

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: P1210507

Luminaire Tested: **ARCH3-140-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210507
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: ARCH3-140-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20819 lumens
Efficiency: N/A
Efficacy: 146.1 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): 142.5
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



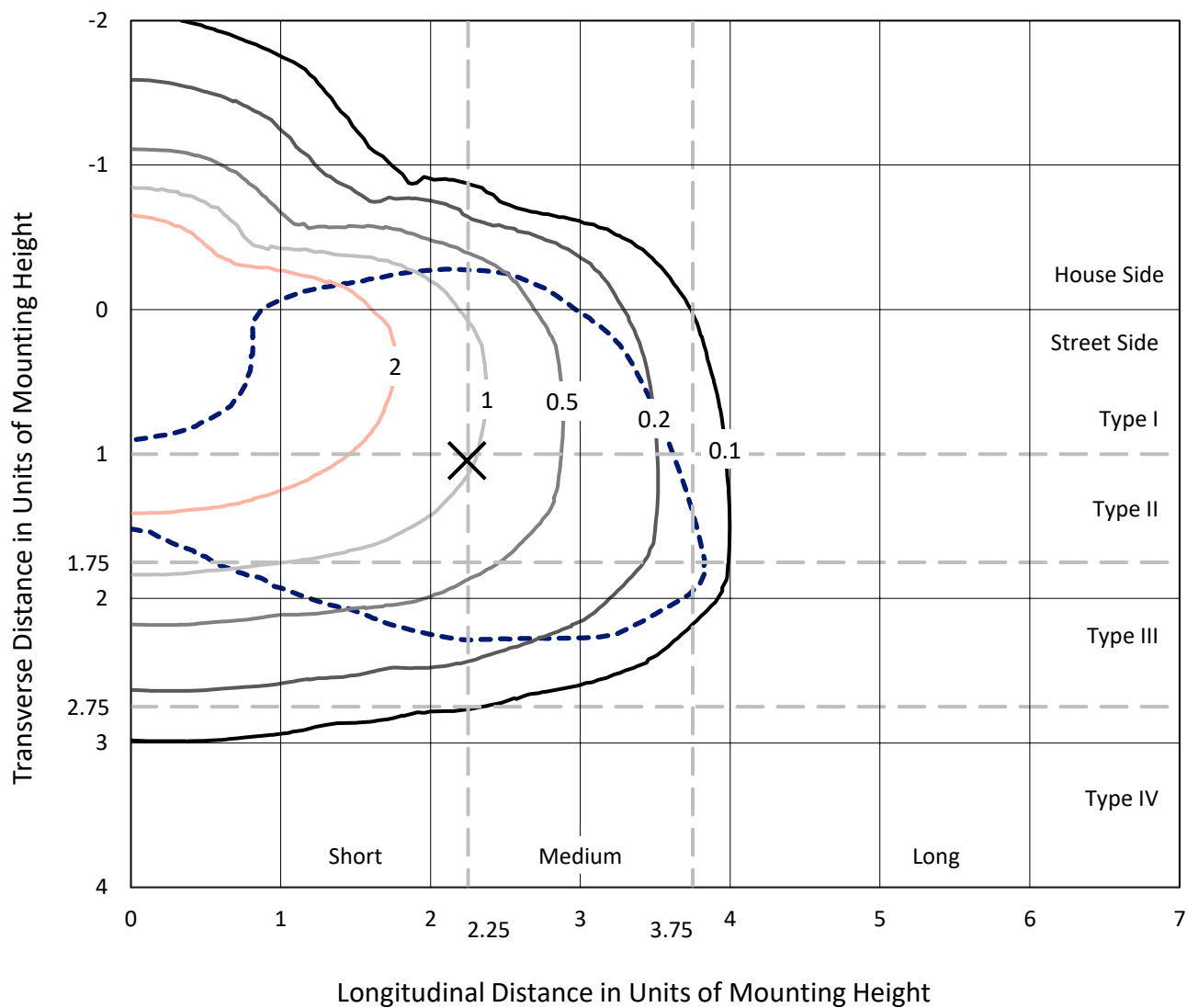
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

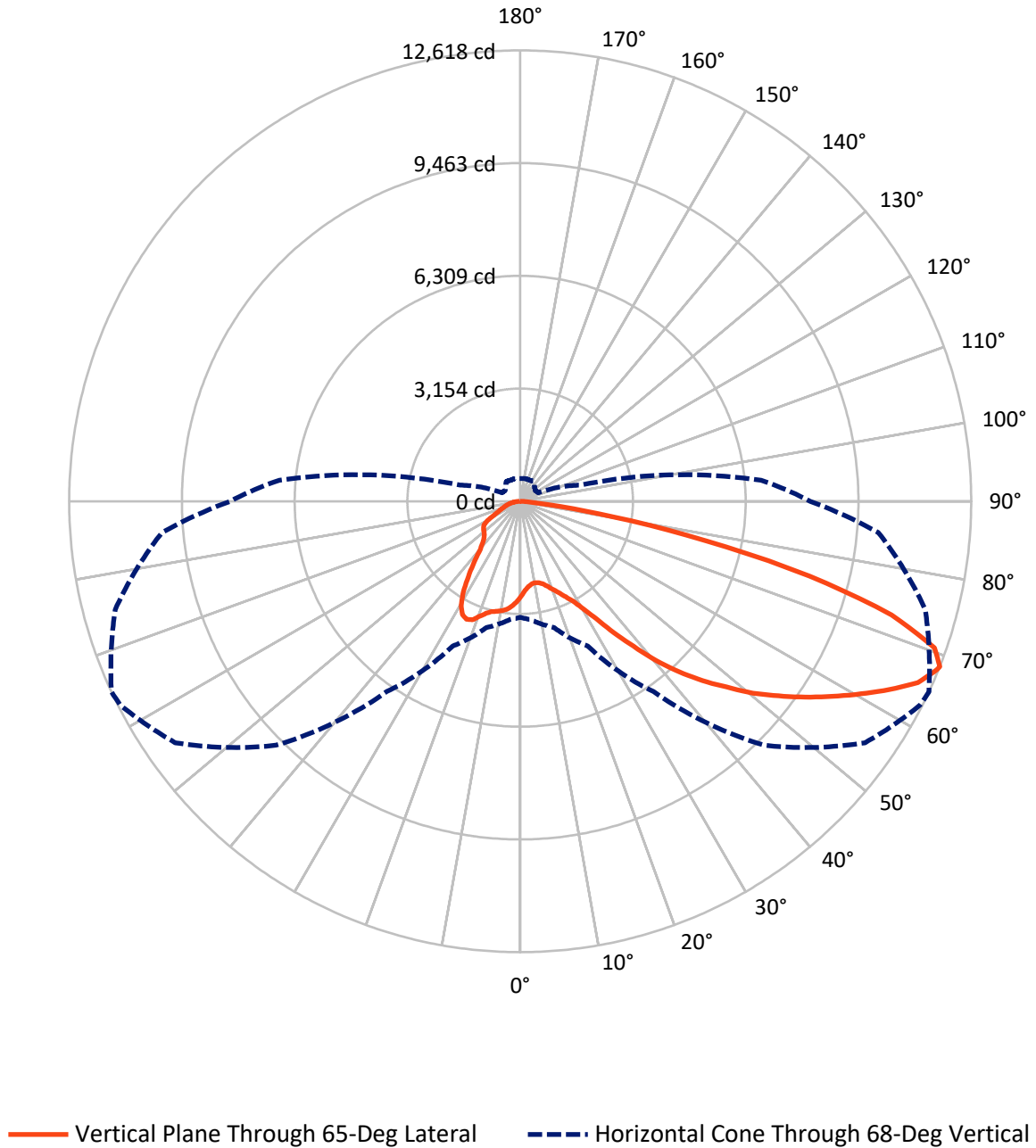
--- 1/2 Max cd



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	5104.2	0.0	5104.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15714.8	0.0	15714.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	20819.0	0.0	20819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	1.2
10°-20°	827.9	4.0
20°-30°	1498.3	7.2
30°-40°	2357.1	11.3
40°-50°	3510.6	16.9
50°-60°	4605.2	22.1
60°-70°	5036.1	24.2
70°-80°	2492.0	12.0
80°-90°	237.7	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°	20819.0	100.0
0°-180°	20819.0	100.0

Coefficient of Utilization



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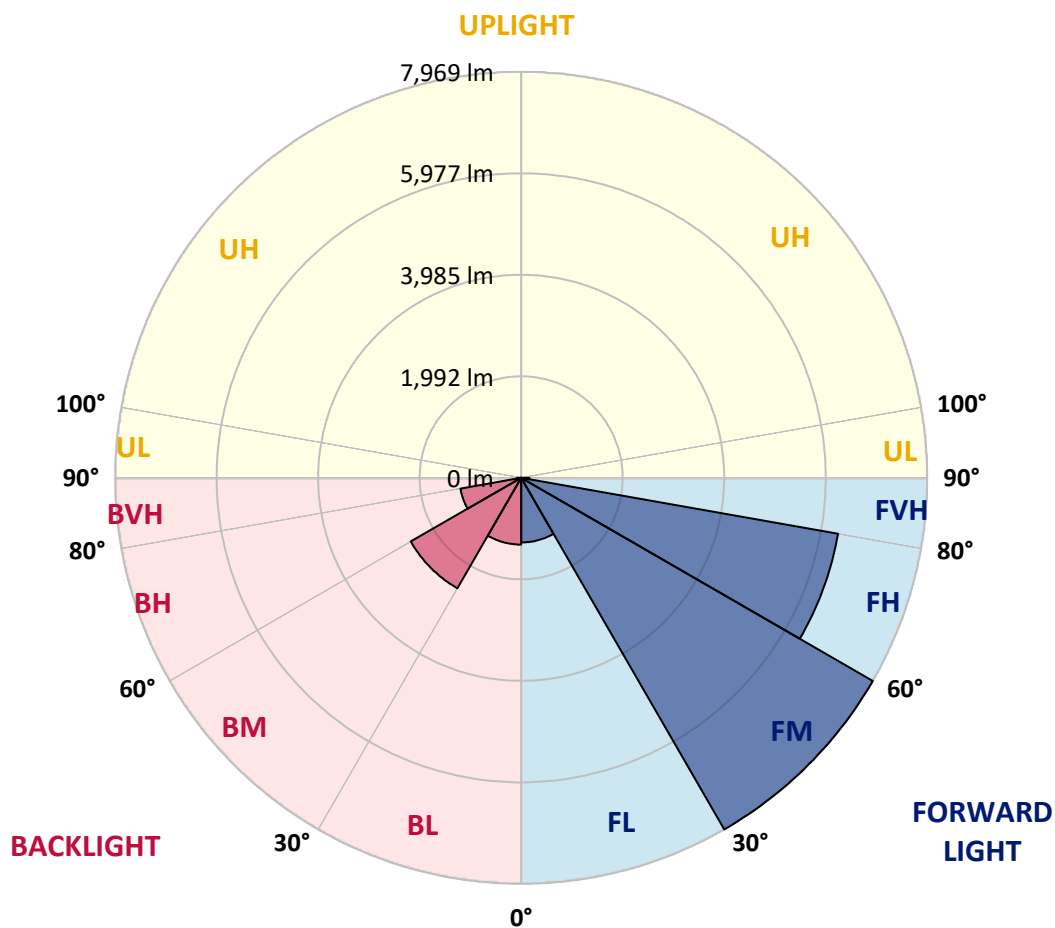
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.2	6.1			
FM	(30°-60°)	7969.2	38.3			
FH	(60°-80°)	6316.5	30.3			G3/7500
FVH	(80°-90°)	159.9	0.8			G2/225
BL	(0°-30°)	1311.3	6.3	B3/2500		
BM	(30°-60°)	2503.6	12.0	B3/5000		
BH	(60°-80°)	1211.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	77.8	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4
2.5°	2322.2	2316.8	2330.2	2343.6	2373.2	2408.1	2456.4	2496.7	2502.0	2577.2	2636.3
5°	2185.2	2177.2	2190.6	2206.7	2220.1	2263.1	2314.1	2373.2	2397.3	2507.4	2633.6
7.5°	2198.7	2196.0	2201.4	2196.0	2196.0	2214.8	2249.7	2308.7	2335.6	2467.1	2647.0
10°	2276.5	2281.9	2284.6	2268.5	2252.4	2244.3	2255.0	2295.3	2314.1	2469.8	2706.1
12.5°	2405.4	2413.4	2416.1	2386.6	2365.1	2330.2	2311.4	2327.5	2341.0	2496.7	2789.3
15°	2579.9	2585.2	2566.5	2547.7	2494.0	2451.0	2405.4	2392.0	2397.3	2553.0	2883.2
17.5°	2783.9	2775.9	2775.9	2730.2	2660.4	2593.3	2518.1	2507.4	2507.4	2644.3	3017.5
20°	3006.7	3014.8	2990.6	2928.9	2859.1	2754.4	2679.2	2630.9	2636.3	2749.0	3181.2
22.5°	3328.9	3342.3	3277.9	3189.3	3081.9	2961.1	2853.7	2775.9	2778.5	2885.9	3350.4
25°	3675.2	3680.6	3640.3	3522.2	3377.2	3205.4	3063.1	2963.8	2961.1	3038.9	3567.8
27.5°	4029.5	4053.7	3973.2	3860.4	3726.2	3511.4	3323.5	3189.3	3167.8	3272.5	3838.9
30°	4394.7	4424.2	4346.3	4236.3	4069.8	3887.3	3664.4	3508.7	3495.3	3634.9	4201.4
32.5°	4762.4	4770.5	4708.7	4617.5	4467.1	4295.3	4115.5	3943.6	3930.2	4158.4	4671.2
35°	5063.1	5087.3	5044.3	5022.8	4912.8	4754.4	4579.9	4480.6	4515.5	4808.1	5280.6
37.5°	5425.5	5449.7	5401.4	5396.0	5361.1	5224.2	5103.4	5111.4	5146.3	5543.6	5922.2
40°	5949.0	5975.9	5852.4	5798.7	5798.7	5664.5	5624.2	5814.8	5860.4	6268.5	6590.6
42.5°	6392.0	6434.9	6362.4	6327.5	6222.8	6128.9	6177.2	6445.7	6523.5	6961.1	7173.2
45°	6606.7	6639.0	6724.9	6826.9	6724.9	6561.1	6743.7	7047.0	7157.1	7600.0	7755.7
47.5°	6722.2	6751.7	6851.0	7124.9	7194.7	7057.8	7315.5	7694.0	7769.2	8233.6	8311.4
50°	6738.3	6832.2	6961.1	7234.9	7554.4	7573.2	7890.0	8351.7	8440.3	8856.4	8800.0
52.5°	6606.7	6644.3	6910.1	7371.8	7726.2	8048.4	8515.5	8982.6	9047.0	9441.7	9232.3
55°	6392.0	6445.7	6711.4	7339.6	7892.7	8499.4	9151.7	9602.7	9675.2	10010.8	9632.3
57.5°	6198.7	6225.5	6510.1	7245.7	8059.1	8950.4	9718.2	10249.7	10298.0	10510.1	9927.6
60°	5983.9	6013.5	6298.0	7044.3	8182.6	9291.3	10308.8	10902.1	10945.0	11036.3	10271.2
62.5°	5428.2	5506.1	5863.1	6711.4	8150.4	9680.6	10939.6	11546.4	11600.1	11500.7	10542.3
65°	4408.1	4518.1	4955.7	5957.1	7849.7	9932.9	11455.1	12139.7	12230.9	11849.7	10614.8
67.5°	3422.8	3500.7	3852.4	4727.5	6794.7	9806.8	11788.0	12547.7	12574.6	11793.3	10212.1
68°	3245.7	3323.5	3659.1	4469.8	6502.0	9656.4	11779.9	12558.4	12617.5	11731.6	10056.4
70°	2483.2	2571.8	2891.3	3541.0	5240.3	8700.7	11288.6	12300.7	12292.7	10985.3	9090.0
72.5°	1551.7	1602.7	1822.8	2233.6	3465.8	6620.2	9581.3	10848.4	10869.8	8955.7	6971.8
75°	985.2	985.2	974.5	1081.9	1777.2	3771.8	7122.2	8351.7	8367.8	6271.2	4394.7
77.5°	856.4	832.2	716.8	606.7	708.7	1465.8	4214.8	5393.3	5304.7	3377.2	2085.9
80°	722.2	681.9	587.9	488.6	456.4	459.1	1618.8	2738.3	2620.1	1216.1	692.6
82.5°	520.8	485.9	443.0	383.9	351.7	273.8	338.3	791.9	773.2	351.7	225.5
85°	281.9	255.0	249.7	252.4	212.1	169.1	142.3	174.5	174.5	153.0	128.9
87.5°	99.3	72.5	85.9	96.6	83.2	69.8	56.4	67.1	69.8	67.1	61.7
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°	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4	2660.4
2.5°	2671.2	2698.0	2762.4	2818.8	2859.1	2894.0	2912.8	2920.8	2939.6	2942.3	2936.9
5°	2692.6	2762.4	2859.1	2942.3	2987.9	3006.7	3012.1	3014.8	3006.7	3012.1	3006.7
7.5°	2749.0	2837.6	2974.5	3047.0	3055.0	3025.5	3028.2	3017.5	3028.2	3038.9	3038.9
10°	2834.9	2947.7	3076.5	3103.4	3068.5	3052.4	3084.6	3149.0	3170.5	3200.0	3200.0
12.5°	2947.7	3081.9	3173.2	3149.0	3116.8	3170.5	3264.4	3328.9	3350.4	3361.1	3353.0
15°	3076.5	3221.5	3267.1	3186.6	3245.7	3361.1	3393.3	3355.7	3302.0	3277.9	3291.3
17.5°	3240.3	3361.1	3334.2	3280.6	3414.8	3430.9	3326.2	3205.4	3119.5	3087.3	3108.7
20°	3412.1	3516.8	3393.3	3417.5	3500.7	3328.9	3130.2	2974.5	2899.3	2885.9	2907.4
22.5°	3594.6	3661.8	3452.4	3575.9	3452.4	3103.4	2864.4	2783.9	2765.1	2786.6	2805.4
25°	3801.4	3793.3	3554.4	3624.2	3272.5	2826.9	2684.6	2679.2	2679.2	2692.6	2719.5
27.5°	4034.9	3908.7	3656.4	3559.7	2961.1	2598.7	2571.8	2574.5	2566.5	2569.1	2582.6
30°	4306.1	4064.4	3769.1	3347.7	2612.1	2426.9	2416.1	2408.1	2389.3	2383.9	2389.3
32.5°	4647.0	4228.2	3884.6	2998.7	2306.1	2249.7	2244.3	2201.4	2155.7	2150.3	2169.1
35°	5079.2	4526.2	3943.6	2561.1	2053.7	2051.0	2032.2	1965.1	1906.0	1906.0	1892.6
37.5°	5573.2	4910.1	3967.8	2134.2	1844.3	1857.7	1804.0	1718.1	1672.5	1645.6	1653.7
40°	6077.9	5347.7	3965.1	1761.1	1661.8	1664.4	1624.2	1519.5	1406.7	1339.6	1355.7
42.5°	6563.8	5745.0	3895.3	1562.4	1514.1	1506.0	1473.8	1331.5	1237.6	1183.9	1186.6
45°	6953.1	6155.7	3787.9	1444.3	1379.9	1393.3	1320.8	1234.9	1149.0	1100.7	1098.0
47.5°	7342.3	6467.1	3616.1	1371.8	1280.5	1256.4	1226.9	1167.8	1103.4	1049.7	1052.4
50°	7696.7	6732.9	3455.0	1323.5	1189.3	1127.5	1132.9	1098.0	1041.6	993.3	990.6
52.5°	7946.3	6907.4	3366.5	1296.7	1079.2	1012.1	1030.9	1012.1	958.4	923.5	920.8
55°	8196.0	7041.6	3396.0	1261.8	958.4	904.7	936.9	931.5	902.0	891.3	894.0
57.5°	8397.4	7143.7	3500.7	1197.3	843.0	810.7	864.4	848.3	826.8	829.5	829.5
60°	8593.3	7275.2	3624.2	1049.7	743.6	746.3	797.3	767.8	754.4	778.5	781.2
62.5°	8797.4	7417.5	3522.2	834.9	657.7	676.5	735.6	711.4	716.8	751.7	762.4
65°	8773.2	7404.1	2869.8	684.6	582.6	620.1	708.7	700.7	703.4	716.8	722.2
67.5°	8279.2	6931.6	1973.2	582.6	528.9	574.5	687.3	655.0	657.7	649.7	652.4
68°	8112.8	6765.1	1739.6	566.4	518.1	563.8	676.5	647.0	649.7	641.6	638.9
70°	7205.4	5793.3	1100.7	499.3	480.5	534.2	622.8	612.1	609.4	604.0	604.0
72.5°	5492.6	4276.5	579.9	432.2	437.6	488.6	555.7	577.2	563.8	566.4	582.6
75°	3637.6	2571.8	402.7	370.5	383.9	418.8	494.0	536.9	523.5	531.5	523.5
77.5°	1924.8	1385.2	322.1	314.1	314.1	338.3	408.1	475.2	475.2	469.8	461.7
80°	630.9	488.6	257.7	247.0	252.4	265.8	327.5	389.3	397.3	386.6	381.2
82.5°	212.1	225.5	193.3	179.9	185.2	196.0	247.0	298.0	300.7	279.2	273.8
85°	131.5	150.3	120.8	118.1	118.1	120.8	150.3	163.8	150.3	134.2	139.6
87.5°	61.7	75.2	56.4	48.3	40.3	34.9	26.8	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)