

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: P841015

Luminaire Tested: **ARCH4-120-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19846 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

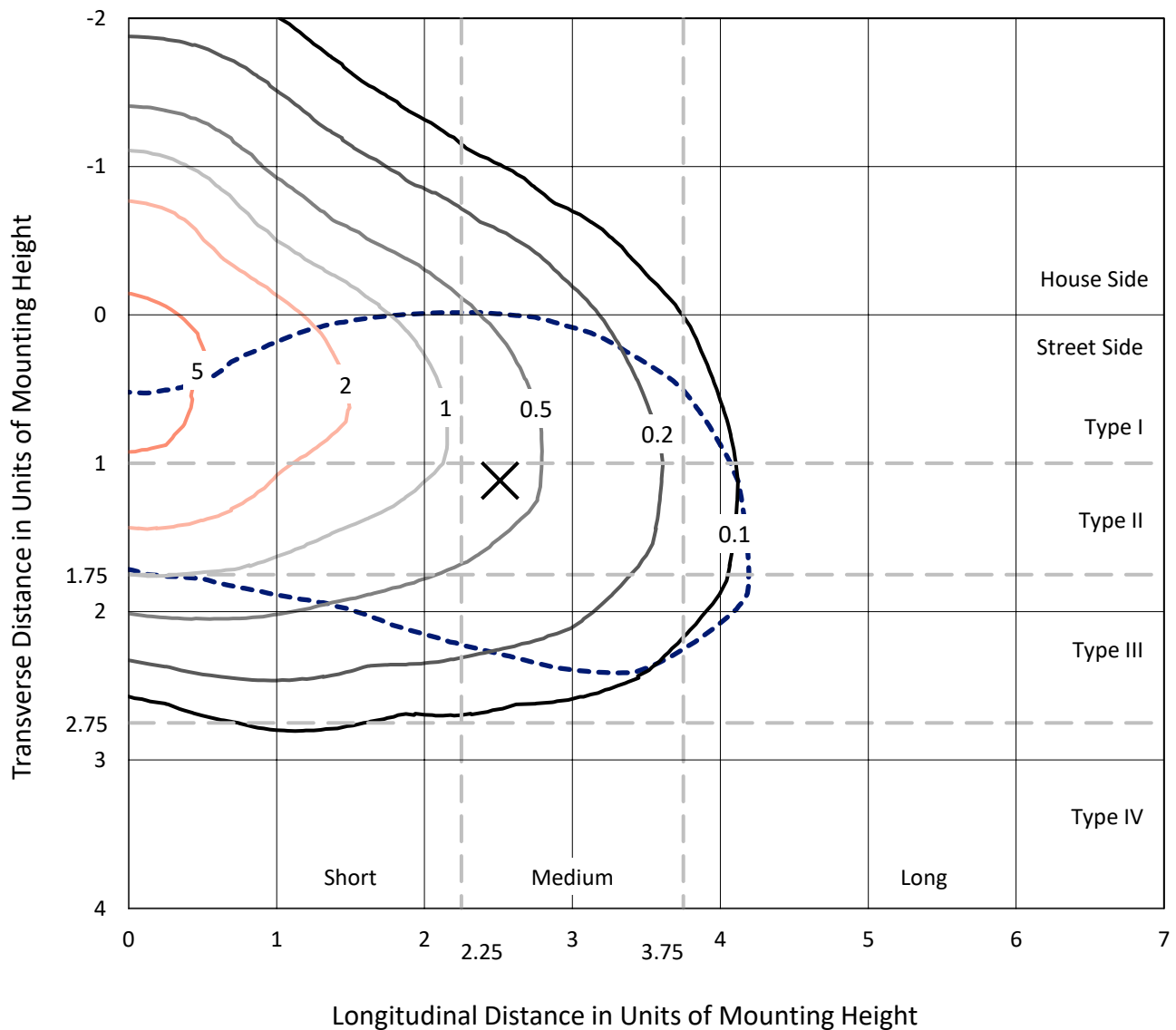
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841015
CATALOG NUMBER: ARCH4-120-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

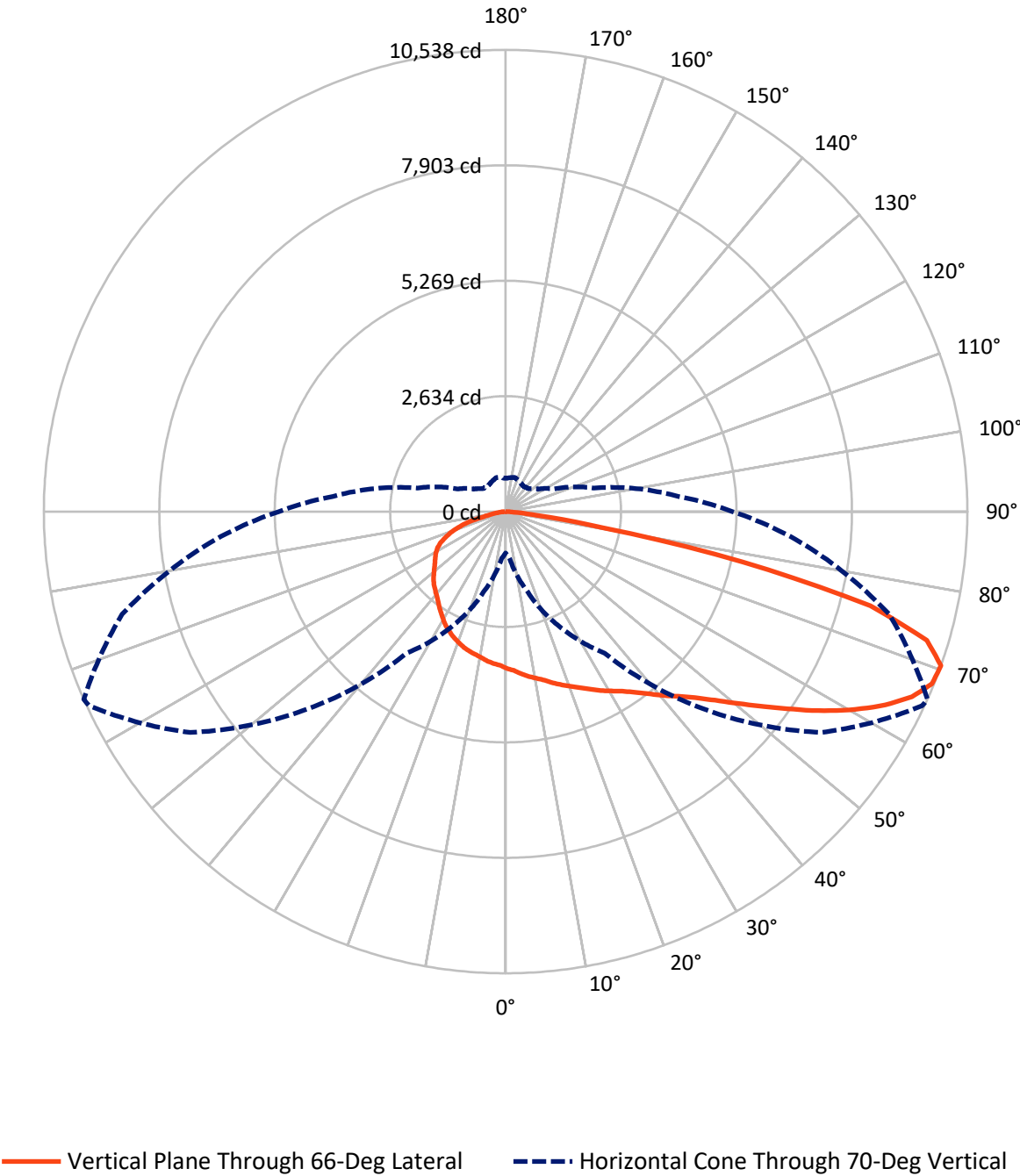
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P841015
CATALOG NUMBER: ARCH4-120-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841015

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5258.7	0.0	5258.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14587.3	0.0	14587.3
	% Fixture	73.5	0.0	73.5
Total	Lumens	19846.0	0.0	19846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	1.7
10°-20°	1032.4	5.2
20°-30°	1730.6	8.7
30°-40°	2591.3	13.1
40°-50°	3464.6	17.5
50°-60°	4045.0	20.4
60°-70°	4022.1	20.3
70°-80°	2381.2	12.0
80°-90°	234.7	1.2
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°	19846.0	100.0
0°-180°	19846.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841015

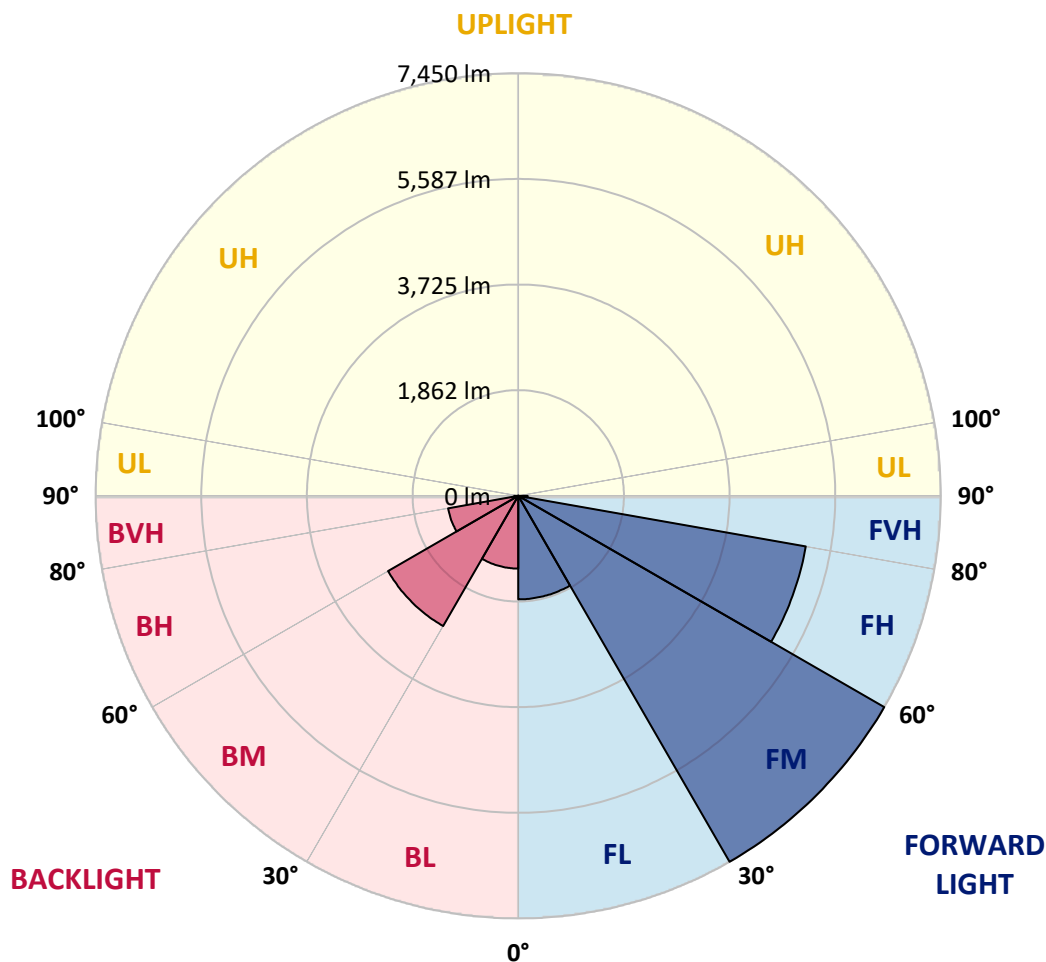
CATALOG NUMBER: ARCH4-120-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.3	9.2			
FM	(30°-60°)	7449.9	37.5			
FH	(60°-80°)	5147.1	25.9			G3/7500
FVH	(80°-90°)	164.9	0.8			G2/225
BL	(0°-30°)	1281.9	6.5	B3/2500		
BM	(30°-60°)	2650.9	13.4	B3/5000		
BH	(60°-80°)	1256.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	69.8	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 III Medium



REPORT NUMBER: P841015

CATALOG NUMBER: ARCH4-120-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	3713.4	3707.6	3704.7	3692.9	3666.6	3678.3	3652.0	3634.4	3631.5	3590.5	3567.1
5°	3865.6	3862.7	3856.8	3839.3	3798.3	3804.1	3760.3	3728.1	3719.3	3654.9	3605.2
7.5°	3994.4	3988.5	3985.6	3962.2	3918.3	3915.3	3862.7	3815.9	3801.2	3713.4	3637.4
10°	4093.8	4085.1	4090.9	4067.5	4020.7	4011.9	3944.6	3883.2	3868.5	3757.3	3652.0
12.5°	4178.7	4172.9	4181.6	4161.2	4123.1	4114.3	4047.0	3968.0	3950.5	3821.7	3684.2
15°	4272.4	4251.9	4269.4	4260.6	4234.3	4231.4	4169.9	4082.1	4058.7	3903.6	3733.9
17.5°	4322.1	4310.4	4330.9	4333.8	4322.1	4342.6	4284.1	4178.7	4158.2	3979.7	3777.8
20°	4357.2	4339.7	4363.1	4380.6	4389.4	4430.4	4383.5	4281.1	4257.7	4052.9	3818.8
22.5°	4477.2	4439.1	4442.1	4453.8	4459.6	4518.2	4488.9	4389.4	4366.0	4143.6	3868.5
25°	4778.6	4702.5	4652.8	4617.6	4576.7	4626.4	4608.9	4512.3	4491.8	4251.9	3930.0
27.5°	5246.8	5150.2	5050.7	4948.3	4787.4	4766.9	4737.6	4649.8	4626.4	4360.1	3991.4
30°	5779.4	5682.8	5565.8	5401.9	5100.5	4942.5	4875.2	4778.6	4752.3	4456.7	4050.0
32.5°	6309.0	6224.2	6107.1	5908.1	5478.0	5156.1	5012.7	4913.2	4886.9	4562.1	4120.2
35°	6721.6	6669.0	6592.9	6344.1	5852.5	5407.7	5211.7	5091.7	5062.4	4728.8	4248.9
37.5°	7055.2	7017.2	6952.8	6692.4	6124.7	5659.4	5439.9	5302.4	5270.2	4910.3	4386.5
40°	7546.8	7447.4	7394.7	7017.2	6361.7	5887.6	5697.4	5554.1	5518.9	5103.4	4497.7
42.5°	7965.3	7892.1	7827.8	7306.9	6587.0	6083.7	5940.3	5808.6	5761.8	5293.6	4617.6
45°	8035.5	8064.8	8032.6	7450.3	6944.0	6276.8	6186.1	6101.3	6057.4	5551.1	4799.1
47.5°	8038.5	8038.5	7848.2	7532.2	7385.9	6493.4	6449.5	6478.8	6431.9	5878.9	5015.6
50°	7827.8	7865.8	7766.3	7552.7	7502.9	6709.9	6771.4	6929.4	6882.6	6227.1	5249.7
52.5°	7391.8	7517.6	7514.7	7520.5	7333.2	6894.3	7110.8	7470.8	7391.8	6619.2	5498.5
55°	6622.1	6873.8	7099.1	7292.3	7186.9	7005.5	7526.4	8047.2	7965.3	7058.2	5750.1
57.5°	5963.7	6124.7	6405.6	6952.8	7014.3	7102.1	7915.6	8650.0	8576.9	7543.9	6013.5
60°	5211.7	5434.1	5715.0	6493.4	6803.6	7227.9	8342.8	9238.2	9168.0	8035.5	6268.1
62.5°	4055.8	4342.6	4904.4	5788.2	6496.3	7306.9	8679.3	9756.2	9724.0	8500.8	6496.3
65°	2826.8	3081.4	3868.5	4922.0	6007.6	7271.8	8948.5	10218.5	10189.3	8881.2	6657.3
67.5°	1650.4	1946.0	2835.6	3962.2	5144.4	7028.9	9036.3	10490.7	10490.7	9112.4	6701.2
70°	942.3	1079.8	1869.9	2888.2	3944.6	6358.8	8790.5	10487.7	10537.5	9059.7	6519.7
72.5°	658.4	719.9	1258.3	1943.0	2674.6	5144.4	8146.7	9981.5	10048.8	8562.3	5899.4
75°	512.1	556.0	886.7	1325.6	1685.5	3494.0	6739.2	8415.9	8594.4	7298.1	4769.8
77.5°	389.2	421.4	517.9	828.1	1079.8	2007.4	4447.9	5518.9	5530.6	4468.4	2557.6
80°	283.8	316.0	345.3	506.2	573.5	939.3	1679.7	2305.9	2241.5	2162.5	1384.1
82.5°	169.7	201.9	210.7	275.1	280.9	400.9	588.2	743.3	714.0	951.0	649.6
85°	73.2	102.4	108.3	125.8	120.0	163.9	234.1	196.1	175.6	201.9	140.5
87.5°	17.6	29.3	29.3	32.2	26.3	41.0	43.9	32.2	29.3	35.1	35.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841015

CATALOG NUMBER: ARCH4-120-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8	3581.8
2.5°	3561.3	3552.5	3555.4	3505.7	3491.0	3476.4	3467.6	3461.8	3455.9	3464.7	3473.5
5°	3587.6	3567.1	3543.7	3470.6	3441.3	3409.1	3385.7	3365.2	3356.4	3356.4	3365.2
7.5°	3608.1	3573.0	3523.2	3426.7	3374.0	3330.1	3292.1	3265.7	3251.1	3251.1	3259.9
10°	3611.0	3561.3	3482.3	3365.2	3295.0	3230.6	3186.7	3157.4	3137.0	3137.0	3142.8
12.5°	3628.6	3561.3	3458.8	3318.4	3230.6	3151.6	3098.9	3055.0	3046.2	3046.2	3052.1
15°	3657.8	3575.9	3444.2	3277.4	3172.1	3081.4	3022.8	2976.0	2958.5	2970.2	2973.1
17.5°	3684.2	3584.7	3417.9	3224.7	3098.9	2999.4	2935.0	2894.1	2870.7	2897.0	2897.0
20°	3701.7	3584.7	3379.8	3157.4	3019.9	2908.7	2847.3	2797.5	2780.0	2812.1	2815.1
22.5°	3728.1	3581.8	3338.9	3090.1	2935.0	2818.0	2756.5	2718.5	2709.7	2744.8	2756.5
25°	3757.3	3587.6	3295.0	3014.1	2841.4	2727.3	2680.5	2662.9	2668.8	2712.6	2727.3
27.5°	3789.5	3599.3	3251.1	2929.2	2739.0	2636.6	2610.2	2619.0	2642.4	2698.0	2715.6
30°	3818.8	3602.2	3189.6	2829.7	2621.9	2525.4	2537.1	2575.1	2610.2	2665.8	2686.3
32.5°	3856.8	3605.2	3125.3	2721.4	2496.1	2425.9	2478.5	2540.0	2575.1	2627.8	2651.2
35°	3950.5	3654.9	3075.5	2616.1	2379.1	2341.0	2428.8	2507.8	2528.3	2575.1	2595.6
37.5°	4058.7	3736.8	3049.2	2507.8	2264.9	2256.2	2367.4	2446.4	2452.2	2481.5	2502.0
40°	4126.0	3772.0	3019.9	2417.1	2162.5	2168.4	2282.5	2343.9	2332.2	2352.7	2367.4
42.5°	4193.3	3783.7	2958.5	2341.0	2065.9	2071.8	2159.6	2203.5	2209.3	2253.2	2273.7
45°	4307.5	3815.9	2891.2	2270.8	1978.2	1957.7	2010.3	2068.9	2145.0	2229.8	2253.2
47.5°	4459.6	3883.2	2820.9	2185.9	1893.3	1826.0	1846.5	1948.9	2027.9	2106.9	2121.5
50°	4614.7	3950.5	2756.5	2083.5	1808.4	1685.5	1694.3	1787.9	1852.3	1913.8	1922.6
52.5°	4766.9	4009.0	2700.9	1986.9	1711.9	1518.7	1553.8	1650.4	1694.3	1723.6	1732.4
55°	4919.1	4058.7	2651.2	1905.0	1600.7	1387.1	1419.2	1510.0	1553.8	1568.5	1574.3
57.5°	5077.1	4117.3	2613.2	1834.8	1474.8	1270.0	1290.5	1354.9	1395.8	1413.4	1407.5
60°	5208.8	4167.0	2592.7	1761.6	1349.0	1161.7	1155.9	1214.4	1272.9	1290.5	1284.6
62.5°	5311.2	4199.2	2560.5	1668.0	1237.8	1053.5	1024.2	1100.3	1161.7	1173.4	1182.2
65°	5366.8	4202.1	2481.5	1548.0	1123.7	936.4	915.9	992.0	1030.0	1041.8	1041.8
67.5°	5358.0	4155.3	2326.4	1387.1	1018.3	831.1	813.5	860.3	915.9	924.7	915.9
70°	5176.6	3962.2	2077.6	1217.3	892.5	737.4	705.2	752.1	804.7	772.5	757.9
72.5°	4661.5	3461.8	1711.9	1030.0	752.1	620.4	605.7	652.6	655.5	661.3	646.7
75°	3678.3	2578.0	1281.7	801.8	608.7	520.9	517.9	509.2	520.9	544.3	526.7
77.5°	1931.3	1287.6	693.5	491.6	441.9	418.5	398.0	395.0	430.2	444.8	427.2
80°	1047.6	722.8	398.0	295.6	269.2	272.1	298.5	292.6	330.7	339.4	324.8
82.5°	456.5	342.4	196.1	178.5	178.5	175.6	184.4	204.8	245.8	245.8	196.1
85°	99.5	84.9	76.1	87.8	99.5	99.5	99.5	99.5	70.2	38.0	26.3
87.5°	32.2	32.2	32.2	35.1	38.0	38.0	32.2	23.4	14.6	2.9	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)