

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: P1211669

Luminaire Tested: **ARCH4-80-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211669
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: ARCH4-80-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12241 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

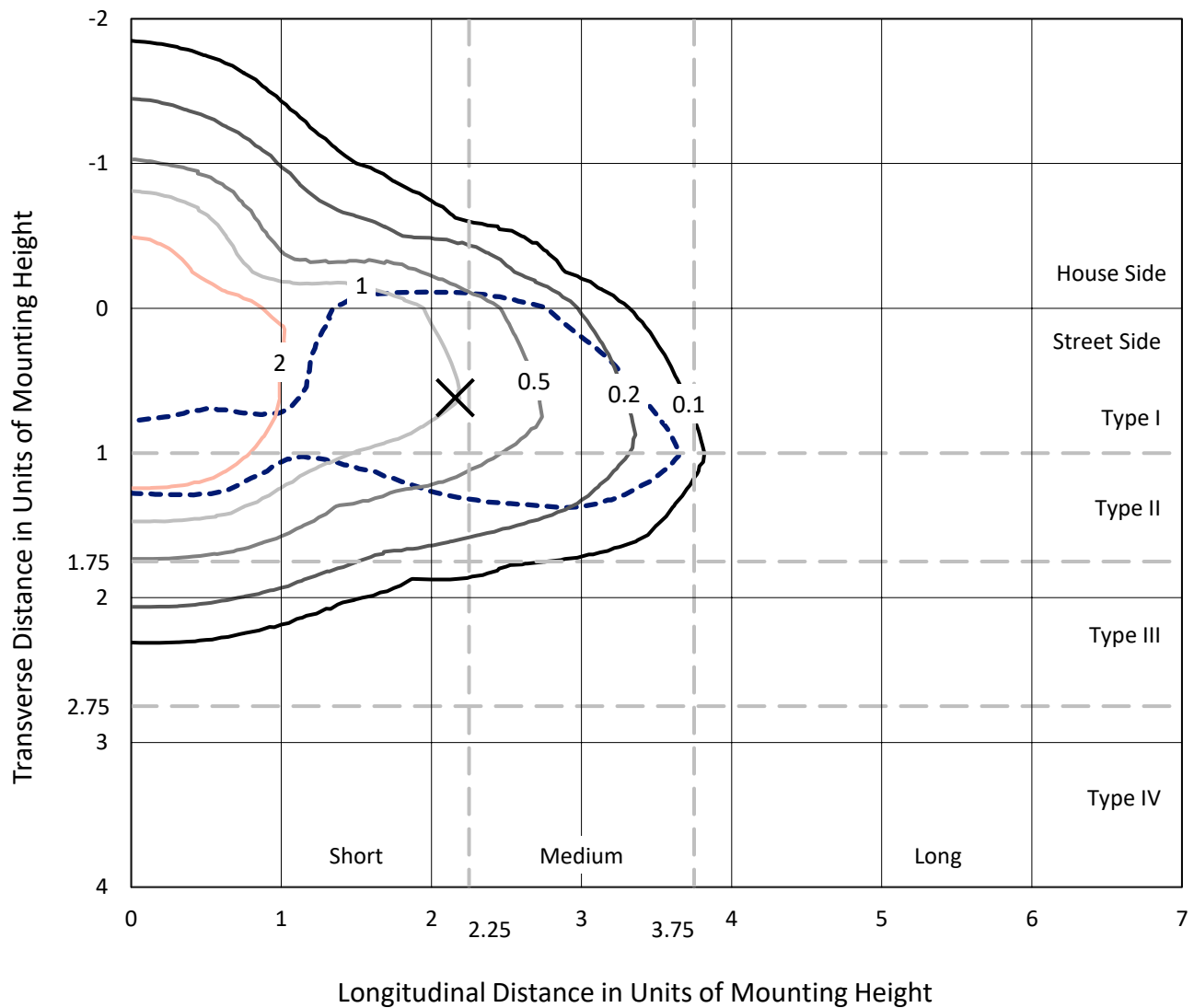


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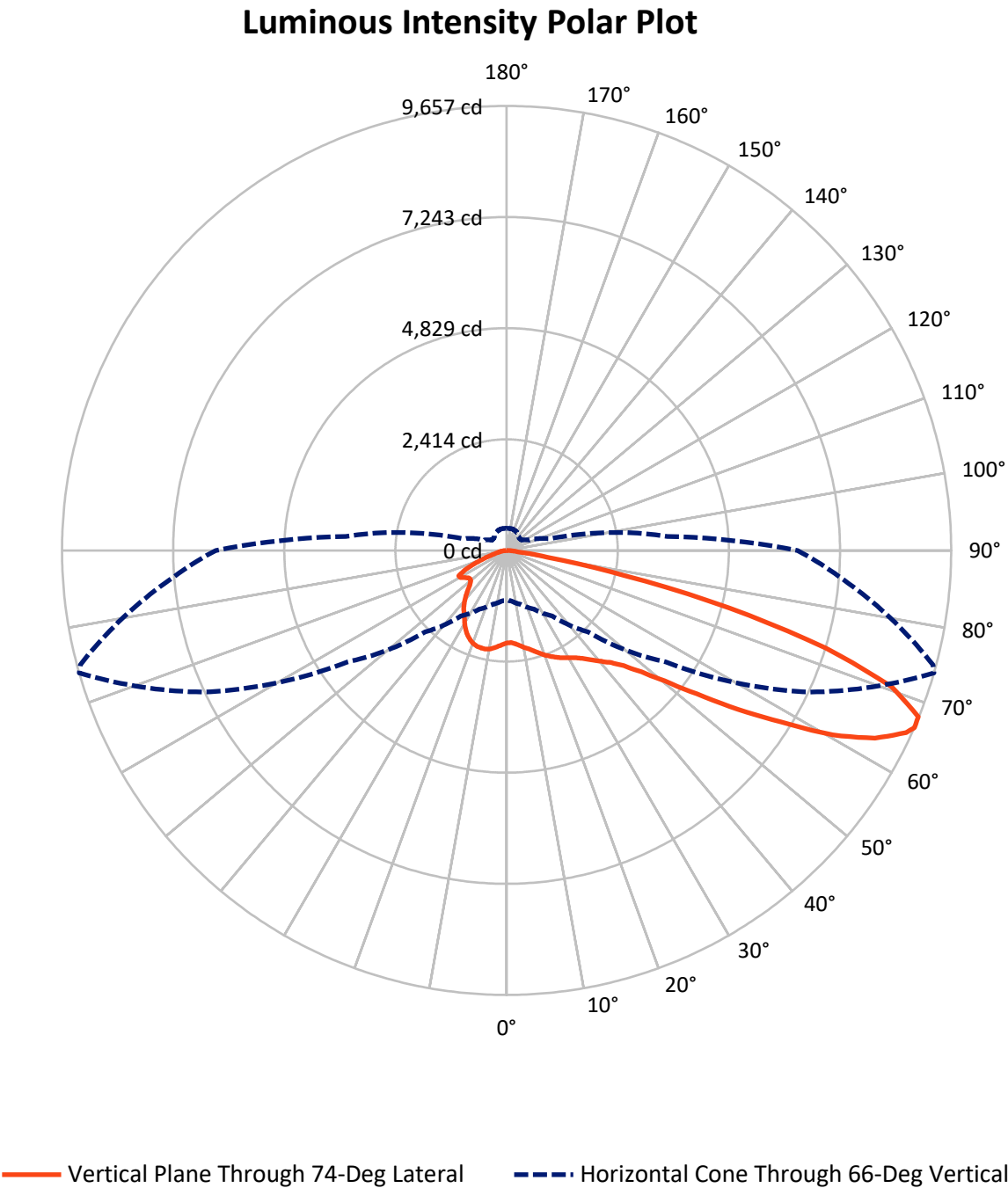
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2981.0	0.0	2981.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9260.0	0.0	9260.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	12241.0	0.0	12241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	1.6
10°-20°	588.7	4.8
20°-30°	1104.6	9.0
30°-40°	1699.2	13.9
40°-50°	2285.5	18.7
50°-60°	2702.9	22.1
60°-70°	2500.4	20.4
70°-80°	1051.9	8.6
80°-90°	116.4	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°	12241.0	100.0
0°-180°	12241.0	100.0

Coefficient of Utilization



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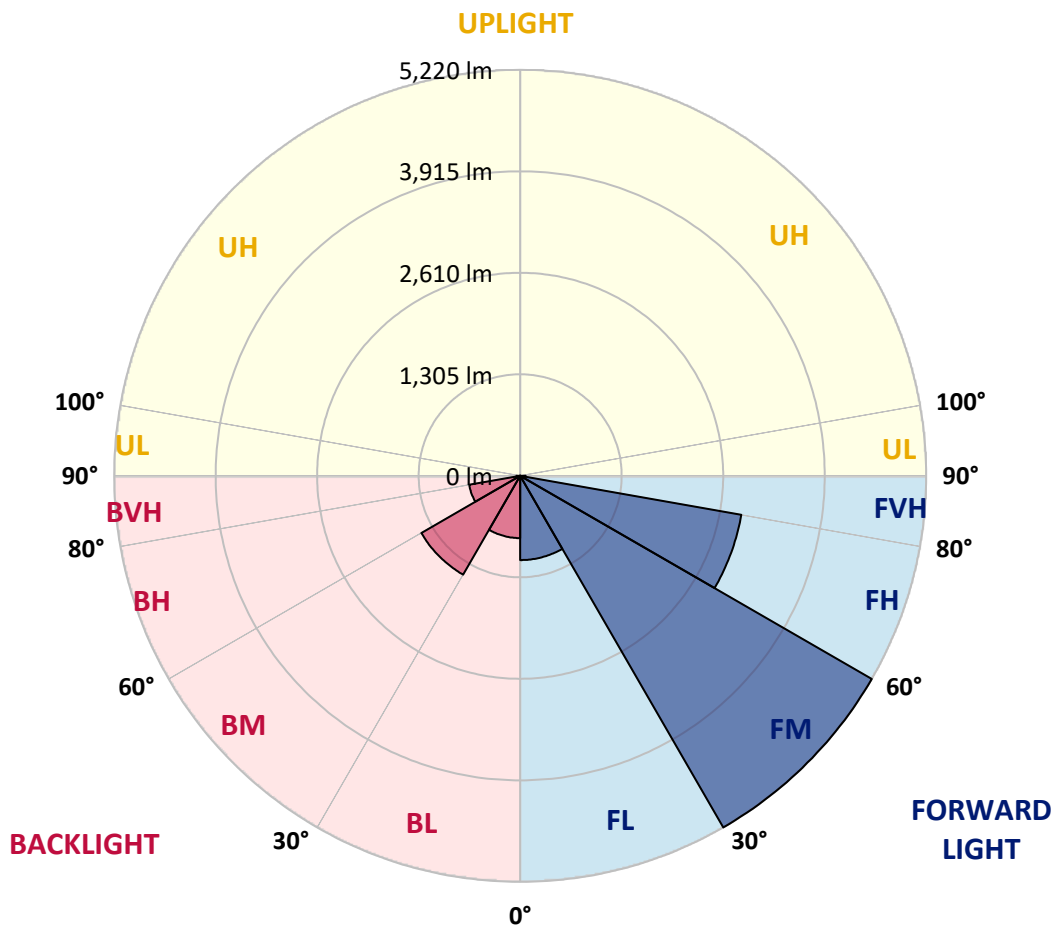
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.5	8.9			
FM	(30°-60°)	5220.1	42.6			
FH	(60°-80°)	2886.8	23.6			G2/5000
FVH	(80°-90°)	69.6	0.6			G1/100
BL	(0°-30°)	801.2	6.5	B2/1000		
BM	(30°-60°)	1467.6	12.0	B2/2500		
BH	(60°-80°)	665.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	46.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7
2.5°	2000.4	1997.3	2003.6	2013.0	2017.7	2009.9	2006.7	2005.1	2005.1	2000.4	2008.3
5°	1905.9	1904.3	1918.5	1935.8	1968.9	1992.5	2024.0	2042.9	2036.6	2027.2	2033.5
7.5°	1783.0	1779.9	1797.2	1830.3	1876.0	1928.0	2005.1	2065.0	2088.6	2085.5	2083.9
10°	1830.3	1827.1	1825.6	1816.1	1831.9	1882.3	1962.6	2068.1	2148.5	2150.0	2151.6
12.5°	1994.1	2002.0	1994.1	1964.2	1929.5	1910.6	1957.9	2076.0	2198.9	2208.3	2247.7
15°	2217.8	2209.9	2194.1	2159.5	2105.9	2049.2	2014.6	2112.2	2271.3	2279.2	2365.8
17.5°	2414.7	2421.0	2411.5	2378.4	2315.4	2241.4	2135.9	2175.2	2348.5	2370.6	2491.8
20°	2628.9	2654.1	2641.5	2600.5	2548.5	2438.3	2306.0	2266.6	2433.6	2449.3	2622.6
22.5°	2876.2	2903.0	2879.3	2839.9	2797.4	2662.0	2491.8	2378.4	2504.4	2537.5	2748.6
25°	3172.3	3197.5	3175.4	3114.0	3060.5	2895.1	2691.9	2504.4	2573.8	2610.0	2851.0
27.5°	3407.0	3425.9	3446.4	3410.1	3328.2	3156.5	2899.8	2635.2	2643.1	2680.9	2945.5
30°	3616.5	3663.7	3681.1	3685.8	3616.5	3424.3	3112.4	2770.6	2702.9	2742.3	3040.0
32.5°	3903.2	3974.0	3945.7	3974.0	3933.1	3676.3	3333.0	2910.8	2780.1	2816.3	3129.8
35°	4322.1	4378.8	4304.8	4282.8	4216.6	3931.5	3545.6	3055.7	2882.5	2921.9	3214.8
37.5°	4772.6	4837.2	4730.1	4641.9	4515.9	4183.5	3728.3	3246.3	3024.2	3055.7	3293.6
40°	5166.4	5220.0	5127.0	5010.5	4799.4	4405.6	3885.8	3380.2	3166.0	3205.4	3384.9
42.5°	5530.3	5564.9	5461.0	5349.1	5067.2	4605.7	4055.9	3522.0	3331.4	3369.2	3459.0
45°	5898.8	5925.6	5780.7	5621.6	5290.8	4788.4	4243.4	3720.4	3574.0	3624.4	3578.7
47.5°	5965.0	5972.9	5947.7	5840.6	5467.3	4963.2	4474.9	3986.6	3944.1	3999.2	3785.0
50°	5506.6	5577.5	5733.4	5839.0	5538.1	5109.7	4706.5	4367.8	4454.4	4525.3	4213.5
52.5°	4616.7	4684.4	5045.1	5445.2	5368.0	5142.8	4955.3	4851.4	5174.3	5259.3	4796.2
55°	3677.9	3737.8	4118.9	4695.4	4818.3	4991.6	5221.5	5468.8	6092.6	6149.3	5435.7
57.5°	3029.0	3062.0	3334.5	3889.0	4085.9	4508.0	5364.9	6202.8	7026.6	7113.3	5991.8
60°	2484.0	2520.2	2723.4	3180.2	3441.6	3816.5	5251.5	6927.4	8141.8	8141.8	6705.3
62.5°	1869.7	1901.2	2090.2	2447.7	2887.2	3230.6	4889.2	7407.8	8982.9	8945.1	7221.9
65°	1283.7	1308.9	1446.0	1683.8	2079.2	2753.3	4394.6	7414.1	9540.5	9490.1	7442.5
66°	1077.4	1099.4	1216.0	1408.2	1740.5	2498.1	4219.8	7280.2	9657.1	9586.2	7349.5
67.5°	850.6	866.3	943.5	1056.9	1275.8	2022.5	3944.1	6900.6	9646.1	9603.5	7113.3
70°	608.0	619.0	675.7	699.4	754.5	1170.3	3132.9	6043.7	8872.7	8885.3	6183.9
72.5°	471.0	488.3	522.9	527.7	515.1	622.2	1901.2	5042.0	7258.2	7253.4	4589.9
75°	379.6	389.1	406.4	415.8	412.7	401.7	804.9	3761.4	4996.3	5054.6	2570.6
77.5°	299.3	297.7	313.4	326.1	335.5	315.0	368.6	2205.2	2619.4	2545.4	965.6
80°	220.5	220.5	242.6	247.3	261.5	264.6	245.7	850.6	899.4	817.5	250.4
82.5°	144.9	144.9	168.5	171.7	185.9	206.3	178.0	255.2	248.9	236.3	113.4
85°	78.8	75.6	83.5	94.5	102.4	121.3	107.1	127.6	130.7	129.2	75.6
87.5°	15.8	14.2	22.1	25.2	28.4	37.8	34.7	52.0	72.5	70.9	33.1
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°	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7	2006.7
2.5°	2019.3	2017.7	2035.1	2055.5	2079.2	2093.3	2099.6	2110.7	2102.8	2105.9	2115.4
5°	2049.2	2054.0	2079.2	2105.9	2117.0	2109.1	2091.8	2085.5	2071.3	2068.1	2065.0
7.5°	2093.3	2101.2	2126.4	2132.7	2099.6	2044.5	2005.1	1983.1	1959.5	1953.2	1950.0
10°	2165.8	2170.5	2176.8	2112.2	2030.3	1956.3	1907.5	1887.0	1871.2	1858.6	1861.8
12.5°	2257.2	2254.0	2205.2	2071.3	1954.7	1879.1	1846.0	1833.4	1822.4	1814.5	1813.0
15°	2372.1	2350.1	2209.9	2014.6	1883.8	1820.8	1797.2	1792.5	1779.9	1779.9	1778.3
17.5°	2488.7	2432.0	2206.7	1954.7	1816.1	1781.5	1767.3	1764.1	1761.0	1759.4	1764.1
20°	2605.3	2504.4	2181.5	1880.7	1768.9	1748.4	1745.2	1746.8	1743.7	1748.4	1745.2
22.5°	2707.6	2551.7	2134.3	1801.9	1735.8	1734.2	1726.3	1729.5	1740.5	1742.1	1746.8
25°	2786.4	2569.0	2065.0	1729.5	1712.2	1709.0	1718.5	1731.1	1740.5	1742.1	1750.0
27.5°	2851.0	2559.6	1978.4	1672.8	1671.2	1688.5	1716.9	1721.6	1723.2	1723.2	1716.9
30°	2899.8	2539.1	1868.1	1609.8	1617.7	1660.2	1687.0	1687.0	1674.4	1671.2	1680.7
32.5°	2910.8	2512.3	1748.4	1545.2	1557.8	1608.2	1641.3	1630.3	1616.1	1616.1	1622.4
35°	2920.3	2476.1	1652.3	1457.0	1475.9	1535.7	1567.2	1545.2	1529.4	1524.7	1523.1
37.5°	2917.1	2461.9	1565.7	1345.2	1370.4	1428.6	1449.1	1428.6	1405.0	1394.0	1408.2
40°	2920.3	2452.5	1457.0	1222.3	1247.5	1282.2	1308.9	1293.2	1271.1	1242.8	1256.9
42.5°	2939.2	2465.1	1337.3	1102.6	1102.6	1121.5	1167.2	1156.1	1102.6	1091.6	1104.2
45°	3040.0	2532.8	1217.6	982.9	965.6	978.2	1025.4	978.2	945.1	945.1	956.1
47.5°	3284.1	2658.8	1112.0	877.3	836.4	861.6	874.2	830.1	804.9	798.6	809.6
50°	3781.9	2910.8	1049.0	790.7	740.3	759.2	751.3	749.8	724.6	727.7	734.0
52.5°	4537.9	3402.3	1030.1	748.2	685.2	689.9	682.0	685.2	680.5	696.2	700.9
55°	5361.7	3920.5	1053.8	754.5	647.4	614.3	617.4	633.2	652.1	677.3	682.0
57.5°	5977.6	4180.4	1115.2	797.0	600.1	549.7	557.6	587.5	623.7	644.2	655.3
60°	6436.0	4148.9	1205.0	808.0	543.4	491.4	505.6	549.7	581.2	598.5	609.6
62.5°	6585.6	3952.0	1227.0	727.7	469.4	436.3	471.0	516.6	530.8	549.7	557.6
65°	6462.7	3673.2	1066.4	590.7	412.7	395.4	445.8	480.4	499.3	508.8	510.3
66°	6317.8	3506.2	979.7	537.1	392.2	382.8	436.3	464.7	483.6	482.0	483.6
67.5°	5999.6	3156.5	839.5	461.5	362.3	363.9	420.6	439.5	445.8	441.0	441.0
70°	4917.5	2222.5	601.7	349.7	318.2	340.2	378.0	382.8	396.9	390.6	390.6
72.5°	3032.1	1091.6	403.2	267.8	283.5	318.2	316.6	332.4	365.4	374.9	381.2
75°	1490.1	442.6	266.2	226.8	253.6	266.2	263.0	302.4	349.7	390.6	404.8
77.5°	565.5	220.5	185.9	198.5	204.8	200.0	209.5	274.1	349.7	423.7	437.9
80°	174.8	152.8	146.5	163.8	154.4	146.5	157.5	226.8	296.1	321.3	321.3
82.5°	105.5	119.7	113.4	111.8	104.0	105.5	113.4	162.2	228.4	239.4	239.4
85°	74.0	78.8	64.6	61.4	59.9	58.3	58.3	94.5	135.5	133.9	138.6
87.5°	28.4	31.5	23.6	23.6	22.1	15.8	12.6	15.8	15.8	11.0	7.9
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)