

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: P1211051

Luminaire Tested: **ARCH4-150-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25063 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

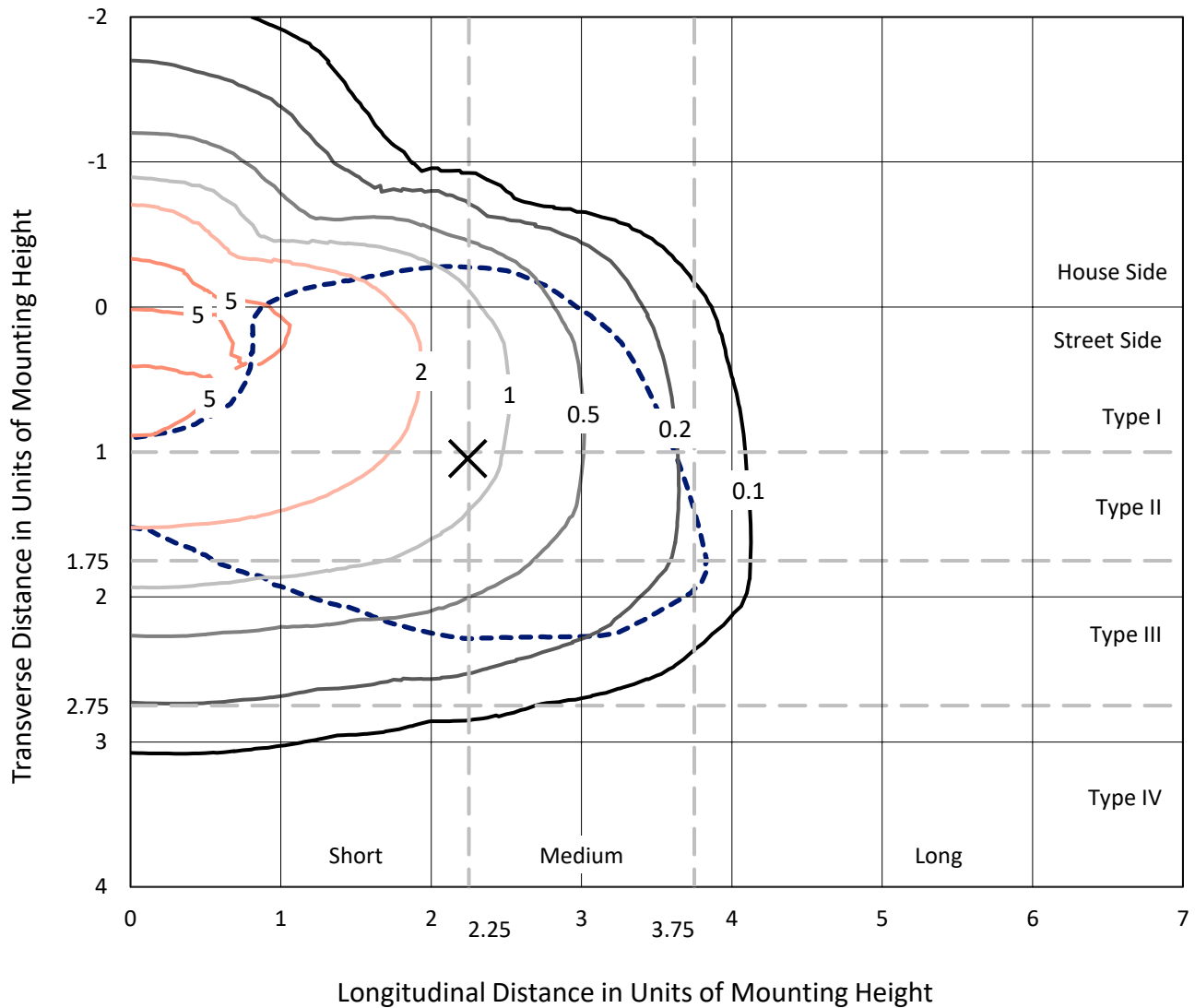
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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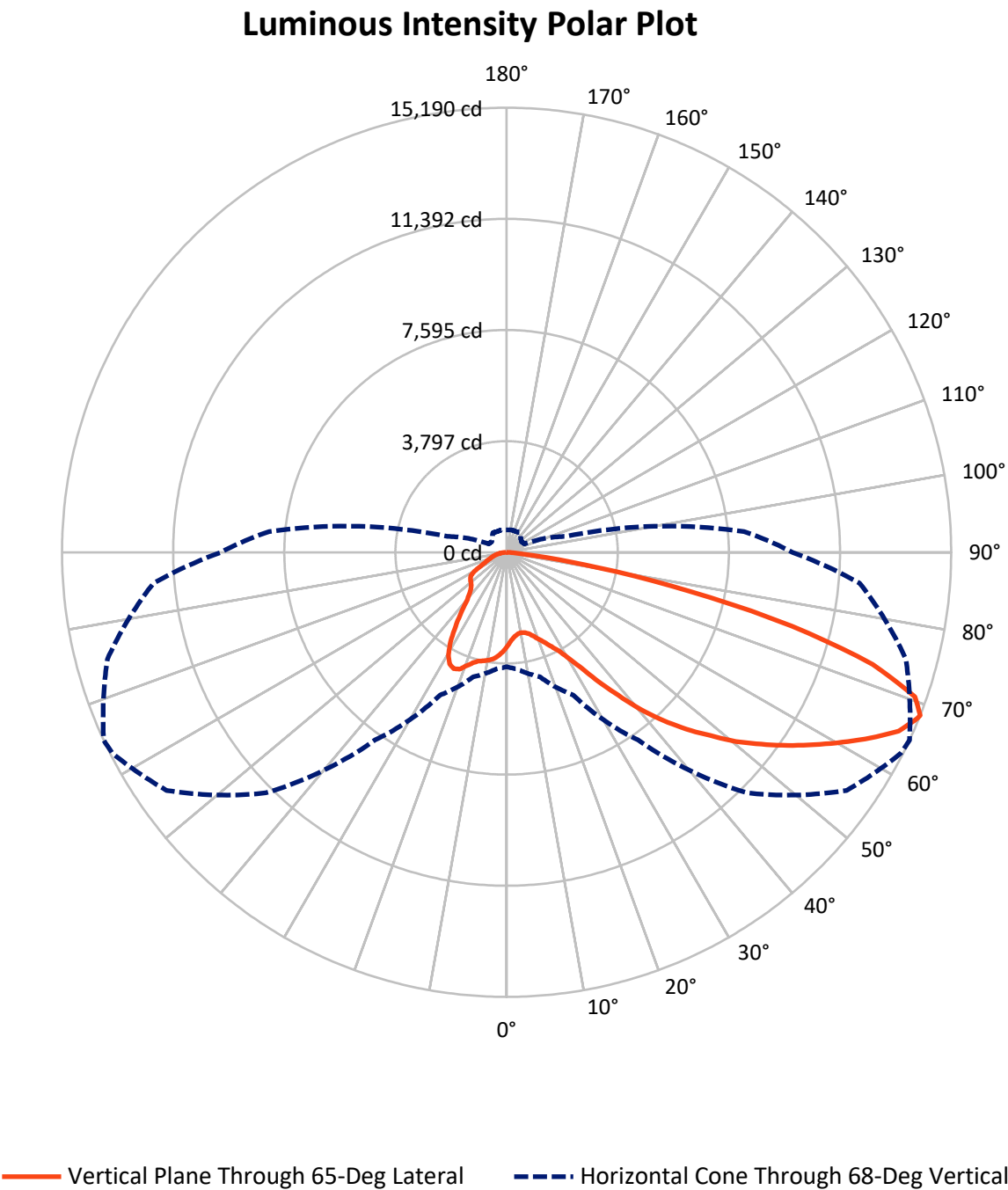
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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CATALOG NUMBER: ARCH4-150-750-U-T3RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6144.7	0.0	6144.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18918.3	0.0	18918.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	25063.0	0.0	25063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	1.2
10°-20°	996.6	4.0
20°-30°	1803.8	7.2
30°-40°	2837.5	11.3
40°-50°	4226.2	16.9
50°-60°	5543.9	22.1
60°-70°	6062.7	24.2
70°-80°	3000.0	12.0
80°-90°	286.2	1.1
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°	25063.0	100.0
0°-180°	25063.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211051

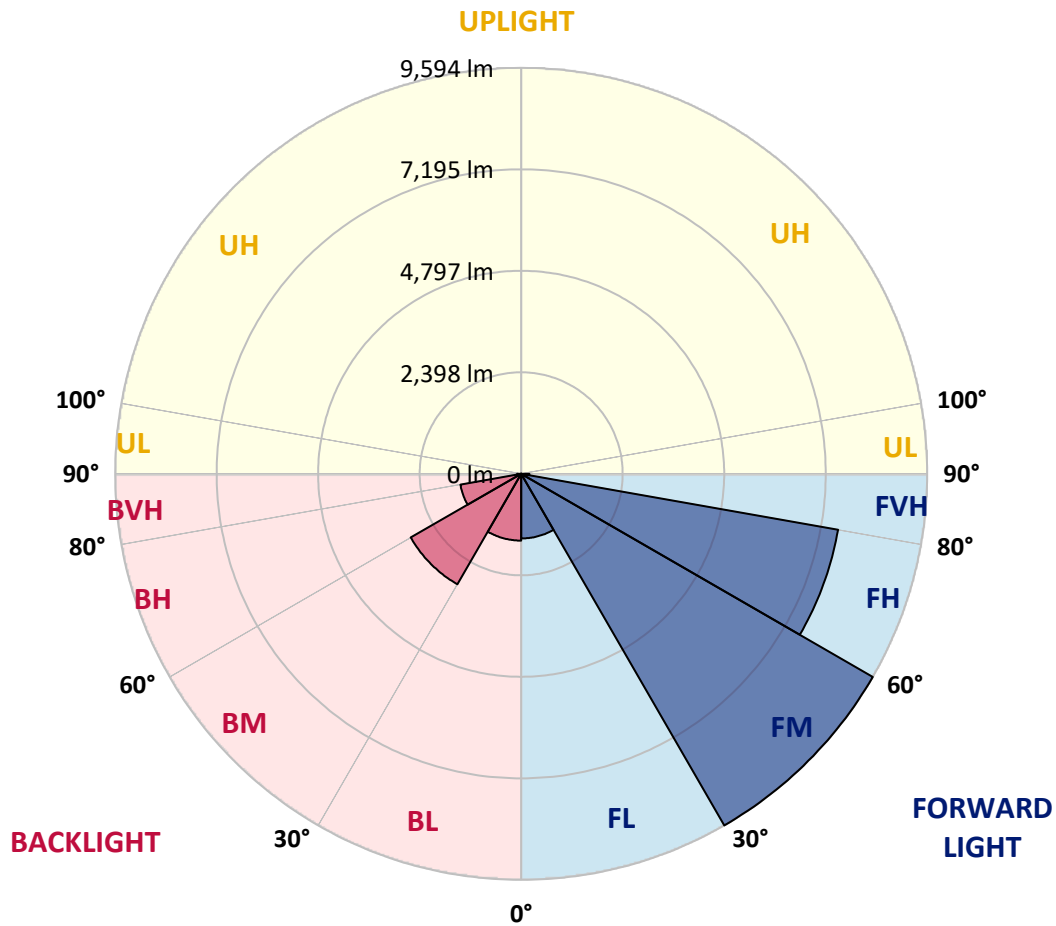
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1527.9	6.1			
FM	(30°-60°)	9593.8	38.3			
FH	(60°-80°)	7604.2	30.3			G4/12000
FVH	(80°-90°)	192.5	0.8			G2/225
BL	(0°-30°)	1578.6	6.3	B3/2500		
BM	(30°-60°)	3013.9	12.0	B3/5000		
BH	(60°-80°)	1458.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	93.7	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-G4

Type III Short



REPORT NUMBER: P1211051

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	2795.5	2789.1	2805.2	2821.4	2856.9	2899.0	2957.1	3005.6	3012.1	3102.6	3173.7
5°	2630.7	2621.0	2637.2	2656.6	2672.7	2724.4	2785.8	2856.9	2886.0	3018.5	3170.4
7.5°	2646.9	2643.6	2650.1	2643.6	2643.6	2666.3	2708.3	2779.4	2811.7	2970.1	3186.6
10°	2740.6	2747.1	2750.3	2730.9	2711.5	2701.8	2714.7	2763.2	2785.8	2973.3	3257.7
12.5°	2895.7	2905.4	2908.6	2873.1	2847.2	2805.2	2782.6	2802.0	2818.2	3005.6	3357.9
15°	3105.8	3112.3	3089.6	3067.0	3002.4	2950.7	2895.7	2879.6	2886.0	3073.5	3471.0
17.5°	3351.4	3341.7	3341.7	3286.8	3202.7	3122.0	3031.5	3018.5	3018.5	3183.4	3632.6
20°	3619.7	3629.3	3600.3	3525.9	3441.9	3315.9	3225.4	3167.2	3173.7	3309.4	3829.7
22.5°	4007.5	4023.6	3946.1	3839.4	3710.1	3564.7	3435.4	3341.7	3344.9	3474.2	4033.3
25°	4424.4	4430.8	4382.4	4240.2	4065.6	3858.8	3687.5	3567.9	3564.7	3658.4	4295.1
27.5°	4851.0	4880.1	4783.1	4647.4	4485.8	4227.2	4001.0	3839.4	3813.6	3939.6	4621.5
30°	5290.5	5326.1	5232.3	5099.8	4899.5	4679.7	4411.5	4224.0	4207.8	4375.9	5057.8
32.5°	5733.3	5743.0	5668.6	5558.8	5377.8	5170.9	4954.4	4747.6	4731.4	5006.1	5623.4
35°	6095.2	6124.3	6072.6	6046.8	5914.3	5723.6	5513.5	5393.9	5435.9	5788.2	6357.0
37.5°	6531.5	6560.6	6502.4	6496.0	6454.0	6289.1	6143.7	6153.4	6195.4	6673.7	7129.4
40°	7161.7	7194.1	7045.4	6980.8	6980.8	6819.2	6770.7	7000.2	7055.1	7546.3	7934.2
42.5°	7695.0	7746.7	7659.4	7617.4	7491.4	7378.3	7436.4	7759.6	7853.4	8380.1	8635.5
45°	7953.5	7992.3	8095.7	8218.6	8095.7	7898.6	8118.4	8483.6	8616.1	9149.3	9336.8
47.5°	8092.5	8128.1	8247.6	8577.3	8661.3	8496.5	8806.7	9262.4	9352.9	9912.0	10005.8
50°	8111.9	8225.0	8380.1	8709.8	9094.4	9117.0	9498.4	10054.2	10160.9	10661.8	10593.9
52.5°	7953.5	7998.8	8318.7	8874.6	9301.2	9689.0	10251.4	10813.7	10891.3	11366.4	11114.3
55°	7695.0	7759.6	8079.6	8835.8	9501.6	10232.0	11017.3	11560.3	11647.5	12051.5	11595.8
57.5°	7462.3	7494.6	7837.2	8722.7	9702.0	10774.9	11699.2	12339.1	12397.3	12652.6	11951.3
60°	7203.8	7239.3	7581.9	8480.3	9850.6	11185.4	12410.2	13124.5	13176.2	13286.1	12365.0
62.5°	6534.8	6628.5	7058.3	8079.6	9811.8	11654.0	13169.7	13900.1	13964.8	13845.2	12691.4
65°	5306.7	5439.2	5966.0	7171.4	9449.9	11957.8	13790.2	14614.3	14724.2	14265.3	12778.7
67.5°	4120.6	4214.3	4637.7	5691.3	8179.8	11805.9	14191.0	15105.6	15137.9	14197.4	12293.9
68°	3907.3	4001.0	4405.0	5381.0	7827.5	11624.9	14181.3	15118.5	15189.6	14123.1	12106.4
70°	2989.4	3096.1	3480.7	4262.8	6308.5	10474.4	13589.9	14808.3	14798.6	13224.7	10943.0
72.5°	1868.0	1929.4	2194.4	2688.9	4172.3	7969.7	11534.4	13059.8	13085.7	10781.4	8393.1
75°	1186.1	1186.1	1173.2	1302.4	2139.5	4540.7	8574.1	10054.2	10073.6	7549.6	5290.5
77.5°	1031.0	1001.9	862.9	730.4	853.2	1764.6	5074.0	6492.8	6386.1	4065.6	2511.1
80°	869.4	820.9	707.8	588.2	549.4	552.6	1948.8	3296.5	3154.3	1464.0	833.8
82.5°	627.0	585.0	533.3	462.2	423.4	329.6	407.2	953.4	930.8	423.4	271.5
85°	339.3	307.0	300.6	303.8	255.3	203.6	171.3	210.1	210.1	184.2	155.1
87.5°	119.6	87.3	103.4	116.3	100.2	84.0	67.9	80.8	84.0	80.8	74.3
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: P1211051

CATALOG NUMBER: ARCH4-150-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7	3202.7
2.5°	3215.7	3248.0	3325.6	3393.4	3441.9	3483.9	3506.5	3516.2	3538.9	3542.1	3535.6
5°	3241.5	3325.6	3441.9	3542.1	3597.0	3619.7	3626.1	3629.3	3619.7	3626.1	3619.7
7.5°	3309.4	3416.0	3580.9	3668.1	3677.8	3642.3	3645.5	3632.6	3645.5	3658.4	3658.4
10°	3412.8	3548.6	3703.7	3736.0	3694.0	3674.6	3713.4	3790.9	3816.8	3852.3	3852.3
12.5°	3548.6	3710.1	3820.0	3790.9	3752.2	3816.8	3929.9	4007.5	4033.3	4046.3	4036.6
15°	3703.7	3878.2	3933.1	3836.2	3907.3	4046.3	4085.0	4039.8	3975.2	3946.1	3962.2
17.5°	3900.8	4046.3	4013.9	3949.3	4110.9	4130.3	4004.2	3858.8	3755.4	3716.6	3742.5
20°	4107.7	4233.7	4085.0	4114.1	4214.3	4007.5	3768.3	3580.9	3490.4	3474.2	3500.1
22.5°	4327.4	4408.2	4156.1	4304.8	4156.1	3736.0	3448.4	3351.4	3328.8	3354.6	3377.3
25°	4576.3	4566.6	4278.9	4363.0	3939.6	3403.1	3231.8	3225.4	3225.4	3241.5	3273.8
27.5°	4857.4	4705.5	4401.8	4285.4	3564.7	3128.4	3096.1	3099.3	3089.6	3092.9	3109.0
30°	5183.9	4893.0	4537.5	4030.1	3144.6	2921.6	2908.6	2899.0	2876.3	2869.9	2876.3
32.5°	5594.3	5090.1	4676.5	3610.0	2776.1	2708.3	2701.8	2650.1	2595.2	2588.7	2611.3
35°	6114.6	5448.9	4747.6	3083.2	2472.4	2469.1	2446.5	2365.7	2294.6	2294.6	2278.4
37.5°	6709.3	5911.0	4776.6	2569.3	2220.3	2236.4	2171.8	2068.4	2013.4	1981.1	1990.8
40°	7316.9	6437.8	4773.4	2120.1	2000.5	2003.7	1955.3	1829.2	1693.5	1612.7	1632.1
42.5°	7901.8	6916.1	4689.4	1880.9	1822.8	1813.1	1774.3	1603.0	1489.9	1425.2	1428.5
45°	8370.4	7410.6	4560.1	1738.7	1661.2	1677.3	1590.1	1486.6	1383.2	1325.1	1321.8
47.5°	8839.1	7785.5	4353.3	1651.5	1541.6	1512.5	1476.9	1405.8	1328.3	1263.6	1266.9
50°	9265.7	8105.4	4159.4	1593.3	1431.7	1357.4	1363.8	1321.8	1254.0	1195.8	1192.5
52.5°	9566.2	8315.5	4052.7	1561.0	1299.2	1218.4	1241.0	1218.4	1153.8	1111.8	1108.5
55°	9866.8	8477.1	4088.3	1519.0	1153.8	1089.1	1127.9	1121.4	1085.9	1073.0	1076.2
57.5°	10109.2	8599.9	4214.3	1441.4	1014.8	976.0	1040.7	1021.3	995.4	998.6	998.6
60°	10345.1	8758.3	4363.0	1263.6	895.2	898.4	959.9	924.3	908.1	937.2	940.5
62.5°	10590.7	8929.6	4240.2	1005.1	791.8	814.4	885.5	856.4	862.9	904.9	917.8
65°	10561.6	8913.4	3454.8	824.1	701.3	746.6	853.2	843.5	846.7	862.9	869.4
67.5°	9967.0	8344.6	2375.4	701.3	636.7	691.6	827.3	788.6	791.8	782.1	785.3
68°	9766.6	8144.2	2094.2	681.9	623.7	678.7	814.4	778.9	782.1	772.4	769.2
70°	8674.2	6974.3	1325.1	601.1	578.5	643.1	749.8	736.9	733.6	727.2	727.2
72.5°	6612.3	5148.3	698.1	520.3	526.8	588.2	669.0	694.8	678.7	681.9	701.3
75°	4379.1	3096.1	484.8	446.0	462.2	504.2	594.7	646.4	630.2	639.9	630.2
77.5°	2317.2	1667.6	387.8	378.1	378.1	407.2	491.2	572.0	572.0	565.6	555.9
80°	759.5	588.2	310.3	297.3	303.8	320.0	394.3	468.6	478.3	465.4	458.9
82.5°	255.3	271.5	232.7	216.5	223.0	235.9	297.3	358.7	362.0	336.1	329.6
85°	158.4	181.0	145.4	142.2	142.2	145.4	181.0	197.1	181.0	161.6	168.1
87.5°	74.3	90.5	67.9	58.2	48.5	42.0	32.3	12.9	12.9	6.5	6.5
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)