

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: P1210375

Luminaire Tested: **ARCH3-100-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210375
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: ARCH3-100-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16090 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.6
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

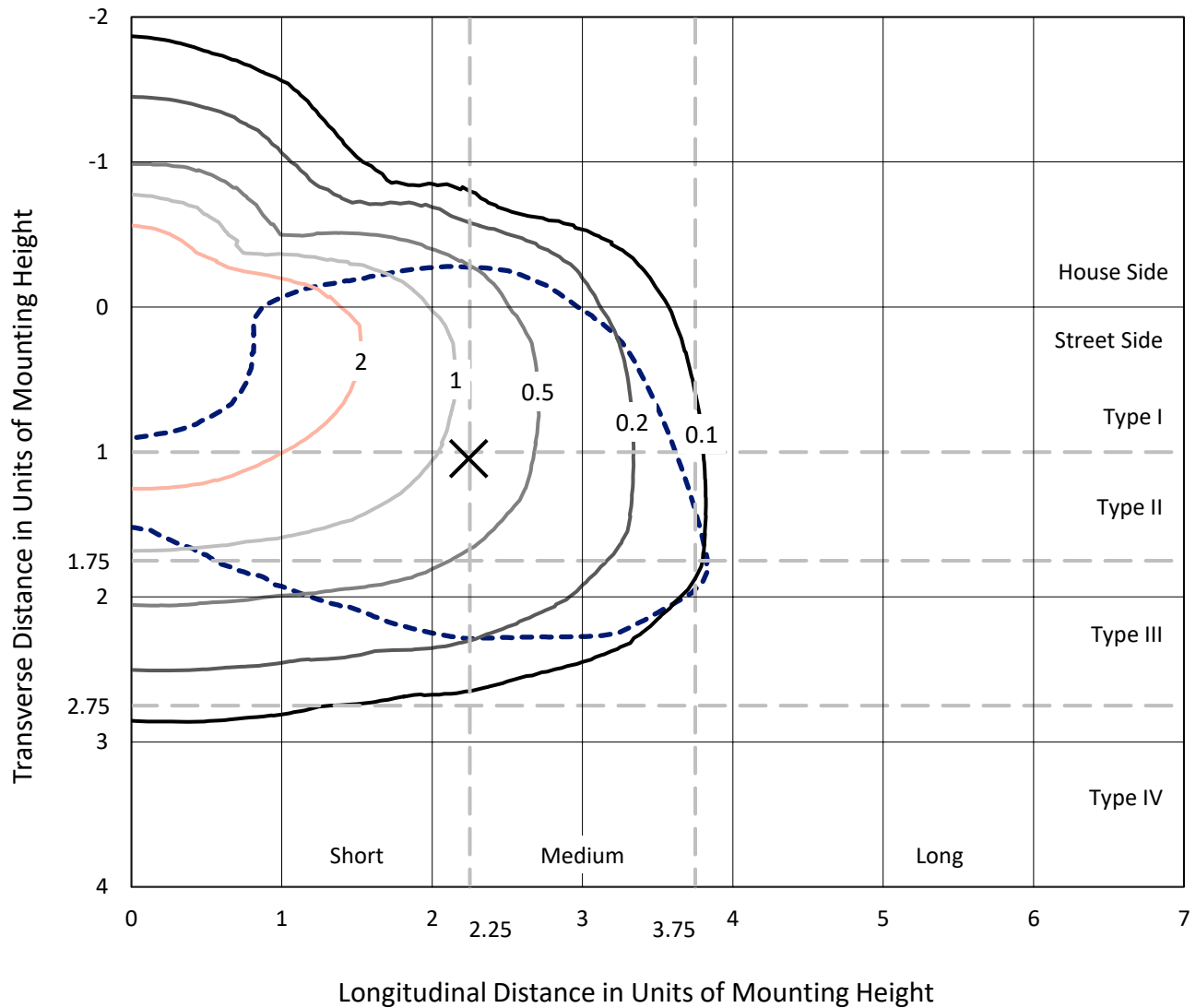


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Iso-Footcandle Lines of Horizontal Illumination

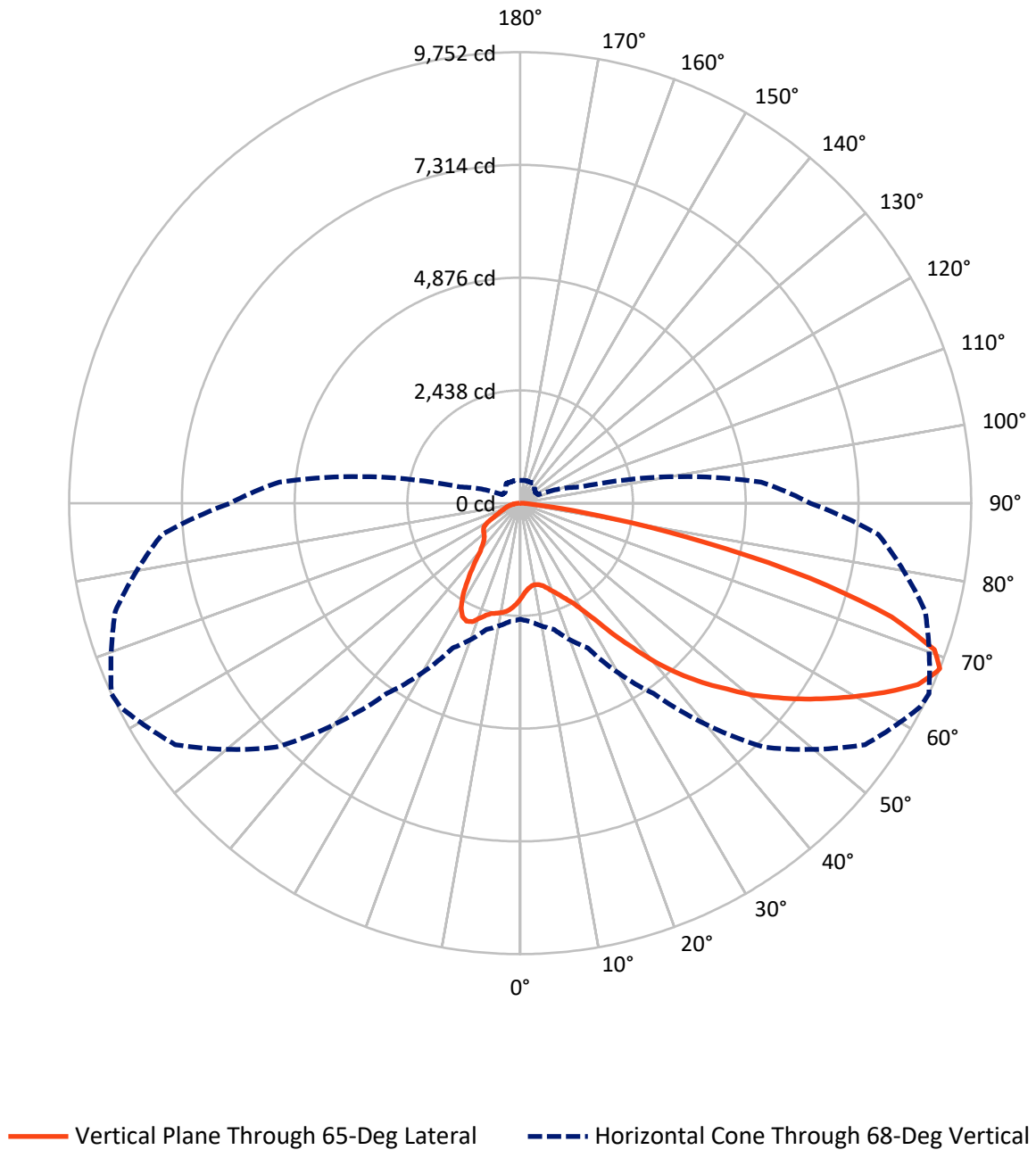
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3944.8	0.0	3944.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12145.2	0.0	12145.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	16090.0	0.0	16090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	1.2
10°-20°	639.8	4.0
20°-30°	1158.0	7.2
30°-40°	1821.7	11.3
40°-50°	2713.2	16.9
50°-60°	3559.1	22.1
60°-70°	3892.1	24.2
70°-80°	1925.9	12.0
80°-90°	183.7	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°	16090.0	100.0
0°-180°	16090.0	100.0

Coefficient of Utilization



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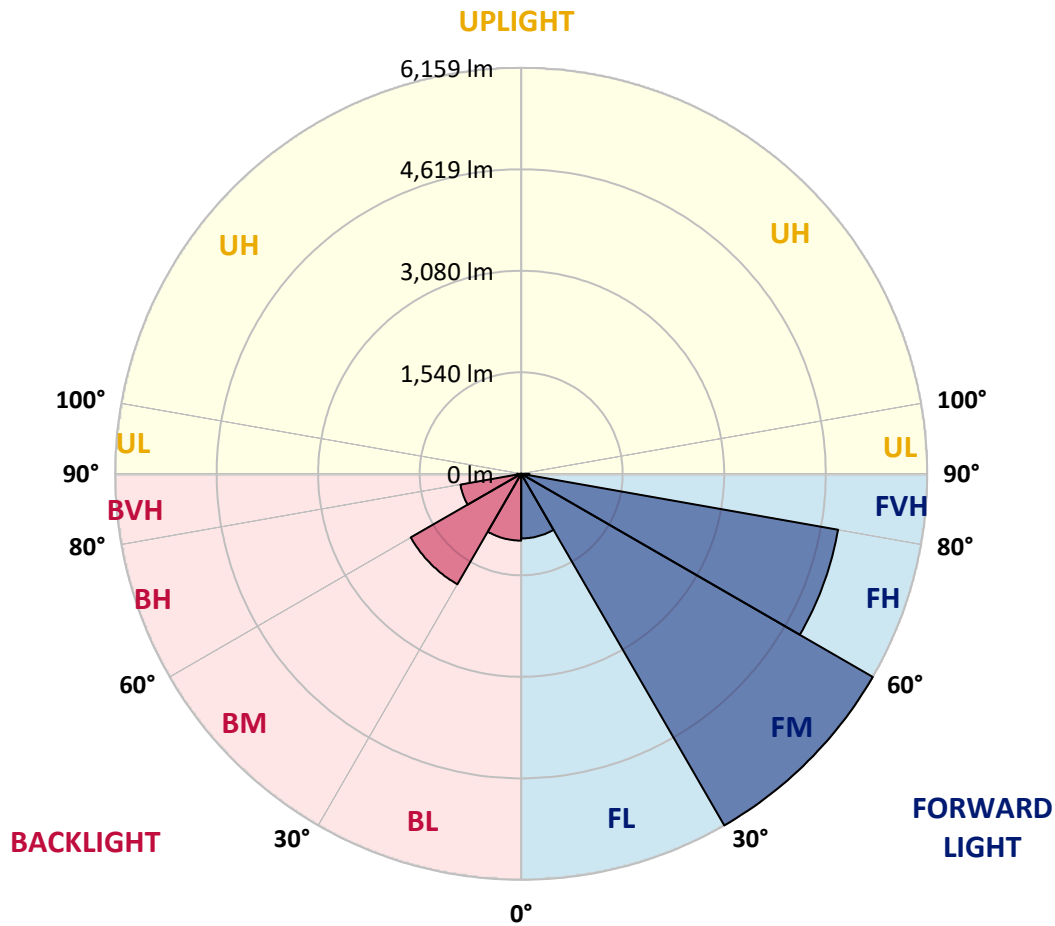
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.9	6.1			
FM	(30°-60°)	6159.0	38.3			
FH	(60°-80°)	4881.8	30.3			G2/5000
FVH	(80°-90°)	123.6	0.8			G2/225
BL	(0°-30°)	1013.5	6.3	B3/2500		
BM	(30°-60°)	1934.9	12.0	B2/2500		
BH	(60°-80°)	936.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	60.2	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1
2.5°	1794.7	1790.5	1800.9	1811.3	1834.1	1861.1	1898.4	1929.5	1933.7	1991.8	2037.4
5°	1688.9	1682.6	1693.0	1705.5	1715.8	1749.0	1788.5	1834.1	1852.8	1937.8	2035.4
7.5°	1699.2	1697.2	1701.3	1697.2	1697.2	1711.7	1738.7	1784.3	1805.1	1906.7	2045.7
10°	1759.4	1763.6	1765.6	1753.2	1740.7	1734.5	1742.8	1773.9	1788.5	1908.8	2091.4
12.5°	1859.0	1865.2	1867.3	1844.5	1827.9	1800.9	1786.4	1798.8	1809.2	1929.5	2155.7
15°	1993.9	1998.0	1983.5	1969.0	1927.5	1894.3	1859.0	1848.6	1852.8	1973.1	2228.3
17.5°	2151.5	2145.3	2145.3	2110.1	2056.1	2004.2	1946.1	1937.8	1937.8	2043.7	2332.1
20°	2323.8	2330.0	2311.3	2263.6	2209.6	2128.7	2070.6	2033.3	2037.4	2124.6	2458.6
22.5°	2572.7	2583.1	2533.3	2464.8	2381.8	2288.5	2205.5	2145.3	2147.4	2230.4	2589.3
25°	2840.4	2844.5	2813.4	2722.1	2610.1	2477.3	2367.3	2290.6	2288.5	2348.7	2757.4
27.5°	3114.2	3132.9	3070.7	2983.5	2879.8	2713.8	2568.6	2464.8	2448.2	2529.2	2966.9
30°	3396.4	3419.2	3359.1	3274.0	3145.4	3004.3	2832.1	2711.7	2701.4	2809.3	3247.0
32.5°	3680.7	3686.9	3639.2	3568.6	3452.4	3319.6	3180.6	3047.9	3037.5	3213.8	3610.1
35°	3913.0	3931.7	3898.5	3881.9	3796.8	3674.4	3539.6	3462.8	3489.8	3715.9	4081.1
37.5°	4193.1	4211.8	4174.5	4170.3	4143.3	4037.5	3944.2	3950.4	3977.4	4284.4	4577.0
40°	4597.7	4618.5	4523.0	4481.5	4481.5	4377.8	4346.7	4494.0	4529.2	4844.6	5093.6
42.5°	4940.0	4973.2	4917.2	4890.3	4809.3	4736.7	4774.1	4981.5	5041.7	5379.9	5543.8
45°	5106.0	5130.9	5197.3	5276.2	5197.3	5070.8	5211.8	5446.3	5531.4	5873.7	5994.0
47.5°	5195.2	5218.1	5294.8	5506.5	5560.4	5454.6	5653.8	5946.3	6004.4	6363.3	6423.5
50°	5207.7	5280.3	5379.9	5591.5	5838.4	5853.0	6097.8	6454.6	6523.1	6844.7	6801.1
52.5°	5106.0	5135.1	5340.5	5697.3	5971.2	6220.2	6581.2	6942.2	6992.0	7297.0	7135.2
55°	4940.0	4981.5	5186.9	5672.4	6099.9	6568.8	7072.9	7421.5	7477.5	7736.9	7444.3
57.5°	4790.7	4811.4	5031.3	5599.8	6228.5	6917.3	7510.7	7921.5	7958.9	8122.8	7672.5
60°	4624.7	4647.5	4867.4	5444.2	6323.9	7180.8	7967.2	8425.7	8458.9	8529.4	7938.1
62.5°	4195.2	4255.4	4531.3	5186.9	6299.0	7481.7	8454.7	8923.6	8965.1	8888.4	8147.7
65°	3406.8	3491.9	3830.0	4603.9	6066.7	7676.7	8853.1	9382.2	9452.7	9158.1	8203.7
67.5°	2645.3	2705.5	2977.3	3653.7	5251.3	7579.2	9110.4	9697.5	9718.3	9114.5	7892.5
68°	2508.4	2568.6	2827.9	3454.5	5025.1	7463.0	9104.1	9705.8	9751.5	9066.8	7772.1
70°	1919.2	1987.6	2234.5	2736.6	4050.0	6724.4	8724.4	9506.6	9500.4	8490.0	7025.2
72.5°	1199.2	1238.6	1408.8	1726.2	2678.5	5116.4	7404.9	8384.2	8400.8	6921.5	5388.2
75°	761.4	761.4	753.1	836.1	1373.5	2915.1	5504.4	6454.6	6467.1	4846.7	3396.4
77.5°	661.9	643.2	554.0	468.9	547.7	1132.8	3257.4	4168.2	4099.8	2610.1	1612.1
80°	558.1	527.0	454.4	377.6	352.7	354.8	1251.1	2116.3	2025.0	939.9	535.3
82.5°	402.5	375.5	342.3	296.7	271.8	211.6	261.4	612.1	597.5	271.8	174.3
85°	217.9	197.1	193.0	195.0	163.9	130.7	110.0	134.9	134.9	118.3	99.6
87.5°	76.8	56.0	66.4	74.7	64.3	53.9	43.6	51.9	53.9	51.9	47.7
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°	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1
2.5°	2064.4	2085.2	2134.9	2178.5	2209.6	2236.6	2251.1	2257.4	2271.9	2274.0	2269.8
5°	2081.0	2134.9	2209.6	2274.0	2309.2	2323.8	2327.9	2330.0	2323.8	2327.9	2323.8
7.5°	2124.6	2193.0	2298.9	2354.9	2361.1	2338.3	2340.4	2332.1	2340.4	2348.7	2348.7
10°	2191.0	2278.1	2377.7	2398.4	2371.5	2359.0	2383.9	2433.7	2450.3	2473.1	2473.1
12.5°	2278.1	2381.8	2452.4	2433.7	2408.8	2450.3	2522.9	2572.7	2589.3	2597.6	2591.4
15°	2377.7	2489.7	2525.0	2462.8	2508.4	2597.6	2622.5	2593.5	2552.0	2533.3	2543.7
17.5°	2504.3	2597.6	2576.9	2535.4	2639.1	2651.6	2570.7	2477.3	2410.9	2386.0	2402.6
20°	2637.0	2718.0	2622.5	2641.2	2705.5	2572.7	2419.2	2298.9	2240.8	2230.4	2247.0
22.5°	2778.1	2830.0	2668.2	2763.6	2668.2	2398.4	2213.8	2151.5	2137.0	2153.6	2168.1
25°	2937.9	2931.7	2747.0	2801.0	2529.2	2184.7	2074.8	2070.6	2070.6	2081.0	2101.8
27.5°	3118.4	3020.9	2825.8	2751.2	2288.5	2008.4	1987.6	1989.7	1983.5	1985.6	1995.9
30°	3327.9	3141.2	2913.0	2587.2	2018.8	1875.6	1867.3	1861.1	1846.6	1842.4	1846.6
32.5°	3591.4	3267.8	3002.2	2317.5	1782.2	1738.7	1734.5	1701.3	1666.0	1661.9	1676.4
35°	3925.5	3498.1	3047.9	1979.3	1587.2	1585.1	1570.6	1518.7	1473.1	1473.1	1462.7
37.5°	4307.2	3794.8	3066.5	1649.4	1425.4	1435.7	1394.3	1327.9	1292.6	1271.8	1278.1
40°	4697.3	4133.0	3064.4	1361.1	1284.3	1286.4	1255.2	1174.3	1087.2	1035.3	1047.8
42.5°	5072.8	4440.0	3010.5	1207.5	1170.2	1164.0	1139.1	1029.1	956.5	915.0	917.1
45°	5373.7	4757.5	2927.5	1116.2	1066.4	1076.8	1020.8	954.4	888.0	850.7	848.6
47.5°	5674.5	4998.1	2794.7	1060.2	989.7	971.0	948.2	902.5	852.7	811.2	813.3
50°	5948.4	5203.5	2670.2	1022.9	919.1	871.4	875.6	848.6	805.0	767.7	765.6
52.5°	6141.3	5338.4	2601.8	1002.1	834.1	782.2	796.7	782.2	740.7	713.7	711.6
55°	6334.3	5442.1	2624.6	975.1	740.7	699.2	724.1	719.9	697.1	688.8	690.9
57.5°	6489.9	5521.0	2705.5	925.4	651.5	626.6	668.1	655.6	639.0	641.1	641.1
60°	6641.4	5622.7	2801.0	811.2	574.7	576.8	616.2	593.4	583.0	601.7	603.8
62.5°	6799.1	5732.6	2722.1	645.3	508.3	522.8	568.5	549.8	554.0	580.9	589.2
65°	6780.4	5722.2	2217.9	529.1	450.2	479.3	547.7	541.5	543.6	554.0	558.1
67.5°	6398.6	5357.1	1525.0	450.2	408.7	444.0	531.1	506.2	508.3	502.1	504.2
68°	6270.0	5228.4	1344.5	437.8	400.4	435.7	522.8	500.0	502.1	495.9	493.8
70°	5568.7	4477.4	850.7	385.9	371.4	412.9	481.3	473.0	471.0	466.8	466.8
72.5°	4245.0	3305.1	448.2	334.0	338.2	377.6	429.5	446.1	435.7	437.8	450.2
75°	2811.3	1987.6	311.2	286.3	296.7	323.7	381.8	415.0	404.6	410.8	404.6
77.5°	1487.6	1070.6	249.0	242.7	242.7	261.4	315.4	367.2	367.2	363.1	356.9
80°	487.6	377.6	199.2	190.9	195.0	205.4	253.1	300.8	307.1	298.8	294.6
82.5°	163.9	174.3	149.4	139.0	143.2	151.5	190.9	230.3	232.4	215.8	211.6
85°	101.7	116.2	93.4	91.3	91.3	93.4	116.2	126.6	116.2	103.7	107.9
87.5°	47.7	58.1	43.6	37.3	31.1	27.0	20.7	8.3	8.3	4.1	4.1
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)