

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: P835992

Luminaire Tested: **ARCH3-120-750-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19360 lumens
Efficiency: N/A
Efficacy: 157.8 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

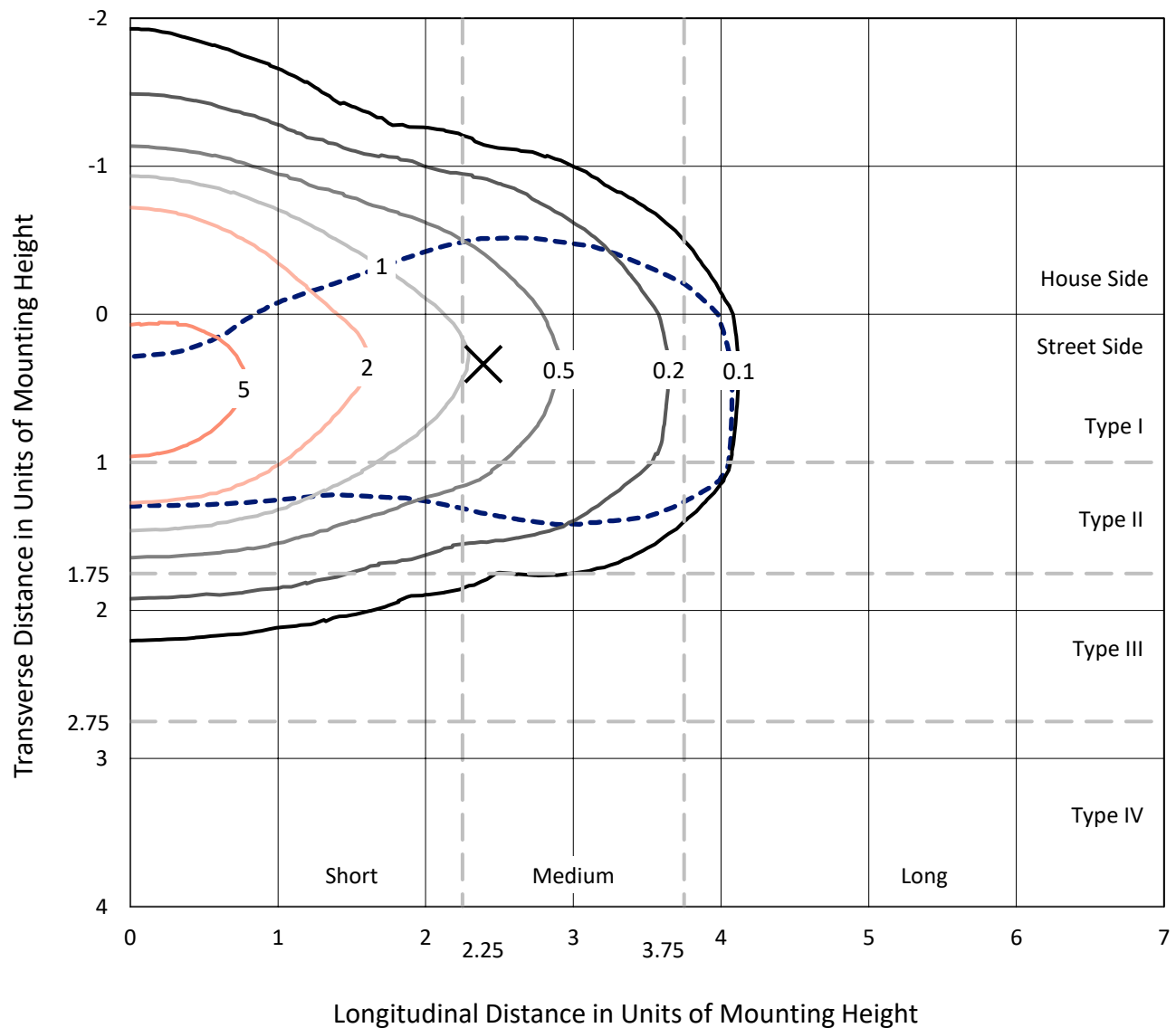
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

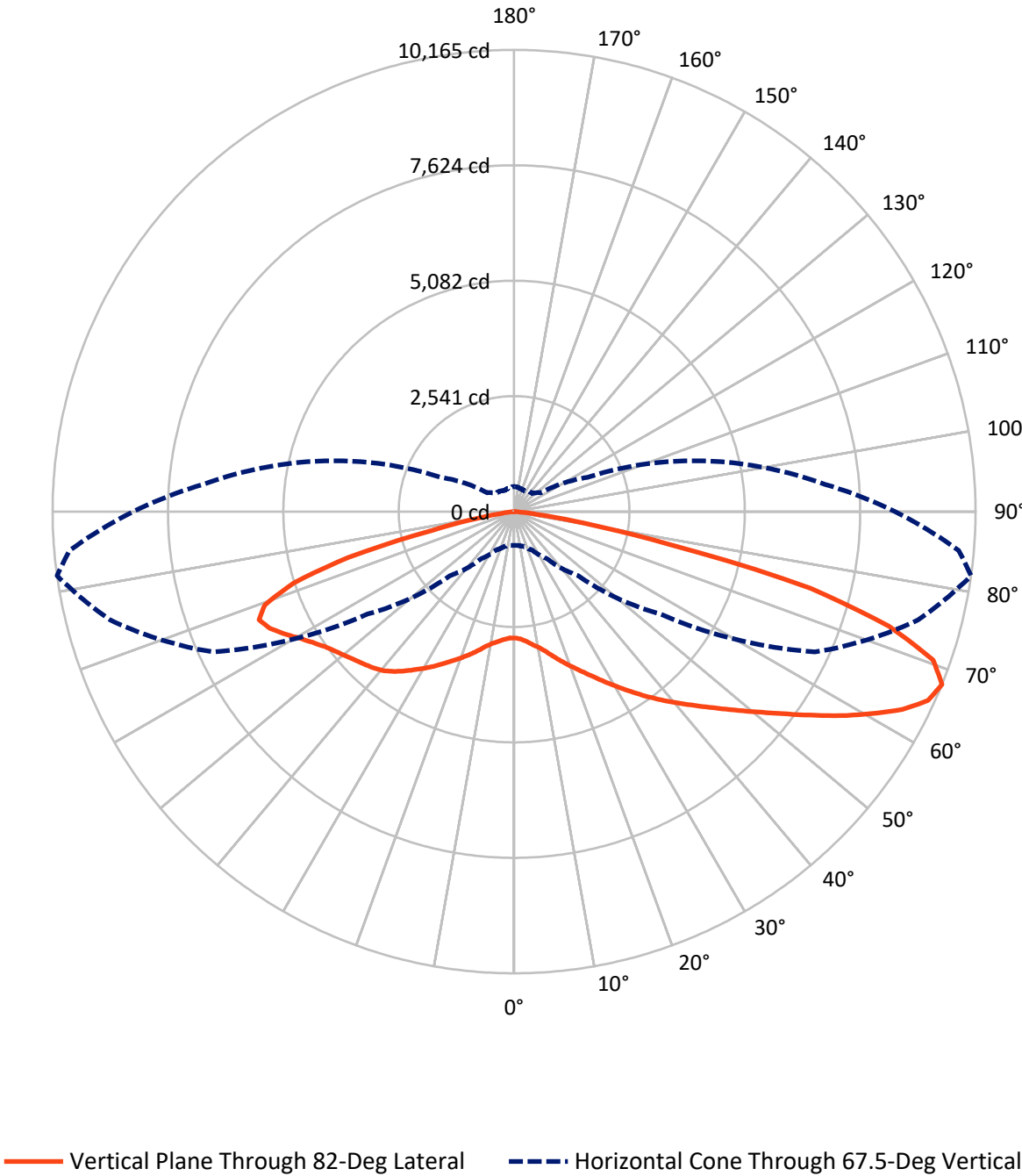
× Max cd
- - - 1/2 Max cd



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	5895.9	0.0	5895.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13464.1	0.0	13464.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	19360.0	0.0	19360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	1.5
10°-20°	1036.0	5.4
20°-30°	2082.1	10.8
30°-40°	3270.6	16.9
40°-50°	3984.3	20.6
50°-60°	3764.7	19.4
60°-70°	3108.7	16.1
70°-80°	1692.8	8.7
80°-90°	133.1	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°	19360.0	100.0
0°-180°	19360.0	100.0

Coefficient of Utilization



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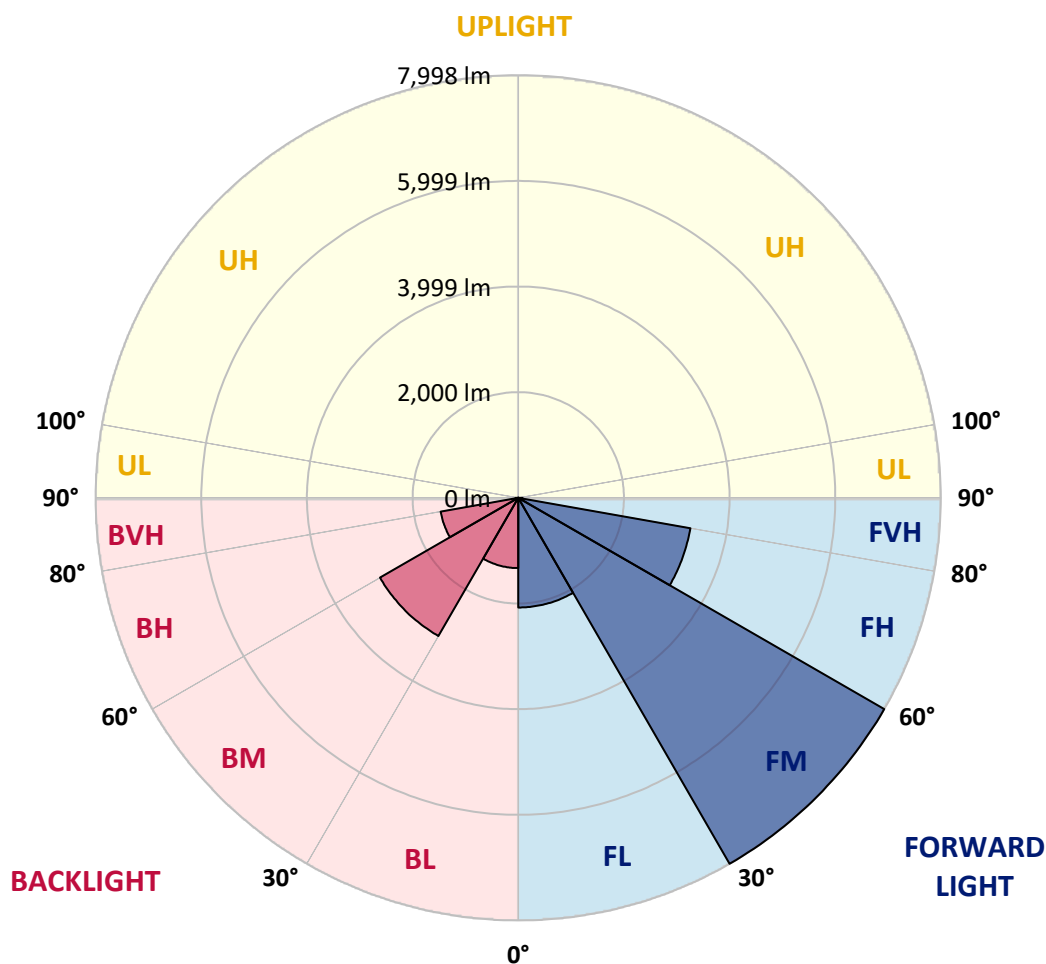
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2076.1	10.7			
FM	(30°-60°)	7998.4	41.3			
FH	(60°-80°)	3309.3	17.1			G2/5000
FVH	(80°-90°)	80.2	0.4			G1/100
BL	(0°-30°)	1329.6	6.9	B3/2500		
BM	(30°-60°)	3021.2	15.6	B3/5000		
BH	(60°-80°)	1492.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	52.9	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°	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0
2.5°	2909.5	2909.5	2932.0	2932.0	2912.3	2881.4	2872.9	2839.2	2808.3	2808.3	2811.1
5°	3187.8	3185.0	3201.8	3179.4	3131.6	3069.7	3027.6	2954.5	2892.6	2872.9	2870.1
7.5°	3527.9	3525.1	3533.6	3497.0	3407.1	3305.9	3221.5	3103.5	3002.3	2960.1	2948.8
10°	3907.4	3904.6	3896.2	3834.3	3713.5	3556.0	3429.5	3266.5	3114.7	3047.2	3033.2
12.5°	4343.2	4337.5	4317.9	4227.9	4062.0	3859.6	3676.9	3466.1	3263.7	3170.9	3140.0
15°	4829.5	4821.0	4784.5	4674.9	4452.8	4197.0	3960.8	3691.0	3443.6	3322.7	3280.6
17.5°	5341.1	5341.1	5284.9	5121.8	4874.4	4556.8	4264.4	3921.5	3631.9	3483.0	3432.4
20°	5861.1	5858.3	5788.1	5591.3	5298.9	4933.5	4562.4	4185.7	3825.9	3646.0	3584.2
22.5°	6409.3	6403.7	6316.5	6091.7	5743.1	5329.8	4896.9	4447.2	4039.6	3823.1	3744.4
25°	7039.0	7030.6	6923.7	6648.3	6235.0	5768.4	5273.6	4753.6	4284.1	4019.9	3927.1
27.5°	7708.0	7696.8	7570.3	7249.8	6797.2	6235.0	5689.7	5107.8	4554.0	4239.1	4135.1
30°	8304.0	8295.6	8157.8	7828.9	7308.9	6698.9	6086.0	5462.0	4837.9	4472.5	4343.2
32.5°	8753.8	8753.8	8630.1	8306.8	7767.1	7143.0	6485.2	5796.5	5133.1	4722.6	4570.9
35°	9026.4	9034.9	8928.1	8669.4	8160.6	7561.9	6898.4	6190.0	5447.9	4989.7	4826.7
37.5°	9065.8	9093.9	9032.1	8857.8	8433.3	7910.4	7303.2	6569.5	5774.0	5259.6	5076.8
40°	8883.1	8902.8	8905.6	8838.1	8545.7	8160.6	7660.3	6971.5	6119.8	5543.5	5332.7
42.5°	8517.6	8531.7	8557.0	8576.7	8464.2	8270.3	7932.9	7345.4	6488.0	5833.0	5585.7
45°	8045.4	8042.6	8084.7	8169.1	8163.4	8208.4	8084.7	7685.6	6870.3	6161.9	5866.8
47.5°	7339.8	7325.7	7474.7	7665.9	7761.4	7972.3	8087.5	7952.6	7286.4	6524.6	6187.2
50°	6235.0	6221.0	6547.1	6996.8	7277.9	7598.4	7932.9	8112.8	7722.1	6932.2	6535.8
52.5°	4891.3	4877.3	5290.5	6077.6	6690.4	7157.1	7620.9	8149.4	8135.3	7387.6	6929.4
55°	3637.6	3626.3	4028.3	4880.1	5872.4	6645.4	7238.6	8053.8	8523.3	7910.4	7407.3
57.5°	2563.7	2558.1	2906.7	3612.3	4821.0	6021.4	6870.3	7868.3	8880.3	8478.3	7947.0
60°	1799.1	1790.7	2043.7	2589.0	3646.0	5079.7	6504.9	7620.9	9147.3	9037.7	8520.4
62.5°	1211.6	1206.0	1385.9	1841.3	2589.0	3910.2	5951.1	7455.0	9299.1	9599.9	9099.5
65°	919.2	916.4	997.9	1248.1	1832.8	2808.3	5071.2	7435.4	9318.8	10021.6	9591.5
67.5°	742.1	744.9	789.9	933.3	1267.8	1995.9	3932.7	7311.7	9214.8	10164.9	9830.4
70°	607.2	607.2	626.9	722.5	936.1	1346.5	2746.4	6749.5	8925.2	9791.1	9546.5
72.5°	463.8	466.6	528.5	584.7	705.6	944.5	1759.7	5585.7	8242.1	8632.9	8447.4
75°	368.3	365.4	402.0	480.7	548.2	674.7	1079.5	4005.8	7013.7	6746.6	6628.6
77.5°	264.2	261.4	289.5	357.0	416.0	477.9	643.7	2021.2	3814.7	3505.4	3418.3
80°	179.9	174.3	199.6	247.4	275.5	281.1	314.8	775.9	1664.2	1568.6	1548.9
82.5°	92.8	92.8	106.8	140.6	143.4	146.2	140.6	250.2	551.0	514.4	491.9
85°	36.5	36.5	39.4	47.8	47.8	50.6	50.6	64.7	59.0	56.2	53.4
87.5°	2.8	2.8	5.6	5.6	8.4	8.4	8.4	11.2	14.1	14.1	14.1
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°	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0	2783.0
2.5°	2805.5	2794.2	2757.7	2749.3	2743.6	2735.2	2738.0	2718.3	2709.9	2712.7	2701.5
5°	2856.1	2836.4	2791.4	2771.7	2766.1	2757.7	2766.1	2752.1	2738.0	2743.6	2738.0
7.5°	2926.4	2898.2	2842.0	2822.3	2819.5	2811.1	2822.3	2811.1	2799.9	2805.5	2794.2
10°	2999.4	2962.9	2901.1	2881.4	2881.4	2878.6	2889.8	2872.9	2861.7	2864.5	2858.9
12.5°	3106.3	3058.5	2991.0	2974.1	2965.7	2974.1	2977.0	2954.5	2934.8	2937.6	2929.2
15°	3235.6	3182.2	3109.1	3083.8	3078.2	3075.3	3064.1	3036.0	3010.7	3007.9	2999.4
17.5°	3376.1	3308.7	3221.5	3196.2	3170.9	3162.5	3134.4	3097.8	3058.5	3058.5	3047.2
20°	3511.1	3435.2	3331.2	3294.6	3258.1	3224.3	3176.5	3117.5	3066.9	3058.5	3047.2
22.5°	3657.2	3567.3	3446.4	3393.0	3328.3	3260.9	3179.4	3100.6	3036.0	3021.9	3013.5
25°	3820.3	3707.8	3564.5	3485.8	3381.8	3277.7	3156.9	3055.7	2979.8	2957.3	2951.7
27.5°	4000.2	3865.3	3691.0	3575.7	3423.9	3260.9	3106.3	2985.4	2892.6	2864.5	2856.1
30°	4182.9	4022.7	3806.2	3637.6	3423.9	3207.5	3013.5	2872.9	2766.1	2726.8	2721.1
32.5°	4365.6	4185.7	3910.2	3671.3	3390.2	3117.5	2892.6	2726.8	2605.9	2558.1	2569.3
35°	4584.9	4365.6	4005.8	3685.4	3334.0	3007.9	2754.9	2560.9	2437.2	2395.1	2403.5
37.5°	4812.6	4545.6	4081.7	3674.1	3255.3	2884.2	2600.3	2411.9	2257.3	2184.2	2192.7
40°	5009.4	4708.6	4135.1	3634.8	3154.1	2743.6	2448.5	2201.1	1987.4	1917.2	1908.7
42.5°	5194.9	4829.5	4163.2	3575.7	3038.8	2580.6	2232.0	1914.4	1700.7	1613.6	1616.4
45°	5388.9	4947.5	4152.0	3497.0	2895.4	2389.4	1953.7	1633.2	1444.9	1366.2	1369.0
47.5°	5611.0	5074.0	4140.8	3412.7	2721.1	2142.1	1686.7	1385.9	1222.8	1166.6	1161.0
50°	5847.1	5214.6	4126.7	3308.7	2527.2	1866.6	1422.4	1155.4	1017.6	981.1	972.6
52.5°	6114.1	5366.4	4118.3	3185.0	2293.9	1574.2	1186.3	953.0	860.2	834.9	832.1
55°	6434.6	5543.5	4129.5	3036.0	2012.7	1298.7	986.7	820.8	759.0	744.9	742.1
57.5°	6825.4	5771.2	4163.2	2861.7	1717.6	1059.8	840.5	739.3	700.0	688.7	688.7
60°	7249.8	6029.8	4225.1	2664.9	1422.4	874.3	744.9	674.7	657.8	671.9	671.9
62.5°	7708.0	6333.4	4334.7	2426.0	1146.9	739.3	669.0	621.3	610.0	638.1	640.9
65°	8132.5	6628.6	4405.0	2139.2	910.8	640.9	610.0	567.8	573.5	601.6	598.8
67.5°	8393.9	6873.1	4306.6	1779.4	722.5	567.8	548.2	511.6	525.7	548.2	551.0
70°	8233.7	6735.4	3820.3	1343.7	565.0	494.8	480.7	458.2	469.5	497.6	508.8
72.5°	7449.4	6032.6	2971.3	908.0	455.4	416.0	421.7	410.4	424.5	449.8	475.1
75°	6046.7	4559.6	1993.1	581.9	359.8	354.2	362.6	354.2	359.8	385.1	399.2
77.5°	3156.9	2223.6	992.3	362.6	267.1	275.5	289.5	292.4	309.2	314.8	320.5
80°	1473.0	1000.8	413.2	202.4	177.1	194.0	222.1	224.9	230.5	238.9	241.8
82.5°	480.7	300.8	191.2	109.6	101.2	109.6	143.4	171.5	174.3	191.2	191.2
85°	50.6	30.9	42.2	45.0	39.4	47.8	64.7	61.8	28.1	16.9	16.9
87.5°	14.1	11.2	14.1	14.1	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)