

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: P1211305

Luminaire Tested: **ARCH4-230-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211305
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: ARCH4-230-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35271 lumens
Efficiency: N/A
Efficacy: 152.6 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): 231.2
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

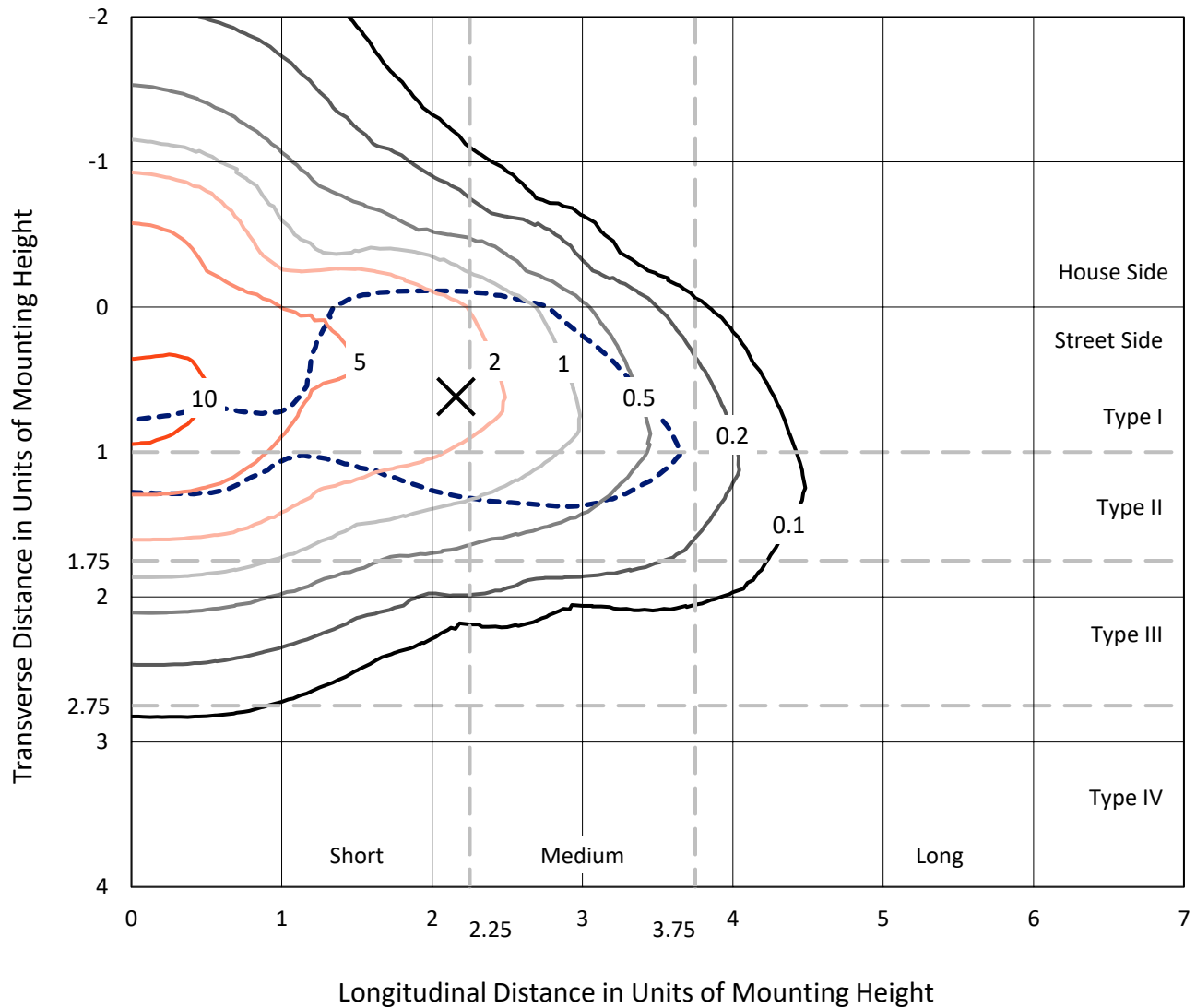


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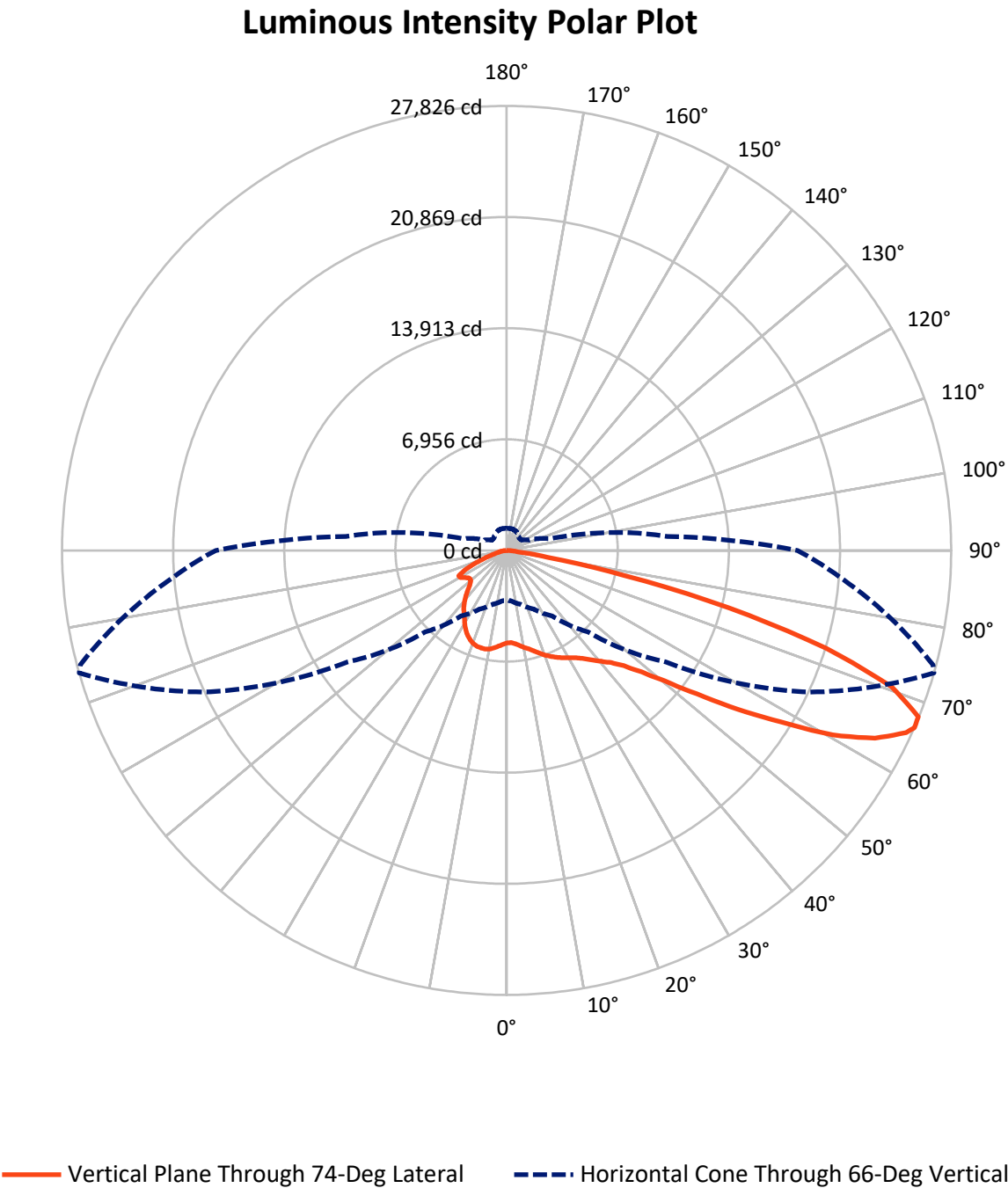
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8589.5	0.0	8589.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	26681.5	0.0	26681.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	35271.0	0.0	35271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.6	1.6
10°-20°	1696.2	4.8
20°-30°	3182.9	9.0
30°-40°	4896.0	13.9
40°-50°	6585.5	18.7
50°-60°	7788.2	22.1
60°-70°	7204.5	20.4
70°-80°	3030.9	8.6
80°-90°	335.4	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°	35271.0	100.0
0°-180°	35271.0	100.0

Coefficient of Utilization



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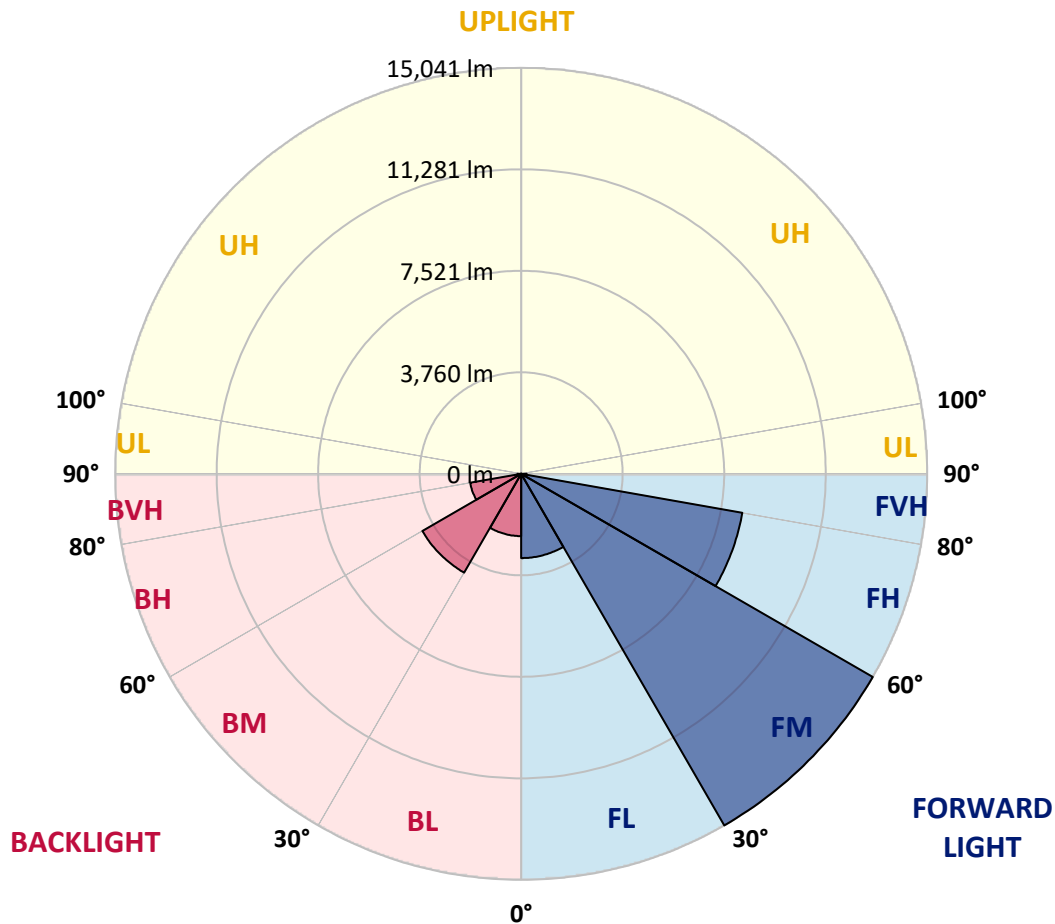
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3121.9	8.9			
FM	(30°-60°)	15041.1	42.6			
FH	(60°-80°)	8317.9	23.6			G4/12000
FVH	(80°-90°)	200.7	0.6			G2/225
BL	(0°-30°)	2308.7	6.5	B3/2500		
BM	(30°-60°)	4228.6	12.0	B3/5000		
BH	(60°-80°)	1917.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	134.7	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°	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1
2.5°	5763.9	5754.9	5773.0	5800.2	5813.9	5791.2	5782.1	5777.6	5777.6	5763.9	5786.6
5°	5491.6	5487.1	5527.9	5577.9	5673.2	5741.2	5832.0	5886.5	5868.3	5841.1	5859.2
7.5°	5137.6	5128.5	5178.5	5273.8	5405.4	5555.2	5777.6	5950.0	6018.1	6009.0	6004.5
10°	5273.8	5264.7	5260.2	5232.9	5278.3	5423.5	5655.0	5959.1	6190.6	6195.1	6199.6
12.5°	5745.8	5768.5	5745.8	5659.5	5559.7	5505.2	5641.4	5981.8	6335.8	6363.0	6476.5
15°	6390.3	6367.6	6322.2	6222.3	6068.0	5904.6	5804.8	6086.2	6544.6	6567.3	6816.9
17.5°	6957.6	6975.7	6948.5	6853.2	6671.6	6458.3	6154.2	6267.7	6767.0	6830.5	7180.0
20°	7574.8	7647.4	7611.1	7493.1	7343.3	7025.6	6644.4	6530.9	7012.0	7057.4	7556.7
22.5°	8287.4	8364.5	8296.4	8183.0	8060.4	7670.1	7180.0	6853.2	7216.3	7311.6	7919.7
25°	9140.6	9213.2	9149.7	8972.7	8818.4	8341.8	7756.4	7216.3	7416.0	7520.3	8214.7
27.5°	9816.8	9871.3	9930.3	9825.9	9589.9	9095.2	8355.4	7593.0	7615.7	7724.6	8487.1
30°	10420.5	10556.6	10606.5	10620.2	10420.5	9866.8	8968.1	7983.3	7788.1	7901.6	8759.4
32.5°	11246.5	11450.7	11369.0	11450.7	11332.7	10592.9	9603.5	8387.2	8010.5	8114.9	9018.1
35°	12453.7	12617.1	12403.8	12340.3	12149.6	11328.2	10216.2	8804.8	8305.5	8419.0	9263.1
37.5°	13751.8	13937.8	13629.2	13375.1	13012.0	12054.3	10742.7	9353.9	8714.0	8804.8	9490.1
40°	14886.4	15040.7	14772.9	14437.1	13828.9	12694.3	11196.6	9739.7	9122.4	9235.9	9753.3
42.5°	15934.8	16034.6	15735.1	15412.9	14600.5	13270.7	11686.7	10148.2	9599.0	9707.9	9966.6
45°	16996.8	17074.0	16656.4	16198.0	15244.9	13797.1	12226.8	10720.0	10297.9	10443.2	10311.5
47.5°	17187.4	17210.1	17137.5	16828.9	15753.2	14300.9	12894.0	11487.0	11364.5	11523.3	10906.1
50°	15866.7	16070.9	16520.3	16824.3	15957.5	14723.0	13561.1	12585.3	12835.0	13039.2	12140.6
52.5°	13302.4	13497.6	14536.9	15689.7	15467.3	14818.3	14278.2	13978.7	14909.1	15154.2	13819.8
55°	10597.5	10769.9	11868.3	13529.4	13883.4	14382.6	15045.2	15757.8	17555.0	17718.4	15662.5
57.5°	8727.6	8822.9	9608.1	11205.6	11773.0	12989.3	15458.2	17872.7	20246.4	20496.0	17264.6
60°	7157.3	7261.7	7847.1	9163.3	9916.7	10996.9	15131.5	19960.5	23459.7	23459.7	19320.5
62.5°	5387.2	5478.0	6022.6	7052.9	8319.1	9308.5	14087.6	21344.7	25883.2	25774.3	20809.2
65°	3698.9	3771.5	4166.4	4851.7	5990.9	7933.4	12662.5	21362.9	27489.9	27344.7	21444.6
66°	3104.4	3167.9	3503.7	4057.4	5015.1	7198.1	12158.7	20977.1	27825.7	27621.5	21176.8
67.5°	2450.8	2496.2	2718.6	3045.4	3676.2	5827.5	11364.5	19883.3	27794.0	27671.4	20496.0
70°	1751.9	1783.6	1947.0	2015.1	2174.0	3372.1	9027.1	17414.3	25565.5	25601.9	17818.3
72.5°	1357.0	1406.9	1506.8	1520.4	1484.1	1792.7	5478.0	14527.8	20913.6	20899.9	13225.3
75°	1093.8	1121.0	1170.9	1198.2	1189.1	1157.3	2319.2	10838.0	14396.2	14564.1	7406.9
77.5°	862.3	857.8	903.2	939.5	966.7	907.7	1062.0	6353.9	7547.6	7334.3	2782.1
80°	635.4	635.4	698.9	712.5	753.4	762.5	708.0	2450.8	2591.5	2355.5	721.6
82.5°	417.5	417.5	485.6	494.7	535.5	594.5	512.9	735.2	717.1	680.8	326.8
85°	226.9	217.8	240.5	272.3	295.0	349.5	308.6	367.6	376.7	372.2	217.8
87.5°	45.4	40.8	63.5	72.6	81.7	108.9	99.8	149.8	208.8	204.2	95.3
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°	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1	5782.1
2.5°	5818.4	5813.9	5863.8	5922.8	5990.9	6031.7	6049.9	6081.6	6058.9	6068.0	6095.2
5°	5904.6	5918.2	5990.9	6068.0	6099.8	6077.1	6027.2	6009.0	5968.2	5959.1	5950.0
7.5°	6031.7	6054.4	6127.0	6145.2	6049.9	5891.0	5777.6	5714.0	5645.9	5627.8	5618.7
10°	6240.5	6254.1	6272.3	6086.2	5850.2	5636.9	5496.2	5437.2	5391.8	5355.5	5364.5
12.5°	6503.7	6494.6	6353.9	5968.2	5632.3	5414.5	5319.2	5282.9	5251.1	5228.4	5223.9
15°	6835.0	6771.5	6367.6	5804.8	5428.1	5246.5	5178.5	5164.8	5128.5	5128.5	5124.0
17.5°	7170.9	7007.5	6358.5	5632.3	5232.9	5133.1	5092.2	5083.2	5074.1	5069.5	5083.2
20°	7506.7	7216.3	6285.9	5419.0	5096.8	5037.8	5028.7	5033.2	5024.2	5037.8	5028.7
22.5°	7801.7	7352.4	6149.7	5192.1	5001.5	4996.9	4974.2	4983.3	5015.1	5019.6	5033.2
25°	8028.7	7402.3	5950.0	4983.3	4933.4	4924.3	4951.5	4987.8	5015.1	5019.6	5042.3
27.5°	8214.7	7375.1	5700.4	4819.9	4815.4	4865.3	4947.0	4960.6	4965.2	4965.2	4947.0
30°	8355.4	7316.1	5382.7	4638.4	4661.1	4783.6	4860.8	4860.8	4824.5	4815.4	4842.6
32.5°	8387.2	7239.0	5037.8	4452.3	4488.6	4633.8	4729.2	4697.4	4656.5	4656.5	4674.7
35°	8414.4	7134.6	4760.9	4198.1	4252.6	4425.1	4515.8	4452.3	4406.9	4393.3	4388.8
37.5°	8405.4	7093.7	4511.3	3875.9	3948.5	4116.4	4175.4	4116.4	4048.4	4016.6	4057.4
40°	8414.4	7066.5	4198.1	3521.9	3594.5	3694.4	3771.5	3726.1	3662.6	3580.9	3621.7
42.5°	8468.9	7102.8	3853.2	3177.0	3177.0	3231.4	3363.1	3331.3	3177.0	3145.2	3181.5
45°	8759.4	7298.0	3508.3	2832.0	2782.1	2818.4	2954.6	2818.4	2723.1	2723.1	2754.9
47.5°	9462.8	7661.0	3204.2	2528.0	2410.0	2482.6	2518.9	2391.8	2319.2	2301.0	2332.8
50°	10897.0	8387.2	3022.7	2278.3	2133.1	2187.6	2164.9	2160.3	2087.7	2096.8	2115.0
52.5°	13075.5	9803.2	2968.2	2155.8	1974.3	1987.9	1965.2	1974.3	1960.6	2006.0	2019.6
55°	15449.2	11296.4	3036.3	2174.0	1865.3	1770.0	1779.1	1824.5	1879.0	1951.6	1965.2
57.5°	17223.7	12045.3	3213.3	2296.5	1729.2	1583.9	1606.6	1692.9	1797.3	1856.3	1888.0
60°	18544.4	11954.5	3472.0	2328.3	1565.8	1416.0	1456.9	1583.9	1674.7	1724.6	1756.4
62.5°	18975.6	11387.2	3535.5	2096.8	1352.5	1257.2	1357.0	1488.6	1529.5	1583.9	1606.6
65°	18621.6	10583.9	3072.6	1701.9	1189.1	1139.2	1284.4	1384.3	1438.7	1465.9	1470.5
66°	18204.1	10102.8	2823.0	1547.6	1130.1	1102.9	1257.2	1338.9	1393.3	1388.8	1393.3
67.5°	17287.3	9095.2	2419.0	1329.8	1043.9	1048.4	1211.8	1266.3	1284.4	1270.8	1270.8
70°	14169.3	6403.9	1733.7	1007.6	916.8	980.3	1089.2	1102.9	1143.7	1125.6	1125.6
72.5°	8736.7	3145.2	1161.9	771.6	816.9	916.8	912.2	957.6	1052.9	1080.2	1098.3
75°	4293.5	1275.3	767.0	653.5	730.7	767.0	757.9	871.4	1007.6	1125.6	1166.4
77.5°	1629.3	635.4	535.5	571.9	590.0	576.4	603.6	789.7	1007.6	1220.9	1261.7
80°	503.8	440.2	422.1	472.0	444.8	422.1	453.9	653.5	853.2	925.9	925.9
82.5°	304.1	344.9	326.8	322.2	299.5	304.1	326.8	467.5	658.1	689.9	689.9
85°	213.3	226.9	186.1	177.0	172.5	167.9	167.9	272.3	390.3	385.8	399.4
87.5°	81.7	90.8	68.1	68.1	63.5	45.4	36.3	45.4	45.4	31.8	22.7
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)