

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: P1210105

Luminaire Tested: **ARCH2-110-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210105
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: ARCH2-110-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12899 lumens
Efficiency: N/A
Efficacy: 117.8 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

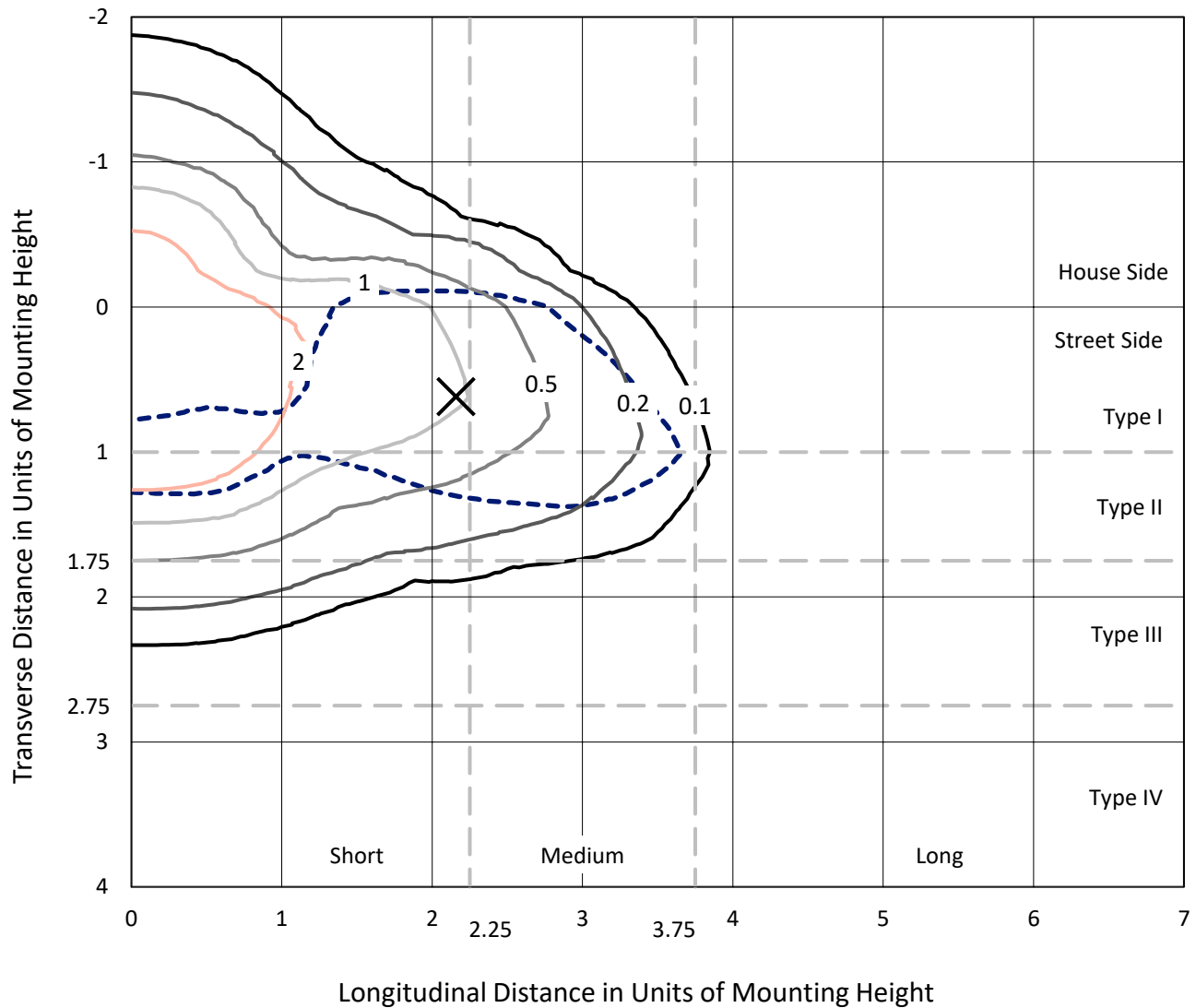


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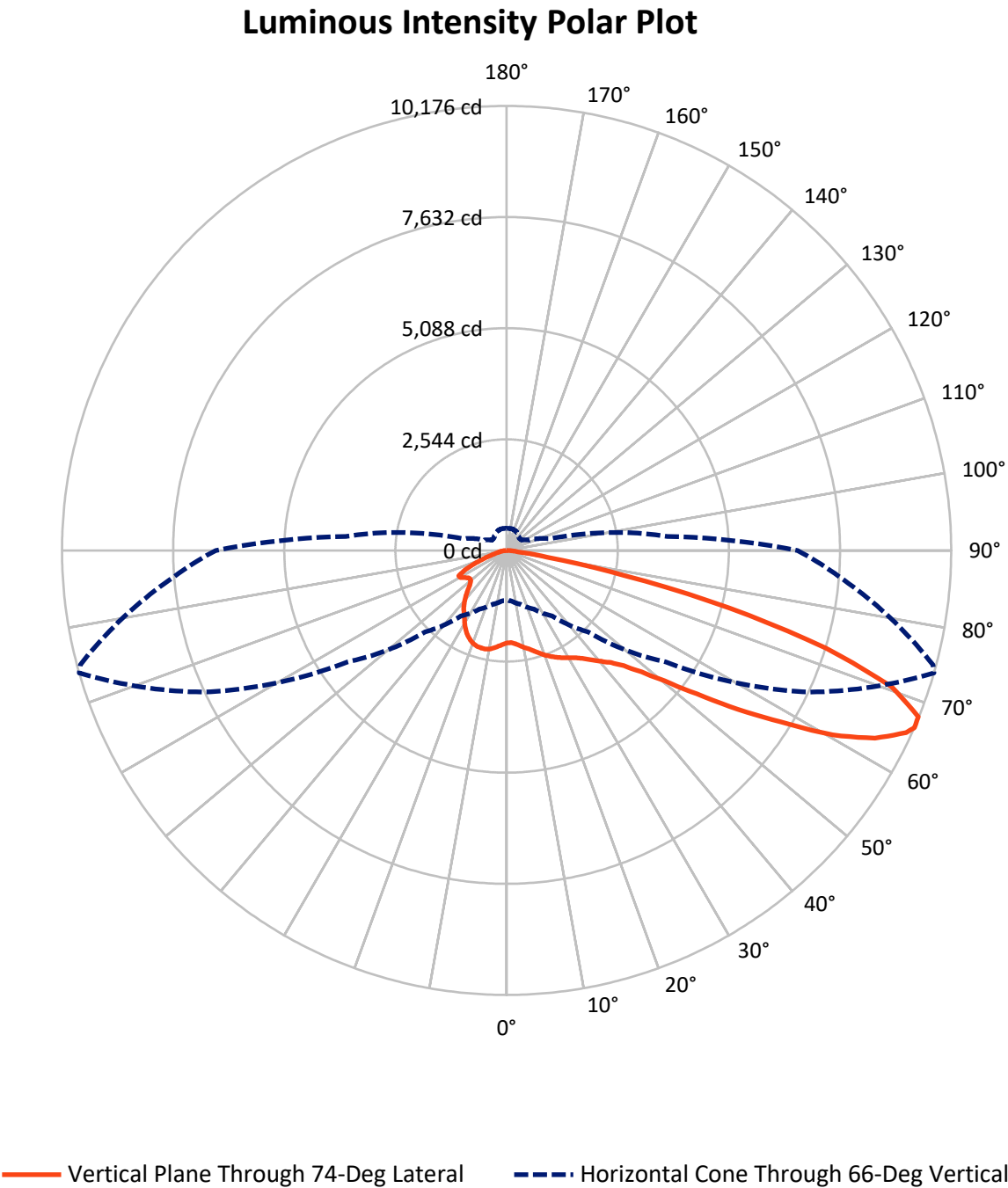
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3141.3	0.0	3141.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	9757.7	0.0	9757.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	12899.0	0.0	12899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	1.6
10°-20°	620.3	4.8
20°-30°	1164.0	9.0
30°-40°	1790.5	13.9
40°-50°	2408.4	18.7
50°-60°	2848.2	22.1
60°-70°	2634.8	20.4
70°-80°	1108.4	8.6
80°-90°	122.7	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°	12899.0	100.0
0°-180°	12899.0	100.0

Coefficient of Utilization



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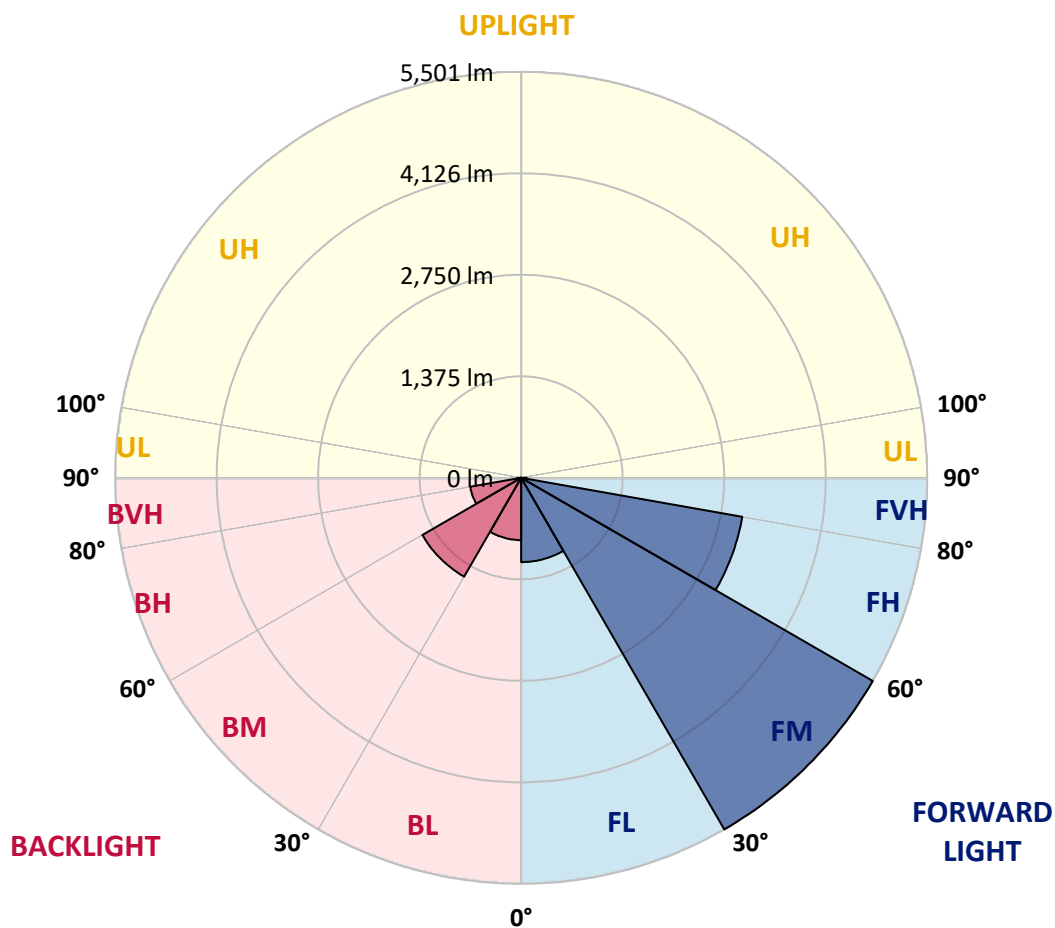
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.7	8.9			
FM	(30°-60°)	5500.7	42.6			
FH	(60°-80°)	3041.9	23.6			G2/5000
FVH	(80°-90°)	73.4	0.6			G1/100
BL	(0°-30°)	844.3	6.5	B2/1000		
BM	(30°-60°)	1546.4	12.0	B2/2500		
BH	(60°-80°)	701.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	49.3	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°	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6
2.5°	2107.9	2104.6	2111.3	2121.2	2126.2	2117.9	2114.6	2112.9	2112.9	2107.9	2116.2
5°	2008.3	2006.7	2021.6	2039.9	2074.7	2099.6	2132.8	2152.8	2146.1	2136.2	2142.8
7.5°	1878.9	1875.6	1893.8	1928.7	1976.8	2031.6	2112.9	2176.0	2200.9	2197.6	2195.9
10°	1928.7	1925.4	1923.7	1913.7	1930.3	1983.5	2068.1	2179.3	2264.0	2265.6	2267.3
12.5°	2101.3	2109.6	2101.3	2069.8	2033.2	2013.3	2063.1	2187.6	2317.1	2327.0	2368.5
15°	2337.0	2328.7	2312.1	2275.6	2219.1	2159.4	2122.9	2225.8	2393.4	2401.7	2493.0
17.5°	2544.5	2551.1	2541.1	2506.3	2439.9	2361.9	2250.7	2292.2	2474.7	2498.0	2625.8
20°	2770.2	2796.7	2783.5	2740.3	2685.5	2569.4	2429.9	2388.4	2564.4	2581.0	2763.6
22.5°	3030.8	3059.0	3034.1	2992.6	2947.8	2805.0	2625.8	2506.3	2639.1	2673.9	2896.3
25°	3342.8	3369.4	3346.1	3281.4	3225.0	3050.7	2836.6	2639.1	2712.1	2750.3	3004.2
27.5°	3590.1	3610.0	3631.6	3593.4	3507.1	3326.2	3055.7	2776.8	2785.1	2825.0	3103.8
30°	3810.9	3860.7	3878.9	3883.9	3810.9	3608.4	3279.7	2919.6	2848.2	2889.7	3203.4
32.5°	4113.0	4187.7	4157.8	4187.7	4144.5	3874.0	3512.1	3067.3	2929.5	2967.7	3298.0
35°	4554.5	4614.2	4536.2	4513.0	4443.3	4142.8	3736.2	3220.0	3037.4	3078.9	3387.6
37.5°	5029.2	5097.2	4984.4	4891.4	4758.6	4408.4	3928.7	3420.8	3186.8	3220.0	3470.6
40°	5444.1	5500.6	5402.6	5279.8	5057.4	4642.4	4094.7	3561.9	3336.2	3377.7	3566.9
42.5°	5827.5	5864.0	5754.5	5636.7	5339.6	4853.2	4274.0	3711.3	3510.5	3550.3	3644.9
45°	6215.9	6244.1	6091.4	5923.8	5575.2	5045.8	4471.5	3920.4	3766.1	3819.2	3771.0
47.5°	6285.6	6293.9	6267.4	6154.5	5761.1	5230.0	4715.5	4200.9	4156.1	4214.2	3988.5
50°	5802.6	5877.3	6041.6	6152.8	5835.8	5384.4	4959.5	4602.6	4693.9	4768.6	4439.9
52.5°	4864.9	4936.2	5316.3	5737.9	5656.6	5419.2	5221.7	5112.2	5452.4	5542.0	5054.1
55°	3875.6	3938.7	4340.4	4947.8	5077.3	5259.9	5502.2	5762.8	6420.1	6479.8	5727.9
57.5°	3191.8	3226.6	3513.8	4098.0	4305.5	4750.3	5653.3	6536.3	7404.3	7495.6	6313.8
60°	2617.5	2655.7	2869.8	3351.1	3626.6	4021.7	5533.7	7299.8	8579.5	8579.5	7065.7
62.5°	1970.2	2003.4	2202.5	2579.3	3042.4	3404.2	5152.0	7806.0	9465.8	9426.0	7610.1
65°	1352.7	1379.3	1523.7	1774.3	2190.9	2901.3	4630.8	7812.6	10053.4	10000.2	7842.5
66°	1135.3	1158.5	1281.4	1483.9	1834.1	2632.4	4446.6	7671.6	10176.2	10101.5	7744.6
67.5°	896.3	912.9	994.2	1113.7	1344.4	2131.2	4156.1	7271.5	10164.6	10119.8	7495.6
70°	640.7	652.3	712.1	736.9	795.0	1233.2	3301.3	6368.6	9349.6	9362.9	6516.3
72.5°	496.3	514.5	551.1	556.0	542.8	655.6	2003.4	5313.0	7648.3	7643.3	4836.6
75°	400.0	410.0	428.2	438.2	434.9	423.2	848.2	3963.6	5264.9	5326.3	2708.8
77.5°	315.4	313.7	330.3	343.6	353.5	332.0	388.4	2323.7	2760.2	2682.2	1017.5
80°	232.4	232.4	255.6	260.6	275.5	278.8	258.9	896.3	947.7	861.4	263.9
82.5°	152.7	152.7	177.6	180.9	195.9	217.4	187.6	268.9	262.2	249.0	119.5
85°	83.0	79.7	88.0	99.6	107.9	127.8	112.9	134.4	137.8	136.1	79.7
87.5°	16.6	14.9	23.2	26.6	29.9	39.8	36.5	54.8	76.4	74.7	34.9
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°	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6	2114.6
2.5°	2127.9	2126.2	2144.5	2166.0	2190.9	2205.9	2212.5	2224.1	2215.8	2219.1	2229.1
5°	2159.4	2164.4	2190.9	2219.1	2230.8	2222.5	2204.2	2197.6	2182.6	2179.3	2176.0
7.5°	2205.9	2214.2	2240.7	2247.4	2212.5	2154.4	2112.9	2089.7	2064.8	2058.1	2054.8
10°	2282.2	2287.2	2293.8	2225.8	2139.5	2061.5	2010.0	1988.4	1971.8	1958.6	1961.9
12.5°	2378.5	2375.2	2323.7	2182.6	2059.8	1980.1	1945.3	1932.0	1920.4	1912.1	1910.4
15°	2499.6	2476.4	2328.7	2122.9	1985.1	1918.7	1893.8	1888.8	1875.6	1875.6	1873.9
17.5°	2622.5	2562.7	2325.4	2059.8	1913.7	1877.2	1862.3	1859.0	1855.6	1854.0	1859.0
20°	2745.3	2639.1	2298.8	1981.8	1863.9	1842.4	1839.0	1840.7	1837.4	1842.4	1839.0
22.5°	2853.2	2688.9	2249.0	1898.8	1829.1	1827.4	1819.1	1822.5	1834.1	1835.7	1840.7
25°	2936.2	2707.1	2176.0	1822.5	1804.2	1800.9	1810.8	1824.1	1834.1	1835.7	1844.0
27.5°	3004.2	2697.2	2084.7	1762.7	1761.0	1779.3	1809.2	1814.2	1815.8	1815.8	1809.2
30°	3055.7	2675.6	1968.5	1696.3	1704.6	1749.4	1777.6	1777.6	1764.4	1761.0	1771.0
32.5°	3067.3	2647.4	1842.4	1628.3	1641.5	1694.6	1729.5	1717.9	1702.9	1702.9	1709.6
35°	3077.3	2609.2	1741.1	1535.3	1555.2	1618.3	1651.5	1628.3	1611.7	1606.7	1605.0
37.5°	3073.9	2594.3	1649.8	1417.5	1444.0	1505.4	1527.0	1505.4	1480.5	1468.9	1483.9
40°	3077.3	2584.3	1535.3	1288.0	1314.6	1351.1	1379.3	1362.7	1339.5	1309.6	1324.5
42.5°	3097.2	2597.6	1409.2	1161.9	1161.9	1181.8	1229.9	1218.3	1161.9	1150.2	1163.5
45°	3203.4	2668.9	1283.0	1035.7	1017.5	1030.7	1080.5	1030.7	995.9	995.9	1007.5
47.5°	3460.7	2801.7	1171.8	924.5	881.3	907.9	921.2	874.7	848.2	841.5	853.1
50°	3985.2	3067.3	1105.4	833.2	780.1	800.0	791.7	790.1	763.5	766.8	773.5
52.5°	4781.9	3585.2	1085.5	788.4	722.0	727.0	718.7	722.0	717.0	733.6	738.6
55°	5649.9	4131.2	1110.4	795.0	682.2	647.3	650.6	667.2	687.2	713.7	718.7
57.5°	6298.9	4405.1	1175.1	839.9	632.4	579.3	587.6	619.1	657.3	678.9	690.5
60°	6781.9	4371.9	1269.7	851.5	572.6	517.9	532.8	579.3	612.5	630.7	642.3
62.5°	6939.6	4164.4	1293.0	766.8	494.6	459.8	496.3	544.4	559.3	579.3	587.6
65°	6810.1	3870.6	1123.7	622.4	434.9	416.6	469.7	506.2	526.2	536.1	537.8
66°	6657.4	3694.7	1032.4	566.0	413.3	403.3	459.8	489.6	509.6	507.9	509.6
67.5°	6322.1	3326.2	884.7	486.3	381.8	383.4	443.2	463.1	469.7	464.7	464.7
70°	5181.9	2342.0	634.0	368.5	335.3	358.5	398.4	403.3	418.3	411.6	411.6
72.5°	3195.1	1150.2	424.9	282.2	298.8	335.3	333.6	350.2	385.1	395.0	401.7
75°	1570.2	466.4	280.5	239.0	267.2	280.5	277.2	318.7	368.5	411.6	426.6
77.5°	595.9	232.4	195.9	209.1	215.8	210.8	220.8	288.8	368.5	446.5	461.4
80°	184.2	161.0	154.4	172.6	162.7	154.4	166.0	239.0	312.0	338.6	338.6
82.5°	111.2	126.1	119.5	117.8	109.5	111.2	119.5	171.0	240.7	252.3	252.3
85°	78.0	83.0	68.1	64.7	63.1	61.4	61.4	99.6	142.7	141.1	146.1
87.5°	29.9	33.2	24.9	24.9	23.2	16.6	13.3	16.6	16.6	11.6	8.3
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)