

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: P1210109

Luminaire Tested: **ARCH2-110-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13367 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.5
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



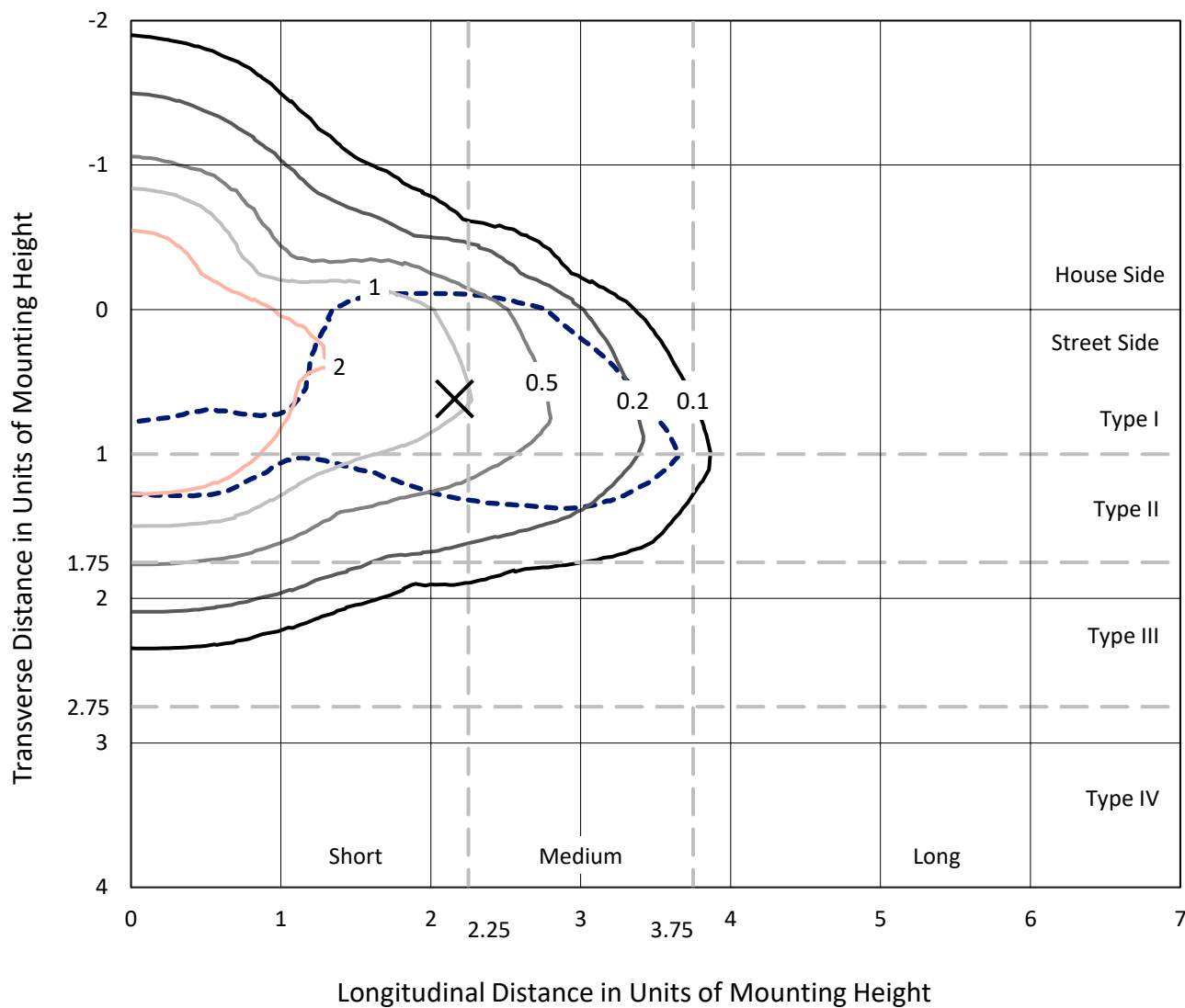
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Iso-Footcandle Lines of Horizontal Illumination

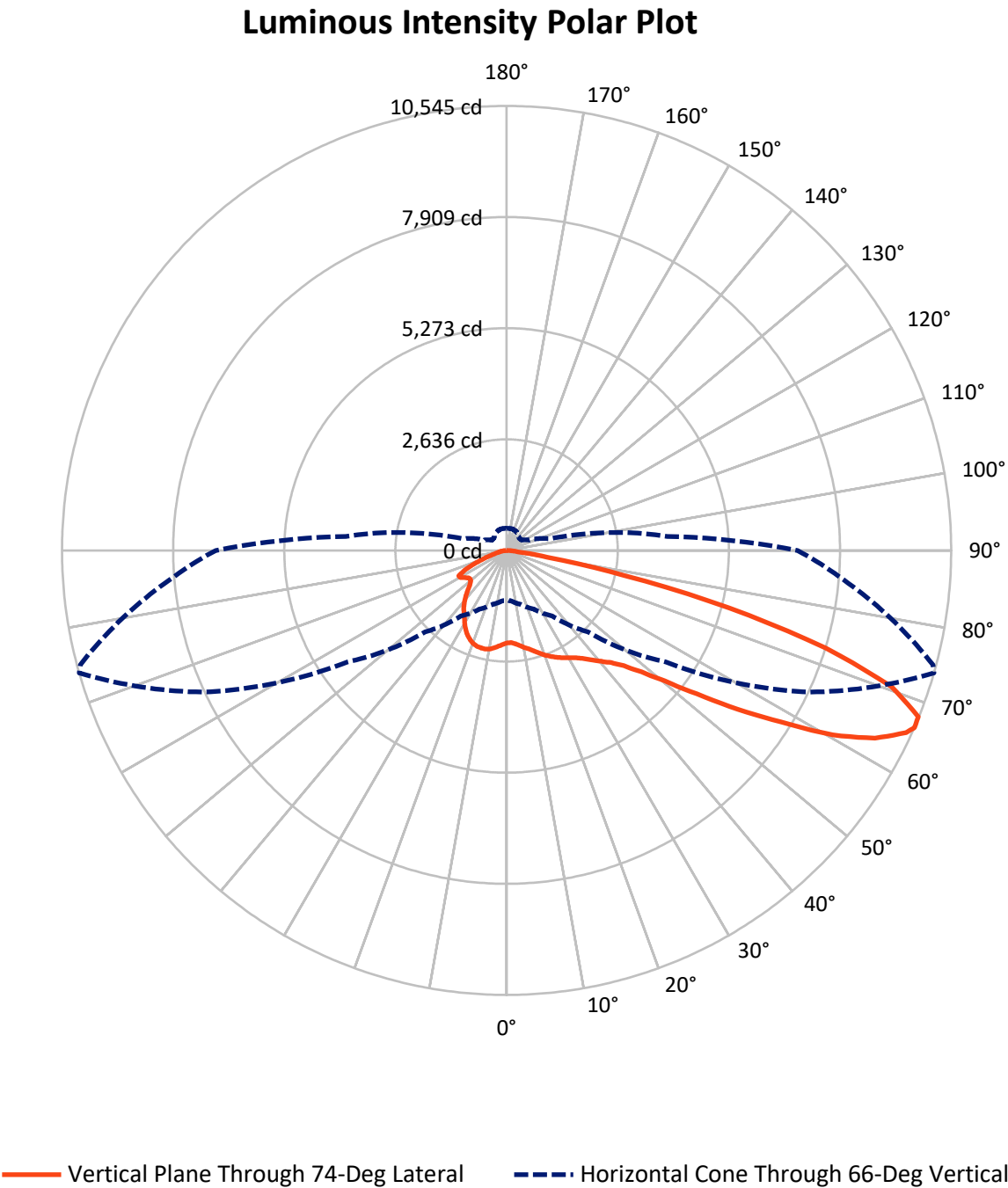
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3255.2	0.0	3255.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10111.8	0.0	10111.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	13367.0	0.0	13367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	1.6
10°-20°	642.8	4.8
20°-30°	1206.2	9.0
30°-40°	1855.5	13.9
40°-50°	2495.8	18.7
50°-60°	2951.6	22.1
60°-70°	2730.4	20.4
70°-80°	1148.6	8.6
80°-90°	127.1	1.0
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°	13367.0	100.0
0°-180°	13367.0	100.0

Coefficient of Utilization



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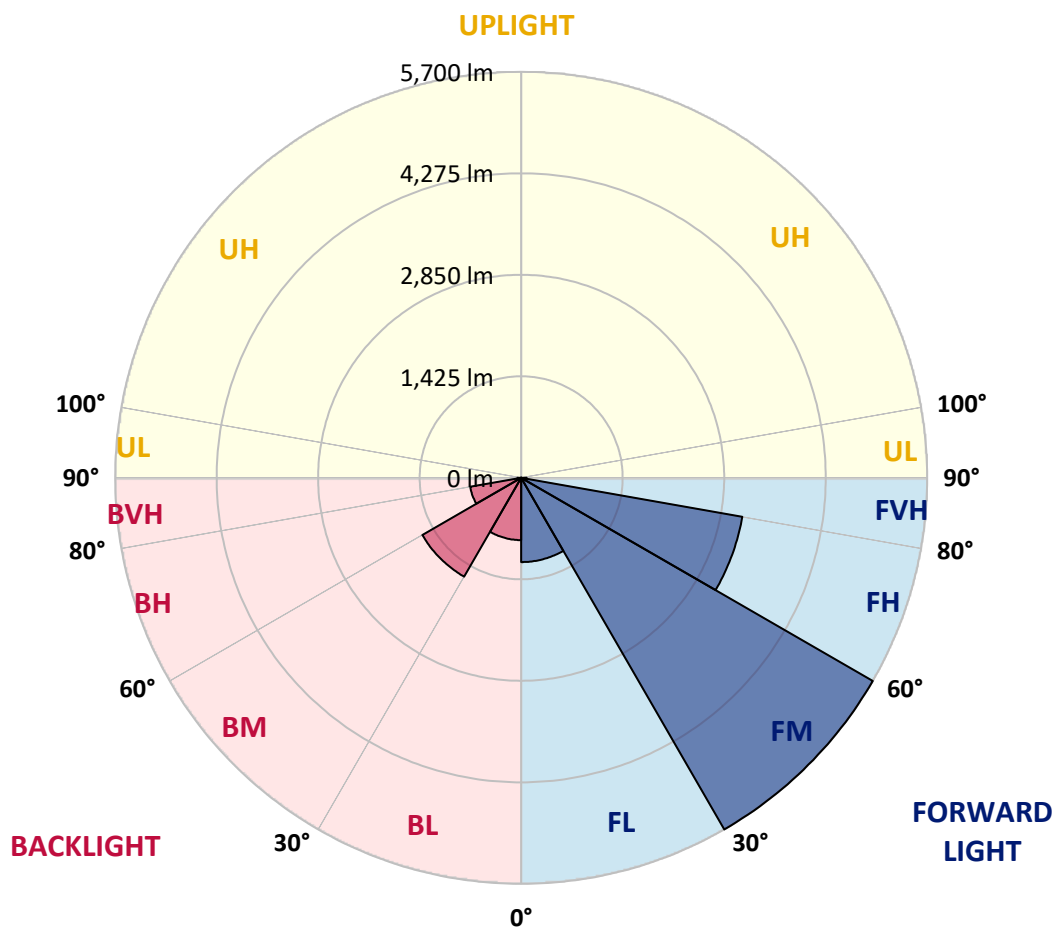
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.1	8.9			
FM	(30°-60°)	5700.3	42.6			
FH	(60°-80°)	3152.3	23.6			G2/5000
FVH	(80°-90°)	76.0	0.6			G1/100
BL	(0°-30°)	874.9	6.5	B2/1000		
BM	(30°-60°)	1602.5	12.0	B2/2500		
BH	(60°-80°)	726.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3
2.5°	2184.4	2181.0	2187.9	2198.2	2203.3	2194.7	2191.3	2189.6	2189.6	2184.4	2193.0
5°	2081.2	2079.5	2095.0	2113.9	2150.0	2175.8	2210.2	2230.9	2224.0	2213.7	2220.5
7.5°	1947.1	1943.6	1962.5	1998.7	2048.5	2105.3	2189.6	2254.9	2280.7	2277.3	2275.6
10°	1998.7	1995.2	1993.5	1983.2	2000.4	2055.4	2143.1	2258.4	2346.1	2347.8	2349.5
12.5°	2177.5	2186.1	2177.5	2144.9	2107.0	2086.4	2138.0	2267.0	2401.1	2411.5	2454.5
15°	2421.8	2413.2	2396.0	2358.1	2299.7	2237.7	2199.9	2306.5	2480.3	2488.9	2583.5
17.5°	2636.8	2643.7	2633.3	2597.2	2528.4	2447.6	2332.3	2375.3	2564.5	2588.6	2721.1
20°	2870.7	2898.2	2884.5	2839.7	2783.0	2662.6	2518.1	2475.1	2657.4	2674.6	2863.8
22.5°	3140.7	3170.0	3144.2	3101.2	3054.7	2906.8	2721.1	2597.2	2734.8	2770.9	3001.4
25°	3464.1	3491.6	3467.5	3400.5	3342.0	3161.4	2939.5	2734.8	2810.5	2850.1	3113.2
27.5°	3720.4	3741.0	3763.4	3723.8	3634.4	3446.9	3166.5	2877.6	2886.2	2927.5	3216.4
30°	3949.1	4000.7	4019.7	4024.8	3949.1	3739.3	3398.7	3025.5	2951.5	2994.5	3319.6
32.5°	4262.2	4339.6	4308.6	4339.6	4294.9	4014.5	3639.5	3178.6	3035.8	3075.4	3417.7
35°	4719.7	4781.6	4700.8	4676.7	4604.5	4293.2	3871.7	3336.8	3147.6	3190.6	3510.5
37.5°	5211.6	5282.2	5165.2	5068.9	4931.3	4568.4	4071.3	3544.9	3302.4	3336.8	3596.5
40°	5641.6	5700.1	5598.6	5471.4	5240.9	4810.9	4243.3	3691.1	3457.2	3500.2	3696.3
42.5°	6039.0	6076.8	5963.3	5841.2	5533.3	5029.3	4429.0	3845.9	3637.8	3679.1	3777.1
45°	6441.4	6470.7	6312.4	6138.7	5777.5	5228.8	4633.7	4062.7	3902.7	3957.7	3907.9
47.5°	6513.7	6522.3	6494.8	6377.8	5970.2	5419.8	4886.6	4353.4	4306.9	4367.1	4133.2
50°	6013.2	6090.6	6260.8	6376.1	6047.6	5579.7	5139.4	4769.6	4864.2	4941.6	4601.0
52.5°	5041.4	5115.3	5509.2	5946.1	5861.8	5615.8	5411.2	5297.6	5650.2	5743.1	5237.4
55°	4016.2	4081.6	4497.8	5127.4	5261.5	5450.7	5701.8	5971.9	6653.0	6714.9	5935.8
57.5°	3307.6	3343.7	3641.3	4246.7	4461.7	4922.7	5858.4	6773.4	7673.0	7767.6	6542.9
60°	2712.5	2752.0	2973.9	3472.7	3758.2	4167.6	5734.5	7564.6	8890.7	8890.7	7322.1
62.5°	2041.7	2076.1	2282.5	2672.9	3152.8	3527.7	5338.9	8089.2	9809.2	9768.0	7886.3
65°	1401.8	1429.3	1579.0	1838.7	2270.4	3006.6	4798.8	8096.1	10418.1	10363.1	8127.1
66°	1176.5	1200.6	1327.8	1537.7	1900.6	2727.9	4607.9	7949.9	10545.4	10468.0	8025.6
67.5°	928.8	946.0	1030.3	1154.1	1393.2	2208.5	4306.9	7535.4	10533.4	10486.9	7767.6
70°	663.9	676.0	737.9	763.7	823.9	1278.0	3421.1	6599.7	9688.8	9702.6	6752.8
72.5°	514.3	533.2	571.0	576.2	562.4	679.4	2076.1	5505.8	7925.8	7920.7	5012.1
75°	414.5	424.8	443.8	454.1	450.6	438.6	878.9	4107.4	5455.9	5519.5	2807.1
77.5°	326.8	325.1	342.3	356.0	366.4	344.0	402.5	2408.0	2860.4	2779.5	1054.4
80°	240.8	240.8	264.9	270.0	285.5	289.0	268.3	928.8	982.1	892.7	273.5
82.5°	158.2	158.2	184.0	187.5	203.0	225.3	194.4	278.6	271.8	258.0	123.8
85°	86.0	82.6	91.2	103.2	111.8	132.4	117.0	139.3	142.8	141.0	82.6
87.5°	17.2	15.5	24.1	27.5	31.0	41.3	37.8	56.8	79.1	77.4	36.1
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°	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3	2191.3
2.5°	2205.1	2203.3	2222.3	2244.6	2270.4	2285.9	2292.8	2304.8	2296.2	2299.7	2310.0
5°	2237.7	2242.9	2270.4	2299.7	2311.7	2303.1	2284.2	2277.3	2261.8	2258.4	2254.9
7.5°	2285.9	2294.5	2322.0	2328.9	2292.8	2232.6	2189.6	2165.5	2139.7	2132.8	2129.4
10°	2365.0	2370.2	2377.1	2306.5	2217.1	2136.3	2082.9	2060.6	2043.4	2029.6	2033.1
12.5°	2464.8	2461.3	2408.0	2261.8	2134.5	2052.0	2015.9	2002.1	1990.1	1981.5	1979.7
15°	2590.3	2566.3	2413.2	2199.9	2057.1	1988.3	1962.5	1957.4	1943.6	1943.6	1941.9
17.5°	2717.6	2655.7	2409.7	2134.5	1983.2	1945.3	1929.9	1926.4	1923.0	1921.3	1926.4
20°	2844.9	2734.8	2382.2	2053.7	1931.6	1909.2	1905.8	1907.5	1904.1	1909.2	1905.8
22.5°	2956.7	2786.4	2330.6	1967.7	1895.5	1893.7	1885.1	1888.6	1900.6	1902.3	1907.5
25°	3042.7	2805.3	2254.9	1888.6	1869.7	1866.2	1876.5	1890.3	1900.6	1902.3	1910.9
27.5°	3113.2	2795.0	2160.3	1826.7	1824.9	1843.9	1874.8	1880.0	1881.7	1881.7	1874.8
30°	3166.5	2772.7	2039.9	1757.9	1766.5	1812.9	1842.1	1842.1	1828.4	1824.9	1835.3
32.5°	3178.6	2743.4	1909.2	1687.3	1701.1	1756.1	1792.3	1780.2	1764.7	1764.7	1771.6
35°	3188.9	2703.9	1804.3	1591.0	1611.7	1677.0	1711.4	1687.3	1670.1	1665.0	1663.3
37.5°	3185.5	2688.4	1709.7	1468.9	1496.4	1560.1	1582.4	1560.1	1534.3	1522.2	1537.7
40°	3188.9	2678.1	1591.0	1334.7	1362.2	1400.1	1429.3	1412.1	1388.0	1357.1	1372.6
42.5°	3209.5	2691.8	1460.3	1204.0	1204.0	1224.6	1274.5	1262.5	1204.0	1192.0	1205.7
45°	3319.6	2765.8	1329.6	1073.3	1054.4	1068.1	1119.7	1068.1	1032.0	1032.0	1044.0
47.5°	3586.2	2903.4	1214.3	958.0	913.3	940.8	954.6	906.4	878.9	872.0	884.1
50°	4129.7	3178.6	1145.5	863.4	808.4	829.0	820.4	818.7	791.2	794.6	801.5
52.5°	4955.4	3715.2	1124.9	817.0	748.2	753.4	744.8	748.2	743.0	760.2	765.4
55°	5854.9	4281.1	1150.7	823.9	706.9	670.8	674.2	691.4	712.1	739.6	744.8
57.5°	6527.4	4564.9	1217.8	870.3	655.3	600.3	608.9	641.6	681.1	703.5	715.5
60°	7028.0	4530.5	1315.8	882.4	593.4	536.6	552.1	600.3	634.7	653.6	665.6
62.5°	7191.4	4315.5	1339.9	794.6	512.6	476.4	514.3	564.2	579.6	600.3	608.9
65°	7057.2	4011.1	1164.4	645.0	450.6	431.7	486.8	524.6	545.2	555.6	557.3
66°	6899.0	3828.7	1069.8	586.5	428.3	418.0	476.4	507.4	528.0	526.3	528.0
67.5°	6551.5	3446.9	916.8	504.0	395.6	397.3	459.2	479.9	486.8	481.6	481.6
70°	5369.9	2426.9	657.0	381.8	347.4	371.5	412.8	418.0	433.4	426.6	426.6
72.5°	3311.0	1192.0	440.3	292.4	309.6	347.4	345.7	362.9	399.0	409.4	416.2
75°	1627.1	483.3	290.7	247.7	276.9	290.7	287.2	330.2	381.8	426.6	442.0
77.5°	617.5	240.8	203.0	216.7	223.6	218.4	228.8	299.3	381.8	462.7	478.2
80°	190.9	166.8	160.0	178.9	168.6	160.0	172.0	247.7	323.4	350.9	350.9
82.5°	115.2	130.7	123.8	122.1	113.5	115.2	123.8	177.2	249.4	261.4	261.4
85°	80.8	86.0	70.5	67.1	65.4	63.6	63.6	103.2	147.9	146.2	151.4
87.5°	31.0	34.4	25.8	25.8	24.1	17.2	13.8	17.2	17.2	12.0	8.6
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)