

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: P1210955

Luminaire Tested: **ARCH4-120-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210955
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: ARCH4-120-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20841 lumens
Efficiency: N/A
Efficacy: 170.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
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

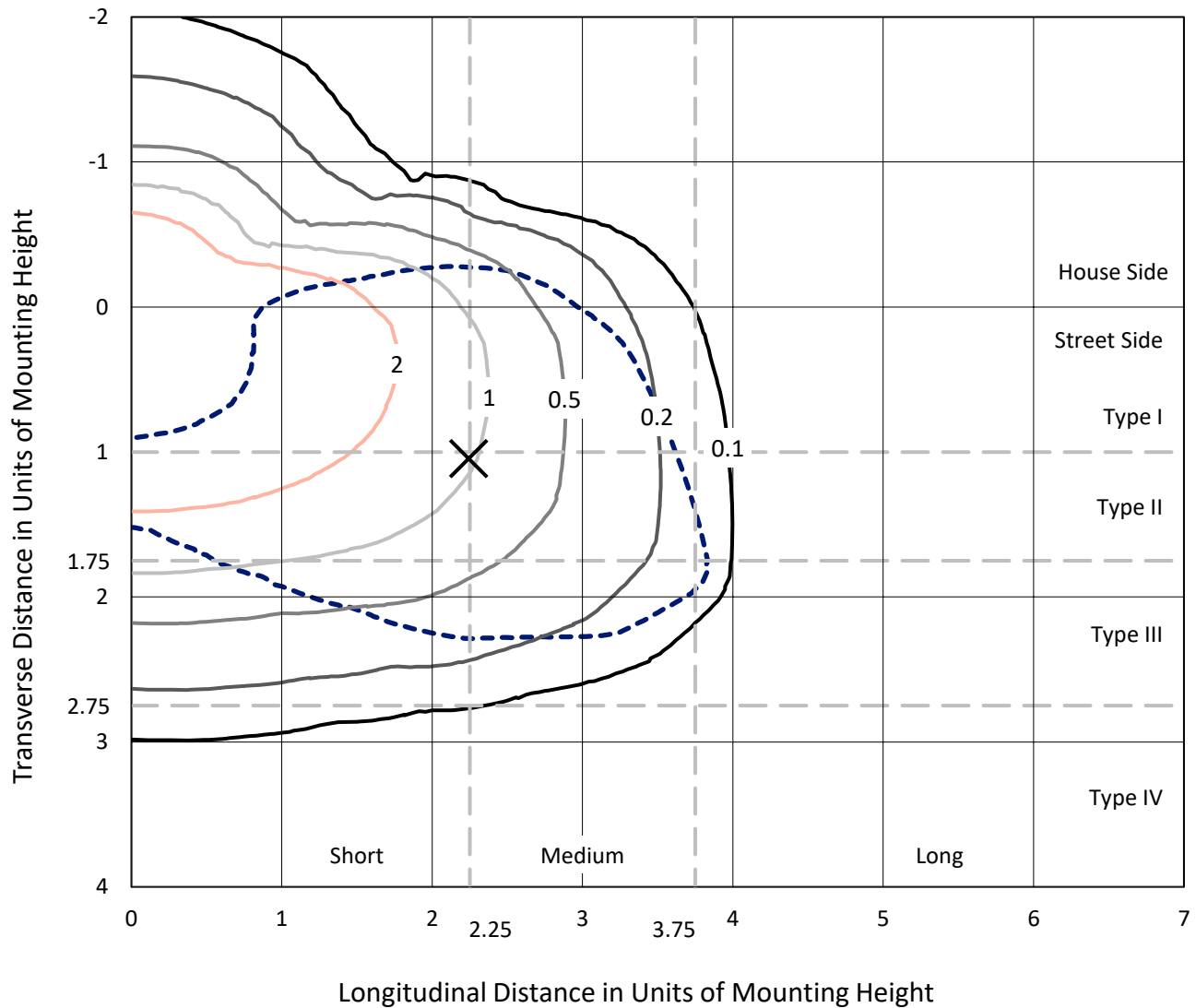


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Iso-Footcandle Lines of Horizontal Illumination

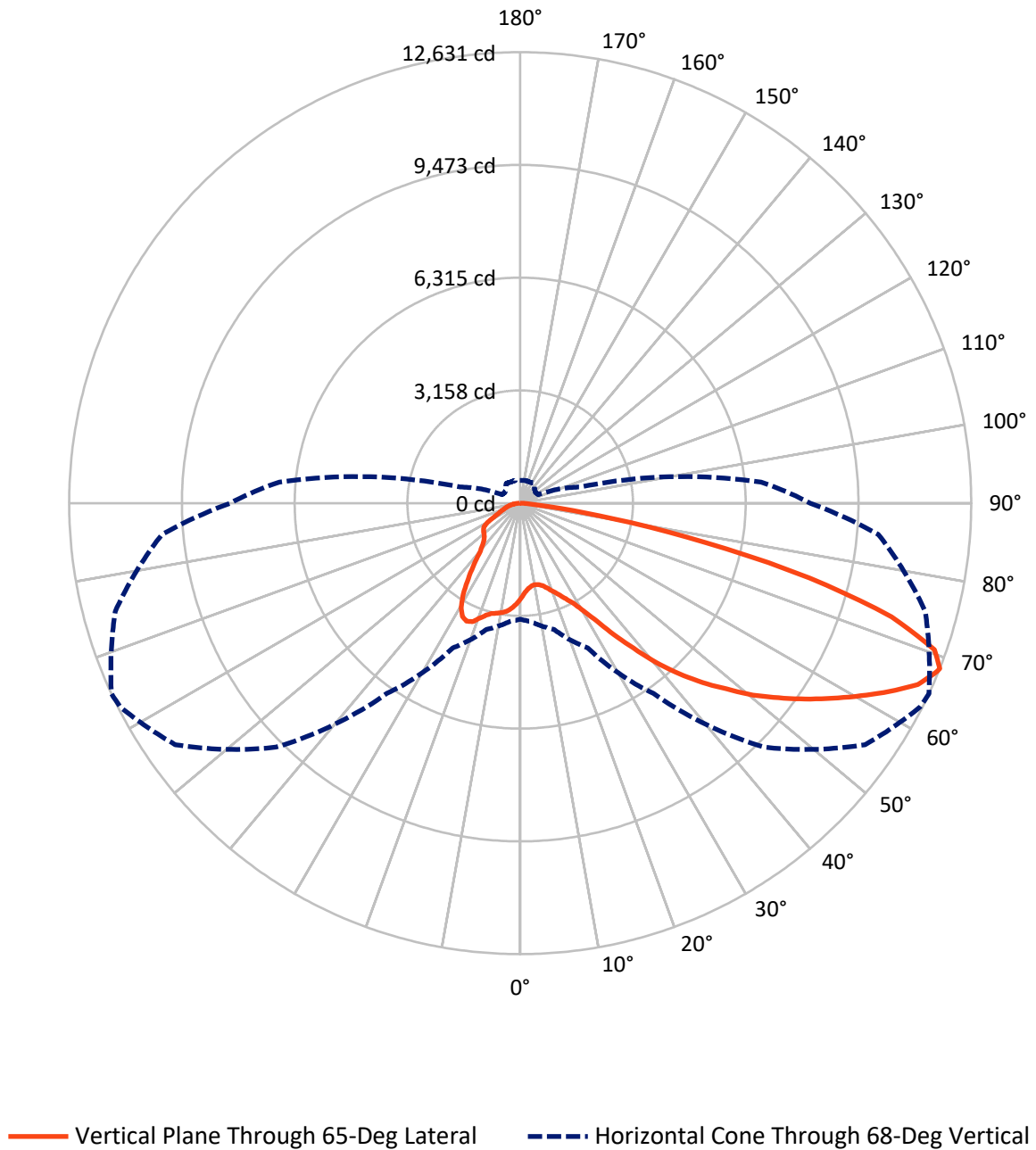
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5109.6	0.0	5109.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15731.4	0.0	15731.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	20841.0	0.0	20841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	1.2
10°-20°	828.7	4.0
20°-30°	1499.9	7.2
30°-40°	2359.5	11.3
40°-50°	3514.3	16.9
50°-60°	4610.0	22.1
60°-70°	5041.4	24.2
70°-80°	2494.6	12.0
80°-90°	238.0	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°	20841.0	100.0
0°-180°	20841.0	100.0

Coefficient of Utilization



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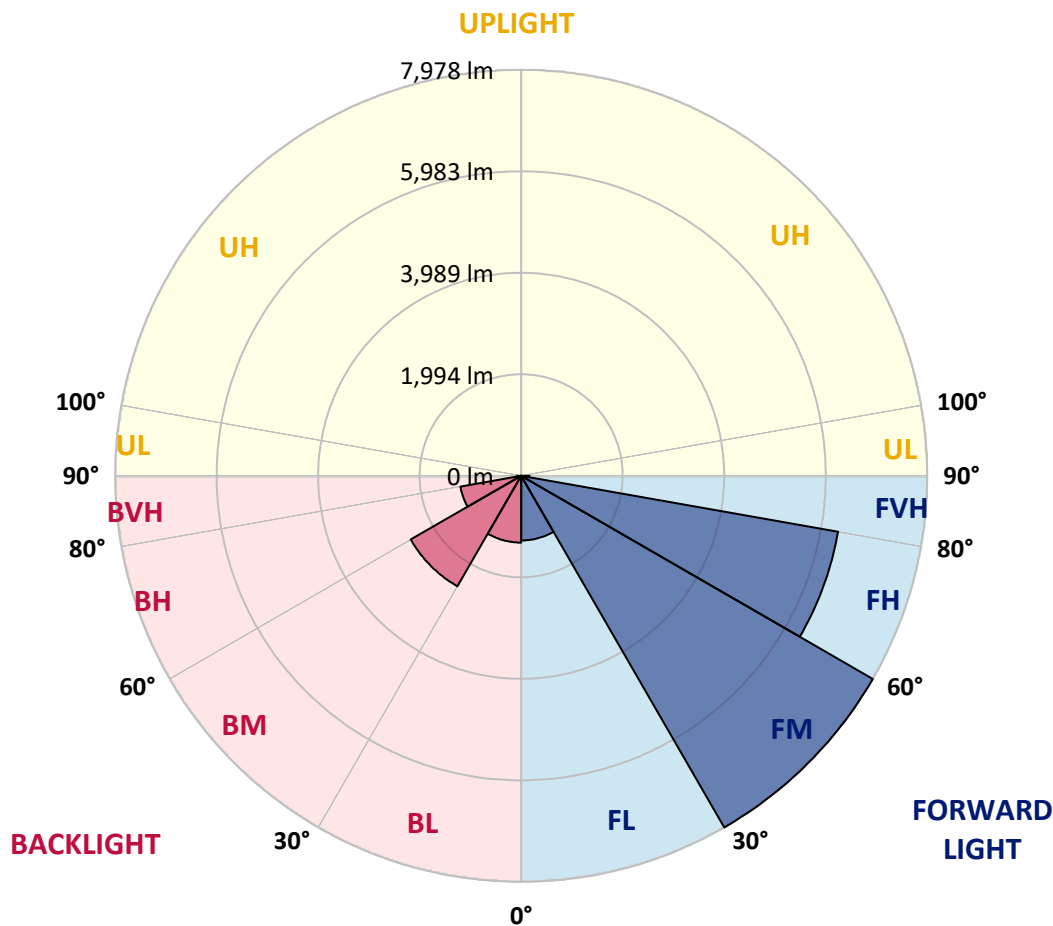
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.5	6.1			
FM	(30°-60°)	7977.6	38.3			
FH	(60°-80°)	6323.2	30.3			G3/7500
FVH	(80°-90°)	160.0	0.8			G2/225
BL	(0°-30°)	1312.7	6.3	B3/2500		
BM	(30°-60°)	2506.2	12.0	B3/5000		
BH	(60°-80°)	1212.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	77.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2
2.5°	2324.6	2319.2	2332.7	2346.1	2375.7	2410.6	2459.0	2499.3	2504.7	2579.9	2639.0
5°	2187.6	2179.5	2192.9	2209.1	2222.5	2265.5	2316.6	2375.7	2399.9	2510.0	2636.4
7.5°	2201.0	2198.3	2203.7	2198.3	2198.3	2217.1	2252.1	2311.2	2338.0	2469.7	2649.8
10°	2278.9	2284.3	2287.0	2270.9	2254.7	2246.7	2257.4	2297.7	2316.6	2472.4	2708.9
12.5°	2407.9	2416.0	2418.7	2389.1	2367.6	2332.7	2313.9	2330.0	2343.4	2499.3	2792.2
15°	2582.6	2588.0	2569.2	2550.4	2496.6	2453.6	2407.9	2394.5	2399.9	2555.7	2886.3
17.5°	2786.8	2778.8	2778.8	2733.1	2663.2	2596.0	2520.8	2510.0	2510.0	2647.1	3020.7
20°	3009.9	3018.0	2993.8	2932.0	2862.1	2757.3	2682.0	2633.7	2639.0	2751.9	3184.6
22.5°	3332.4	3345.8	3281.3	3192.6	3085.2	2964.2	2856.7	2778.8	2781.5	2889.0	3353.9
25°	3679.1	3684.4	3644.1	3525.9	3380.8	3208.8	3066.3	2966.9	2964.2	3042.2	3571.6
27.5°	4033.8	4058.0	3977.4	3864.5	3730.1	3515.1	3327.0	3192.6	3171.1	3276.0	3843.0
30°	4399.3	4428.9	4350.9	4240.7	4074.1	3891.4	3668.3	3512.4	3499.0	3638.8	4205.8
32.5°	4767.5	4775.5	4713.7	4622.4	4471.9	4299.9	4119.8	3947.8	3934.4	4162.8	4676.1
35°	5068.5	5092.6	5049.6	5028.1	4918.0	4759.4	4584.7	4485.3	4520.2	4813.2	5286.1
37.5°	5431.3	5455.4	5407.1	5401.7	5366.8	5229.7	5108.8	5116.8	5151.8	5549.5	5928.4
40°	5955.3	5982.2	5858.6	5804.8	5804.8	5670.4	5630.1	5820.9	5866.6	6275.1	6597.6
42.5°	6398.7	6441.7	6369.2	6334.2	6229.4	6135.4	6183.7	6452.5	6530.4	6968.5	7180.8
45°	6613.7	6646.0	6732.0	6834.1	6732.0	6568.0	6750.8	7054.5	7164.6	7608.1	7763.9
47.5°	6729.3	6758.8	6858.3	7132.4	7202.3	7065.2	7323.2	7702.1	7777.4	8242.3	8320.2
50°	6745.4	6839.5	6968.5	7242.6	7562.4	7581.2	7898.3	8360.5	8449.2	8865.8	8809.3
52.5°	6613.7	6651.3	6917.4	7379.6	7734.4	8056.9	8524.5	8992.1	9056.6	9451.6	9242.0
55°	6398.7	6452.5	6718.5	7347.4	7901.0	8508.3	9161.4	9612.9	9685.4	10021.4	9642.4
57.5°	6205.2	6232.1	6517.0	7253.3	8067.6	8959.8	9728.4	10260.5	10308.9	10521.2	9938.1
60°	5990.2	6019.8	6304.7	7051.8	8191.2	9301.1	10319.7	10913.6	10956.6	11048.0	10282.0
62.5°	5433.9	5511.9	5869.3	6718.5	8159.0	9690.8	10951.2	11558.6	11612.3	11512.9	10553.5
65°	4412.7	4522.9	4961.0	5963.4	7858.0	9943.4	11467.2	12152.5	12243.9	11862.2	10626.0
67.5°	3426.5	3504.4	3856.4	4732.5	6801.8	9817.1	11800.4	12561.0	12587.8	11805.8	10222.9
68°	3249.1	3327.0	3662.9	4474.5	6508.9	9666.6	11792.4	12571.7	12630.8	11744.0	10067.0
70°	2485.9	2574.5	2894.3	3544.7	5245.8	8709.9	11300.6	12313.7	12305.7	10996.9	9099.6
72.5°	1553.3	1604.4	1824.8	2235.9	3469.5	6627.2	9591.4	10859.8	10881.3	8965.2	6979.2
75°	986.3	986.3	975.5	1083.0	1779.1	3775.8	7129.7	8360.5	8376.7	6277.8	4399.3
77.5°	857.3	833.1	717.5	607.4	709.5	1467.3	4219.2	5399.0	5310.3	3380.8	2088.1
80°	722.9	682.6	588.5	489.1	456.9	459.5	1620.5	2741.2	2622.9	1217.4	693.4
82.5°	521.4	486.4	443.4	384.3	352.1	274.1	338.6	792.8	774.0	352.1	225.7
85°	282.2	255.3	249.9	252.6	212.3	169.3	142.4	174.7	174.7	153.2	129.0
87.5°	99.4	72.6	86.0	96.7	83.3	69.9	56.4	67.2	69.9	67.2	61.8
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°	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2
2.5°	2674.0	2700.9	2765.3	2821.8	2862.1	2897.0	2915.8	2923.9	2942.7	2945.4	2940.0
5°	2695.5	2765.3	2862.1	2945.4	2991.1	3009.9	3015.3	3018.0	3009.9	3015.3	3009.9
7.5°	2751.9	2840.6	2977.7	3050.2	3058.3	3028.7	3031.4	3020.7	3031.4	3042.2	3042.2
10°	2837.9	2950.8	3079.8	3106.6	3071.7	3055.6	3087.8	3152.3	3173.8	3203.4	3203.4
12.5°	2950.8	3085.2	3176.5	3152.3	3120.1	3173.8	3267.9	3332.4	3353.9	3364.6	3356.6
15°	3079.8	3224.9	3270.6	3190.0	3249.1	3364.6	3396.9	3359.3	3305.5	3281.3	3294.8
17.5°	3243.7	3364.6	3337.8	3284.0	3418.4	3434.5	3329.7	3208.8	3122.8	3090.5	3112.0
20°	3415.7	3520.5	3396.9	3421.1	3504.4	3332.4	3133.5	2977.7	2902.4	2889.0	2910.5
22.5°	3598.4	3665.6	3456.0	3579.6	3456.0	3106.6	2867.5	2786.8	2768.0	2789.5	2808.3
25°	3805.4	3797.3	3558.1	3628.0	3276.0	2829.8	2687.4	2682.0	2682.0	2695.5	2722.3
27.5°	4039.2	3912.9	3660.3	3563.5	2964.2	2601.4	2574.5	2577.2	2569.2	2571.9	2585.3
30°	4310.6	4068.7	3773.1	3351.2	2614.9	2429.4	2418.7	2410.6	2391.8	2386.4	2391.8
32.5°	4651.9	4232.7	3888.7	3001.8	2308.5	2252.1	2246.7	2203.7	2158.0	2152.6	2171.4
35°	5084.6	4531.0	3947.8	2563.8	2055.9	2053.2	2034.4	1967.2	1908.1	1908.1	1894.6
37.5°	5579.1	4915.3	3972.0	2136.5	1846.3	1859.7	1805.9	1719.9	1674.3	1647.4	1655.4
40°	6084.3	5353.3	3969.3	1762.9	1663.5	1666.2	1625.9	1521.1	1408.2	1341.0	1357.1
42.5°	6570.7	5751.1	3899.4	1564.1	1515.7	1507.6	1475.4	1333.0	1238.9	1185.1	1187.8
45°	6960.4	6162.2	3791.9	1445.8	1381.3	1394.8	1322.2	1236.2	1150.2	1101.8	1099.2
47.5°	7350.1	6474.0	3619.9	1373.3	1281.9	1257.7	1228.1	1169.0	1104.5	1050.8	1053.5
50°	7704.8	6740.0	3458.7	1324.9	1190.5	1128.7	1134.1	1099.2	1042.7	994.3	991.7
52.5°	7954.7	6914.7	3370.0	1298.0	1080.3	1013.2	1032.0	1013.2	959.4	924.5	921.8
55°	8204.7	7049.1	3399.6	1263.1	959.4	905.7	937.9	932.5	903.0	892.2	894.9
57.5°	8406.2	7151.2	3504.4	1198.6	843.8	811.6	865.3	849.2	827.7	830.4	830.4
60°	8602.4	7282.9	3628.0	1050.8	744.4	747.1	798.2	768.6	755.2	779.3	782.0
62.5°	8806.7	7425.3	3525.9	835.8	658.4	677.2	736.4	712.2	717.5	752.5	763.2
65°	8782.5	7411.9	2872.8	685.3	583.2	620.8	709.5	701.4	704.1	717.5	722.9
67.5°	8288.0	6938.9	1975.2	583.2	529.4	575.1	688.0	655.7	658.4	650.4	653.0
68°	8121.4	6772.3	1741.4	567.0	518.7	564.4	677.2	647.7	650.4	642.3	639.6
70°	7213.0	5799.4	1101.8	499.9	481.0	534.8	623.5	612.7	610.0	604.7	604.7
72.5°	5498.4	4281.0	580.5	432.7	438.0	489.1	556.3	577.8	564.4	567.0	583.2
75°	3641.4	2574.5	403.1	370.9	384.3	419.2	494.5	537.5	524.0	532.1	524.0
77.5°	1926.9	1386.7	322.5	314.4	314.4	338.6	408.5	475.7	475.7	470.3	462.2
80°	631.5	489.1	258.0	247.2	252.6	266.1	327.9	389.7	397.7	387.0	381.6
82.5°	212.3	225.7	193.5	180.1	185.4	196.2	247.2	298.3	301.0	279.5	274.1
85°	131.7	150.5	120.9	118.2	118.2	120.9	150.5	163.9	150.5	134.4	139.7
87.5°	61.8	75.2	56.4	48.4	40.3	34.9	26.9	10.7	10.7	5.4	5.4
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)