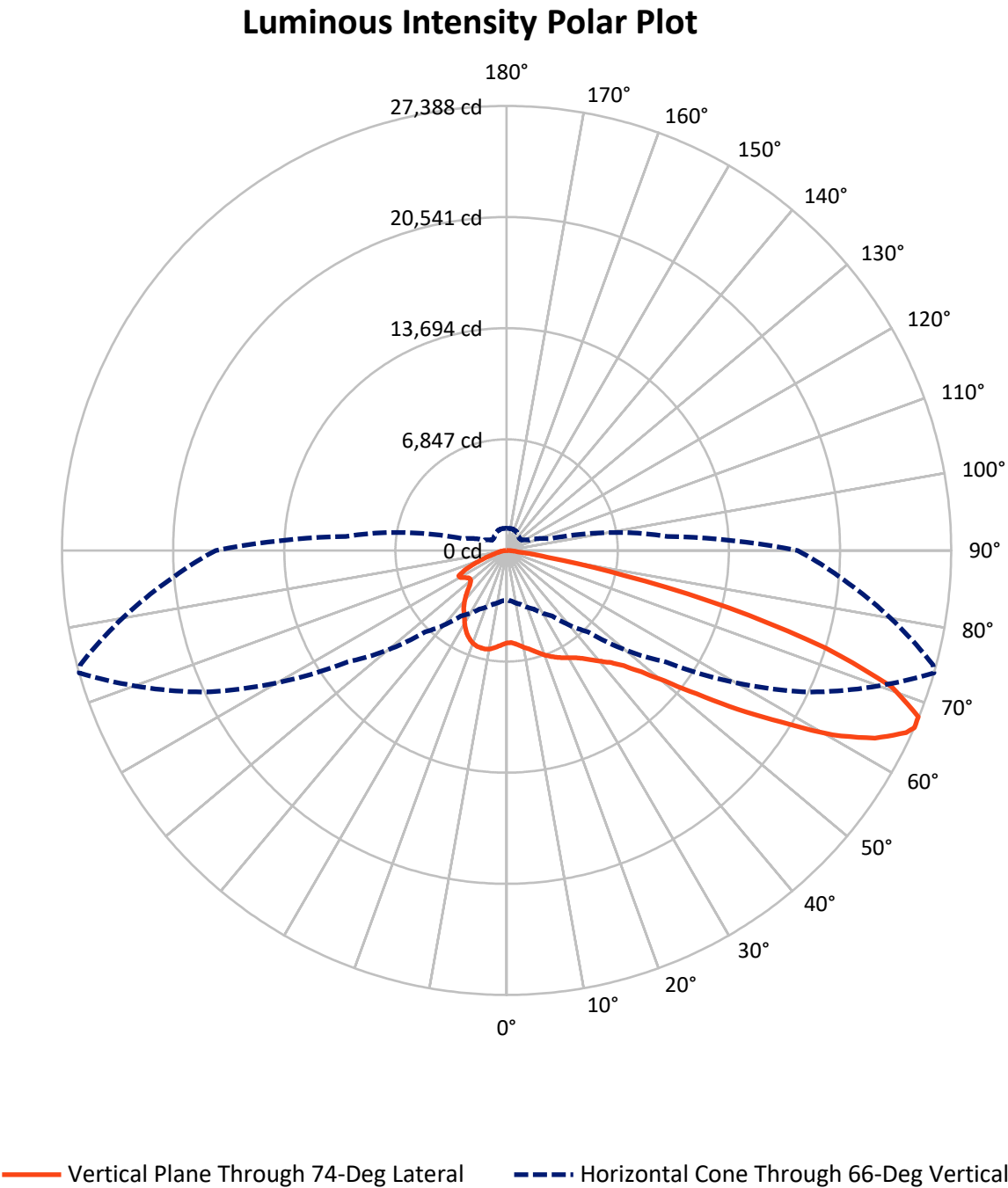
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8454.3	0.0	8454.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	26261.7	0.0	26261.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	34716.0	0.0	34716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.9	1.6
10°-20°	1669.5	4.8
20°-30°	3132.8	9.0
30°-40°	4819.0	13.9
40°-50°	6481.9	18.7
50°-60°	7665.6	22.1
60°-70°	7091.1	20.4
70°-80°	2983.2	8.6
80°-90°	330.1	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°	34716.0	100.0
0°-180°	34716.0	100.0

Coefficient of Utilization



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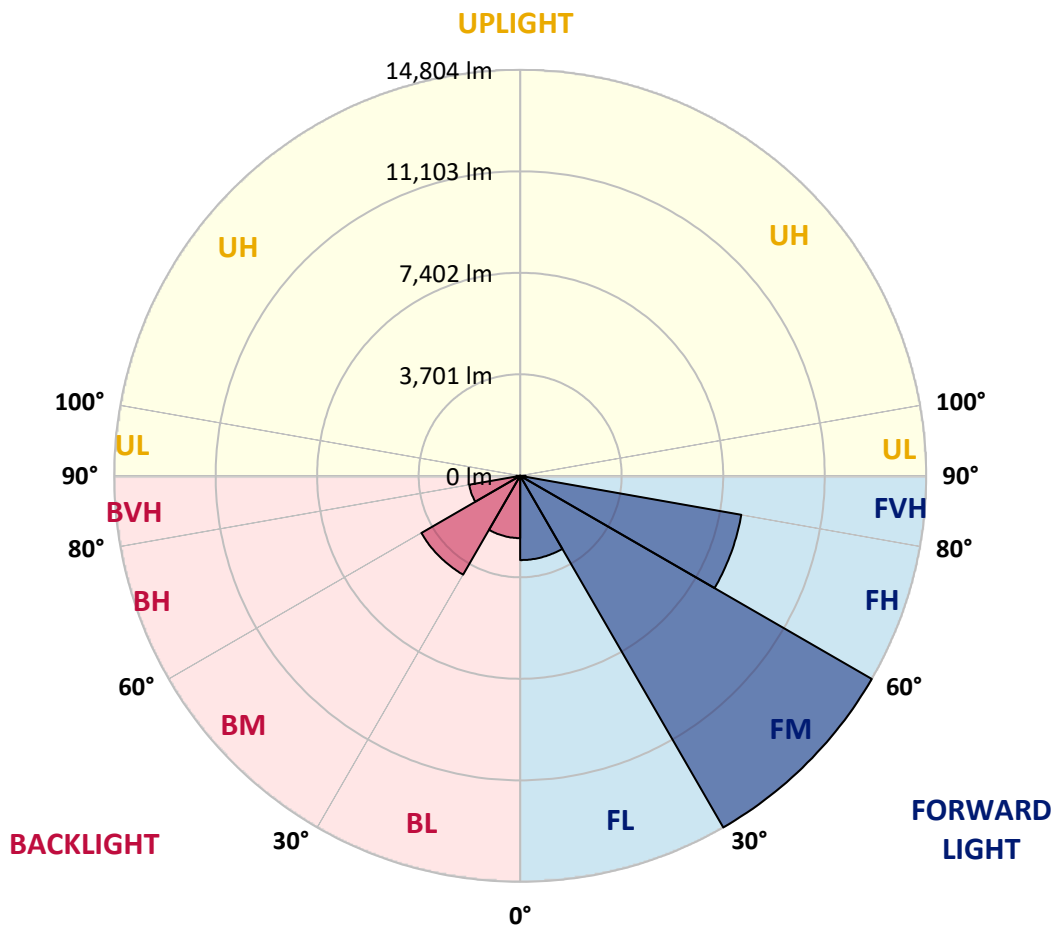
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3072.8	8.9			
FM	(30°-60°)	14804.4	42.6			
FH	(60°-80°)	8187.0	23.6			G4/12000
FVH	(80°-90°)	197.5	0.6			G2/225
BL	(0°-30°)	2272.3	6.5	B3/2500		
BM	(30°-60°)	4162.1	12.0	B3/5000		
BH	(60°-80°)	1887.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	132.6	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°	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1
2.5°	5673.2	5664.3	5682.2	5709.0	5722.4	5700.0	5691.1	5686.6	5686.6	5673.2	5695.6
5°	5405.2	5400.7	5440.9	5490.1	5583.9	5650.9	5740.2	5793.9	5776.0	5749.2	5767.0
7.5°	5056.8	5047.8	5097.0	5190.8	5320.3	5467.8	5686.6	5856.4	5923.4	5914.5	5910.0
10°	5190.8	5181.9	5177.4	5150.6	5195.3	5338.2	5566.0	5865.3	6093.1	6097.6	6102.1
12.5°	5655.4	5677.7	5655.4	5570.5	5472.2	5418.6	5552.6	5887.7	6236.1	6262.9	6374.6
15°	6289.7	6267.4	6222.7	6124.4	5972.5	5811.7	5713.4	5990.4	6441.6	6463.9	6709.6
17.5°	6848.1	6866.0	6839.2	6745.3	6566.7	6356.7	6057.4	6169.1	6660.5	6723.0	7067.0
20°	7455.6	7527.1	7491.4	7375.2	7227.8	6915.1	6539.9	6428.2	6901.7	6946.4	7437.7
22.5°	8157.0	8232.9	8165.9	8054.2	7933.6	7549.4	7067.0	6745.3	7102.7	7196.5	7795.1
25°	8996.8	9068.2	9005.7	8831.5	8679.6	8210.6	7634.3	7102.7	7299.3	7402.0	8085.5
27.5°	9662.4	9716.0	9774.1	9671.3	9439.0	8952.1	8224.0	7473.5	7495.8	7603.0	8353.5
30°	10256.5	10390.5	10439.7	10453.1	10256.5	9711.5	8827.0	7857.7	7665.6	7777.3	8621.5
32.5°	11069.5	11270.5	11190.1	11270.5	11154.4	10426.3	9452.4	8255.2	7884.5	7987.2	8876.2
35°	12257.8	12418.6	12208.6	12146.1	11958.5	11149.9	10055.5	8666.2	8174.8	8286.5	9117.4
37.5°	13535.4	13718.5	13414.8	13164.6	12807.2	11864.7	10573.7	9206.7	8576.9	8666.2	9340.7
40°	14652.1	14804.0	14540.5	14209.9	13611.3	12494.5	11020.4	9586.4	8978.9	9090.6	9599.8
42.5°	15684.0	15782.3	15487.5	15170.3	14370.7	13061.8	11502.8	9988.5	9448.0	9555.2	9809.8
45°	16729.4	16805.3	16394.3	15943.1	15005.0	13580.0	12034.4	10551.3	10135.9	10278.8	10149.3
47.5°	16917.0	16939.3	16867.8	16564.1	15505.4	14075.9	12691.1	11306.3	11185.7	11342.0	10734.5
50°	15617.0	15818.1	16260.3	16559.6	15706.4	14491.3	13347.7	12387.3	12633.0	12834.0	11949.5
52.5°	13093.1	13285.2	14308.2	15442.8	15223.9	14585.1	14053.5	13758.7	14674.5	14915.7	13602.4
55°	10430.7	10600.5	11681.5	13316.5	13664.9	14156.3	14808.5	15509.8	17278.8	17439.6	15416.0
57.5°	8590.3	8684.1	9456.9	11029.3	11587.7	12784.9	15215.0	17591.5	19927.8	20173.5	16992.9
60°	7044.6	7147.4	7723.6	9019.1	9760.6	10823.8	14893.4	19646.4	23090.5	23090.5	19016.5
62.5°	5302.5	5391.8	5927.9	6941.9	8188.2	9162.1	13865.9	21008.8	25476.0	25368.8	20481.7
65°	3640.7	3712.2	4100.8	4775.3	5896.6	7808.5	12463.3	21026.7	27057.3	26914.4	21107.1
66°	3055.5	3118.0	3448.6	3993.6	4936.2	7084.8	11967.4	20647.0	27387.9	27186.9	20843.6
67.5°	2412.2	2456.9	2675.8	2997.4	3618.4	5735.8	11185.7	19570.4	27356.6	27236.0	20173.5
70°	1724.3	1755.6	1916.4	1983.4	2139.7	3319.1	8885.1	17140.3	25163.3	25199.0	17537.9
72.5°	1335.7	1384.8	1483.1	1496.5	1460.7	1764.5	5391.8	14299.2	20584.5	20571.1	13017.2
75°	1076.6	1103.4	1152.5	1179.3	1170.4	1139.1	2282.7	10667.5	14169.7	14335.0	7290.3
77.5°	848.8	844.3	889.0	924.7	951.5	893.4	1045.3	6254.0	7428.8	7218.9	2738.3
80°	625.4	625.4	687.9	701.3	741.5	750.5	696.9	2412.2	2550.7	2318.4	710.3
82.5°	411.0	411.0	478.0	486.9	527.1	585.2	504.8	723.7	705.8	670.1	321.6
85°	223.4	214.4	236.8	268.0	290.4	344.0	303.8	361.8	370.8	366.3	214.4
87.5°	44.7	40.2	62.5	71.5	80.4	107.2	98.3	147.4	205.5	201.0	93.8
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°	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1	5691.1
2.5°	5726.8	5722.4	5771.5	5829.6	5896.6	5936.8	5954.7	5985.9	5963.6	5972.5	5999.3
5°	5811.7	5825.1	5896.6	5972.5	6003.8	5981.5	5932.3	5914.5	5874.3	5865.3	5856.4
7.5°	5936.8	5959.1	6030.6	6048.5	5954.7	5798.3	5686.6	5624.1	5557.1	5539.2	5530.3
10°	6142.3	6155.7	6173.6	5990.4	5758.1	5548.2	5409.7	5351.6	5306.9	5271.2	5280.1
12.5°	6401.4	6392.4	6254.0	5874.3	5543.7	5329.3	5235.5	5199.7	5168.5	5146.1	5141.7
15°	6727.5	6664.9	6267.4	5713.4	5342.7	5164.0	5097.0	5083.6	5047.8	5047.8	5043.4
17.5°	7058.0	6897.2	6258.4	5543.7	5150.6	5052.3	5012.1	5003.2	4994.2	4989.8	5003.2
20°	7388.6	7102.7	6187.0	5333.7	5016.6	4958.5	4949.6	4954.0	4945.1	4958.5	4949.6
22.5°	7679.0	7236.7	6052.9	5110.4	4922.8	4918.3	4896.0	4904.9	4936.2	4940.6	4954.0
25°	7902.3	7285.9	5856.4	4904.9	4855.8	4846.8	4873.6	4909.4	4936.2	4940.6	4963.0
27.5°	8085.5	7259.1	5610.7	4744.1	4739.6	4788.7	4869.2	4882.6	4887.0	4887.0	4869.2
30°	8224.0	7201.0	5298.0	4565.4	4587.7	4708.3	4784.3	4784.3	4748.5	4739.6	4766.4
32.5°	8255.2	7125.1	4958.5	4382.2	4418.0	4560.9	4654.7	4623.5	4583.3	4583.3	4601.1
35°	8282.0	7022.3	4686.0	4132.1	4185.7	4355.4	4444.8	4382.2	4337.6	4324.2	4319.7
37.5°	8273.1	6982.1	4440.3	3814.9	3886.4	4051.7	4109.7	4051.7	3984.7	3953.4	3993.6
40°	8282.0	6955.3	4132.1	3466.5	3538.0	3636.2	3712.2	3667.5	3605.0	3524.6	3564.8
42.5°	8335.6	6991.0	3792.6	3127.0	3127.0	3180.6	3310.1	3278.9	3127.0	3095.7	3131.4
45°	8621.5	7183.1	3453.1	2787.5	2738.3	2774.1	2908.1	2774.1	2680.3	2680.3	2711.5
47.5°	9313.9	7540.5	3153.8	2488.2	2372.0	2443.5	2479.2	2354.2	2282.7	2264.8	2296.1
50°	10725.5	8255.2	2975.1	2242.5	2099.5	2153.2	2130.8	2126.3	2054.9	2063.8	2081.7
52.5°	12869.8	9649.0	2921.5	2121.9	1943.2	1956.6	1934.3	1943.2	1929.8	1974.5	1987.9
55°	15206.1	11118.7	2988.5	2139.7	1836.0	1742.2	1751.1	1795.8	1849.4	1920.9	1934.3
57.5°	16952.7	11855.7	3162.7	2260.4	1702.0	1559.0	1581.4	1666.2	1769.0	1827.1	1858.3
60°	18252.6	11766.4	3417.3	2291.6	1541.2	1393.7	1433.9	1559.0	1648.4	1697.5	1728.8
62.5°	18677.0	11208.0	3479.9	2063.8	1331.2	1237.4	1335.7	1465.2	1505.4	1559.0	1581.4
65°	18328.6	10417.3	3024.2	1675.2	1170.4	1121.2	1264.2	1362.5	1416.1	1442.9	1447.3
66°	17917.6	9943.8	2778.5	1523.3	1112.3	1085.5	1237.4	1317.8	1371.4	1366.9	1371.4
67.5°	17015.2	8952.1	2381.0	1308.9	1027.4	1031.9	1192.7	1246.3	1264.2	1250.8	1250.8
70°	13946.3	6303.1	1706.4	991.7	902.4	964.9	1072.1	1085.5	1125.7	1107.8	1107.8
72.5°	8599.2	3095.7	1143.6	759.4	804.1	902.4	897.9	942.6	1036.4	1063.2	1081.0
75°	4225.9	1255.3	754.9	643.3	719.2	754.9	746.0	857.7	991.7	1107.8	1148.0
77.5°	1603.7	625.4	527.1	562.9	580.7	567.3	594.1	777.3	991.7	1201.7	1241.9
80°	495.8	433.3	415.4	464.6	437.8	415.4	446.7	643.3	839.8	911.3	911.3
82.5°	299.3	339.5	321.6	317.2	294.8	299.3	321.6	460.1	647.7	679.0	679.0
85°	210.0	223.4	183.2	174.2	169.8	165.3	165.3	268.0	384.2	379.7	393.1
87.5°	80.4	89.3	67.0	67.0	62.5	44.7	35.7	44.7	44.7	31.3	22.3
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)