

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: P1210527

Luminaire Tested: **ARCH3-150-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210527
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: ARCH3-150-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20648 lumens
Efficiency: N/A
Efficacy: 137.0 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

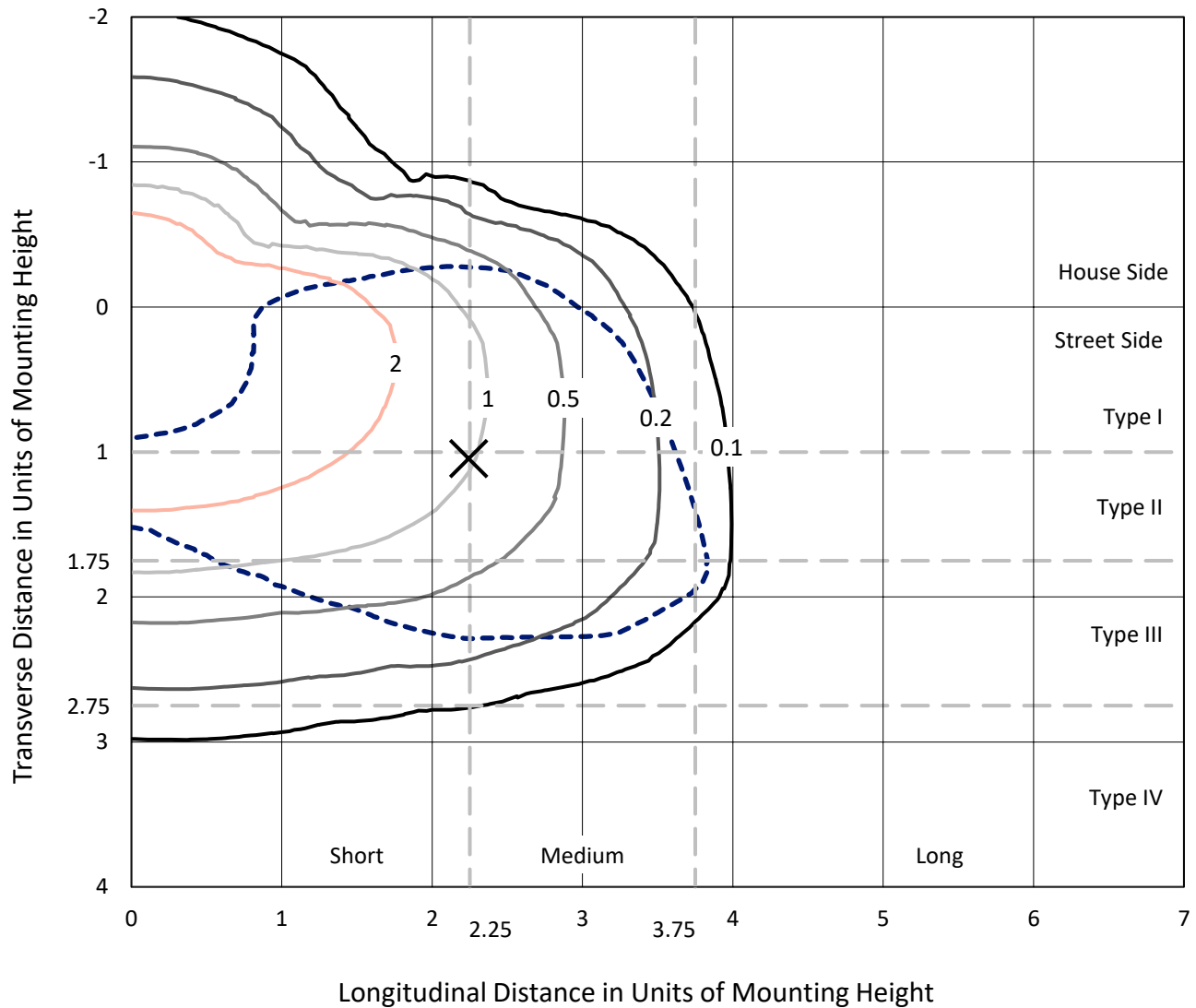


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

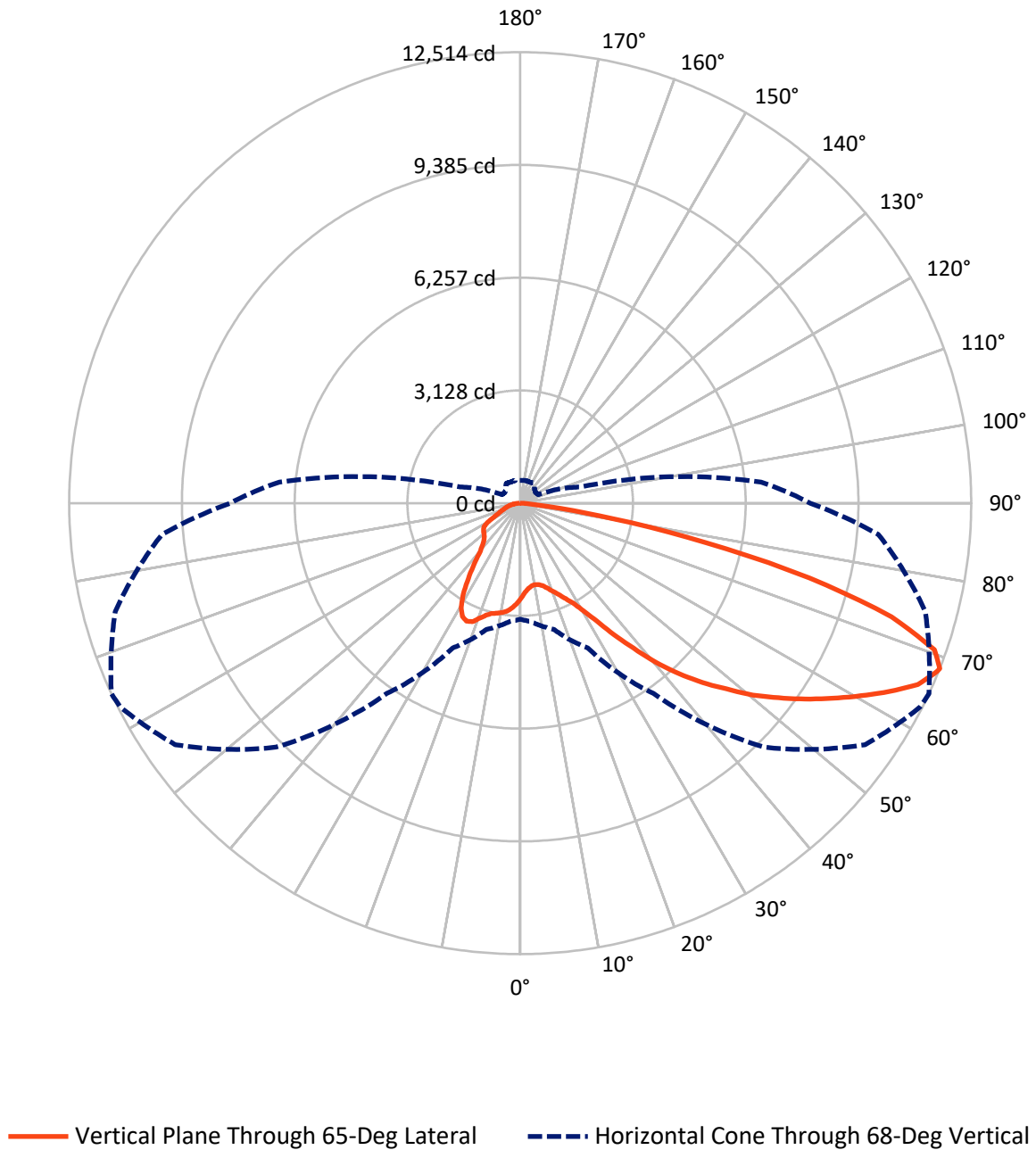


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5062.3	0.0	5062.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15585.7	0.0	15585.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	20648.0	0.0	20648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	1.2
10°-20°	821.1	4.0
20°-30°	1486.0	7.2
30°-40°	2337.7	11.3
40°-50°	3481.7	16.9
50°-60°	4567.3	22.1
60°-70°	4994.7	24.2
70°-80°	2471.5	12.0
80°-90°	235.8	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°	20648.0	100.0
0°-180°	20648.0	100.0

Coefficient of Utilization



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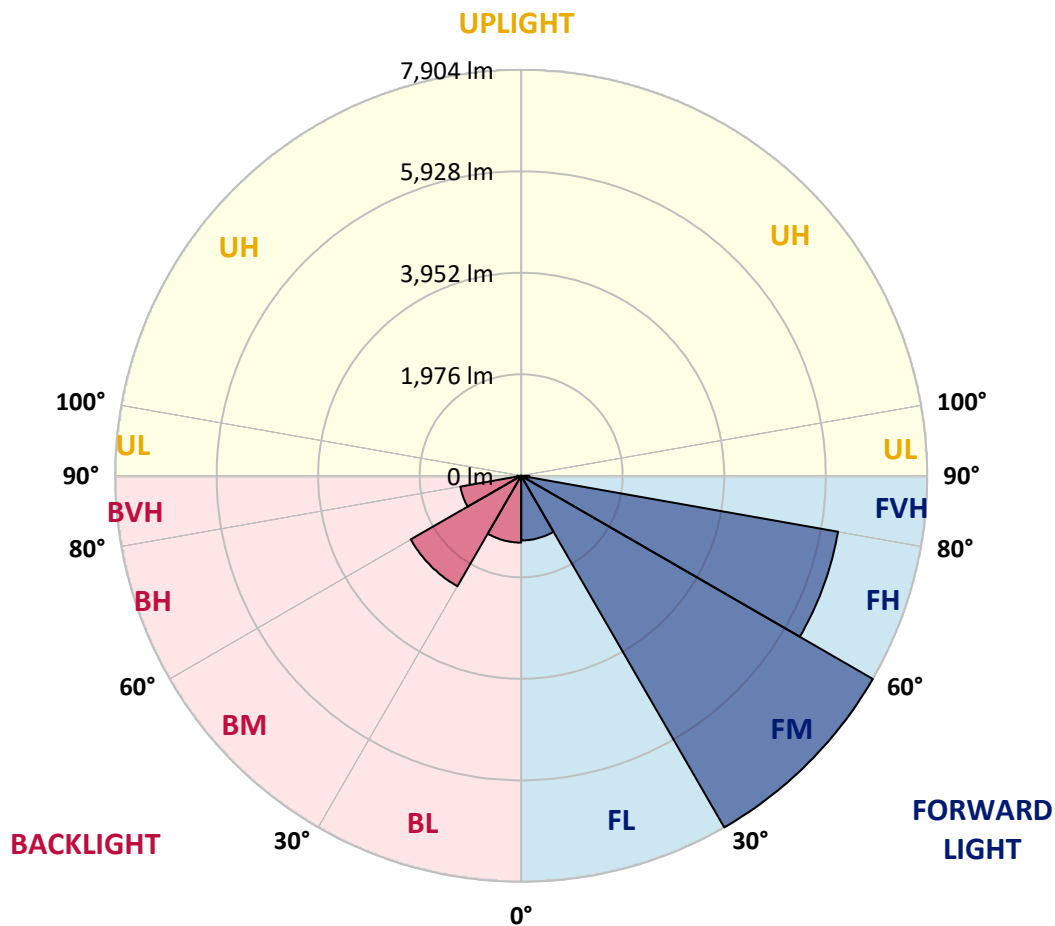
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.7	6.1			
FM	(30°-60°)	7903.8	38.3			
FH	(60°-80°)	6264.7	30.3			G3/7500
FVH	(80°-90°)	158.6	0.8			G2/225
BL	(0°-30°)	1300.5	6.3	B3/2500		
BM	(30°-60°)	2483.0	12.0	B2/2500		
BH	(60°-80°)	1201.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	77.2	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°	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6
2.5°	2303.1	2297.8	2311.1	2324.4	2353.7	2388.3	2436.2	2476.1	2481.5	2556.0	2614.6
5°	2167.3	2159.3	2172.6	2188.6	2201.9	2244.5	2295.1	2353.7	2377.6	2486.8	2611.9
7.5°	2180.6	2177.9	2183.3	2177.9	2177.9	2196.6	2231.2	2289.8	2316.4	2446.9	2625.3
10°	2257.8	2263.1	2265.8	2249.8	2233.9	2225.9	2236.5	2276.5	2295.1	2449.5	2683.8
12.5°	2385.6	2393.6	2396.3	2367.0	2345.7	2311.1	2292.4	2308.4	2321.7	2476.1	2766.4
15°	2558.7	2564.0	2545.4	2526.7	2473.5	2430.9	2385.6	2372.3	2377.6	2532.1	2859.6
17.5°	2761.0	2753.1	2753.1	2707.8	2638.6	2572.0	2497.4	2486.8	2486.8	2622.6	2992.7
20°	2982.0	2990.0	2966.1	2904.8	2835.6	2731.8	2657.2	2609.3	2614.6	2726.4	3155.1
22.5°	3301.5	3314.8	3250.9	3163.1	3056.6	2936.8	2830.3	2753.1	2755.7	2862.2	3322.8
25°	3645.0	3650.3	3610.4	3493.2	3349.5	3179.1	3037.9	2939.4	2936.8	3014.0	3538.5
27.5°	3996.5	4020.4	3940.5	3828.7	3695.6	3482.6	3296.2	3163.1	3141.8	3245.6	3807.4
30°	4358.6	4387.8	4310.6	4201.5	4036.4	3855.3	3634.3	3479.9	3466.6	3605.1	4166.9
32.5°	4723.3	4731.3	4670.1	4579.5	4430.4	4260.0	4081.7	3911.3	3897.9	4124.3	4632.8
35°	5021.5	5045.5	5002.9	4981.6	4872.4	4715.3	4542.3	4443.8	4478.4	4768.6	5237.2
37.5°	5381.0	5404.9	5357.0	5351.7	5317.1	5181.3	5061.5	5069.4	5104.1	5498.1	5873.5
40°	5900.2	5926.8	5804.3	5751.1	5751.1	5617.9	5578.0	5767.0	5812.3	6217.0	6536.5
42.5°	6339.5	6382.1	6310.2	6275.6	6171.7	6078.5	6126.5	6392.7	6469.9	6903.9	7114.3
45°	6552.5	6584.4	6669.6	6770.8	6669.6	6507.2	6688.3	6989.1	7098.3	7537.6	7692.0
47.5°	6667.0	6696.3	6794.8	7066.3	7135.6	6999.8	7255.4	7630.8	7705.4	8166.0	8243.2
50°	6682.9	6776.1	6903.9	7175.5	7492.3	7511.0	7825.2	8283.1	8371.0	8783.7	8727.8
52.5°	6552.5	6589.8	6853.3	7311.3	7662.8	7982.3	8445.5	8908.8	8972.7	9364.1	9156.4
55°	6339.5	6392.7	6656.3	7279.3	7827.8	8429.6	9076.6	9523.9	9595.7	9928.6	9553.1
57.5°	6147.8	6174.4	6456.6	7186.2	7992.9	8876.9	9638.3	10165.5	10213.4	10423.8	9846.0
60°	5934.8	5964.1	6246.3	6986.5	8115.4	9215.0	10224.1	10812.5	10855.1	10945.6	10186.8
62.5°	5383.6	5460.8	5815.0	6656.3	8083.4	9601.1	10849.8	11451.5	11504.8	11406.3	10455.7
65°	4371.9	4481.0	4915.0	5908.1	7785.2	9851.3	11361.0	12039.9	12130.5	11752.4	10527.6
67.5°	3394.7	3471.9	3820.7	4688.7	6738.9	9726.2	11691.2	12444.6	12471.3	11696.5	10128.2
68°	3219.0	3296.2	3629.0	4433.1	6448.6	9577.1	11683.2	12455.3	12513.9	11635.2	9973.8
70°	2462.8	2550.7	2867.5	3511.9	5197.3	8629.2	11195.9	12199.7	12191.7	10895.1	9015.3
72.5°	1538.9	1589.5	1807.9	2215.2	3437.3	6565.8	9502.6	10759.3	10780.6	8882.2	6914.6
75°	977.1	977.1	966.5	1073.0	1762.6	3740.8	7063.7	8283.1	8299.1	6219.7	4358.6
77.5°	849.3	825.4	710.9	601.7	702.9	1453.7	4180.2	5349.0	5261.2	3349.5	2068.8
80°	716.2	676.3	583.1	484.6	452.6	455.3	1605.5	2715.8	2598.6	1206.1	686.9
82.5°	516.5	481.9	439.3	380.7	348.8	271.6	335.5	785.4	766.8	348.8	223.7
85°	279.6	252.9	247.6	250.3	210.3	167.7	141.1	173.1	173.1	151.8	127.8
87.5°	98.5	71.9	85.2	95.9	82.5	69.2	55.9	66.6	69.2	66.6	61.2
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°	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6	2638.6
2.5°	2649.2	2675.8	2739.7	2795.7	2835.6	2870.2	2888.8	2896.8	2915.5	2918.1	2912.8
5°	2670.5	2739.7	2835.6	2918.1	2963.4	2982.0	2987.4	2990.0	2982.0	2987.4	2982.0
7.5°	2726.4	2814.3	2950.1	3022.0	3030.0	3000.7	3003.3	2992.7	3003.3	3014.0	3014.0
10°	2811.6	2923.5	3051.3	3077.9	3043.3	3027.3	3059.2	3123.1	3144.4	3173.7	3173.7
12.5°	2923.5	3056.6	3147.1	3123.1	3091.2	3144.4	3237.6	3301.5	3322.8	3333.5	3325.5
15°	3051.3	3195.0	3240.3	3160.4	3219.0	3333.5	3365.4	3328.2	3274.9	3250.9	3264.3
17.5°	3213.7	3333.5	3306.9	3253.6	3386.7	3402.7	3298.9	3179.1	3093.9	3061.9	3083.2
20°	3384.1	3487.9	3365.4	3389.4	3471.9	3301.5	3104.5	2950.1	2875.5	2862.2	2883.5
22.5°	3565.1	3631.7	3424.0	3546.5	3424.0	3077.9	2840.9	2761.0	2742.4	2763.7	2782.3
25°	3770.1	3762.1	3525.2	3594.4	3245.6	2803.6	2662.5	2657.2	2657.2	2670.5	2697.1
27.5°	4001.8	3876.6	3626.4	3530.5	2936.8	2577.3	2550.7	2553.4	2545.4	2548.0	2561.4
30°	4270.7	4031.1	3738.2	3320.2	2590.6	2406.9	2396.3	2388.3	2369.6	2364.3	2369.6
32.5°	4608.8	4193.5	3852.7	2974.0	2287.1	2231.2	2225.9	2183.3	2138.0	2132.7	2151.3
35°	5037.5	4489.0	3911.3	2540.0	2036.8	2034.2	2015.5	1949.0	1890.4	1890.4	1877.1
37.5°	5527.4	4869.8	3935.2	2116.7	1829.2	1842.5	1789.2	1704.0	1658.8	1632.1	1640.1
40°	6028.0	5303.8	3932.6	1746.6	1648.1	1650.8	1610.8	1507.0	1395.2	1328.6	1344.6
42.5°	6509.9	5697.8	3863.3	1549.6	1501.7	1493.7	1461.7	1320.6	1227.4	1174.2	1176.8
45°	6895.9	6105.2	3756.8	1432.4	1368.5	1381.9	1310.0	1224.8	1139.6	1091.6	1089.0
47.5°	7282.0	6414.0	3586.4	1360.6	1270.0	1246.1	1216.8	1158.2	1094.3	1041.0	1043.7
50°	7633.5	6677.6	3426.7	1312.6	1179.5	1118.3	1123.6	1089.0	1033.1	985.1	982.5
52.5°	7881.1	6850.7	3338.8	1286.0	1070.3	1003.8	1022.4	1003.8	950.5	915.9	913.2
55°	8128.7	6983.8	3368.1	1251.4	950.5	897.3	929.2	923.9	894.6	884.0	886.6
57.5°	8328.4	7085.0	3471.9	1187.5	836.0	804.1	857.3	841.4	820.1	822.7	822.7
60°	8522.7	7215.4	3594.4	1041.0	737.5	740.2	790.8	761.5	748.2	772.1	774.8
62.5°	8725.1	7356.6	3493.2	828.0	652.3	671.0	729.5	705.6	710.9	745.5	756.2
65°	8701.1	7343.2	2846.2	678.9	577.8	615.0	702.9	694.9	697.6	710.9	716.2
67.5°	8211.2	6874.6	1957.0	577.8	524.5	569.8	681.6	649.7	652.3	644.3	647.0
68°	8046.2	6709.6	1725.3	561.8	513.9	559.1	671.0	641.7	644.3	636.3	633.7
70°	7146.2	5745.7	1091.6	495.2	476.6	529.8	617.7	607.1	604.4	599.1	599.1
72.5°	5447.5	4241.4	575.1	428.7	434.0	484.6	551.1	572.4	559.1	561.8	577.8
75°	3607.7	2550.7	399.4	367.4	380.7	415.4	489.9	532.5	519.2	527.2	519.2
77.5°	1909.0	1373.9	319.5	311.5	311.5	335.5	404.7	471.3	471.3	465.9	458.0
80°	625.7	484.6	255.6	245.0	250.3	263.6	324.8	386.1	394.1	383.4	378.1
82.5°	210.3	223.7	191.7	178.4	183.7	194.4	245.0	295.5	298.2	276.9	271.6
85°	130.5	149.1	119.8	117.2	117.2	119.8	149.1	162.4	149.1	133.1	138.5
87.5°	61.2	74.6	55.9	47.9	39.9	34.6	26.6	10.7	10.7	5.3	5.3
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)