

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: P836021

Luminaire Tested: **ARCH3-130-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17069 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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



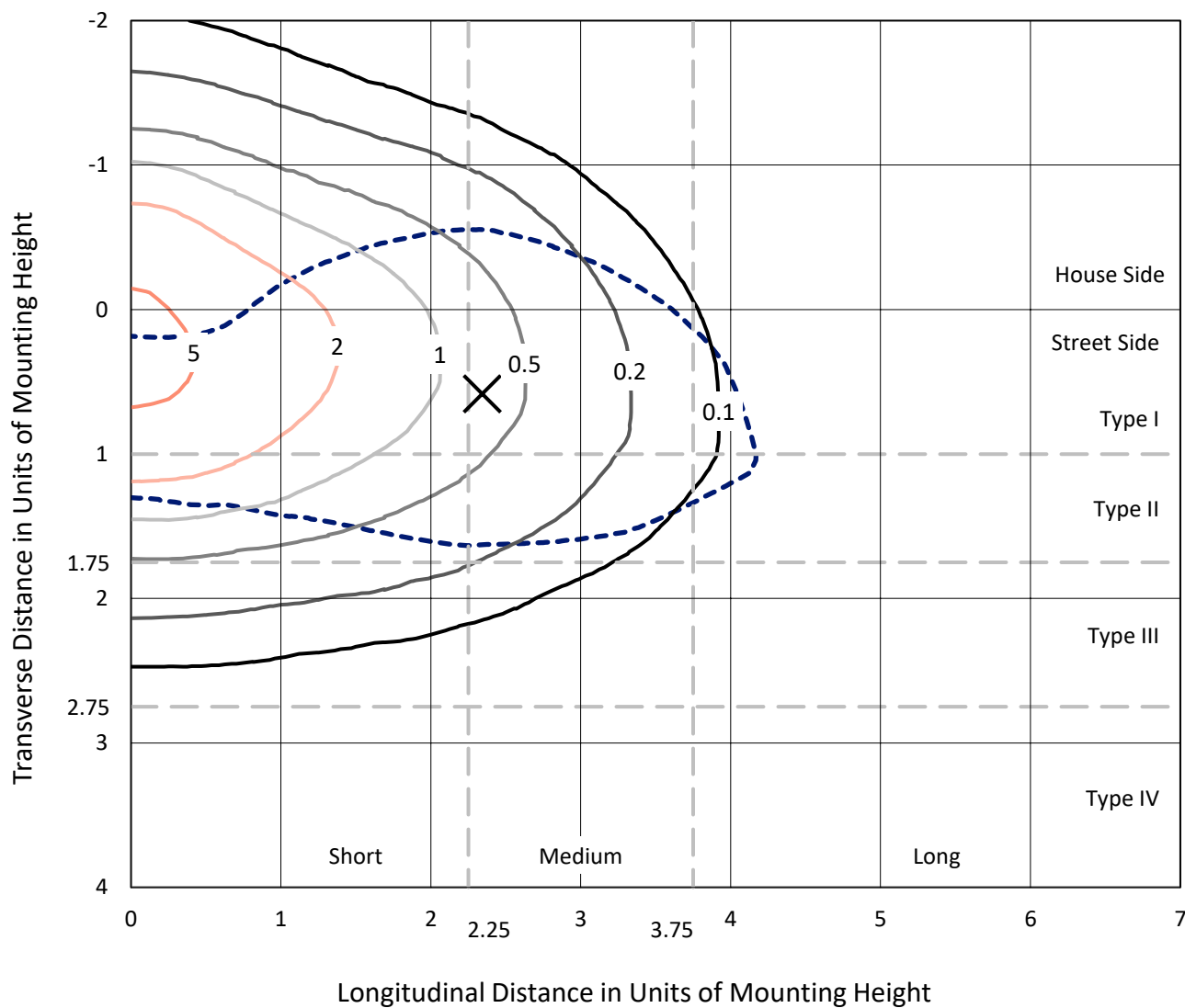
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Iso-Footcandle Lines of Horizontal Illumination

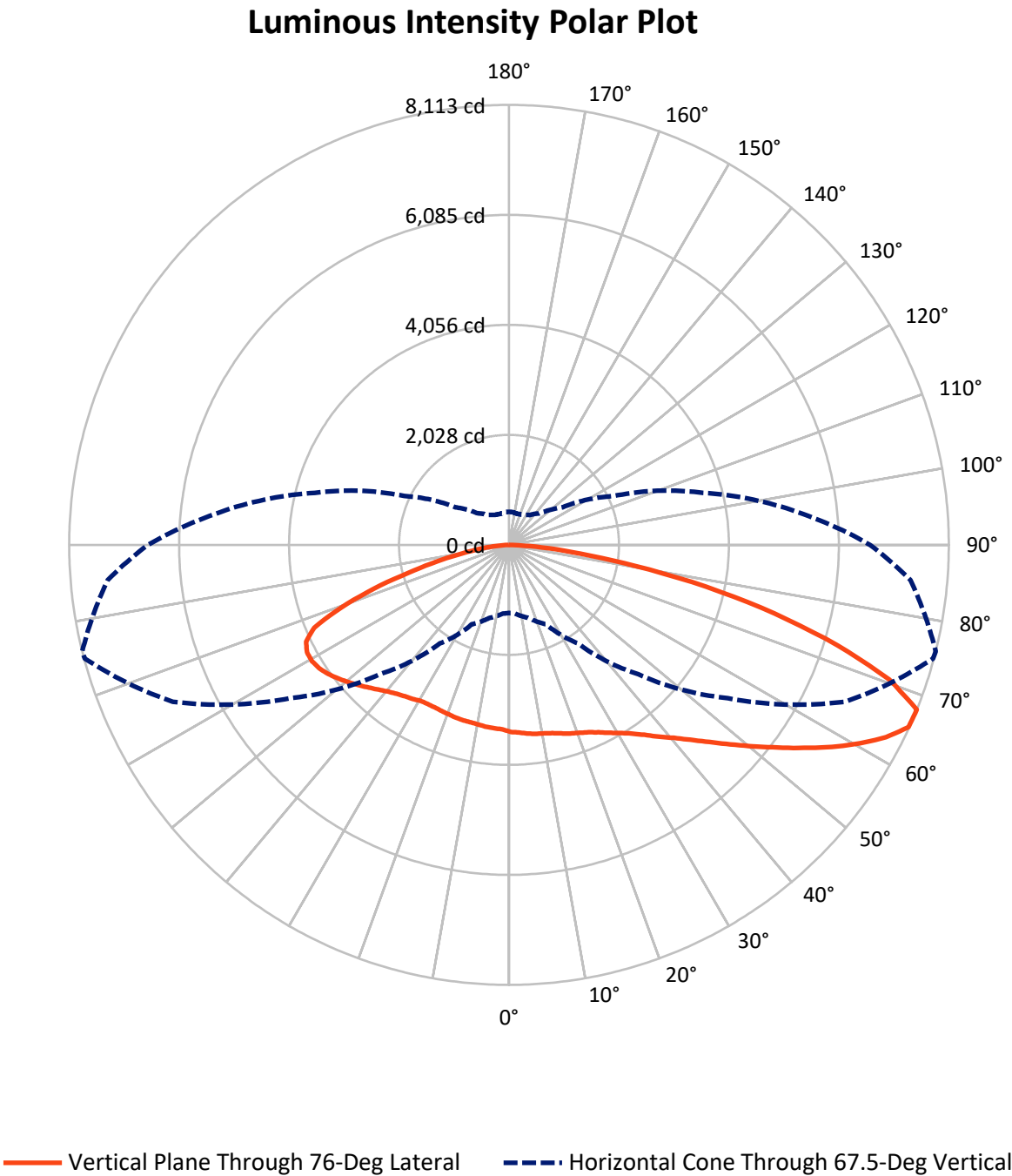
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5767.7	0.0	5767.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11301.3	0.0	11301.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	17069.0	0.0	17069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.5	1.9
10°-20°	1016.4	6.0
20°-30°	1726.9	10.1
30°-40°	2457.2	14.4
40°-50°	3103.4	18.2
50°-60°	3360.0	19.7
60°-70°	3125.1	18.3
70°-80°	1678.5	9.8
80°-90°	269.0	1.6
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°	17069.0	100.0
0°-180°	17069.0	100.0

Coefficient of Utilization



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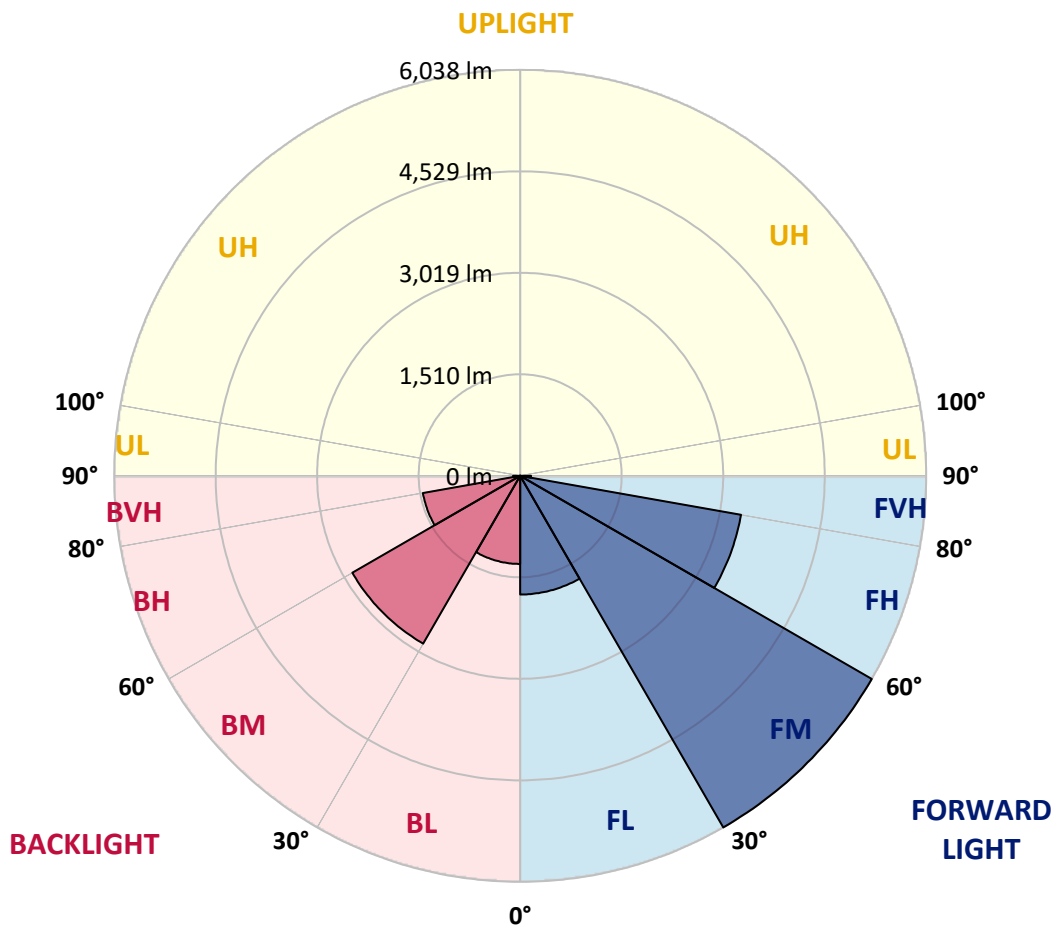
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1765.1	10.3			
FM	(30°-60°)	6038.4	35.4			
FH	(60°-80°)	3335.1	19.5			G2/5000
FVH	(80°-90°)	162.7	1.0			G2/225
BL	(0°-30°)	1310.7	7.7	B3/2500		
BM	(30°-60°)	2882.2	16.9	B3/5000		
BH	(60°-80°)	1468.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	106.3	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9
2.5°	3552.5	3546.1	3520.8	3524.0	3524.0	3520.8	3482.8	3466.9	3466.9	3463.7	3428.9
5°	3679.2	3669.7	3641.2	3634.9	3622.2	3606.4	3546.1	3511.3	3495.4	3492.3	3444.7
7.5°	3828.2	3815.5	3780.6	3761.6	3729.9	3688.7	3612.7	3558.8	3520.8	3517.6	3451.1
10°	3977.1	3964.5	3923.3	3888.4	3844.0	3777.5	3679.2	3600.0	3539.8	3533.5	3454.2
12.5°	4154.6	4141.9	4091.2	4046.8	3980.3	3891.6	3761.6	3653.9	3571.5	3562.0	3463.7
15°	4341.6	4322.6	4271.8	4221.1	4138.7	4024.7	3869.4	3726.8	3622.2	3606.4	3492.3
17.5°	4496.8	4471.5	4430.3	4379.6	4287.7	4154.6	3977.1	3799.7	3669.7	3657.1	3520.8
20°	4629.9	4610.9	4566.6	4519.0	4420.8	4275.0	4078.5	3872.5	3714.1	3698.3	3543.0
22.5°	4756.7	4731.4	4706.0	4671.1	4563.4	4401.8	4195.8	3961.3	3771.1	3752.1	3571.5
25°	4902.5	4874.0	4864.5	4845.4	4718.7	4553.9	4338.4	4072.2	3850.4	3828.2	3622.2
27.5°	5083.1	5051.4	5032.4	5032.4	4880.3	4709.2	4490.5	4202.1	3942.3	3923.3	3685.6
30°	5273.3	5235.2	5206.7	5206.7	5035.6	4864.5	4639.5	4332.1	4046.8	4024.7	3768.0
32.5°	5441.2	5403.2	5371.5	5368.3	5190.9	5019.7	4794.7	4474.7	4173.6	4145.1	3869.4
35°	5571.1	5536.3	5507.8	5514.1	5346.1	5178.2	4969.0	4664.8	4332.1	4300.4	4002.5
37.5°	5650.4	5637.7	5621.9	5644.0	5488.8	5330.3	5149.7	4848.6	4512.7	4484.2	4167.3
40°	5691.6	5682.1	5745.4	5774.0	5609.2	5466.6	5330.3	5038.8	4709.2	4677.5	4357.4
42.5°	5751.8	5831.0	5856.4	5850.0	5697.9	5571.1	5495.1	5244.7	4940.5	4912.0	4585.6
45°	5536.3	5517.3	5656.7	5732.8	5704.2	5637.7	5650.4	5491.9	5209.9	5181.4	4848.6
47.5°	5247.9	5222.6	5301.8	5488.8	5599.7	5663.0	5789.8	5748.6	5520.4	5495.1	5156.0
50°	4639.5	4674.3	4969.0	5219.4	5438.0	5656.7	5907.1	6024.3	5862.7	5837.3	5485.6
52.5°	3964.5	3999.3	4306.7	4883.5	5241.6	5609.2	5992.6	6300.0	6233.5	6205.0	5837.3
55°	3473.3	3549.3	3897.9	4316.2	4962.7	5460.2	6043.3	6582.1	6632.8	6607.4	6220.8
57.5°	2985.2	3042.3	3305.3	3676.1	4582.4	5200.4	6040.2	6845.1	7051.1	7025.7	6610.6
60°	2411.6	2484.5	2693.7	3093.0	4075.4	4889.8	5951.4	7051.1	7453.5	7434.5	6987.7
62.5°	2018.7	2040.9	2189.8	2535.2	3422.5	4496.8	5751.8	7162.0	7818.0	7805.3	7326.8
65°	1625.7	1628.9	1765.1	2053.5	2791.9	4008.8	5412.7	7120.8	8093.7	8100.0	7570.8
67.5°	1254.9	1270.8	1394.4	1613.0	2218.3	3375.0	4927.8	6841.9	8096.9	8112.7	7431.4
70°	868.3	881.0	1068.0	1280.3	1714.4	2690.5	4271.8	6103.5	7431.4	7444.0	6661.3
72.5°	611.6	618.0	817.6	1023.6	1340.5	2028.2	3222.9	5048.3	6334.9	6344.4	5602.8
75°	456.3	462.7	576.8	776.4	1026.8	1403.9	2202.5	3866.2	5060.9	5060.9	4424.0
77.5°	323.2	326.4	373.9	535.6	684.5	947.5	1324.7	2532.1	3714.1	3720.4	3222.9
80°	218.7	221.8	244.0	361.3	427.8	513.4	719.4	1327.8	2341.9	2351.4	2047.2
82.5°	114.1	120.4	136.3	183.8	215.5	285.2	370.8	675.0	1296.1	1321.5	1229.6
85°	44.4	44.4	50.7	60.2	79.2	110.9	171.1	256.7	586.3	605.3	541.9
87.5°	15.8	15.8	19.0	19.0	22.2	25.4	28.5	38.0	66.5	66.5	63.4
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°	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9	3447.9
2.5°	3416.2	3416.2	3400.4	3406.7	3403.5	3397.2	3390.9	3400.4	3390.9	3368.7	3365.5
5°	3422.5	3416.2	3390.9	3387.7	3378.2	3365.5	3349.7	3356.0	3340.2	3321.1	3318.0
7.5°	3425.7	3413.0	3378.2	3365.5	3346.5	3321.1	3295.8	3295.8	3273.6	3254.6	3251.4
10°	3419.4	3403.5	3356.0	3330.6	3295.8	3257.8	3222.9	3213.4	3188.0	3165.9	3165.9
12.5°	3422.5	3400.4	3340.2	3299.0	3251.4	3203.9	3159.5	3146.8	3124.7	3102.5	3099.3
15°	3441.6	3409.9	3333.8	3279.9	3210.2	3156.3	3108.8	3099.3	3080.3	3064.4	3064.4
17.5°	3460.6	3419.4	3324.3	3248.3	3162.7	3102.5	3058.1	3058.1	3045.4	3035.9	3035.9
20°	3470.1	3422.5	3305.3	3203.9	3105.6	3042.3	3001.1	3007.4	3004.2	3001.1	3001.1
22.5°	3492.3	3428.9	3289.4	3162.7	3045.4	2978.9	2940.9	2950.4	2947.2	2947.2	2950.4
25°	3527.1	3444.7	3276.8	3124.7	2988.4	2915.5	2874.3	2880.6	2880.6	2880.6	2880.6
27.5°	3574.7	3476.4	3273.6	3089.8	2931.3	2849.0	2798.2	2798.2	2785.6	2788.7	2791.9
30°	3647.5	3536.6	3279.9	3058.1	2871.1	2766.6	2706.3	2696.8	2693.7	2700.0	2703.2
32.5°	3736.3	3619.0	3318.0	3035.9	2807.8	2674.7	2598.6	2595.4	2585.9	2585.9	2585.9
35°	3847.2	3698.3	3352.8	3032.8	2744.4	2576.4	2494.0	2484.5	2462.3	2452.8	2452.8
37.5°	3989.8	3821.8	3394.0	3010.6	2690.5	2481.3	2383.1	2351.4	2326.1	2322.9	2322.9
40°	4164.1	3961.3	3454.2	2985.2	2633.5	2383.1	2253.2	2199.3	2202.5	2215.1	2215.1
42.5°	4370.1	4132.4	3530.3	2972.5	2551.1	2281.7	2101.1	2037.7	2059.9	2072.5	2075.7
45°	4610.9	4335.2	3615.9	2956.7	2475.0	2167.6	1939.4	1860.2	1869.7	1872.9	1876.1
47.5°	4889.8	4560.2	3704.6	2944.0	2389.4	2025.0	1762.0	1657.4	1654.2	1635.2	1641.6
50°	5181.4	4797.9	3796.5	2921.8	2284.9	1857.0	1575.0	1451.4	1426.1	1397.5	1400.7
52.5°	5491.9	5041.9	3882.1	2887.0	2154.9	1685.9	1397.5	1264.4	1213.7	1182.0	1188.4
55°	5834.2	5292.3	3964.5	2833.1	2018.7	1514.8	1239.1	1102.8	1039.4	1014.1	1017.3
57.5°	6147.9	5533.1	4024.7	2766.6	1869.7	1359.5	1099.7	966.6	925.4	922.2	925.4
60°	6452.1	5735.9	4050.0	2674.7	1717.6	1216.9	969.7	868.3	839.8	855.6	858.8
62.5°	6708.8	5865.9	4037.3	2551.1	1562.3	1080.6	865.1	792.3	773.2	804.9	808.1
65°	6857.8	5907.1	3948.6	2373.6	1394.4	947.5	766.9	687.7	678.2	697.2	706.7
67.5°	6661.3	5650.4	3707.8	2129.6	1207.4	823.9	671.8	608.5	592.6	608.5	608.5
70°	5903.9	4896.1	3137.3	1743.0	1001.4	703.5	583.1	538.7	526.1	538.7	535.6
72.5°	4918.3	4072.2	2471.8	1359.5	789.1	592.6	507.0	465.8	453.2	440.5	434.2
75°	3815.5	3093.0	1793.7	998.2	595.8	475.4	424.6	386.6	354.9	367.6	361.3
77.5°	2795.1	2170.8	1270.8	690.8	427.8	367.6	332.7	304.2	282.0	307.4	304.2
80°	1800.0	1403.9	849.3	462.7	294.7	256.7	244.0	228.2	250.4	326.4	332.7
82.5°	1099.7	890.5	507.0	301.1	193.3	171.1	158.5	158.5	256.7	282.0	285.2
85°	491.2	472.2	275.7	155.3	107.7	98.2	88.7	114.1	104.6	76.1	79.2
87.5°	79.2	82.4	60.2	53.9	41.2	41.2	31.7	22.2	15.8	9.5	9.5
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)