

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: P1211017

Luminaire Tested: **ARCH4-140-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211017
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: ARCH4-140-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23762 lumens
Efficiency: N/A
Efficacy: 168.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.3
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



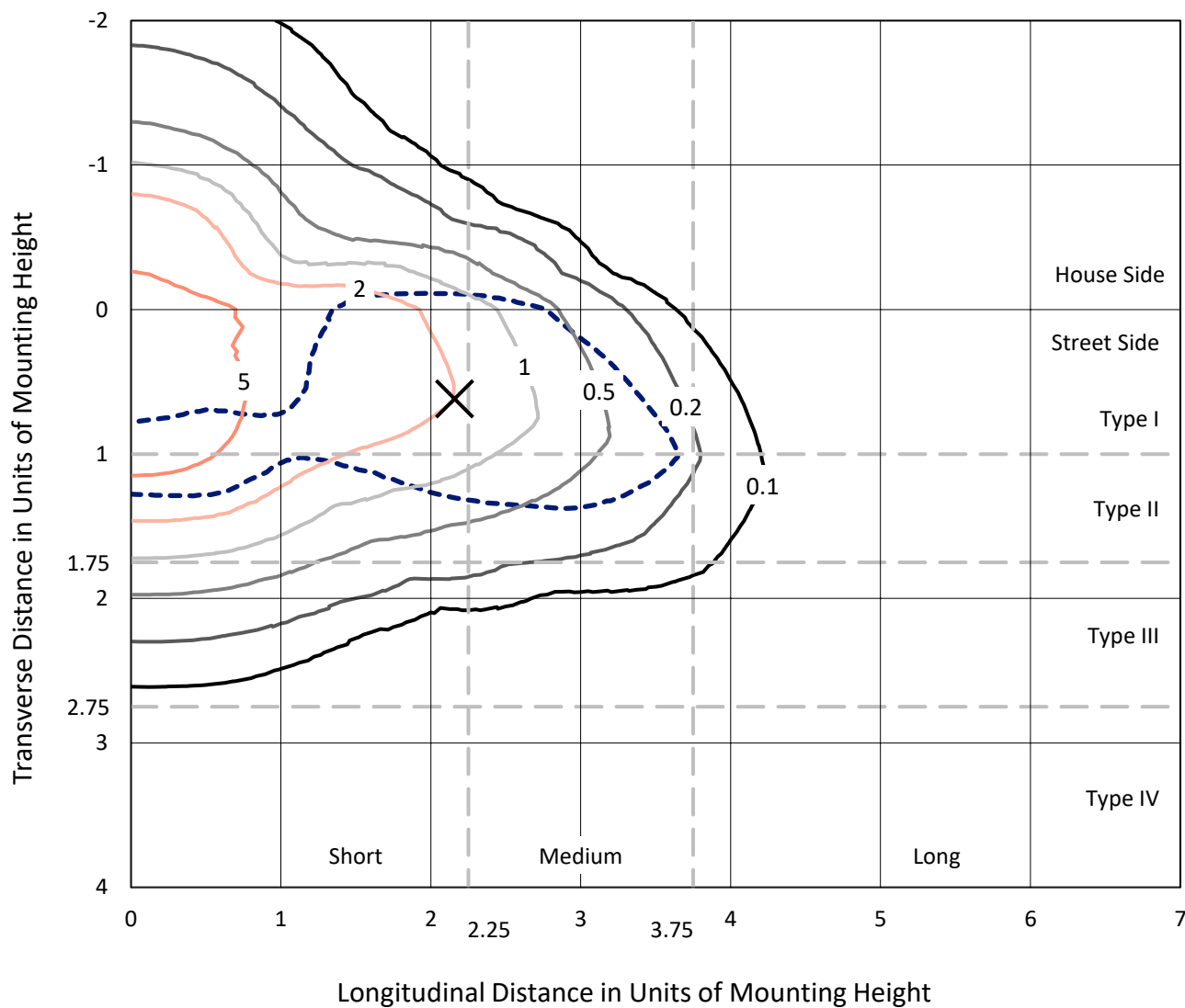
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Iso-Footcandle Lines of Horizontal Illumination

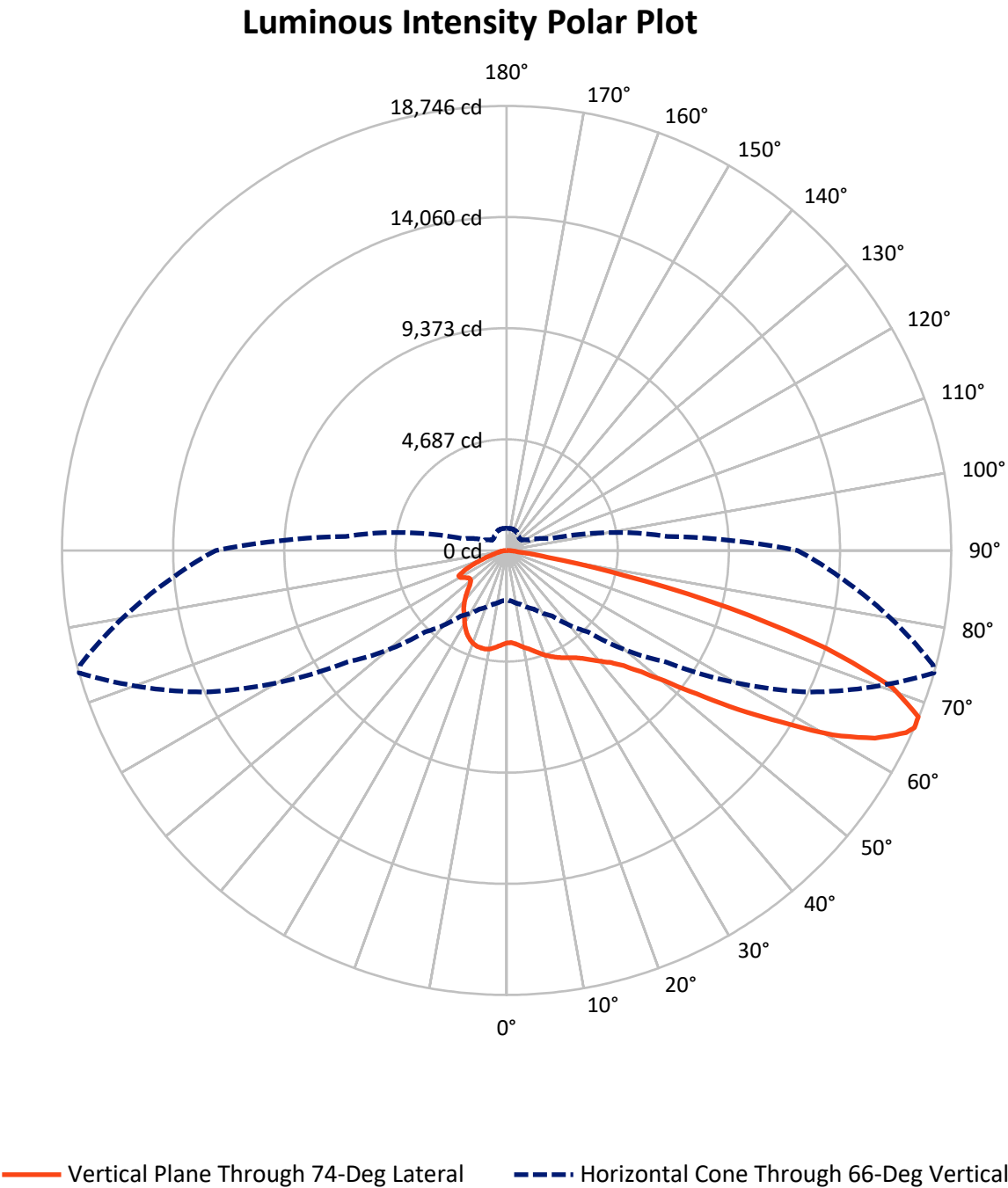
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5786.7	0.0	5786.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	17975.3	0.0	17975.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	23762.0	0.0	23762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.6	1.6
10°-20°	1142.7	4.8
20°-30°	2144.3	9.0
30°-40°	3298.4	13.9
40°-50°	4436.7	18.7
50°-60°	5246.9	22.1
60°-70°	4853.6	20.4
70°-80°	2041.9	8.6
80°-90°	226.0	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°	23762.0	100.0
0°-180°	23762.0	100.0

Coefficient of Utilization



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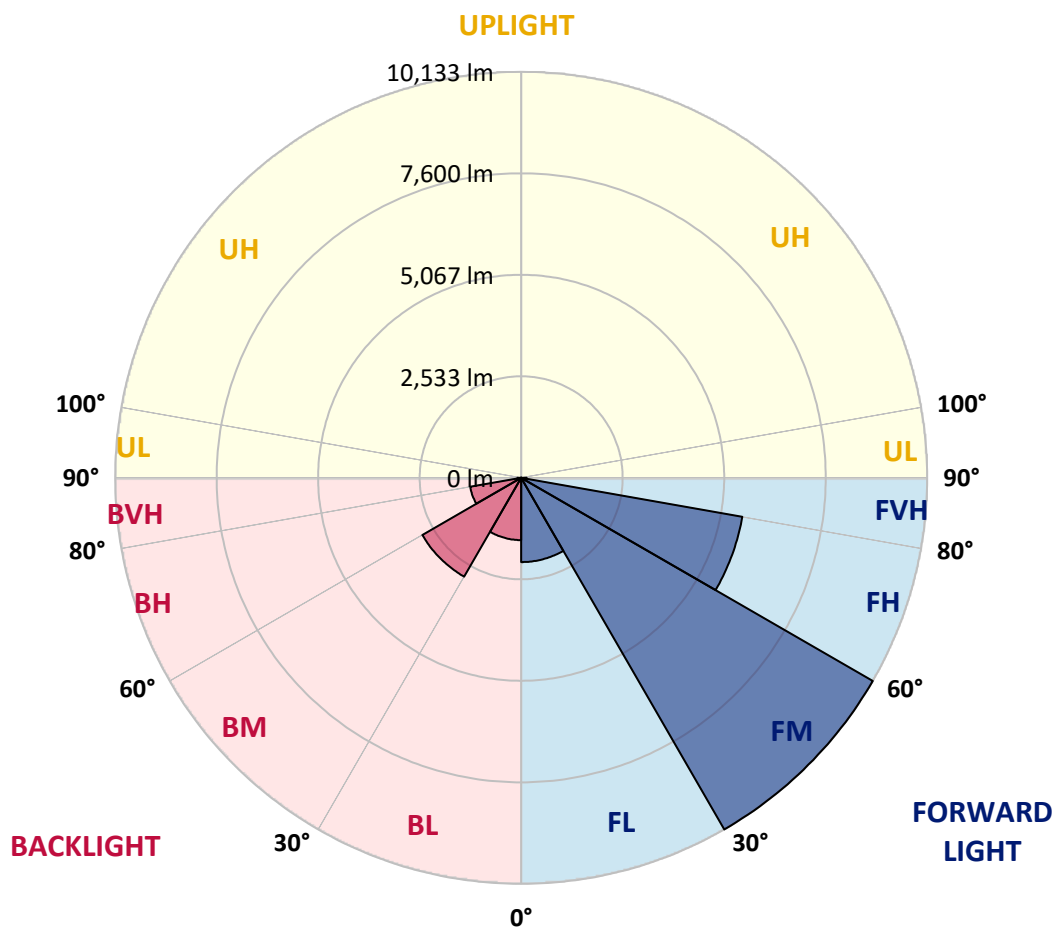
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2103.2	8.9			
FM	(30°-60°)	10133.2	42.6			
FH	(60°-80°)	5603.7	23.6			G3/7500
FVH	(80°-90°)	135.2	0.6			G2/225
BL	(0°-30°)	1555.3	6.5	B3/2500		
BM	(30°-60°)	2848.8	12.0	B3/5000		
BH	(60°-80°)	1291.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	90.8	0.4			G1/100
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°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
2.5°	3883.2	3877.0	3889.3	3907.6	3916.8	3901.5	3895.4	3892.3	3892.3	3883.2	3898.4
5°	3699.7	3696.6	3724.2	3757.8	3822.0	3867.9	3929.0	3965.7	3953.5	3935.1	3947.4
7.5°	3461.2	3455.1	3488.7	3552.9	3641.6	3742.5	3892.3	4008.5	4054.4	4048.3	4045.2
10°	3552.9	3546.8	3543.8	3525.4	3556.0	3653.8	3809.8	4014.6	4170.6	4173.6	4176.7
12.5°	3870.9	3886.2	3870.9	3812.8	3745.6	3708.9	3800.6	4029.9	4268.4	4286.8	4363.2
15°	4305.1	4289.8	4259.2	4192.0	4088.0	3977.9	3910.7	4100.2	4409.1	4424.3	4592.5
17.5°	4687.3	4699.5	4681.2	4617.0	4494.7	4351.0	4146.1	4222.5	4558.9	4601.7	4837.1
20°	5103.1	5152.1	5127.6	5048.1	4947.2	4733.2	4476.3	4399.9	4724.0	4754.6	5090.9
22.5°	5583.2	5635.2	5589.3	5512.9	5430.3	5167.3	4837.1	4617.0	4861.6	4925.8	5335.5
25°	6158.0	6206.9	6164.1	6044.9	5940.9	5619.9	5225.4	4861.6	4996.1	5066.4	5534.3
27.5°	6613.6	6650.3	6690.0	6619.7	6460.7	6127.4	5629.0	5115.4	5130.7	5204.0	5717.7
30°	7020.2	7112.0	7145.6	7154.8	7020.2	6647.2	6041.8	5378.3	5246.8	5323.3	5901.2
32.5°	7576.7	7714.3	7659.3	7714.3	7634.8	7136.4	6469.9	5650.4	5396.7	5467.0	6075.5
35°	8390.1	8500.1	8356.4	8313.6	8185.2	7631.8	6882.7	5931.7	5595.4	5671.8	6240.6
37.5°	9264.5	9389.9	9182.0	9010.7	8766.1	8121.0	7237.3	6301.7	5870.6	5931.7	6393.4
40°	10028.9	10132.9	9952.5	9726.2	9316.5	8552.1	7543.1	6561.6	6145.8	6222.2	6570.8
42.5°	10735.2	10802.5	10600.7	10383.6	9836.3	8940.4	7873.3	6836.8	6466.8	6540.2	6714.5
45°	11450.7	11502.7	11221.4	10912.6	10270.5	9295.1	8237.2	7222.1	6937.7	7035.5	6946.9
47.5°	11579.1	11594.4	11545.5	11337.6	10612.9	9634.5	8686.6	7738.8	7656.2	7763.2	7347.4
50°	10689.4	10827.0	11129.7	11334.5	10750.5	9918.9	9136.1	8478.7	8646.9	8784.5	8179.1
52.5°	8961.8	9093.3	9793.5	10570.1	10420.3	9983.1	9619.2	9417.4	10044.2	10209.3	9310.4
55°	7139.5	7255.7	7995.6	9114.7	9353.2	9689.5	10135.9	10616.0	11826.8	11936.9	10551.8
57.5°	5879.8	5944.0	6472.9	7549.2	7931.4	8750.8	10414.2	12040.8	13640.0	13808.1	11631.1
60°	4821.8	4892.2	5286.6	6173.3	6680.9	7408.6	10194.0	13447.3	15804.7	15804.7	13016.2
62.5°	3629.4	3690.5	4057.4	4751.5	5604.6	6271.1	9490.8	14379.9	17437.5	17364.1	14019.1
65°	2491.9	2540.9	2806.9	3268.6	4036.0	5344.7	8530.7	14392.1	18519.9	18422.0	14447.2
66°	2091.4	2134.2	2360.5	2733.5	3378.6	4849.4	8191.3	14132.2	18746.1	18608.6	14266.8
67.5°	1651.1	1681.7	1831.5	2051.6	2476.7	3926.0	7656.2	13395.3	18724.7	18642.2	13808.1
70°	1180.2	1201.6	1311.7	1357.6	1464.6	2271.8	6081.6	11732.0	17223.5	17247.9	12004.1
72.5°	914.2	947.9	1015.1	1024.3	999.8	1207.8	3690.5	9787.4	14089.4	14080.2	8909.8
75°	736.9	755.2	788.9	807.2	801.1	779.7	1562.4	7301.5	9698.7	9811.8	4990.0
77.5°	580.9	577.9	608.5	632.9	651.3	611.5	715.5	4280.6	5084.8	4941.1	1874.3
80°	428.1	428.1	470.9	480.0	507.6	513.7	477.0	1651.1	1745.9	1586.9	486.2
82.5°	281.3	281.3	327.2	333.3	360.8	400.5	345.5	495.3	483.1	458.6	220.1
85°	152.9	146.8	162.1	183.5	198.7	235.4	207.9	247.7	253.8	250.7	146.8
87.5°	30.6	27.5	42.8	48.9	55.0	73.4	67.3	100.9	140.6	137.6	64.2
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°	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4	3895.4
2.5°	3919.8	3916.8	3950.4	3990.2	4036.0	4063.5	4075.8	4097.2	4081.9	4088.0	4106.4
5°	3977.9	3987.1	4036.0	4088.0	4109.4	4094.1	4060.5	4048.3	4020.7	4014.6	4008.5
7.5°	4063.5	4078.8	4127.8	4140.0	4075.8	3968.8	3892.3	3849.5	3803.7	3791.4	3785.3
10°	4204.2	4213.4	4225.6	4100.2	3941.2	3797.5	3702.8	3663.0	3632.4	3608.0	3614.1
12.5°	4381.5	4375.4	4280.6	4020.7	3794.5	3647.7	3583.5	3559.0	3537.6	3522.4	3519.3
15°	4604.7	4561.9	4289.8	3910.7	3656.9	3534.6	3488.7	3479.5	3455.1	3455.1	3452.0
17.5°	4831.0	4720.9	4283.7	3794.5	3525.4	3458.1	3430.6	3424.5	3418.4	3415.3	3424.5
20°	5057.3	4861.6	4234.8	3650.8	3433.7	3393.9	3387.8	3390.9	3384.8	3393.9	3387.8
22.5°	5256.0	4953.3	4143.0	3497.9	3369.5	3366.4	3351.1	3357.2	3378.6	3381.7	3390.9
25°	5408.9	4986.9	4008.5	3357.2	3323.6	3317.5	3335.8	3360.3	3378.6	3381.7	3397.0
27.5°	5534.3	4968.6	3840.3	3247.2	3244.1	3277.7	3332.8	3342.0	3345.0	3345.0	3332.8
30°	5629.0	4928.9	3626.3	3124.9	3140.2	3222.7	3274.7	3274.7	3250.2	3244.1	3262.5
32.5°	5650.4	4876.9	3393.9	2999.5	3024.0	3121.8	3186.0	3164.6	3137.1	3137.1	3149.3
35°	5668.8	4806.5	3207.4	2828.3	2865.0	2981.2	3042.3	2999.5	2968.9	2959.8	2956.7
37.5°	5662.7	4779.0	3039.3	2611.2	2660.1	2773.2	2813.0	2773.2	2727.4	2706.0	2733.5
40°	5668.8	4760.7	2828.3	2372.7	2421.6	2488.9	2540.9	2510.3	2467.5	2412.4	2440.0
42.5°	5705.5	4785.1	2595.9	2140.3	2140.3	2177.0	2265.7	2244.3	2140.3	2118.9	2143.4
45°	5901.2	4916.6	2363.5	1907.9	1874.3	1898.8	1990.5	1898.8	1834.6	1834.6	1856.0
47.5°	6375.1	5161.2	2158.7	1703.1	1623.6	1672.5	1697.0	1611.4	1562.4	1550.2	1571.6
50°	7341.3	5650.4	2036.4	1534.9	1437.1	1473.8	1458.5	1455.4	1406.5	1412.6	1424.8
52.5°	8808.9	6604.4	1999.7	1452.4	1330.1	1339.2	1323.9	1330.1	1320.9	1351.5	1360.6
55°	10408.1	7610.4	2045.5	1464.6	1256.7	1192.5	1198.6	1229.2	1265.8	1314.8	1323.9
57.5°	11603.6	8114.9	2164.8	1547.1	1164.9	1067.1	1082.4	1140.5	1210.8	1250.6	1272.0
60°	12493.4	8053.7	2339.1	1568.5	1054.9	954.0	981.5	1067.1	1128.3	1161.9	1183.3
62.5°	12783.8	7671.5	2381.9	1412.6	911.2	847.0	914.2	1002.9	1030.4	1067.1	1082.4
65°	12545.3	7130.3	2070.0	1146.6	801.1	767.5	865.3	932.6	969.3	987.6	990.7
66°	12264.0	6806.2	1901.8	1042.6	761.3	743.0	847.0	902.0	938.7	935.6	938.7
67.5°	11646.4	6127.4	1629.7	895.9	703.2	706.3	816.4	853.1	865.3	856.1	856.1
70°	9545.8	4314.3	1168.0	678.8	617.6	660.4	733.8	743.0	770.5	758.3	758.3
72.5°	5885.9	2118.9	782.7	519.8	550.4	617.6	614.6	645.2	709.4	727.7	739.9
75°	2892.5	859.2	516.7	440.3	492.3	516.7	510.6	587.1	678.8	758.3	785.8
77.5°	1097.7	428.1	360.8	385.3	397.5	388.3	406.7	532.0	678.8	822.5	850.0
80°	339.4	296.6	284.4	318.0	299.6	284.4	305.8	440.3	574.8	623.8	623.8
82.5°	204.9	232.4	220.1	217.1	201.8	204.9	220.1	314.9	443.4	464.8	464.8
85°	143.7	152.9	125.4	119.2	116.2	113.1	113.1	183.5	263.0	259.9	269.1
87.5°	55.0	61.2	45.9	45.9	42.8	30.6	24.5	30.6	30.6	21.4	15.3
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)