

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: P841074

Luminaire Tested: **ARCH4-130-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19339 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 132
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

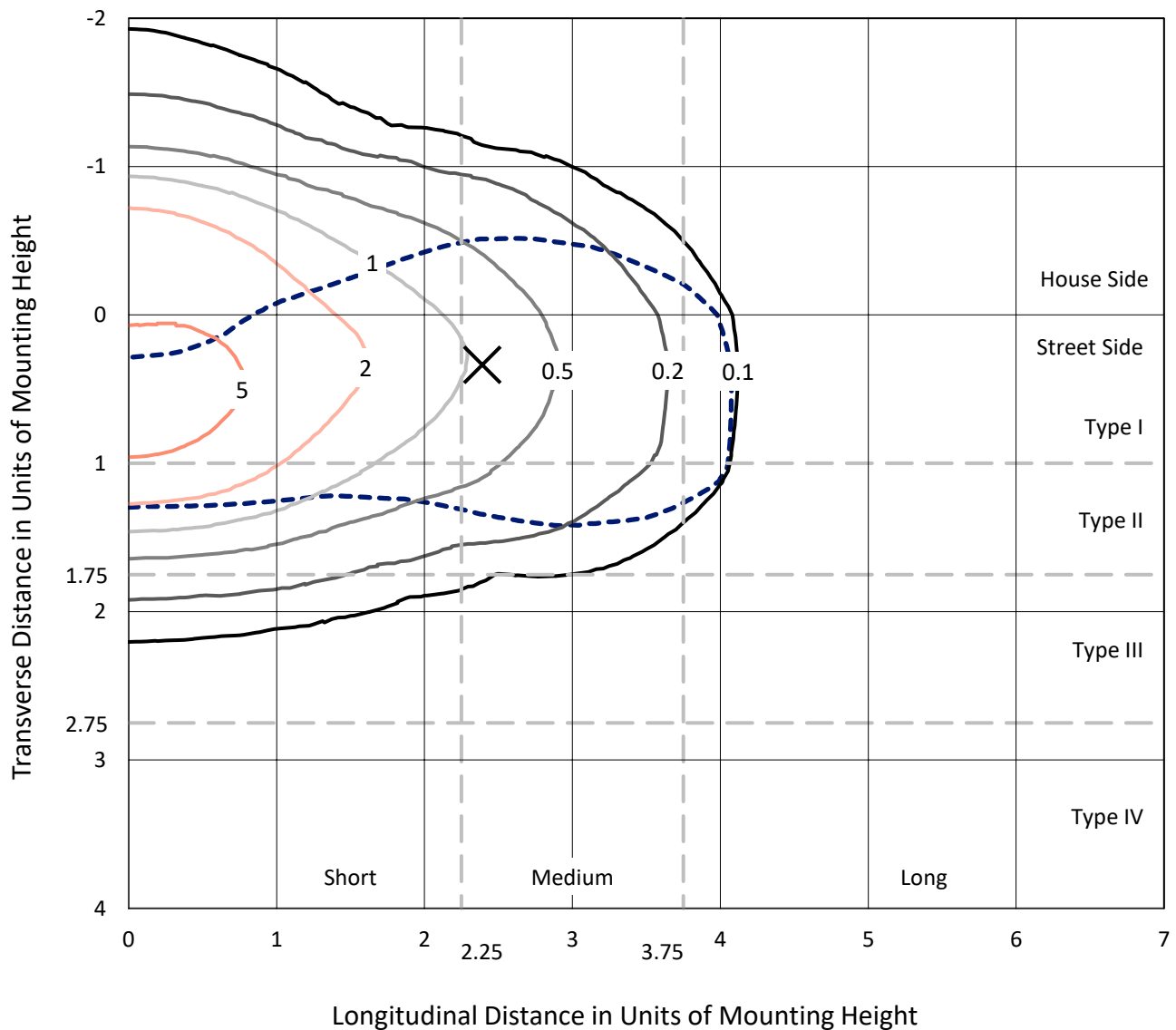


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Iso-Footcandle Lines of Horizontal Illumination

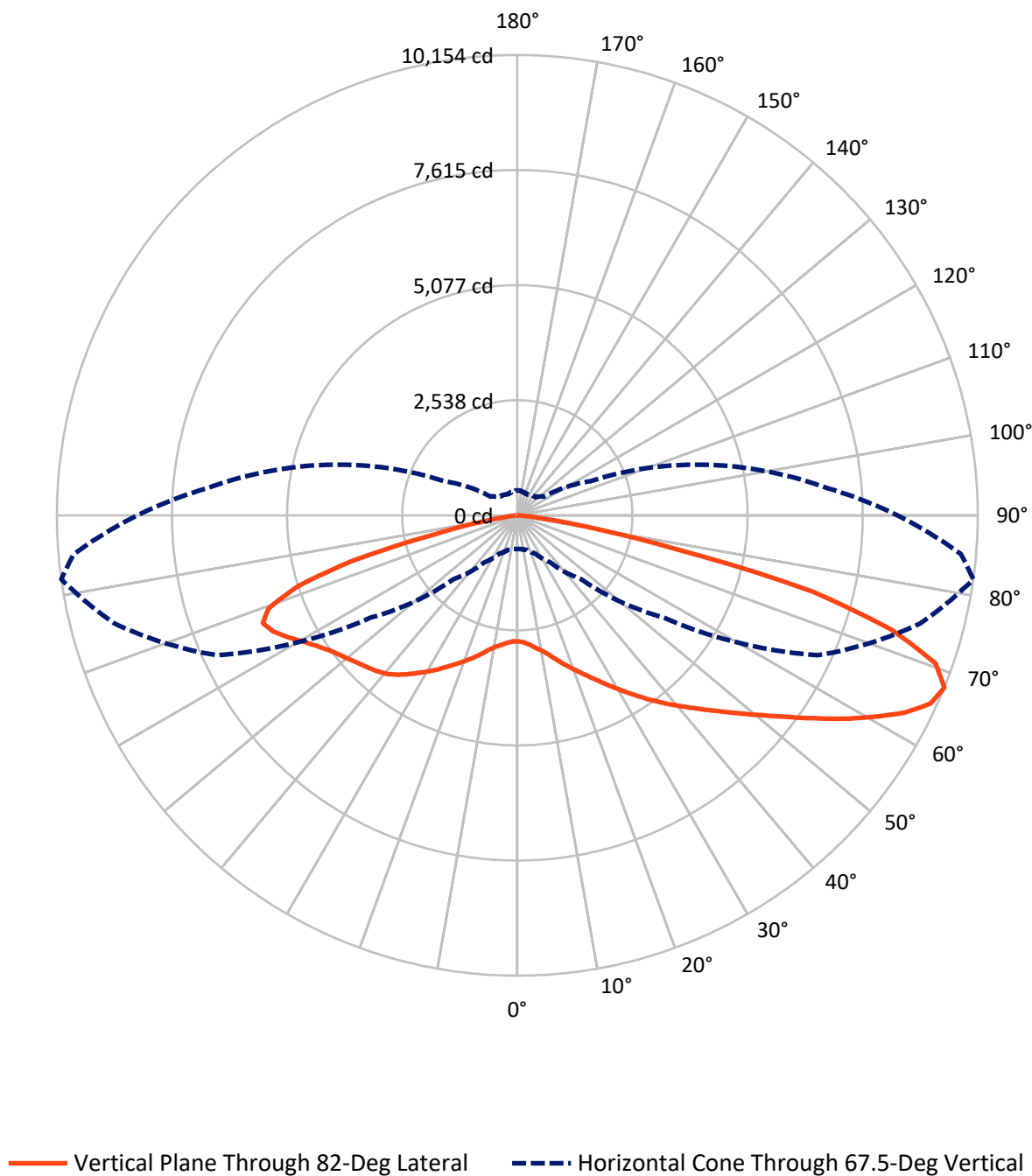
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5889.5	0.0	5889.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13449.5	0.0	13449.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	19339.0	0.0	19339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.3	1.5
10°-20°	1034.9	5.4
20°-30°	2079.8	10.8
30°-40°	3267.1	16.9
40°-50°	3980.0	20.6
50°-60°	3760.6	19.4
60°-70°	3105.4	16.1
70°-80°	1691.0	8.7
80°-90°	132.9	0.7
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°	19339.0	100.0
0°-180°	19339.0	100.0

Coefficient of Utilization



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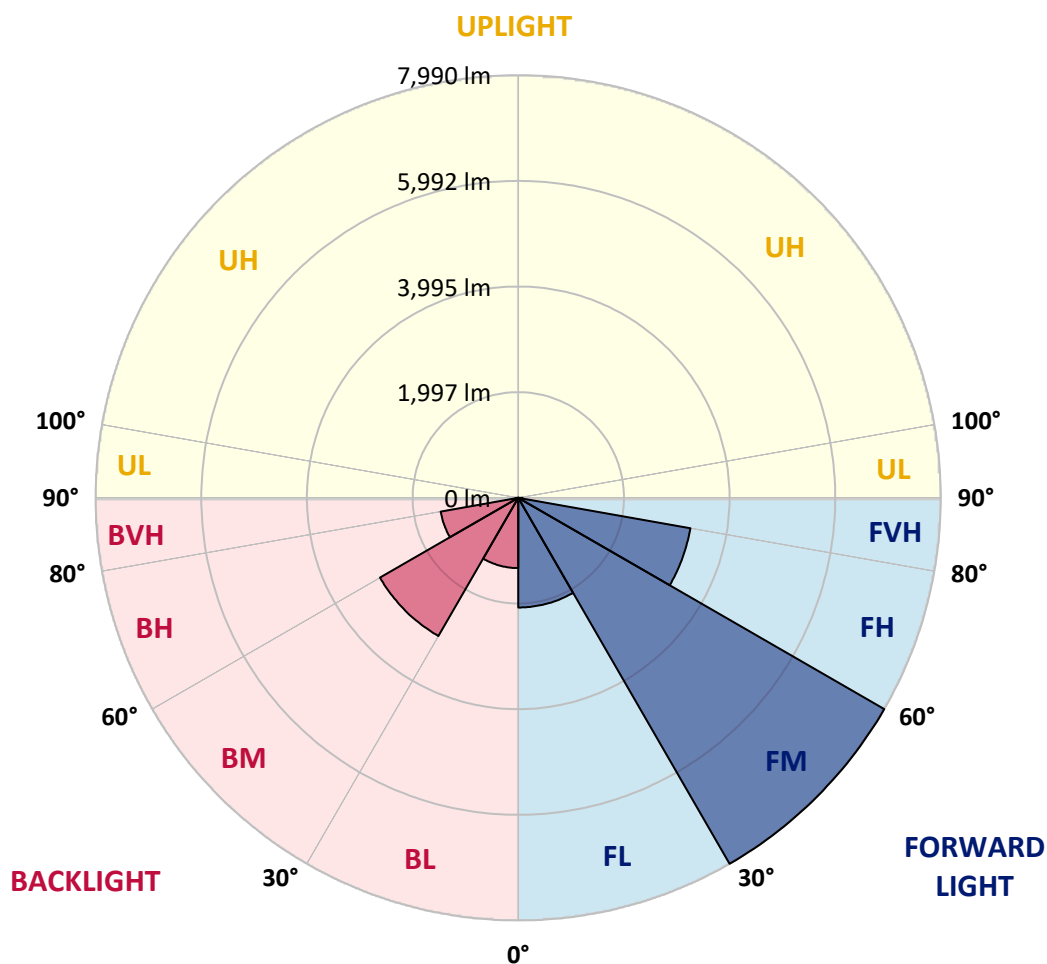
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2073.8	10.7			
FM	(30°-60°)	7989.8	41.3			
FH	(60°-80°)	3305.7	17.1			G2/5000
FVH	(80°-90°)	80.1	0.4			G1/100
BL	(0°-30°)	1328.1	6.9	B3/2500		
BM	(30°-60°)	3017.9	15.6	B3/5000		
BH	(60°-80°)	1490.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	52.8	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0
2.5°	2906.3	2906.3	2928.8	2928.8	2909.1	2878.3	2869.8	2836.1	2805.2	2805.2	2808.1
5°	3184.3	3181.5	3198.4	3175.9	3128.2	3066.4	3024.3	2951.3	2889.5	2869.8	2867.0
7.5°	3524.1	3521.3	3529.7	3493.2	3403.4	3302.3	3218.0	3100.1	2999.0	2956.9	2945.6
10°	3903.2	3900.4	3892.0	3830.2	3709.4	3552.2	3425.8	3263.0	3111.3	3043.9	3029.9
12.5°	4338.4	4332.8	4313.2	4223.3	4057.6	3855.5	3672.9	3462.3	3260.1	3167.5	3136.6
15°	4824.2	4815.8	4779.3	4669.8	4448.0	4192.4	3956.5	3687.0	3439.9	3319.1	3277.0
17.5°	5335.3	5335.3	5279.1	5116.3	4869.2	4551.9	4259.8	3917.2	3628.0	3479.2	3428.6
20°	5854.8	5852.0	5781.8	5585.2	5293.2	4928.1	4557.5	4181.2	3821.8	3642.0	3580.3
22.5°	6402.4	6396.7	6309.7	6085.0	5736.8	5324.1	4891.6	4442.3	4035.2	3819.0	3740.3
25°	7031.4	7022.9	6916.2	6641.0	6228.3	5762.1	5267.9	4748.4	4279.5	4015.5	3922.8
27.5°	7699.7	7688.4	7562.1	7242.0	6789.9	6228.3	5683.5	5102.2	4549.0	4234.5	4130.6
30°	8295.0	8286.6	8149.0	7820.4	7300.9	6691.6	6079.4	5456.0	4832.7	4467.6	4338.4
32.5°	8744.3	8744.3	8620.7	8297.8	7758.6	7135.3	6478.2	5790.2	5127.5	4717.5	4565.9
35°	9016.7	9025.1	8918.4	8660.0	8151.8	7553.7	6891.0	6183.3	5442.0	4984.3	4821.4
37.5°	9056.0	9084.0	9022.3	8848.2	8424.2	7901.9	7295.3	6562.4	5767.7	5253.9	5071.3
40°	8873.4	8893.1	8895.9	8828.5	8536.5	8151.8	7651.9	6964.0	6113.1	5537.5	5326.9
42.5°	8508.4	8522.4	8547.7	8567.4	8455.0	8261.3	7924.3	7337.4	6481.0	5826.7	5579.6
45°	8036.6	8033.8	8076.0	8160.2	8154.6	8199.5	8076.0	7677.2	6862.9	6155.2	5860.4
47.5°	7331.8	7317.8	7466.6	7657.6	7753.0	7963.6	8078.8	7944.0	7278.5	6517.5	6180.5
50°	6228.3	6214.2	6540.0	6989.2	7270.0	7590.2	7924.3	8104.0	7713.7	6924.7	6528.7
52.5°	4886.0	4872.0	5284.8	6071.0	6683.2	7149.3	7612.6	8140.5	8126.5	7379.6	6921.8
55°	3633.6	3622.4	4023.9	4874.8	5866.0	6638.2	7230.7	8045.1	8514.0	7901.9	7399.2
57.5°	2560.9	2555.3	2903.5	3608.3	4815.8	6014.8	6862.9	7859.7	8870.6	8469.1	7938.4
60°	1797.2	1788.7	2041.5	2586.2	3642.0	5074.1	6497.8	7612.6	9137.4	9027.9	8511.2
62.5°	1210.3	1204.7	1384.4	1839.3	2586.2	3906.0	5944.6	7447.0	9289.0	9589.5	9089.7
65°	918.2	915.4	996.9	1246.8	1830.8	2805.2	5065.7	7427.3	9308.7	10010.7	9581.1
67.5°	741.3	744.1	789.1	932.3	1266.4	1993.7	3928.5	7303.7	9204.8	10153.9	9819.8
70°	606.5	606.5	626.2	721.7	935.1	1345.1	2743.5	6742.1	8915.6	9780.4	9536.1
72.5°	463.3	466.1	527.9	584.1	704.8	943.5	1757.8	5579.6	8233.2	8623.5	8438.2
75°	367.9	365.0	401.6	480.2	547.6	673.9	1078.3	4001.5	7006.1	6739.3	6621.4
77.5°	264.0	261.1	289.2	356.6	415.6	477.4	643.0	2019.0	3810.5	3501.6	3414.6
80°	179.7	174.1	199.4	247.1	275.2	280.8	314.5	775.0	1662.4	1566.9	1547.2
82.5°	92.7	92.7	106.7	140.4	143.2	146.0	140.4	249.9	550.4	513.9	491.4
85°	36.5	36.5	39.3	47.7	47.7	50.5	50.5	64.6	59.0	56.2	53.4
87.5°	2.8	2.8	5.6	5.6	8.4	8.4	8.4	11.2	14.0	14.0	14.0
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°	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0	2780.0
2.5°	2802.4	2791.2	2754.7	2746.3	2740.7	2732.2	2735.0	2715.4	2707.0	2709.8	2698.5
5°	2853.0	2833.3	2788.4	2768.7	2763.1	2754.7	2763.1	2749.1	2735.0	2740.7	2735.0
7.5°	2923.2	2895.1	2838.9	2819.3	2816.5	2808.1	2819.3	2808.1	2796.8	2802.4	2791.2
10°	2996.2	2959.7	2897.9	2878.3	2878.3	2875.4	2886.7	2869.8	2858.6	2861.4	2855.8
12.5°	3102.9	3055.2	2987.8	2970.9	2962.5	2970.9	2973.7	2951.3	2931.6	2934.4	2926.0
15°	3232.1	3178.7	3105.7	3080.4	3074.8	3072.0	3060.8	3032.7	3007.4	3004.6	2996.2
17.5°	3372.5	3305.1	3218.0	3192.8	3167.5	3159.1	3131.0	3094.5	3055.2	3055.2	3043.9
20°	3507.3	3431.4	3327.5	3291.0	3254.5	3220.8	3173.1	3114.1	3063.6	3055.2	3043.9
22.5°	3653.3	3563.4	3442.7	3389.3	3324.7	3257.3	3175.9	3097.3	3032.7	3018.7	3010.2
25°	3816.1	3703.8	3560.6	3482.0	3378.1	3274.2	3153.4	3052.4	2976.5	2954.1	2948.5
27.5°	3995.9	3861.1	3687.0	3571.8	3420.2	3257.3	3102.9	2982.2	2889.5	2861.4	2853.0
30°	4178.4	4018.3	3802.1	3633.6	3420.2	3204.0	3010.2	2869.8	2763.1	2723.8	2718.2
32.5°	4360.9	4181.2	3906.0	3667.3	3386.5	3114.1	2889.5	2723.8	2603.1	2555.3	2566.6
35°	4579.9	4360.9	4001.5	3681.4	3330.3	3004.6	2751.9	2558.1	2434.6	2392.5	2400.9
37.5°	4807.4	4540.6	4077.3	3670.1	3251.7	2881.1	2597.4	2409.3	2254.9	2181.9	2190.3
40°	5003.9	4703.5	4130.6	3630.8	3150.6	2740.7	2445.8	2198.7	1985.3	1915.1	1906.7
42.5°	5189.3	4824.2	4158.7	3571.8	3035.5	2577.8	2229.6	1912.3	1698.9	1611.8	1614.6
45°	5383.0	4942.2	4147.5	3493.2	2892.3	2386.8	1951.6	1631.5	1443.3	1364.7	1367.5
47.5°	5604.9	5068.5	4136.3	3409.0	2718.2	2139.7	1684.8	1384.4	1221.5	1165.3	1159.7
50°	5840.7	5208.9	4122.2	3305.1	2524.4	1864.5	1420.9	1154.1	1016.5	980.0	971.6
52.5°	6107.5	5360.6	4113.8	3181.5	2291.4	1572.5	1185.0	951.9	859.3	834.0	831.2
55°	6427.6	5537.5	4125.0	3032.7	2010.6	1297.3	985.6	820.0	758.2	744.1	741.3
57.5°	6817.9	5764.9	4158.7	2858.6	1715.7	1058.6	839.6	738.5	699.2	688.0	688.0
60°	7242.0	6023.3	4220.5	2662.0	1420.9	873.3	744.1	673.9	657.1	671.1	671.1
62.5°	7699.7	6326.5	4330.0	2423.3	1145.7	738.5	668.3	620.6	609.3	637.4	640.2
65°	8123.7	6621.4	4400.2	2136.9	909.8	640.2	609.3	567.2	572.8	600.9	598.1
67.5°	8384.8	6865.7	4301.9	1777.5	721.7	567.2	547.6	511.1	525.1	547.6	550.4
70°	8224.8	6728.1	3816.1	1342.2	564.4	494.2	480.2	457.7	468.9	497.0	508.3
72.5°	7441.3	6026.1	2968.1	907.0	454.9	415.6	421.2	410.0	424.0	449.3	474.6
75°	6040.1	4554.7	1990.9	581.3	359.4	353.8	362.2	353.8	359.4	384.7	398.7
77.5°	3153.4	2221.2	991.2	362.2	266.8	275.2	289.2	292.0	308.9	314.5	320.1
80°	1471.4	999.7	412.8	202.2	176.9	193.8	221.8	224.6	230.3	238.7	241.5
82.5°	480.2	300.5	190.9	109.5	101.1	109.5	143.2	171.3	174.1	190.9	190.9
85°	50.5	30.9	42.1	44.9	39.3	47.7	64.6	61.8	28.1	16.8	16.8
87.5°	14.0	11.2	14.0	14.0	11.2	11.2	8.4	2.8	0.0	0.0	0.0
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)