

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: P1211113

Luminaire Tested: **ARCH4-170-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211113
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: ARCH4-170-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27748 lumens
Efficiency: N/A
Efficacy: 163.4 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): 169.8
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



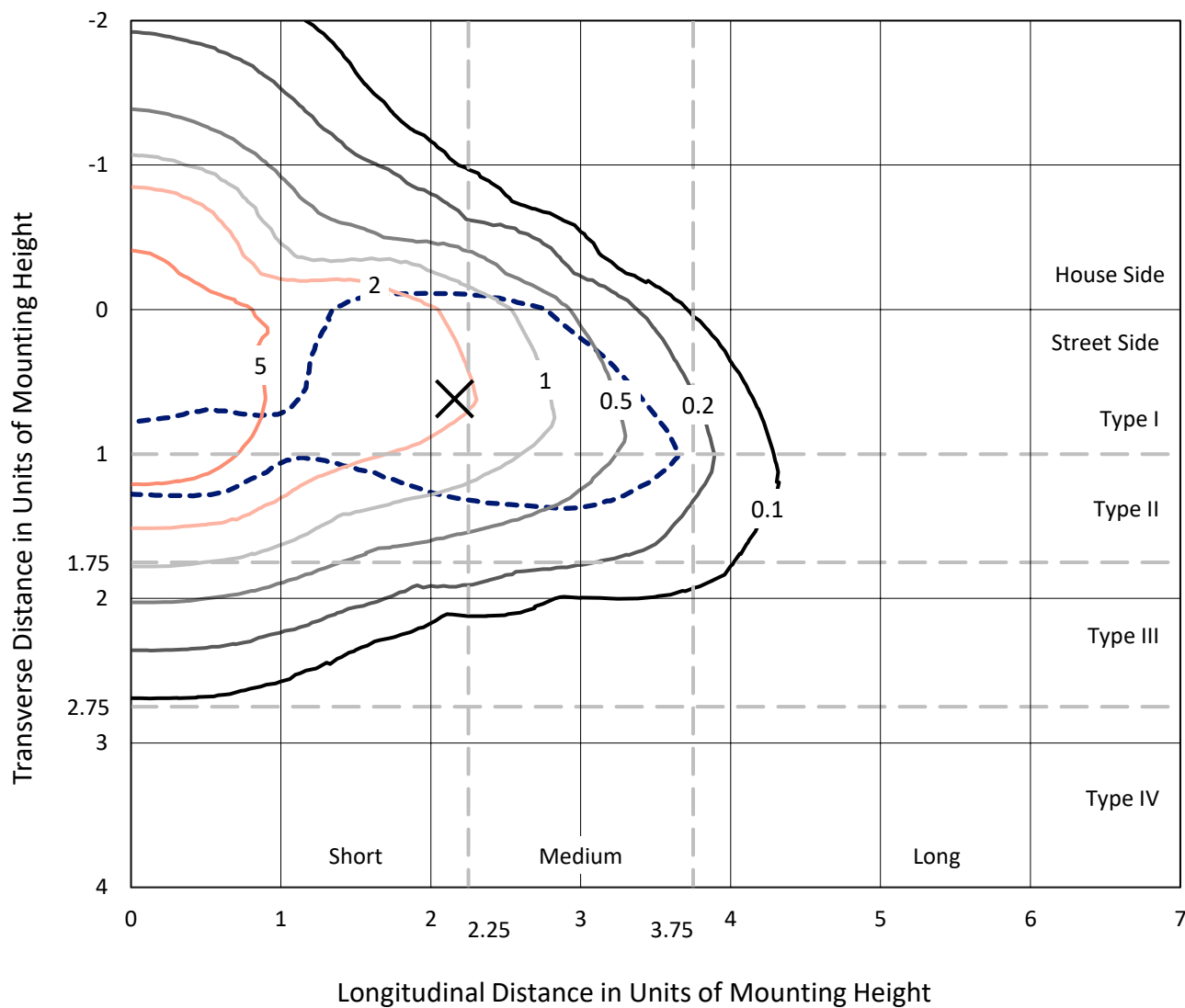
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Iso-Footcandle Lines of Horizontal Illumination

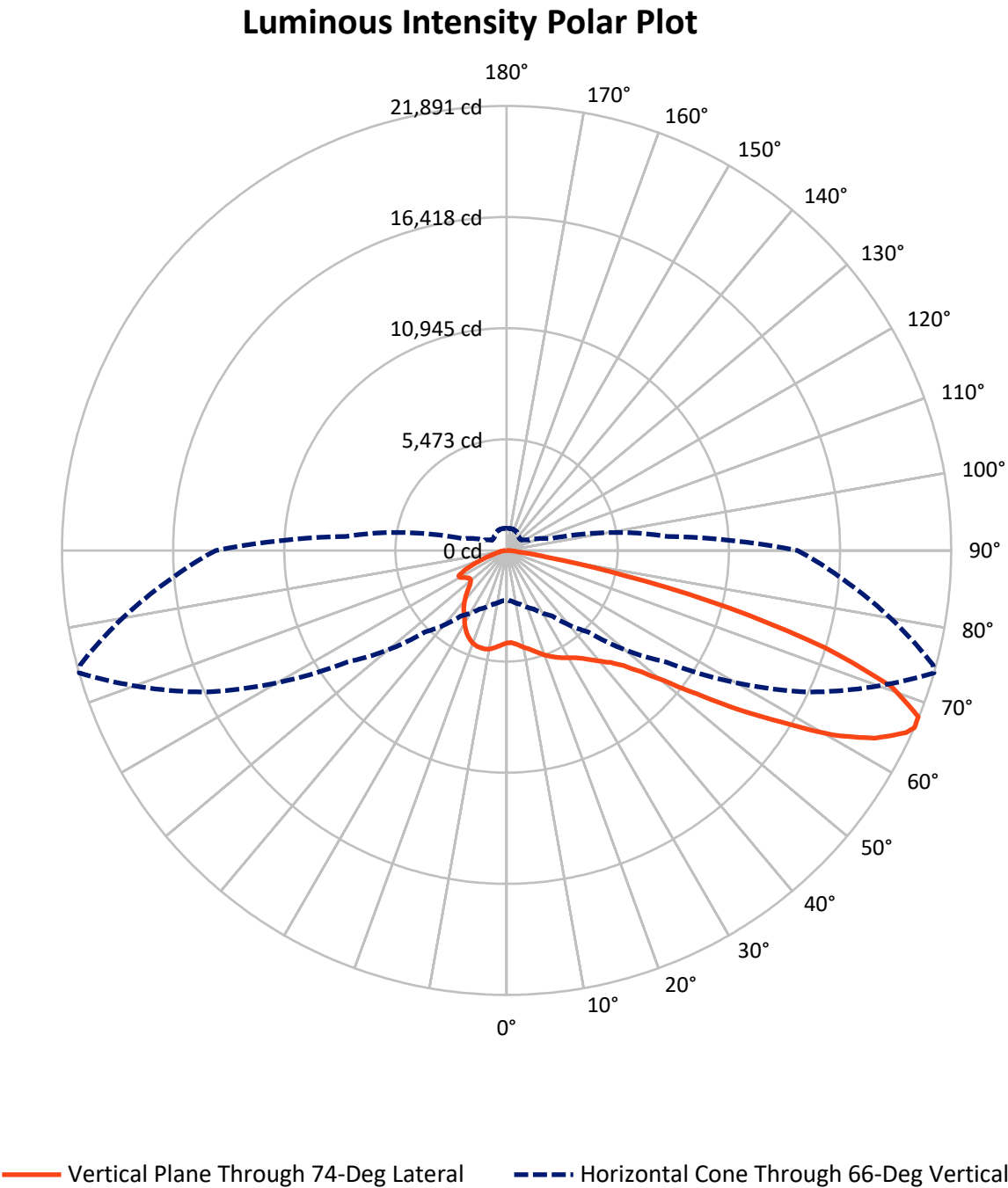
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6757.4	0.0	6757.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	20990.6	0.0	20990.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	27748.0	0.0	27748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.9	1.6
10°-20°	1334.4	4.8
20°-30°	2504.0	9.0
30°-40°	3851.7	13.9
40°-50°	5180.9	18.7
50°-60°	6127.0	22.1
60°-70°	5667.8	20.4
70°-80°	2384.4	8.6
80°-90°	263.9	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°	27748.0	100.0
0°-180°	27748.0	100.0

Coefficient of Utilization



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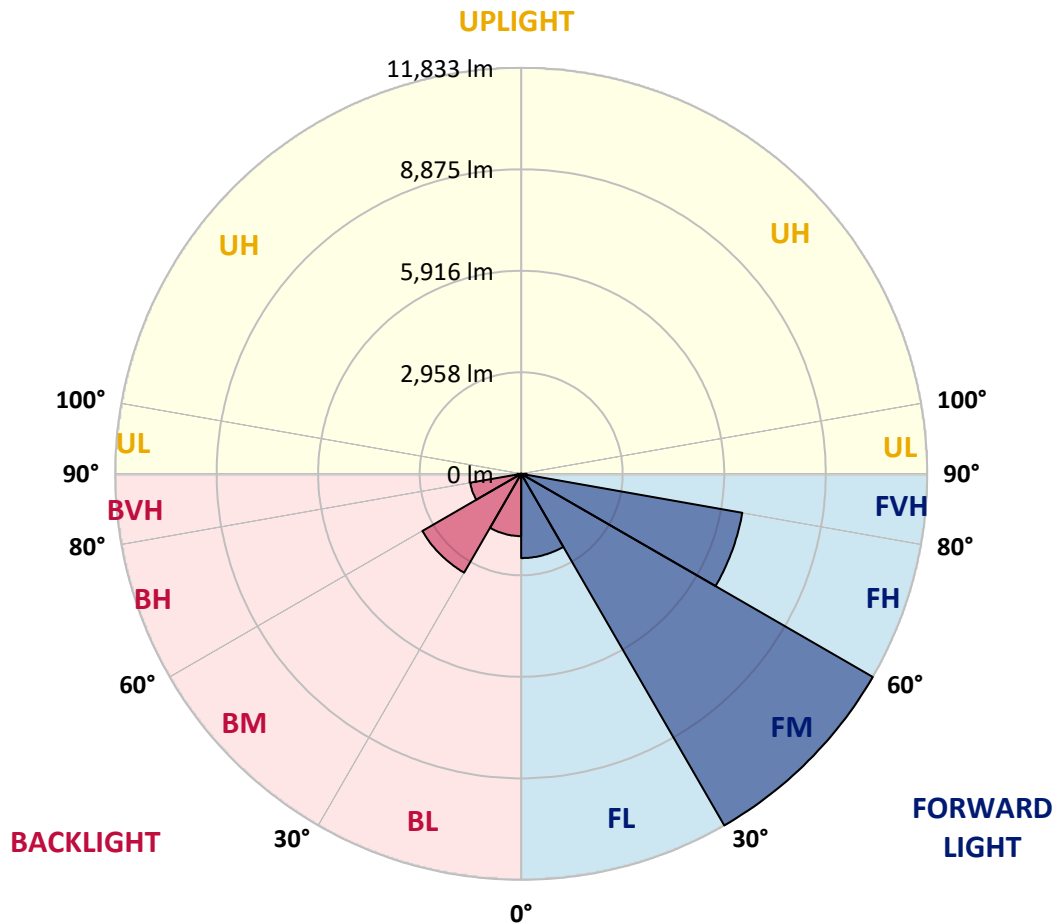
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2456.0	8.9			
FM	(30°-60°)	11833.0	42.6			
FH	(60°-80°)	6543.8	23.6			G3/7500
FVH	(80°-90°)	157.9	0.6			G2/225
BL	(0°-30°)	1816.2	6.5	B3/2500		
BM	(30°-60°)	3326.7	12.0	B3/5000		
BH	(60°-80°)	1508.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	106.0	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°	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8
2.5°	4534.5	4527.4	4541.7	4563.1	4573.8	4556.0	4548.8	4545.2	4545.2	4534.5	4552.4
5°	4320.3	4316.7	4348.9	4388.1	4463.1	4516.7	4588.1	4630.9	4616.7	4595.2	4609.5
7.5°	4041.8	4034.7	4073.9	4148.9	4252.5	4370.3	4545.2	4680.9	4734.5	4727.3	4723.8
10°	4148.9	4141.8	4138.2	4116.8	4152.5	4266.8	4448.8	4688.1	4870.2	4873.7	4877.3
12.5°	4520.3	4538.1	4520.3	4452.4	4373.9	4331.0	4438.1	4705.9	4984.4	5005.8	5095.1
15°	5027.3	5009.4	4973.7	4895.2	4773.8	4645.2	4566.7	4788.0	5148.7	5166.5	5362.9
17.5°	5473.6	5487.9	5466.4	5391.5	5248.6	5080.8	4841.6	4930.9	5323.6	5373.6	5648.5
20°	5959.2	6016.3	5987.7	5894.9	5777.1	5527.1	5227.2	5138.0	5516.4	5552.1	5944.9
22.5°	6519.7	6580.4	6526.9	6437.6	6341.2	6034.1	5648.5	5391.5	5677.1	5752.1	6230.5
25°	7191.0	7248.1	7198.1	7058.9	6937.5	6562.6	6102.0	5677.1	5834.2	5916.3	6462.6
27.5°	7723.0	7765.8	7812.3	7730.1	7544.5	7155.3	6573.3	5973.5	5991.3	6077.0	6676.8
30°	8197.9	8305.0	8344.3	8355.0	8197.9	7762.3	7055.3	6280.5	6127.0	6216.2	6891.1
32.5°	8847.7	9008.4	8944.1	9008.4	8915.5	8333.6	7555.2	6598.3	6301.9	6384.1	7094.6
35°	9797.5	9926.0	9758.2	9708.2	9558.2	8912.0	8037.2	6926.8	6534.0	6623.3	7287.4
37.5°	10818.6	10965.0	10722.2	10522.3	10236.6	9483.3	8451.4	7358.8	6855.4	6926.8	7465.9
40°	11711.2	11832.6	11622.0	11357.8	10879.3	9986.7	8808.4	7662.3	7176.7	7266.0	7673.0
42.5°	12536.0	12614.6	12378.9	12125.4	11486.3	10440.1	9194.0	7983.6	7551.6	7637.3	7840.8
45°	13371.5	13432.2	13103.7	12743.1	11993.3	10854.3	9618.9	8433.5	8101.5	8215.7	8112.2
47.5°	13521.5	13539.3	13482.2	13239.4	12393.2	11250.7	10143.8	9036.9	8940.5	9065.5	8579.9
50°	12482.5	12643.1	12996.6	13235.9	12553.9	11582.7	10668.7	9901.0	10097.4	10258.1	9551.1
52.5°	10465.1	10618.7	11436.3	12343.2	12168.3	11657.7	11232.8	10997.1	11729.1	11921.9	10872.2
55°	8337.1	8472.8	9336.9	10643.7	10922.2	11314.9	11836.2	12396.8	13810.7	13939.2	12321.8
57.5°	6866.1	6941.1	7558.8	8815.6	9261.9	10218.8	12161.1	14060.6	15928.0	16124.4	13582.2
60°	5630.7	5712.8	6173.4	7208.8	7801.5	8651.3	11904.1	15703.1	18455.9	18455.9	15199.6
62.5°	4238.2	4309.6	4738.1	5548.6	6544.7	7323.1	11082.8	16792.1	20362.6	20276.9	16370.8
65°	2910.0	2967.1	3277.7	3816.9	4713.1	6241.2	9961.7	16806.4	21626.5	21512.3	16870.6
66°	2442.2	2492.2	2756.4	3192.0	3945.4	5662.8	9565.4	16502.9	21890.7	21730.1	16660.0
67.5°	1928.1	1963.8	2138.7	2395.8	2892.1	4584.5	8940.5	15642.4	21865.8	21769.4	16124.4
70°	1378.2	1403.2	1531.7	1585.3	1710.3	2652.9	7101.7	13700.0	20112.6	20141.2	14017.8
72.5°	1067.6	1106.9	1185.4	1196.1	1167.6	1410.3	4309.6	11429.2	16452.9	16442.2	10404.4
75°	860.5	881.9	921.2	942.6	935.5	910.5	1824.5	8526.4	11325.6	11457.7	5827.1
77.5°	678.4	674.8	710.5	739.1	760.5	714.1	835.5	4998.7	5937.7	5769.9	2188.7
80°	499.9	499.9	549.9	560.6	592.7	599.8	557.0	1928.1	2038.8	1853.1	567.7
82.5°	328.5	328.5	382.0	389.2	421.3	467.7	403.5	578.4	564.1	535.6	257.1
85°	178.5	171.4	189.2	214.2	232.1	274.9	242.8	289.2	296.4	292.8	171.4
87.5°	35.7	32.1	50.0	57.1	64.3	85.7	78.6	117.8	164.2	160.7	75.0
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°	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8
2.5°	4577.4	4573.8	4613.1	4659.5	4713.1	4745.2	4759.5	4784.5	4766.6	4773.8	4795.2
5°	4645.2	4655.9	4713.1	4773.8	4798.8	4780.9	4741.6	4727.3	4695.2	4688.1	4680.9
7.5°	4745.2	4763.0	4820.2	4834.5	4759.5	4634.5	4545.2	4495.3	4441.7	4427.4	4420.3
10°	4909.4	4920.2	4934.4	4788.0	4602.4	4434.6	4323.9	4277.5	4241.8	4213.2	4220.3
12.5°	5116.5	5109.4	4998.7	4695.2	4431.0	4259.6	4184.6	4156.1	4131.1	4113.2	4109.6
15°	5377.2	5327.2	5009.4	4566.7	4270.3	4127.5	4073.9	4063.2	4034.7	4034.7	4031.1
17.5°	5641.4	5512.9	5002.3	4431.0	4116.8	4038.2	4006.1	3999.0	3991.8	3988.3	3999.0
20°	5905.6	5677.1	4945.1	4263.2	4009.7	3963.3	3956.1	3959.7	3952.5	3963.3	3956.1
22.5°	6137.7	5784.2	4838.0	4084.7	3934.7	3931.1	3913.3	3920.4	3945.4	3949.0	3959.7
25°	6316.2	5823.5	4680.9	3920.4	3881.1	3874.0	3895.4	3924.0	3945.4	3949.0	3966.8
27.5°	6462.6	5802.1	4484.6	3791.9	3788.3	3827.6	3891.8	3902.6	3906.1	3906.1	3891.8
30°	6573.3	5755.6	4234.6	3649.1	3666.9	3763.3	3824.0	3824.0	3795.4	3788.3	3809.7
32.5°	6598.3	5695.0	3963.3	3502.7	3531.2	3645.5	3720.5	3695.5	3663.3	3663.3	3677.6
35°	6619.7	5612.8	3745.5	3302.7	3345.6	3481.2	3552.6	3502.7	3467.0	3456.2	3452.7
37.5°	6612.6	5580.7	3549.1	3049.2	3106.3	3238.4	3284.9	3238.4	3184.9	3159.9	3192.0
40°	6619.7	5559.3	3302.7	2770.7	2827.8	2906.4	2967.1	2931.4	2881.4	2817.1	2849.3
42.5°	6662.6	5587.8	3031.4	2499.4	2499.4	2542.2	2645.7	2620.7	2499.4	2474.4	2502.9
45°	6891.1	5741.4	2760.0	2228.0	2188.7	2217.3	2324.4	2217.3	2142.3	2142.3	2167.3
47.5°	7444.5	6027.0	2520.8	1988.8	1895.9	1953.1	1981.6	1881.7	1824.5	1810.2	1835.2
50°	8572.8	6598.3	2378.0	1792.4	1678.1	1721.0	1703.1	1699.6	1642.4	1649.6	1663.9
52.5°	10286.6	7712.3	2335.1	1696.0	1553.2	1563.9	1546.0	1553.2	1542.5	1578.2	1588.9
55°	12154.0	8887.0	2388.7	1710.3	1467.5	1392.5	1399.6	1435.3	1478.2	1535.3	1546.0
57.5°	13550.1	9476.1	2527.9	1806.7	1360.4	1246.1	1264.0	1331.8	1413.9	1460.3	1485.3
60°	14589.1	9404.7	2731.4	1831.7	1231.8	1114.0	1146.1	1246.1	1317.5	1356.8	1381.8
62.5°	14928.3	8958.4	2781.4	1649.6	1064.0	989.0	1067.6	1171.1	1203.3	1246.1	1264.0
65°	14649.8	8326.4	2417.2	1338.9	935.5	896.2	1010.5	1089.0	1131.8	1153.3	1156.8
66°	14321.3	7947.9	2220.9	1217.5	889.1	867.6	989.0	1053.3	1096.1	1092.6	1096.1
67.5°	13600.0	7155.3	1903.1	1046.2	821.2	824.8	953.3	996.2	1010.5	999.7	999.7
70°	11147.1	5038.0	1363.9	792.7	721.2	771.2	856.9	867.6	899.8	885.5	885.5
72.5°	6873.2	2474.4	914.0	607.0	642.7	721.2	717.7	753.4	828.4	849.8	864.1
75°	3377.7	1003.3	603.4	514.2	574.9	603.4	596.3	685.5	792.7	885.5	917.6
77.5°	1281.8	499.9	421.3	449.9	464.2	453.5	474.9	621.3	792.7	960.5	992.6
80°	396.3	346.3	332.1	371.3	349.9	332.1	357.1	514.2	671.3	728.4	728.4
82.5°	239.2	271.4	257.1	253.5	235.7	239.2	257.1	367.8	517.7	542.7	542.7
85°	167.8	178.5	146.4	139.2	135.7	132.1	132.1	214.2	307.1	303.5	314.2
87.5°	64.3	71.4	53.6	53.6	50.0	35.7	28.6	35.7	35.7	25.0	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)