

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: P1210539

Luminaire Tested: **ARCH3-150-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210539
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: ARCH3-150-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21681 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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

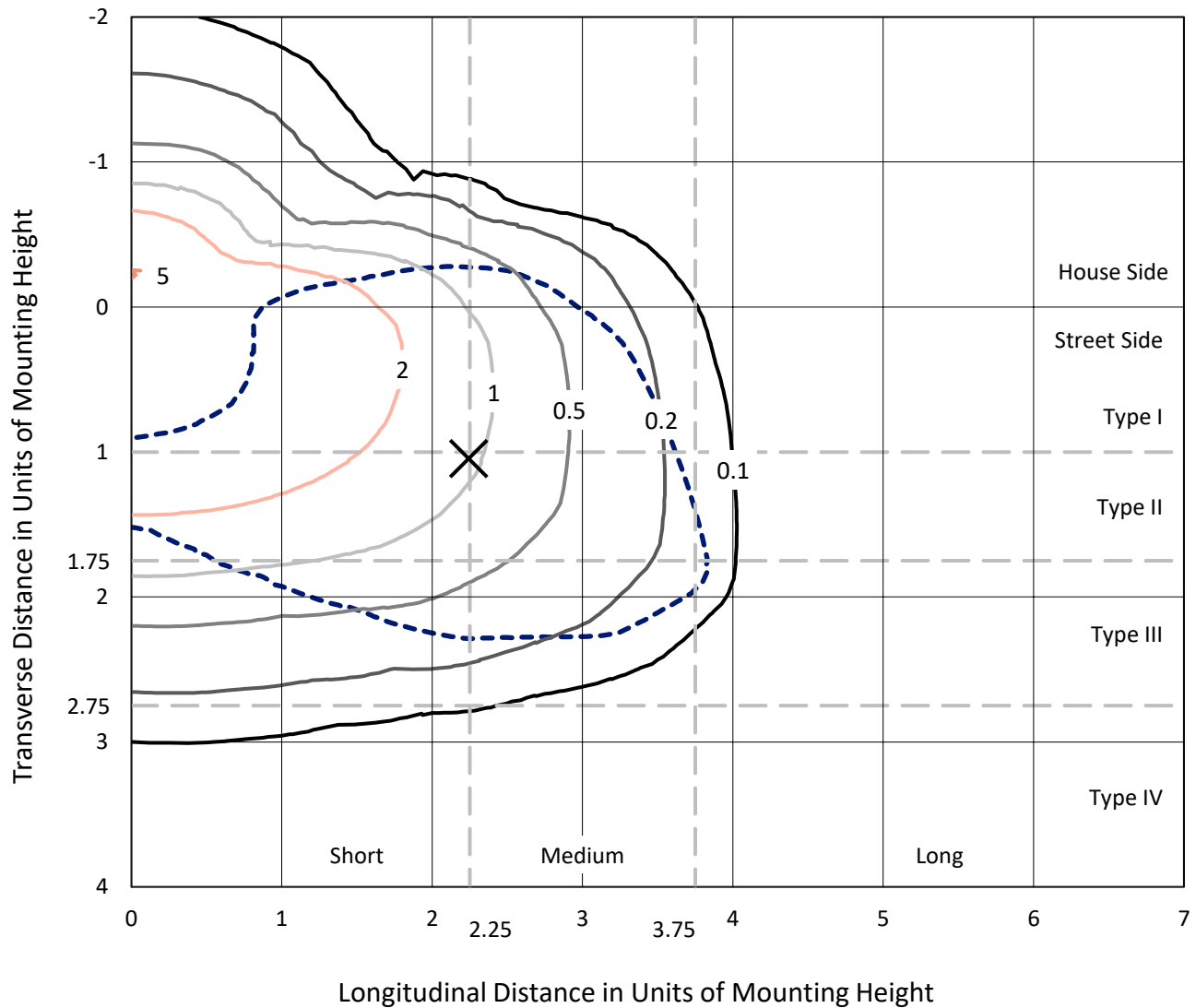


REPORT NUMBER: P1210539

CATALOG NUMBER: ARCH3-150-750-U-T3RE

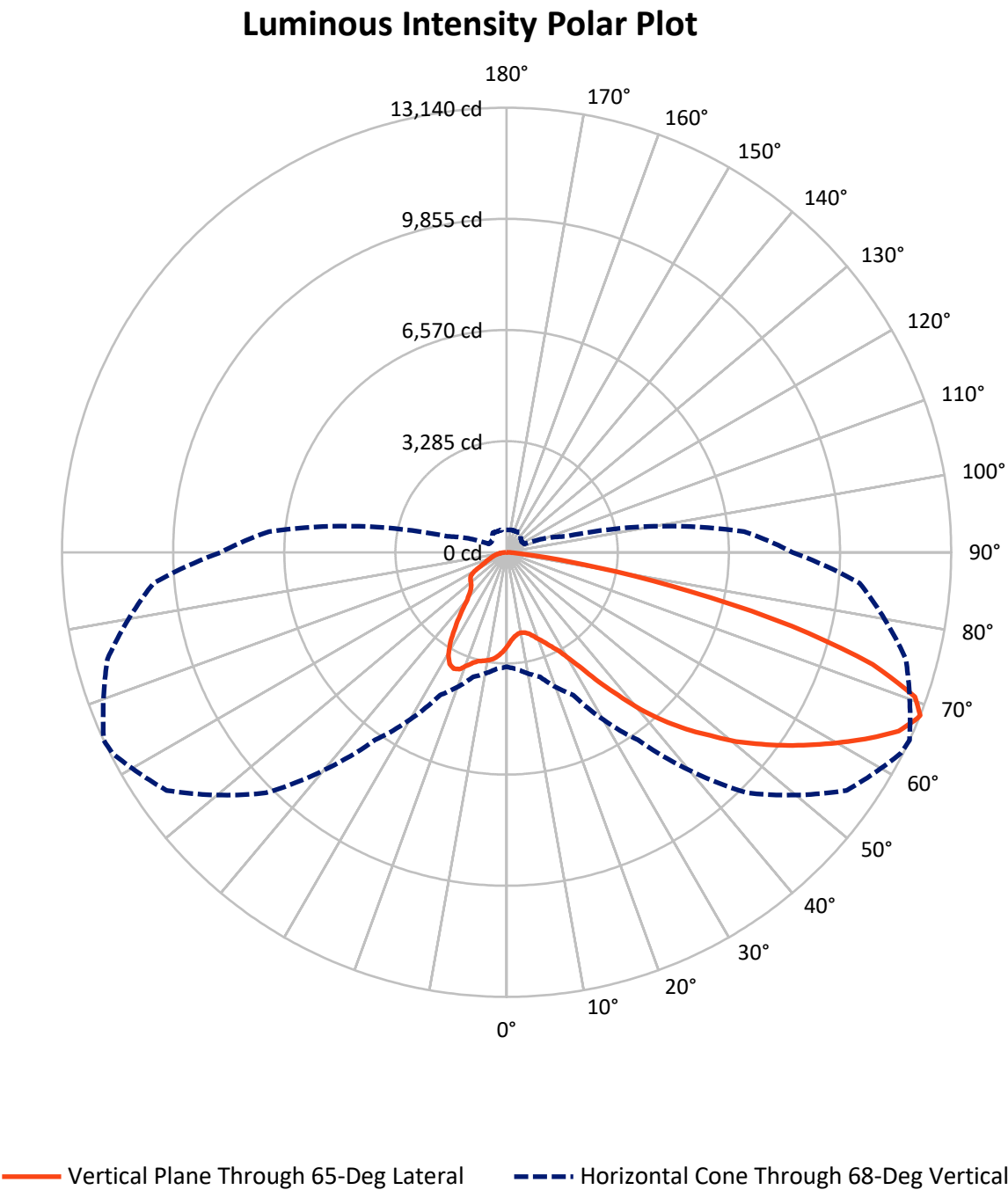
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Short - N/A

REPORT NUMBER: P1210539
CATALOG NUMBER: ARCH3-150-750-U-T3RE



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5315.5	0.0	5315.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16365.5	0.0	16365.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	21681.0	0.0	21681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.2
10°-20°	862.1	4.0
20°-30°	1560.4	7.2
30°-40°	2454.6	11.3
40°-50°	3655.9	16.9
50°-60°	4795.8	22.1
60°-70°	5244.6	24.2
70°-80°	2595.2	12.0
80°-90°	247.6	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°	21681.0	100.0
0°-180°	21681.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210539

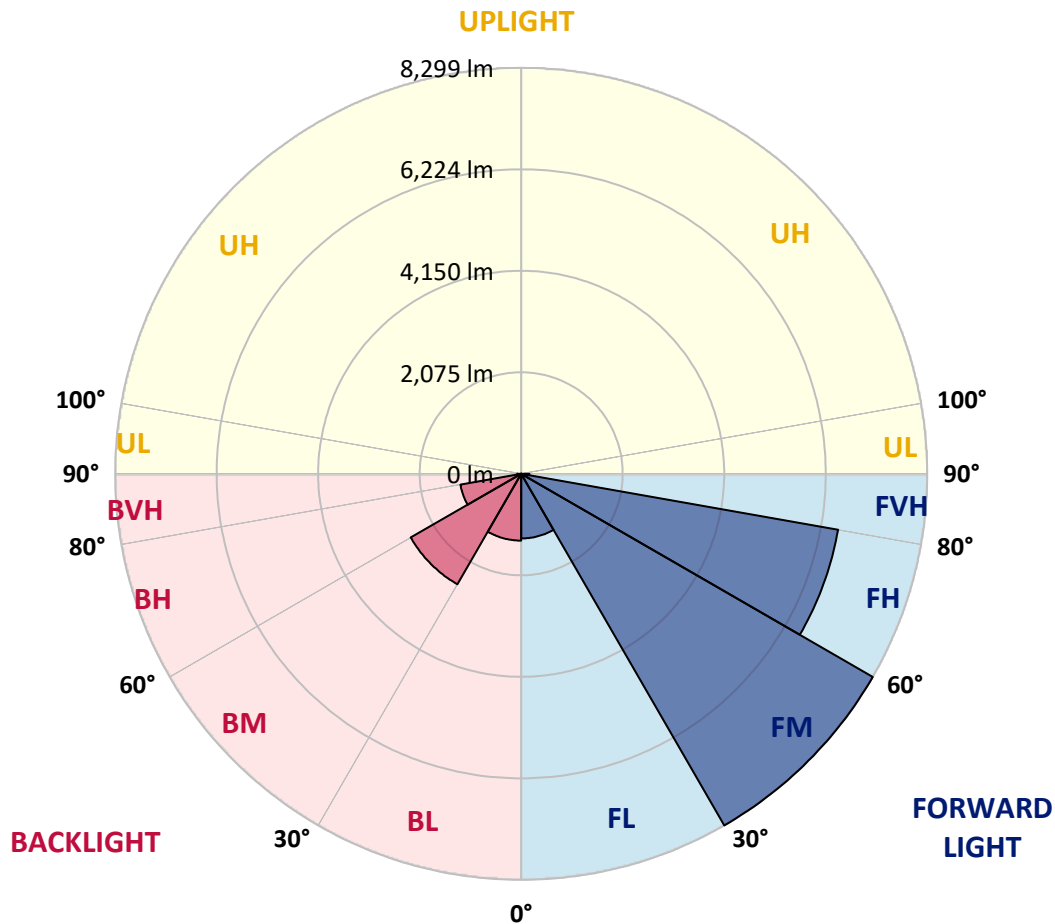
CATALOG NUMBER: ARCH3-150-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.7	6.1			
FM	(30°-60°)	8299.2	38.3			
FH	(60°-80°)	6578.1	30.3			G3/7500
FVH	(80°-90°)	166.5	0.8			G2/225
BL	(0°-30°)	1365.6	6.3	B3/2500		
BM	(30°-60°)	2607.2	12.0	B3/5000		
BH	(60°-80°)	1261.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	81.1	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 Short



REPORT NUMBER: P1210539

CATALOG NUMBER: ARCH3-150-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6
2.5°	2418.3	2412.7	2426.7	2440.7	2471.4	2507.8	2558.1	2600.0	2605.6	2683.9	2745.4
5°	2275.7	2267.3	2281.3	2298.1	2312.1	2356.8	2409.9	2471.4	2496.6	2611.2	2742.6
7.5°	2289.7	2286.9	2292.5	2286.9	2286.9	2306.5	2342.8	2404.3	2432.3	2569.3	2756.6
10°	2370.8	2376.4	2379.2	2362.4	2345.6	2337.2	2348.4	2390.3	2409.9	2572.1	2818.1
12.5°	2505.0	2513.4	2516.2	2485.4	2463.0	2426.7	2407.1	2423.9	2437.9	2600.0	2904.8
15°	2686.7	2692.3	2672.7	2653.1	2597.2	2552.5	2505.0	2491.0	2496.6	2658.7	3002.6
17.5°	2899.2	2890.8	2890.8	2843.3	2770.6	2700.7	2622.4	2611.2	2611.2	2753.8	3142.4
20°	3131.2	3139.6	3114.4	3050.1	2977.5	2868.4	2790.1	2739.8	2745.4	2862.8	3312.9
22.5°	3466.7	3480.7	3413.6	3321.3	3209.5	3083.7	2971.9	2890.8	2893.6	3005.4	3489.1
25°	3827.4	3832.9	3791.0	3668.0	3517.0	3338.1	3189.9	3086.5	3083.7	3164.8	3715.5
27.5°	4196.4	4221.6	4137.7	4020.3	3880.5	3656.8	3461.1	3321.3	3299.0	3408.0	3997.9
30°	4576.6	4607.4	4526.3	4411.7	4238.3	4048.2	3816.2	3654.0	3640.0	3785.4	4375.3
32.5°	4959.6	4968.0	4903.7	4808.7	4652.1	4473.2	4285.9	4106.9	4092.9	4330.6	4864.6
35°	5272.7	5297.9	5253.2	5230.8	5116.2	4951.2	4769.5	4666.1	4702.4	5007.2	5499.2
37.5°	5650.2	5675.3	5625.0	5619.4	5583.1	5440.5	5314.7	5323.1	5359.4	5773.2	6167.4
40°	6195.3	6223.3	6094.7	6038.8	6038.8	5899.0	5857.1	6055.6	6103.1	6528.0	6863.5
42.5°	6656.6	6701.4	6625.9	6589.5	6480.5	6382.7	6433.0	6712.5	6793.6	7249.3	7470.2
45°	6880.3	6913.8	7003.3	7109.5	7003.3	6832.8	7022.9	7338.8	7453.4	7914.7	8076.9
47.5°	7000.5	7031.3	7134.7	7419.9	7492.6	7350.0	7618.4	8012.6	8090.8	8574.5	8655.6
50°	7017.3	7115.1	7249.3	7534.5	7867.2	7886.8	8216.6	8697.5	8789.8	9223.1	9164.4
52.5°	6880.3	6919.4	7196.2	7677.1	8046.1	8381.6	8868.1	9354.5	9421.6	9832.6	9614.5
55°	6656.6	6712.5	6989.3	7643.5	8219.4	8851.3	9530.6	10000.3	10075.8	10425.3	10031.1
57.5°	6455.3	6483.3	6779.6	7545.7	8392.8	9321.0	10120.5	10674.1	10724.4	10945.3	10338.6
60°	6231.7	6262.4	6558.8	7336.0	8521.4	9676.0	10735.6	11353.5	11398.2	11493.2	10696.5
62.5°	5653.0	5734.0	6105.9	6989.3	8487.8	10081.4	11392.6	12024.4	12080.3	11976.9	10978.8
65°	4590.6	4705.2	5160.9	6203.7	8174.7	10344.2	11929.4	12642.3	12737.3	12340.4	11054.3
67.5°	3564.6	3645.6	4011.9	4923.3	7076.0	10212.8	12276.0	13067.2	13095.2	12281.6	10635.0
68°	3380.0	3461.1	3810.6	4654.9	6771.3	10056.2	12267.7	13078.4	13139.9	12217.3	10472.8
70°	2586.1	2678.3	3011.0	3687.6	5457.3	9061.0	11756.0	12810.0	12801.6	11440.1	9466.3
72.5°	1615.9	1669.1	1898.3	2326.0	3609.3	6894.3	9978.0	11297.5	11319.9	9326.6	7260.5
75°	1026.0	1026.0	1014.8	1126.7	1850.8	3928.0	7417.1	8697.5	8714.3	6530.8	4576.6
77.5°	891.8	866.7	746.5	631.8	738.1	1526.5	4389.3	5616.6	5524.4	3517.0	2172.3
80°	752.1	710.1	612.3	508.8	475.3	478.1	1685.8	2851.6	2728.6	1266.5	721.3
82.5°	542.4	506.0	461.3	399.8	366.2	285.2	352.3	824.7	805.2	366.2	234.8
85°	293.6	265.6	260.0	262.8	220.9	176.1	148.2	181.7	181.7	159.4	134.2
87.5°	103.4	75.5	89.5	100.6	86.7	72.7	58.7	69.9	72.7	69.9	64.3
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: P1210539

CATALOG NUMBER: ARCH3-150-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6	2770.6
2.5°	2781.8	2809.7	2876.8	2935.5	2977.5	3013.8	3033.4	3041.8	3061.3	3064.1	3058.5
5°	2804.1	2876.8	2977.5	3064.1	3111.6	3131.2	3136.8	3139.6	3131.2	3136.8	3131.2
7.5°	2862.8	2955.1	3097.7	3173.2	3181.5	3150.8	3153.6	3142.4	3153.6	3164.8	3164.8
10°	2952.3	3069.7	3203.9	3231.9	3195.5	3178.7	3212.3	3279.4	3301.8	3332.5	3332.5
12.5°	3069.7	3209.5	3304.6	3279.4	3245.8	3301.8	3399.6	3466.7	3489.1	3500.3	3491.9
15°	3203.9	3354.9	3402.4	3318.5	3380.0	3500.3	3533.8	3494.7	3438.7	3413.6	3427.6
17.5°	3374.4	3500.3	3472.3	3416.4	3556.2	3572.9	3463.9	3338.1	3248.6	3215.1	3237.5
20°	3553.4	3662.4	3533.8	3559.0	3645.6	3466.7	3259.8	3097.7	3019.4	3005.4	3027.8
22.5°	3743.5	3813.4	3595.3	3723.9	3595.3	3231.9	2983.0	2899.2	2879.6	2902.0	2921.5
25°	3958.8	3950.4	3701.5	3774.2	3408.0	2943.9	2795.7	2790.1	2790.1	2804.1	2832.1
27.5°	4202.0	4070.6	3807.8	3707.1	3083.7	2706.3	2678.3	2681.1	2672.7	2675.5	2689.5
30°	4484.4	4232.7	3925.2	3486.3	2720.2	2527.3	2516.2	2507.8	2488.2	2482.6	2488.2
32.5°	4839.4	4403.3	4045.4	3122.8	2401.5	2342.8	2337.2	2292.5	2245.0	2239.4	2258.9
35°	5289.5	4713.6	4106.9	2667.1	2138.7	2135.9	2116.4	2046.5	1985.0	1985.0	1971.0
37.5°	5803.9	5113.4	4132.1	2222.6	1920.7	1934.6	1878.7	1789.3	1741.7	1713.8	1722.2
40°	6329.5	5569.1	4129.3	1834.0	1730.6	1733.4	1691.4	1582.4	1465.0	1395.1	1411.8
42.5°	6835.6	5982.9	4056.6	1627.1	1576.8	1568.4	1534.9	1386.7	1288.8	1232.9	1235.7
45°	7240.9	6410.6	3944.8	1504.1	1437.0	1451.0	1375.5	1286.0	1196.6	1146.2	1143.5
47.5°	7646.3	6734.9	3765.8	1428.6	1333.6	1308.4	1277.6	1216.1	1149.0	1093.1	1095.9
50°	8015.4	7011.7	3598.1	1378.3	1238.5	1174.2	1179.8	1143.5	1084.7	1034.4	1031.6
52.5°	8275.4	7193.4	3505.8	1350.3	1123.9	1054.0	1073.6	1054.0	998.1	961.7	958.9
55°	8535.4	7333.2	3536.6	1314.0	998.1	942.2	975.7	970.1	939.4	928.2	931.0
57.5°	8745.0	7439.4	3645.6	1246.9	877.9	844.3	900.2	883.5	861.1	863.9	863.9
60°	8949.1	7576.4	3774.2	1093.1	774.4	777.2	830.3	799.6	785.6	810.8	813.6
62.5°	9161.6	7724.6	3668.0	869.5	685.0	704.5	766.0	740.9	746.5	782.8	794.0
65°	9136.4	7710.6	2988.6	712.9	606.7	645.8	738.1	729.7	732.5	746.5	752.1
67.5°	8622.0	7218.6	2054.9	606.7	550.8	598.3	715.7	682.2	685.0	676.6	679.4
68°	8448.7	7045.2	1811.6	589.9	539.6	587.1	704.5	673.8	676.6	668.2	665.4
70°	7503.7	6033.2	1146.2	520.0	500.4	556.4	648.6	637.4	634.6	629.0	629.0
72.5°	5720.1	4453.6	603.9	450.1	455.7	508.8	578.7	601.1	587.1	589.9	606.7
75°	3788.2	2678.3	419.4	385.8	399.8	436.1	514.4	559.1	545.2	553.6	545.2
77.5°	2004.5	1442.6	335.5	327.1	327.1	352.3	425.0	494.8	494.8	489.3	480.9
80°	657.0	508.8	268.4	257.2	262.8	276.8	341.1	405.4	413.8	402.6	397.0
82.5°	220.9	234.8	201.3	187.3	192.9	204.1	257.2	310.3	313.1	290.8	285.2
85°	137.0	156.6	125.8	123.0	123.0	125.8	156.6	170.5	156.6	139.8	145.4
87.5°	64.3	78.3	58.7	50.3	41.9	36.3	28.0	11.2	11.2	5.6	5.6
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)