

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: P1210953

Luminaire Tested: **ARCH4-120-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210953
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: ARCH4-120-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20884 lumens
Efficiency: N/A
Efficacy: 171.2 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): 122
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

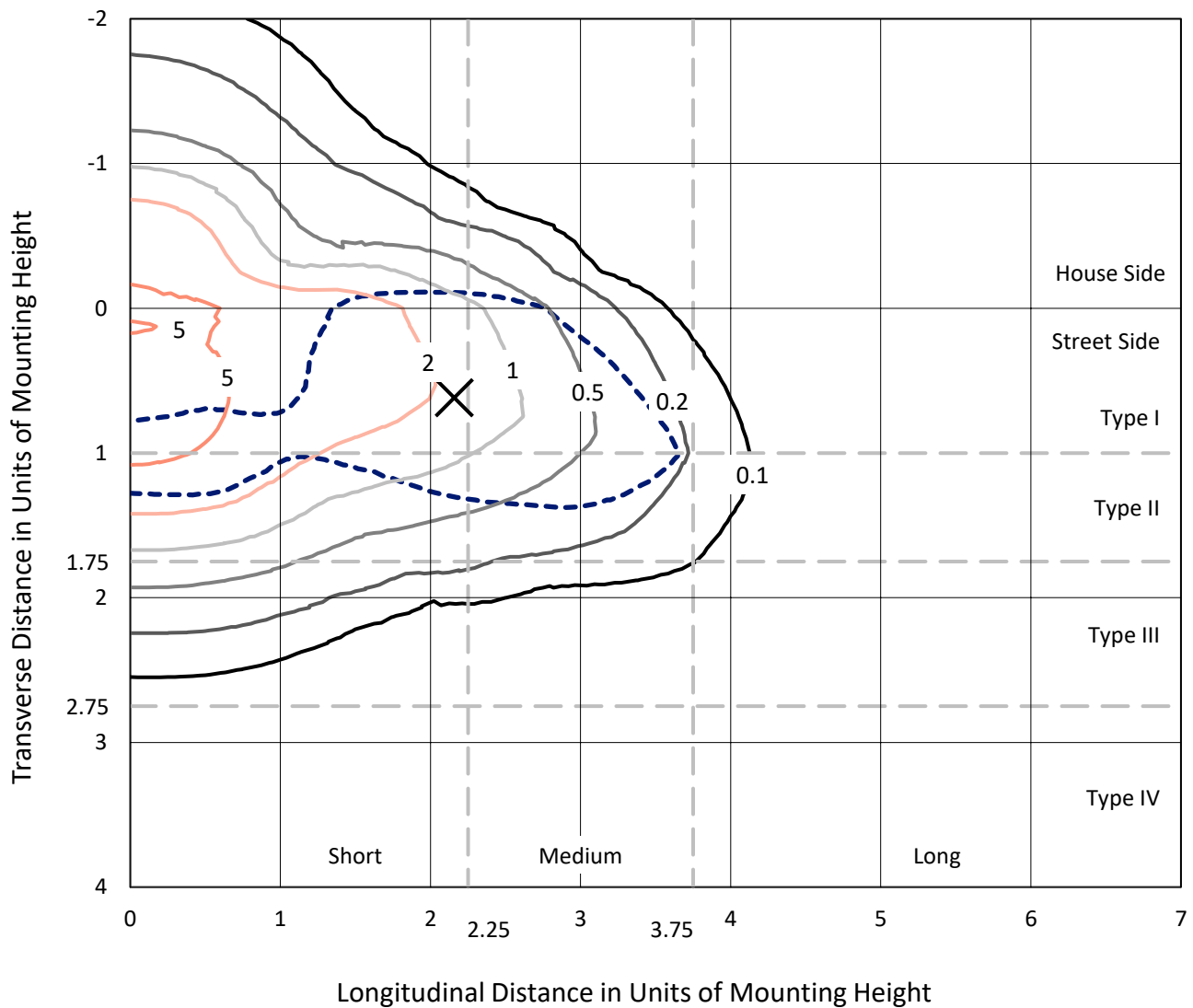


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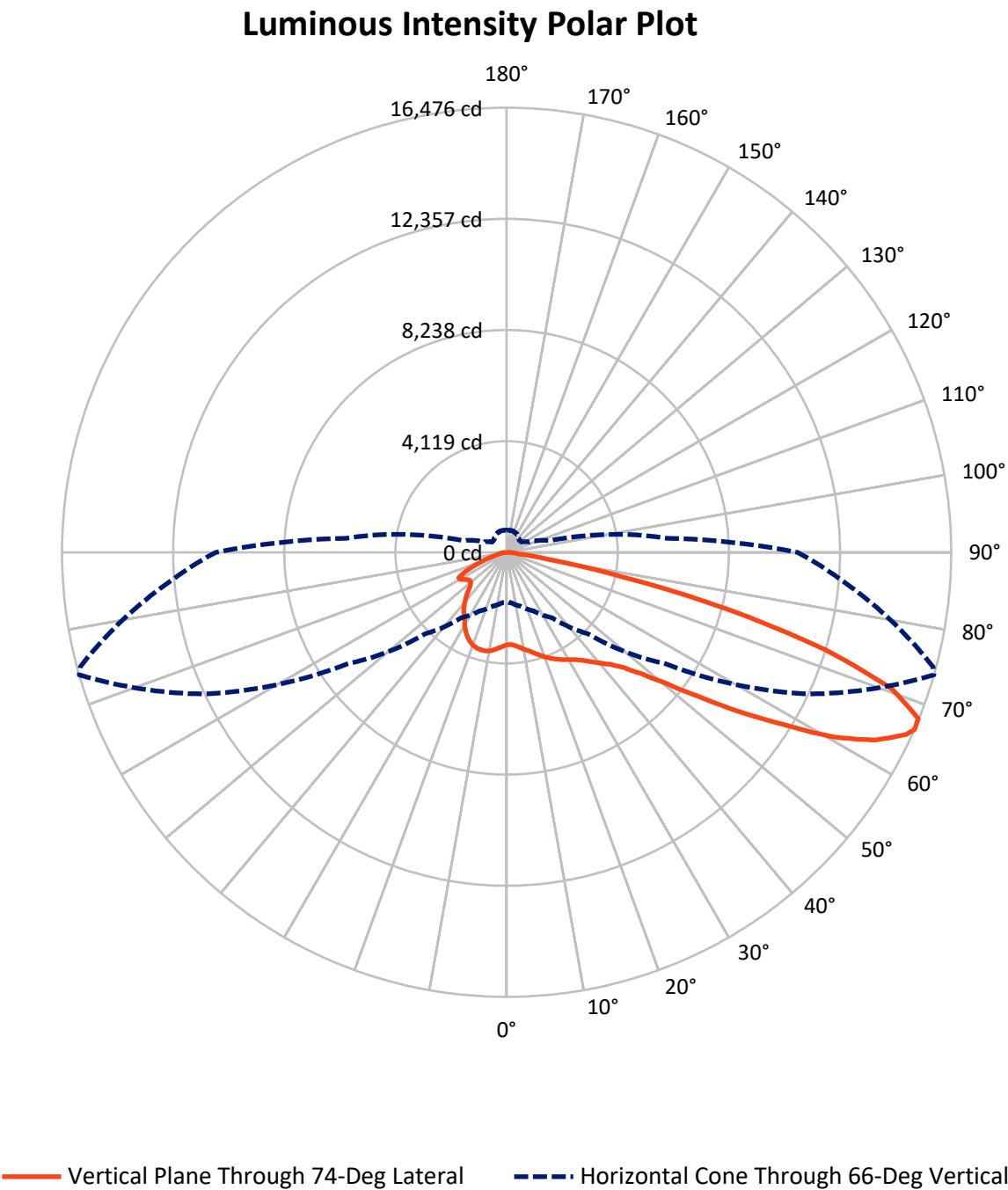
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5085.8	0.0	5085.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	15798.2	0.0	15798.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	20884.0	0.0	20884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.6	1.6
10°-20°	1004.3	4.8
20°-30°	1884.6	9.0
30°-40°	2898.9	13.9
40°-50°	3899.3	18.7
50°-60°	4611.4	22.1
60°-70°	4265.8	20.4
70°-80°	1794.6	8.6
80°-90°	198.6	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°	20884.0	100.0
0°-180°	20884.0	100.0

Coefficient of Utilization



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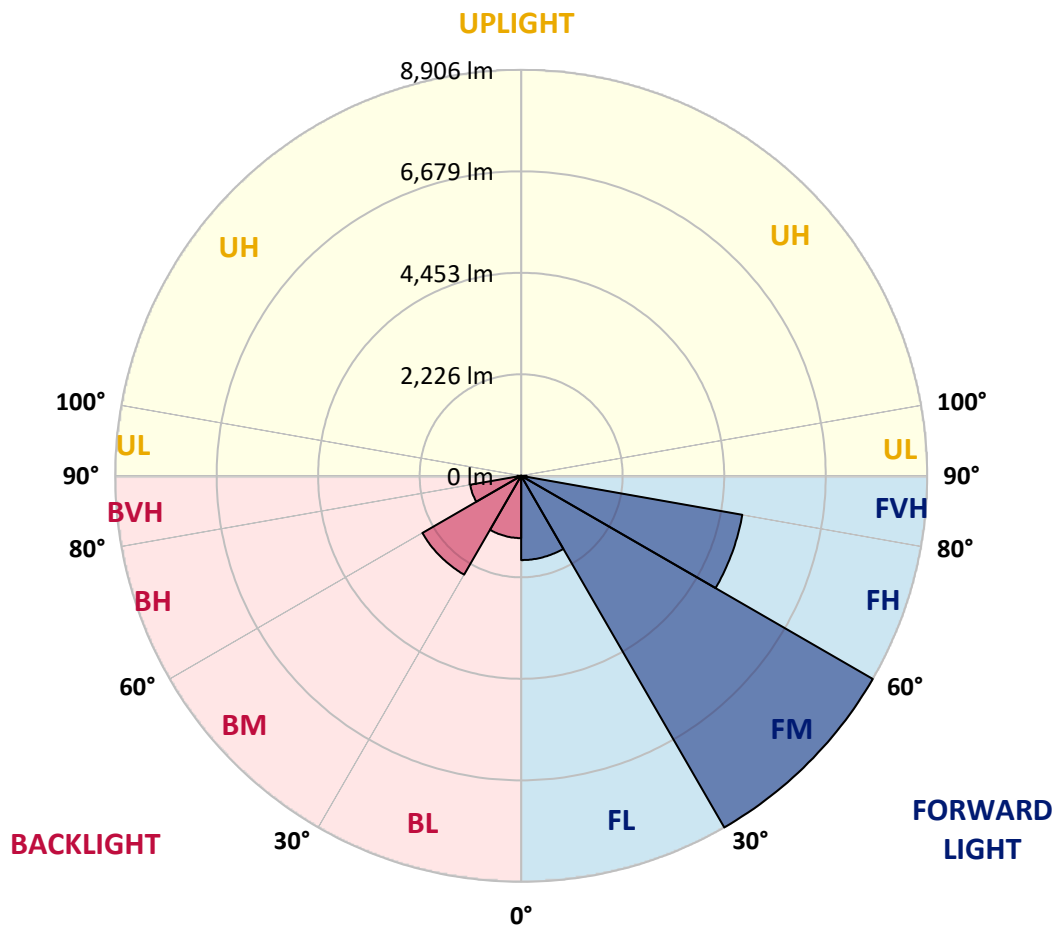
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.5	8.9			
FM	(30°-60°)	8905.9	42.6			
FH	(60°-80°)	4925.0	23.6			G2/5000
FVH	(80°-90°)	118.8	0.6			G2/225
BL	(0°-30°)	1367.0	6.5	B3/2500		
BM	(30°-60°)	2503.8	12.0	B3/5000		
BH	(60°-80°)	1135.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	79.8	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°	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6
2.5°	3412.8	3407.5	3418.2	3434.3	3442.4	3429.0	3423.6	3420.9	3420.9	3412.8	3426.3
5°	3251.6	3248.9	3273.1	3302.7	3359.1	3399.4	3453.1	3485.4	3474.6	3458.5	3469.3
7.5°	3042.0	3036.6	3066.2	3122.6	3200.5	3289.2	3420.9	3523.0	3563.3	3557.9	3555.3
10°	3122.6	3117.2	3114.5	3098.4	3125.3	3211.3	3348.3	3528.4	3665.4	3668.1	3670.8
12.5°	3402.1	3415.5	3402.1	3351.0	3291.9	3259.7	3340.3	3541.8	3751.4	3767.6	3834.7
15°	3783.7	3770.2	3743.4	3684.2	3592.9	3496.1	3437.0	3603.6	3875.0	3888.5	4036.3
17.5°	4119.6	4130.3	4114.2	4057.8	3950.3	3824.0	3643.9	3711.1	4006.7	4044.3	4251.3
20°	4485.1	4528.0	4506.6	4436.7	4348.0	4159.9	3934.2	3867.0	4151.8	4178.7	4474.3
22.5°	4907.0	4952.6	4912.3	4845.1	4772.6	4541.5	4251.3	4057.8	4272.8	4329.2	4689.3
25°	5412.2	5455.2	5417.5	5312.7	5221.4	4939.2	4592.5	4272.8	4391.0	4452.8	4864.0
27.5°	5812.6	5844.8	5879.7	5817.9	5678.2	5385.3	4947.3	4495.8	4509.2	4573.7	5025.2
30°	6170.0	6250.6	6280.1	6288.2	6170.0	5842.1	5310.0	4726.9	4611.4	4678.5	5186.4
32.5°	6659.1	6780.0	6731.6	6780.0	6710.1	6272.1	5686.3	4966.1	4743.0	4804.8	5339.6
35°	7373.9	7470.6	7344.3	7306.7	7193.8	6707.4	6049.0	5213.3	4917.7	4984.9	5484.7
37.5°	8142.4	8252.6	8069.9	7919.4	7704.4	7137.4	6360.8	5538.5	5159.6	5213.3	5619.1
40°	8814.2	8905.6	8747.1	8548.2	8188.1	7516.3	6629.5	5766.9	5401.4	5468.6	5774.9
42.5°	9435.0	9494.1	9316.8	9126.0	8644.9	7857.6	6919.7	6008.7	5683.6	5748.1	5901.2
45°	10063.8	10109.5	9862.3	9590.9	9026.5	8169.3	7239.5	6347.3	6097.4	6183.4	6105.5
47.5°	10176.7	10190.1	10147.1	9964.4	9327.5	8467.6	7634.5	6801.5	6728.9	6823.0	6457.5
50°	9394.7	9515.6	9781.7	9961.7	9448.4	8717.5	8029.6	7451.8	7599.6	7720.5	7188.4
52.5°	7876.4	7991.9	8607.3	9289.9	9158.2	8773.9	8454.2	8276.8	8827.7	8972.8	8182.7
55°	6274.8	6376.9	7027.2	8010.8	8220.4	8516.0	8908.3	9330.2	10394.4	10491.1	9273.8
57.5°	5167.6	5224.1	5689.0	6634.9	6970.8	7691.0	9152.8	10582.5	11987.9	12135.7	10222.4
60°	4237.8	4299.6	4646.3	5425.6	5871.7	6511.3	8959.4	11818.6	13890.5	13890.5	11439.7
62.5°	3189.8	3243.5	3566.0	4176.0	4925.8	5511.6	8341.3	12638.2	15325.5	15261.0	12321.1
65°	2190.1	2233.1	2466.9	2872.7	3547.2	4697.3	7497.5	12649.0	16276.8	16190.8	12697.4
66°	1838.1	1875.7	2074.6	2402.4	2969.4	4262.0	7199.2	12420.6	16475.7	16354.7	12538.8
67.5°	1451.1	1478.0	1609.7	1803.2	2176.7	3450.5	6728.9	11772.9	16456.8	16384.3	12135.7
70°	1037.3	1056.1	1152.8	1193.1	1287.2	1996.6	5345.0	10311.1	15137.4	15158.9	10550.2
72.5°	803.5	833.1	892.2	900.2	878.7	1061.5	3243.5	8602.0	12382.9	12374.9	7830.7
75°	647.6	663.8	693.3	709.4	704.1	685.3	1373.2	6417.2	8524.0	8623.4	4385.6
77.5°	510.6	507.9	534.8	556.3	572.4	537.5	628.8	3762.2	4468.9	4342.6	1647.3
80°	376.2	376.2	413.8	421.9	446.1	451.5	419.2	1451.1	1534.4	1394.7	427.3
82.5°	247.2	247.2	287.5	292.9	317.1	352.0	303.7	435.3	424.6	403.1	193.5
85°	134.4	129.0	142.4	161.2	174.7	206.9	182.7	217.7	223.0	220.4	129.0
87.5°	26.9	24.2	37.6	43.0	48.4	64.5	59.1	88.7	123.6	120.9	56.4
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°	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6	3423.6
2.5°	3445.1	3442.4	3472.0	3506.9	3547.2	3571.4	3582.1	3600.9	3587.5	3592.9	3609.0
5°	3496.1	3504.2	3547.2	3592.9	3611.7	3598.3	3568.7	3557.9	3533.8	3528.4	3523.0
7.5°	3571.4	3584.8	3627.8	3638.6	3582.1	3488.1	3420.9	3383.3	3343.0	3332.2	3326.8
10°	3695.0	3703.1	3713.8	3603.6	3463.9	3337.6	3254.3	3219.3	3192.5	3171.0	3176.4
12.5°	3850.9	3845.5	3762.2	3533.8	3334.9	3205.9	3149.5	3128.0	3109.2	3095.7	3093.0
15°	4047.0	4009.4	3770.2	3437.0	3214.0	3106.5	3066.2	3058.1	3036.6	3036.6	3033.9
17.5°	4245.9	4149.1	3764.9	3334.9	3098.4	3039.3	3015.1	3009.7	3004.4	3001.7	3009.7
20°	4444.7	4272.8	3721.9	3208.6	3017.8	2982.9	2977.5	2980.2	2974.8	2982.9	2977.5
22.5°	4619.4	4353.4	3641.3	3074.2	2961.4	2958.7	2945.2	2950.6	2969.4	2972.1	2980.2
25°	4753.8	4382.9	3523.0	2950.6	2921.1	2915.7	2931.8	2953.3	2969.4	2972.1	2985.6
27.5°	4864.0	4366.8	3375.2	2853.9	2851.2	2880.8	2929.1	2937.2	2939.9	2939.9	2929.1
30°	4947.3	4331.9	3187.1	2746.4	2759.8	2832.4	2878.1	2878.1	2856.6	2851.2	2867.3
32.5°	4966.1	4286.2	2982.9	2636.2	2657.7	2743.7	2800.1	2781.3	2757.1	2757.1	2767.9
35°	4982.2	4224.4	2818.9	2485.7	2518.0	2620.1	2673.8	2636.2	2609.3	2601.3	2598.6
37.5°	4976.8	4200.2	2671.1	2294.9	2337.9	2437.4	2472.3	2437.4	2397.0	2378.2	2402.4
40°	4982.2	4184.1	2485.7	2085.3	2128.3	2187.4	2233.1	2206.2	2168.6	2120.3	2144.4
42.5°	5014.4	4205.6	2281.5	1881.1	1881.1	1913.3	1991.3	1972.5	1881.1	1862.3	1883.8
45°	5186.4	4321.1	2077.3	1676.9	1647.3	1668.8	1749.4	1668.8	1612.4	1612.4	1631.2
47.5°	5603.0	4536.1	1897.2	1496.8	1426.9	1469.9	1491.4	1416.2	1373.2	1362.4	1381.3
50°	6452.1	4966.1	1789.7	1349.0	1263.0	1295.3	1281.8	1279.1	1236.1	1241.5	1252.3
52.5°	7742.0	5804.5	1757.5	1276.5	1169.0	1177.0	1163.6	1169.0	1160.9	1187.8	1195.8
55°	9147.5	6688.6	1797.8	1287.2	1104.5	1048.0	1053.4	1080.3	1112.5	1155.5	1163.6
57.5°	10198.2	7132.0	1902.6	1359.8	1023.8	937.9	951.3	1002.4	1064.2	1099.1	1117.9
60°	10980.2	7078.3	2055.8	1378.6	927.1	838.4	862.6	937.9	991.6	1021.2	1040.0
62.5°	11235.5	6742.4	2093.4	1241.5	800.8	744.4	803.5	881.4	905.6	937.9	951.3
65°	11025.9	6266.7	1819.3	1007.7	704.1	674.5	760.5	819.6	851.9	868.0	870.7
66°	10778.6	5981.9	1671.5	916.4	669.1	653.0	744.4	792.7	825.0	822.3	825.0
67.5°	10235.8	5385.3	1432.3	787.4	618.1	620.8	717.5	749.7	760.5	752.4	752.4
70°	8389.7	3791.7	1026.5	596.6	542.8	580.5	644.9	653.0	677.2	666.4	666.4
72.5°	5173.0	1862.3	687.9	456.8	483.7	542.8	540.1	567.0	623.4	639.6	650.3
75°	2542.2	755.1	454.1	387.0	432.7	454.1	448.8	516.0	596.6	666.4	690.6
77.5°	964.7	376.2	317.1	338.6	349.3	341.3	357.4	467.6	596.6	722.9	747.1
80°	298.3	260.7	249.9	279.5	263.4	249.9	268.7	387.0	505.2	548.2	548.2
82.5°	180.0	204.2	193.5	190.8	177.4	180.0	193.5	276.8	389.7	408.5	408.5
85°	126.3	134.4	110.2	104.8	102.1	99.4	99.4	161.2	231.1	228.4	236.5
87.5°	48.4	53.7	40.3	40.3	37.6	26.9	21.5	26.9	26.9	18.8	13.4
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)