

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: P1210085

Luminaire Tested: **ARCH2-100-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210085
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: ARCH2-100-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13548 lumens
Efficiency: N/A
Efficacy: 131.2 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): 103.3
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

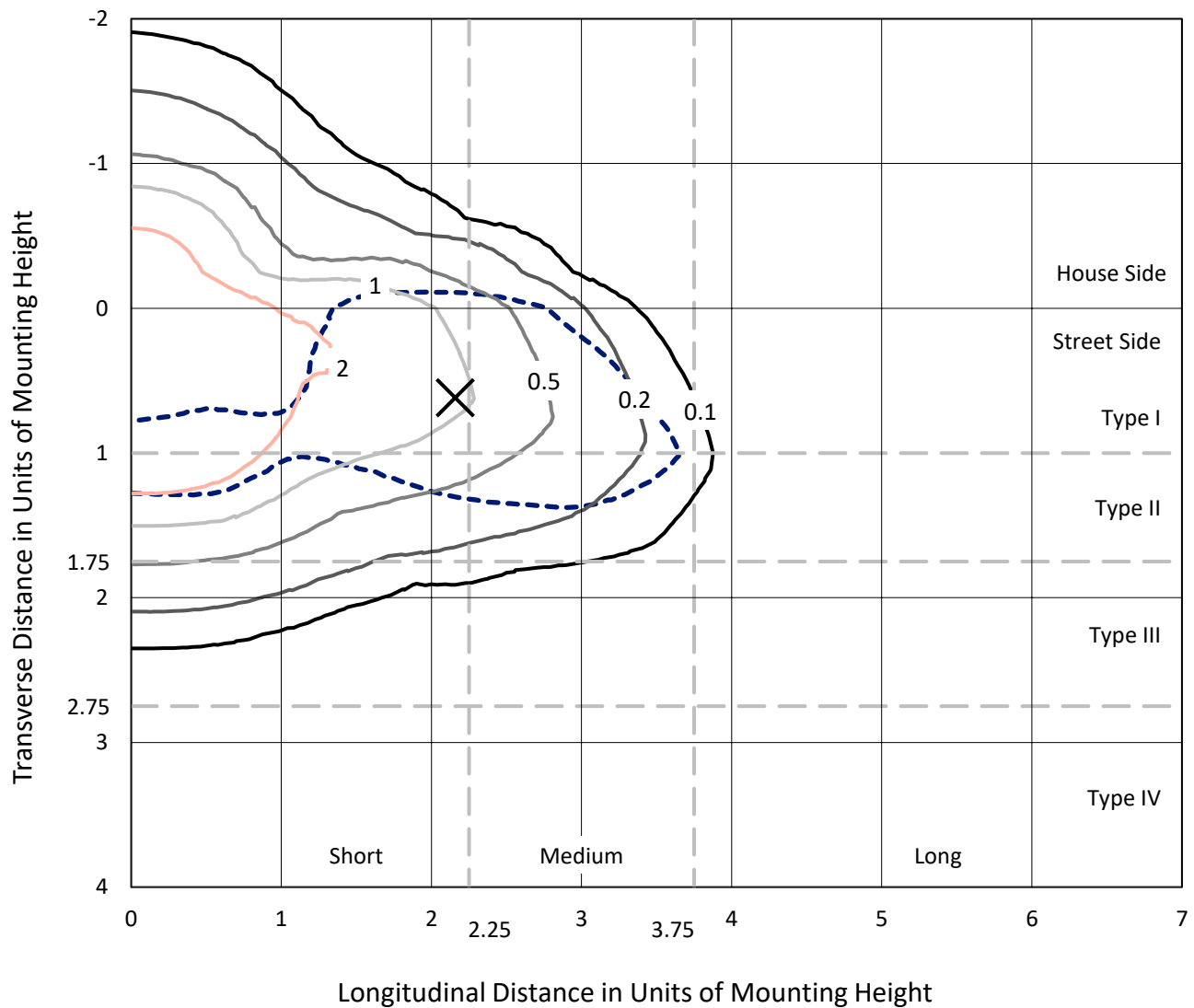


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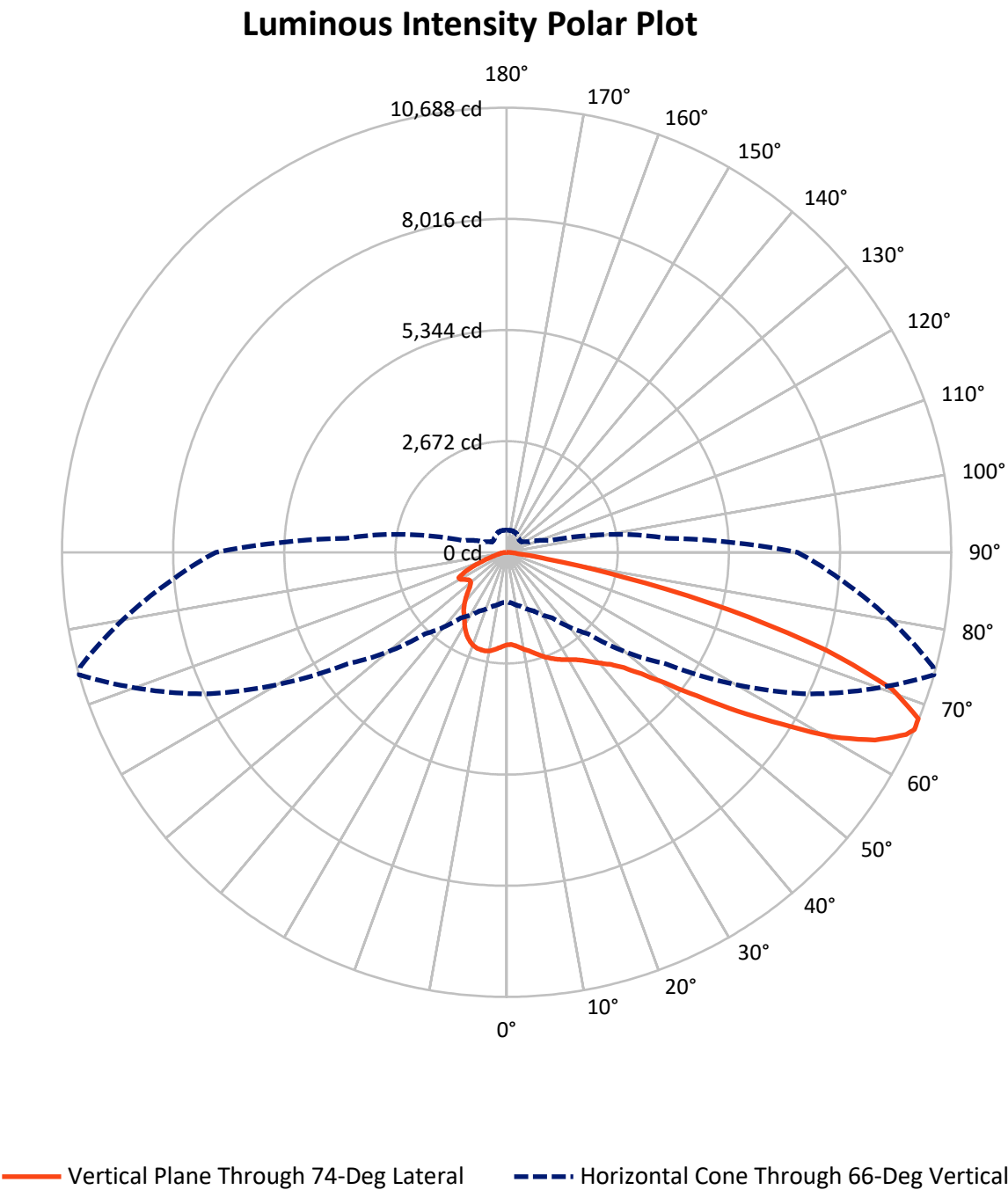
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.3	0.0	3299.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10248.7	0.0	10248.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	13548.0	0.0	13548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	1.6
10°-20°	651.5	4.8
20°-30°	1222.6	9.0
30°-40°	1880.6	13.9
40°-50°	2529.6	18.7
50°-60°	2991.5	22.1
60°-70°	2767.3	20.4
70°-80°	1164.2	8.6
80°-90°	128.8	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°	13548.0	100.0
0°-180°	13548.0	100.0

Coefficient of Utilization



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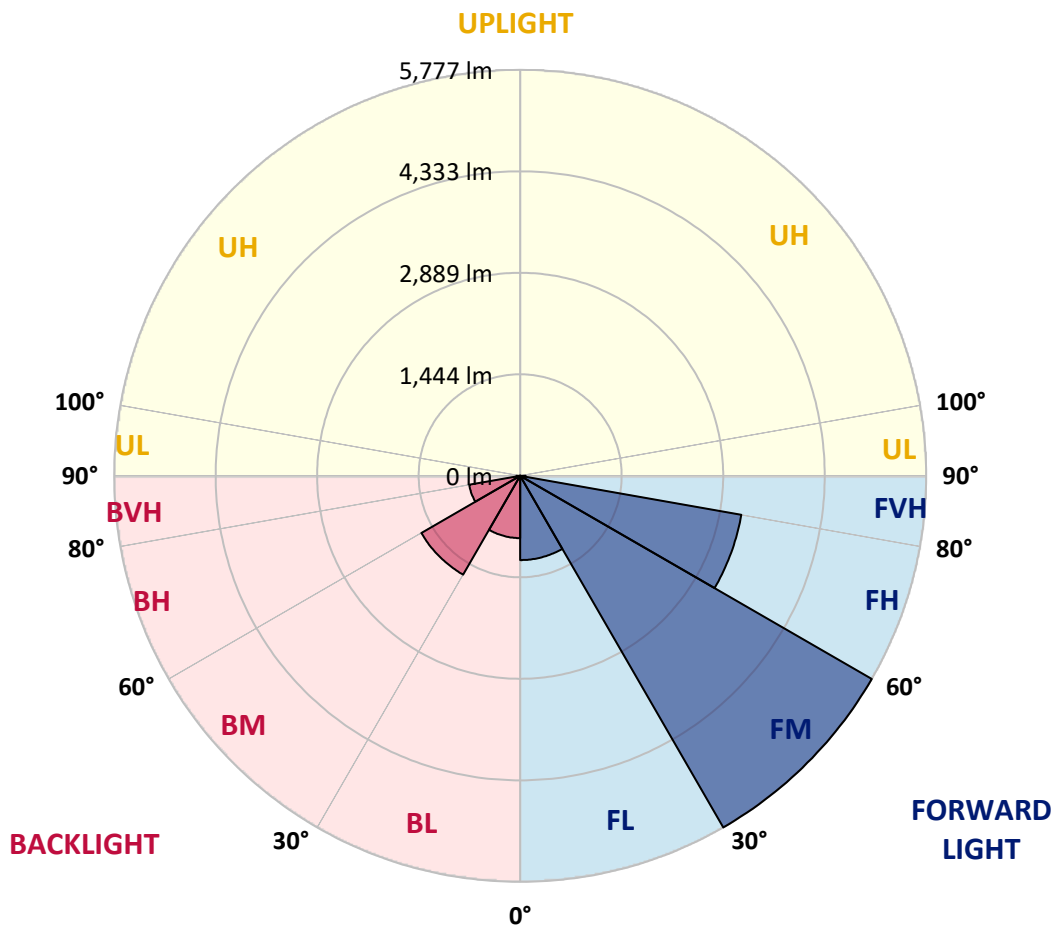
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1199.2	8.9			
FM	(30°-60°)	5777.5	42.6			
FH	(60°-80°)	3195.0	23.6			G2/5000
FVH	(80°-90°)	77.1	0.6			G1/100
BL	(0°-30°)	886.8	6.5	B2/1000		
BM	(30°-60°)	1624.3	12.0	B2/2500		
BH	(60°-80°)	736.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	51.7	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°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2214.0	2210.5	2217.5	2227.9	2233.2	2224.5	2221.0	2219.2	2219.2	2214.0	2222.7
5°	2109.4	2107.7	2123.3	2142.5	2179.1	2205.3	2240.1	2261.1	2254.1	2243.6	2250.6
7.5°	1973.4	1969.9	1989.1	2025.7	2076.3	2133.8	2219.2	2285.5	2311.6	2308.1	2306.4
10°	2025.7	2022.2	2020.5	2010.0	2027.5	2083.2	2172.2	2289.0	2377.9	2379.6	2381.4
12.5°	2207.0	2215.7	2207.0	2173.9	2135.5	2114.6	2166.9	2297.7	2433.7	2444.1	2487.7
15°	2454.6	2445.9	2428.4	2390.1	2330.8	2268.0	2229.7	2337.8	2513.8	2522.6	2618.4
17.5°	2672.5	2679.5	2669.0	2632.4	2562.7	2480.7	2363.9	2407.5	2599.3	2623.7	2757.9
20°	2909.6	2937.5	2923.5	2878.2	2820.7	2698.6	2552.2	2508.6	2693.4	2710.8	2902.6
22.5°	3183.3	3212.9	3186.8	3143.2	3096.1	2946.2	2757.9	2632.4	2771.9	2808.5	3042.1
25°	3511.0	3538.9	3514.5	3446.5	3387.2	3204.2	2979.3	2771.9	2848.6	2888.7	3155.4
27.5°	3770.8	3791.7	3814.3	3774.3	3683.6	3493.6	3209.4	2916.5	2925.3	2967.1	3260.0
30°	4002.6	4054.9	4074.1	4079.3	4002.6	3789.9	3444.8	3066.5	2991.5	3035.1	3364.6
32.5°	4319.9	4398.4	4367.0	4398.4	4353.0	4068.9	3688.8	3221.6	3076.9	3117.0	3463.9
35°	4783.6	4846.4	4764.4	4740.0	4666.8	4351.3	3924.2	3382.0	3190.2	3233.8	3558.1
37.5°	5282.2	5353.7	5235.1	5137.5	4998.0	4630.2	4126.4	3592.9	3347.1	3382.0	3645.2
40°	5718.0	5777.3	5674.5	5545.4	5311.8	4876.0	4300.7	3741.1	3504.0	3547.6	3746.4
42.5°	6120.7	6159.1	6044.0	5920.3	5608.2	5097.4	4489.0	3898.0	3687.1	3728.9	3828.3
45°	6528.7	6558.3	6397.9	6221.8	5855.8	5299.6	4696.5	4117.7	3955.6	4011.3	3960.8
47.5°	6601.9	6610.6	6582.7	6464.2	6051.0	5493.1	4952.7	4412.3	4365.2	4426.2	4189.2
50°	6094.6	6173.0	6345.6	6462.4	6129.5	5655.3	5209.0	4834.2	4930.1	5008.5	4663.3
52.5°	5109.6	5184.6	5583.8	6026.6	5941.2	5691.9	5484.4	5369.4	5726.7	5820.9	5308.4
55°	4070.6	4136.9	4558.7	5196.8	5332.8	5524.5	5779.0	6052.7	6743.1	6805.9	6016.1
57.5°	3352.4	3389.0	3690.6	4304.2	4522.1	4989.3	5937.7	6865.1	7776.9	7872.8	6631.5
60°	2749.2	2789.3	3014.2	3519.7	3809.1	4224.0	5812.2	7667.0	9011.1	9011.1	7421.2
62.5°	2069.3	2104.2	2313.4	2709.1	3195.5	3575.5	5411.2	8198.8	9942.1	9900.2	7993.0
65°	1420.8	1448.7	1600.4	1863.6	2301.2	3047.3	4863.8	8205.7	10559.2	10503.4	8237.1
66°	1192.4	1216.8	1345.8	1558.5	1926.3	2764.9	4670.3	8057.5	10688.2	10609.7	8134.3
67.5°	941.4	958.8	1044.2	1169.8	1412.1	2238.4	4365.2	7637.4	10676.0	10628.9	7872.8
70°	672.9	685.1	747.9	774.0	835.0	1295.3	3467.4	6689.1	9820.0	9834.0	6844.2
72.5°	521.2	540.4	578.8	584.0	570.1	688.6	2104.2	5580.3	8033.1	8027.9	5080.0
75°	420.1	430.6	449.8	460.2	456.7	444.5	890.8	4163.0	5529.8	5594.3	2845.1
77.5°	331.2	329.5	346.9	360.9	371.3	348.7	407.9	2440.6	2899.1	2817.2	1068.6
80°	244.1	244.1	268.5	273.7	289.4	292.9	272.0	941.4	995.4	904.8	277.2
82.5°	160.4	160.4	186.5	190.0	205.7	228.4	197.0	282.4	275.4	261.5	125.5
85°	87.2	83.7	92.4	104.6	113.3	134.2	118.5	141.2	144.7	143.0	83.7
87.5°	17.4	15.7	24.4	27.9	31.4	41.8	38.4	57.5	80.2	78.4	36.6
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°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2234.9	2233.2	2252.3	2275.0	2301.2	2316.8	2323.8	2336.0	2327.3	2330.8	2341.3
5°	2268.0	2273.3	2301.2	2330.8	2343.0	2334.3	2315.1	2308.1	2292.4	2289.0	2285.5
7.5°	2316.8	2325.6	2353.5	2360.4	2323.8	2262.8	2219.2	2194.8	2168.7	2161.7	2158.2
10°	2397.0	2402.3	2409.2	2337.8	2247.1	2165.2	2111.1	2088.5	2071.0	2057.1	2060.6
12.5°	2498.2	2494.7	2440.6	2292.4	2163.4	2079.8	2043.2	2029.2	2017.0	2008.3	2006.5
15°	2625.4	2601.0	2445.9	2229.7	2085.0	2015.3	1989.1	1983.9	1969.9	1969.9	1968.2
17.5°	2754.4	2691.7	2442.4	2163.4	2010.0	1971.7	1956.0	1952.5	1949.0	1947.3	1952.5
20°	2883.4	2771.9	2414.5	2081.5	1957.7	1935.1	1931.6	1933.3	1929.8	1935.1	1931.6
22.5°	2996.7	2824.2	2362.2	1994.3	1921.1	1919.4	1910.7	1914.1	1926.3	1928.1	1933.3
25°	3083.9	2843.3	2285.5	1914.1	1895.0	1891.5	1901.9	1915.9	1926.3	1928.1	1936.8
27.5°	3155.4	2832.9	2189.6	1851.4	1849.6	1868.8	1900.2	1905.4	1907.2	1907.2	1900.2
30°	3209.4	2810.2	2067.6	1781.7	1790.4	1837.4	1867.1	1867.1	1853.1	1849.6	1860.1
32.5°	3221.6	2780.6	1935.1	1710.2	1724.1	1779.9	1816.5	1804.3	1788.6	1788.6	1795.6
35°	3232.1	2740.5	1828.7	1612.6	1633.5	1699.7	1734.6	1710.2	1692.7	1687.5	1685.8
37.5°	3228.6	2724.8	1732.8	1488.8	1516.7	1581.2	1603.8	1581.2	1555.0	1542.8	1558.5
40°	3232.1	2714.3	1612.6	1352.8	1380.7	1419.0	1448.7	1431.3	1406.8	1375.5	1391.2
42.5°	3253.0	2728.3	1480.1	1220.3	1220.3	1241.2	1291.8	1279.6	1220.3	1208.1	1222.1
45°	3364.6	2803.2	1347.6	1087.8	1068.6	1082.6	1134.9	1082.6	1046.0	1046.0	1058.2
47.5°	3634.8	2942.7	1230.8	971.0	925.7	953.6	967.5	918.7	890.8	883.9	896.1
50°	4185.7	3221.6	1161.0	875.1	819.4	840.3	831.6	829.8	801.9	805.4	812.4
52.5°	5022.5	3765.5	1140.1	828.1	758.3	763.6	754.9	758.3	753.1	770.5	775.8
55°	5934.2	4339.1	1166.3	835.0	716.5	679.9	683.4	700.8	721.7	749.6	754.9
57.5°	6615.8	4626.7	1234.3	882.1	664.2	608.4	617.1	650.3	690.3	713.0	725.2
60°	7123.1	4591.9	1333.6	894.3	601.4	543.9	559.6	608.4	643.3	662.5	674.7
62.5°	7288.7	4373.9	1358.0	805.4	519.5	482.9	521.2	571.8	587.5	608.4	617.1
65°	7152.8	4065.4	1180.2	653.7	456.7	437.6	493.4	531.7	552.6	563.1	564.8
66°	6992.4	3880.6	1084.3	594.5	434.1	423.6	482.9	514.3	535.2	533.5	535.2
67.5°	6640.2	3493.6	929.2	510.8	401.0	402.7	465.5	486.4	493.4	488.1	488.1
70°	5442.6	2459.8	665.9	387.0	352.1	376.6	418.4	423.6	439.3	432.3	432.3
72.5°	3355.9	1208.1	446.3	296.4	313.8	352.1	350.4	367.8	404.4	414.9	421.9
75°	1649.2	489.9	294.6	251.0	280.7	294.6	291.1	334.7	387.0	432.3	448.0
77.5°	625.8	244.1	205.7	219.7	226.6	221.4	231.9	303.3	387.0	468.9	484.6
80°	193.5	169.1	162.1	181.3	170.8	162.1	174.3	251.0	327.7	355.6	355.6
82.5°	116.8	132.5	125.5	123.8	115.1	116.8	125.5	179.6	252.8	265.0	265.0
85°	81.9	87.2	71.5	68.0	66.2	64.5	64.5	104.6	149.9	148.2	153.4
87.5°	31.4	34.9	26.1	26.1	24.4	17.4	13.9	17.4	17.4	12.2	8.7
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)