

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: P1211069

Luminaire Tested: **ARCH4-160-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211069
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: ARCH4-160-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25213 lumens
Efficiency: N/A
Efficacy: 156.9 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): 160.7
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



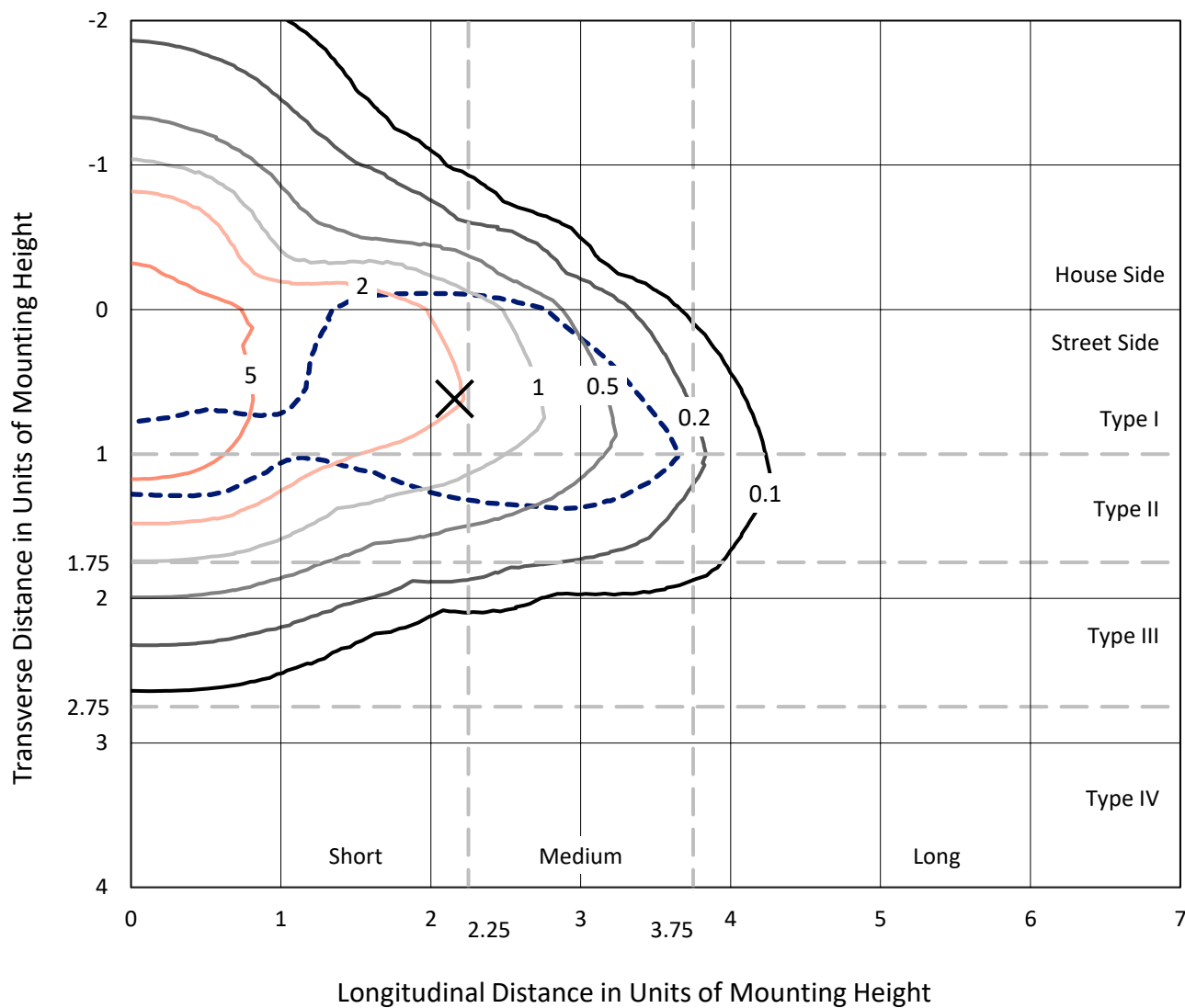
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

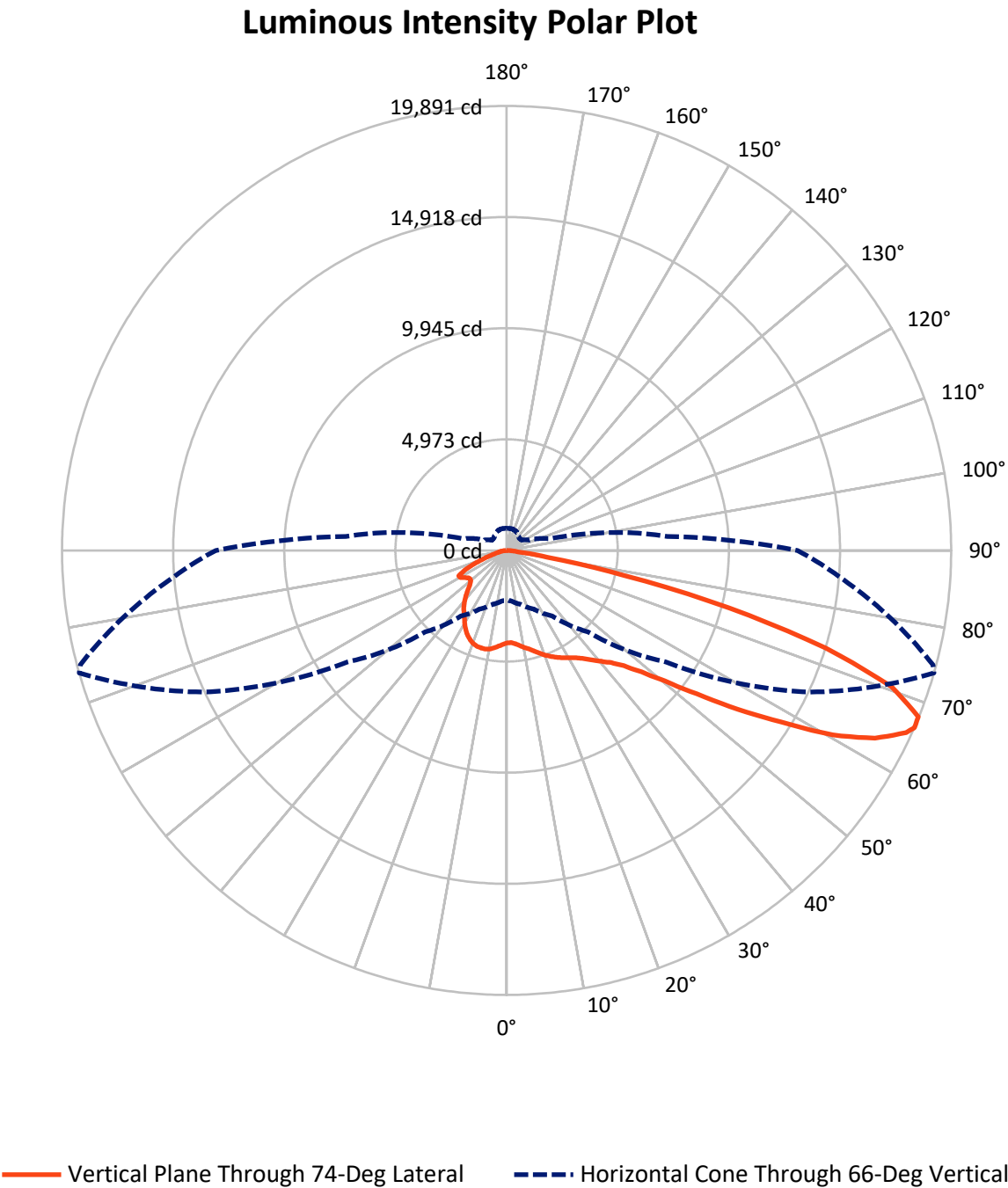
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6140.0	0.0	6140.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	19072.9	0.0	19072.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	25213.0	0.0	25213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.3	1.6
10°-20°	1212.5	4.8
20°-30°	2275.2	9.0
30°-40°	3499.8	13.9
40°-50°	4707.6	18.7
50°-60°	5567.3	22.1
60°-70°	5150.0	20.4
70°-80°	2166.6	8.6
80°-90°	239.7	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°	25213.0	100.0
0°-180°	25213.0	100.0

Coefficient of Utilization



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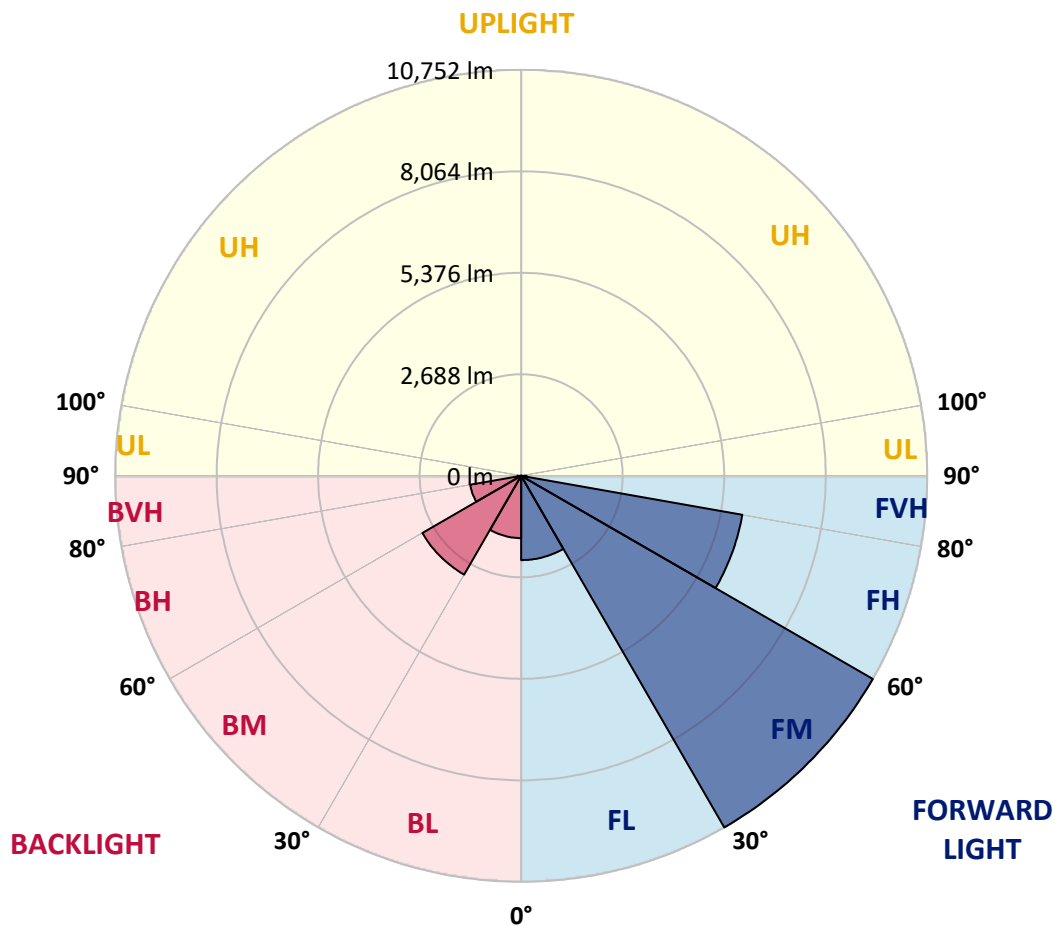
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2231.7	8.9			
FM	(30°-60°)	10751.9	42.6			
FH	(60°-80°)	5945.9	23.6			G3/7500
FVH	(80°-90°)	143.4	0.6			G2/225
BL	(0°-30°)	1650.3	6.5	B3/2500		
BM	(30°-60°)	3022.8	12.0	B3/5000		
BH	(60°-80°)	1370.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	96.3	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°	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2
2.5°	4120.3	4113.8	4126.8	4146.2	4156.0	4139.7	4133.2	4130.0	4130.0	4120.3	4136.5
5°	3925.6	3922.4	3951.6	3987.3	4055.4	4104.1	4168.9	4207.9	4194.9	4175.4	4188.4
7.5°	3672.6	3666.1	3701.8	3769.9	3864.0	3971.0	4130.0	4253.3	4302.0	4295.5	4292.2
10°	3769.9	3763.4	3760.2	3740.7	3773.1	3876.9	4042.4	4259.8	4425.2	4428.5	4431.7
12.5°	4107.3	4123.5	4107.3	4045.7	3974.3	3935.3	4032.7	4276.0	4529.1	4548.5	4629.6
15°	4568.0	4551.8	4519.3	4447.9	4337.6	4220.8	4149.5	4350.6	4678.3	4694.5	4873.0
17.5°	4973.5	4986.5	4967.0	4898.9	4769.1	4616.7	4399.3	4480.4	4837.3	4882.7	5132.5
20°	5414.8	5466.7	5440.7	5356.4	5249.3	5022.2	4749.7	4668.6	5012.5	5044.9	5401.8
22.5°	5924.1	5979.3	5930.6	5849.5	5761.9	5482.9	5132.5	4898.9	5158.5	5226.6	5661.3
25°	6534.0	6585.9	6540.5	6414.0	6303.7	5963.0	5544.5	5158.5	5301.2	5375.8	5872.2
27.5°	7017.4	7056.4	7098.5	7023.9	6855.2	6501.6	5972.8	5427.7	5443.9	5521.8	6066.9
30°	7448.9	7546.3	7581.9	7591.7	7448.9	7053.1	6410.8	5706.7	5567.2	5648.3	6261.5
32.5°	8039.4	8185.4	8127.0	8185.4	8101.0	7572.2	6865.0	5995.5	5726.2	5800.8	6446.4
35°	8902.4	9019.2	8866.7	8821.3	8685.0	8097.8	7302.9	6294.0	5937.1	6018.2	6621.6
37.5°	9830.3	9963.3	9742.7	9561.0	9301.4	8616.9	7679.3	6686.5	6229.1	6294.0	6783.8
40°	10641.3	10751.6	10560.2	10320.1	9885.4	9074.3	8003.7	6962.3	6521.1	6602.2	6972.0
42.5°	11390.8	11462.1	11248.0	11017.7	10436.9	9486.4	8354.1	7254.3	6861.7	6939.6	7124.5
45°	12149.9	12205.1	11906.6	11578.9	10897.6	9862.7	8740.2	7663.1	7361.3	7465.2	7371.1
47.5°	12286.2	12302.4	12250.5	12029.9	11261.0	10222.8	9217.1	8211.3	8123.7	8237.3	7796.1
50°	11342.1	11488.1	11809.3	12026.7	11407.0	10524.5	9694.0	8996.5	9174.9	9320.9	8678.5
52.5°	9509.1	9648.6	10391.5	11215.6	11056.6	10592.7	10206.6	9992.5	10657.6	10832.7	9878.9
55°	7575.5	7698.7	8483.9	9671.3	9924.3	10281.2	10754.9	11264.2	12549.0	12665.8	11196.1
57.5°	6238.8	6306.9	6868.2	8010.2	8415.7	9285.2	11050.1	12776.1	14472.9	14651.3	12341.3
60°	5116.3	5190.9	5609.4	6550.3	7088.8	7861.0	10816.5	14268.5	16769.8	16769.8	13811.0
62.5°	3851.0	3915.9	4305.2	5041.7	5946.8	6654.1	10070.3	15258.0	18502.3	18424.4	14875.2
65°	2644.1	2696.0	2978.3	3468.2	4282.5	5671.1	9051.6	15271.0	19650.8	19547.0	15329.4
66°	2219.1	2264.5	2504.6	2900.4	3585.0	5145.5	8691.5	14995.2	19890.9	19744.9	15137.9
67.5°	1751.9	1784.4	1943.3	2176.9	2627.9	4165.7	8123.7	14213.3	19868.1	19780.5	14651.3
70°	1252.3	1275.0	1391.8	1440.5	1554.0	2410.5	6452.9	12448.4	18275.2	18301.1	12737.2
72.5°	970.0	1005.7	1077.1	1086.8	1060.9	1281.5	3915.9	10385.0	14949.8	14940.0	9453.9
75°	781.9	801.3	837.0	856.5	850.0	827.3	1657.8	7747.4	10290.9	10411.0	5294.7
77.5°	616.4	613.2	645.6	671.6	691.0	648.9	759.2	4542.0	5395.3	5242.8	1988.8
80°	454.2	454.2	499.6	509.4	538.6	545.0	506.1	1751.9	1852.5	1683.8	515.8
82.5°	298.5	298.5	347.1	353.6	382.8	425.0	366.6	525.6	512.6	486.6	233.6
85°	162.2	155.7	171.9	194.7	210.9	249.8	220.6	262.8	269.3	266.0	155.7
87.5°	32.4	29.2	45.4	51.9	58.4	77.9	71.4	107.1	149.2	146.0	68.1
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°	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2	4133.2
2.5°	4159.2	4156.0	4191.6	4233.8	4282.5	4311.7	4324.7	4347.4	4331.2	4337.6	4357.1
5°	4220.8	4230.6	4282.5	4337.6	4360.4	4344.1	4308.4	4295.5	4266.3	4259.8	4253.3
7.5°	4311.7	4327.9	4379.8	4392.8	4324.7	4211.1	4130.0	4084.6	4035.9	4022.9	4016.5
10°	4460.9	4470.7	4483.6	4350.6	4181.9	4029.4	3928.9	3886.7	3854.2	3828.3	3834.8
12.5°	4649.1	4642.6	4542.0	4266.3	4026.2	3870.5	3802.3	3776.4	3753.7	3737.4	3734.2
15°	4885.9	4840.5	4551.8	4149.5	3880.2	3750.4	3701.8	3692.0	3666.1	3666.1	3662.8
17.5°	5126.0	5009.2	4545.3	4026.2	3740.7	3669.3	3640.1	3633.6	3627.1	3623.9	3633.6
20°	5366.1	5158.5	4493.4	3873.7	3643.4	3601.2	3594.7	3597.9	3591.4	3601.2	3594.7
22.5°	5577.0	5255.8	4396.0	3711.5	3575.2	3572.0	3555.8	3562.3	3585.0	3588.2	3597.9
25°	5739.2	5291.5	4253.3	3562.3	3526.6	3520.1	3539.5	3565.5	3585.0	3588.2	3604.4
27.5°	5872.2	5272.0	4074.9	3445.5	3442.2	3477.9	3536.3	3546.0	3549.3	3549.3	3536.3
30°	5972.8	5229.8	3847.7	3315.7	3331.9	3419.5	3474.7	3474.7	3448.7	3442.2	3461.7
32.5°	5995.5	5174.7	3601.2	3182.7	3208.6	3312.4	3380.6	3357.9	3328.7	3328.7	3341.6
35°	6014.9	5100.1	3403.3	3001.0	3039.9	3163.2	3228.1	3182.7	3150.2	3140.5	3137.2
37.5°	6008.5	5070.9	3224.8	2770.6	2822.5	2942.6	2984.8	2942.6	2893.9	2871.2	2900.4
40°	6014.9	5051.4	3001.0	2517.6	2569.5	2640.9	2696.0	2663.6	2618.2	2559.8	2589.0
42.5°	6053.9	5077.3	2754.4	2271.0	2271.0	2309.9	2404.0	2381.3	2271.0	2248.3	2274.3
45°	6261.5	5216.8	2507.9	2024.4	1988.8	2014.7	2112.0	2014.7	1946.6	1946.6	1969.3
47.5°	6764.4	5476.4	2290.5	1807.1	1722.7	1774.6	1800.6	1709.8	1657.8	1644.9	1667.6
50°	7789.6	5995.5	2160.7	1628.6	1524.8	1563.8	1547.5	1544.3	1492.4	1498.9	1511.8
52.5°	9346.9	7007.7	2121.8	1541.0	1411.3	1421.0	1404.8	1411.3	1401.5	1434.0	1443.7
55°	11043.6	8075.1	2170.4	1554.0	1333.4	1265.3	1271.8	1304.2	1343.1	1395.1	1404.8
57.5°	12312.2	8610.4	2297.0	1641.6	1236.1	1132.3	1148.5	1210.1	1284.7	1326.9	1349.6
60°	13256.2	8545.5	2481.9	1664.3	1119.3	1012.2	1041.4	1132.3	1197.1	1232.8	1255.5
62.5°	13564.5	8140.0	2527.3	1498.9	966.8	898.7	970.0	1064.1	1093.3	1132.3	1148.5
65°	13311.4	7565.7	2196.4	1216.6	850.0	814.3	918.1	989.5	1028.4	1047.9	1051.2
66°	13012.9	7221.8	2018.0	1106.3	807.8	788.4	898.7	957.1	996.0	992.8	996.0
67.5°	12357.6	6501.6	1729.2	950.6	746.2	749.4	866.2	905.2	918.1	908.4	908.4
70°	10128.7	4577.7	1239.3	720.2	655.4	700.8	778.6	788.4	817.6	804.6	804.6
72.5°	6245.3	2248.3	830.5	551.5	584.0	655.4	652.1	684.5	752.7	772.1	785.1
75°	3069.1	911.7	548.3	467.2	522.3	548.3	541.8	622.9	720.2	804.6	833.8
77.5°	1164.7	454.2	382.8	408.8	421.8	412.0	431.5	564.5	720.2	872.7	901.9
80°	360.1	314.7	301.7	337.4	317.9	301.7	324.4	467.2	609.9	661.8	661.8
82.5°	217.4	246.6	233.6	230.3	214.1	217.4	233.6	334.2	470.4	493.1	493.1
85°	152.5	162.2	133.0	126.5	123.3	120.0	120.0	194.7	279.0	275.8	285.5
87.5°	58.4	64.9	48.7	48.7	45.4	32.4	26.0	32.4	32.4	22.7	16.2
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)