

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: P1210853

Luminaire Tested: **ARCH3-90-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210853
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: ARCH3-90-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14896 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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

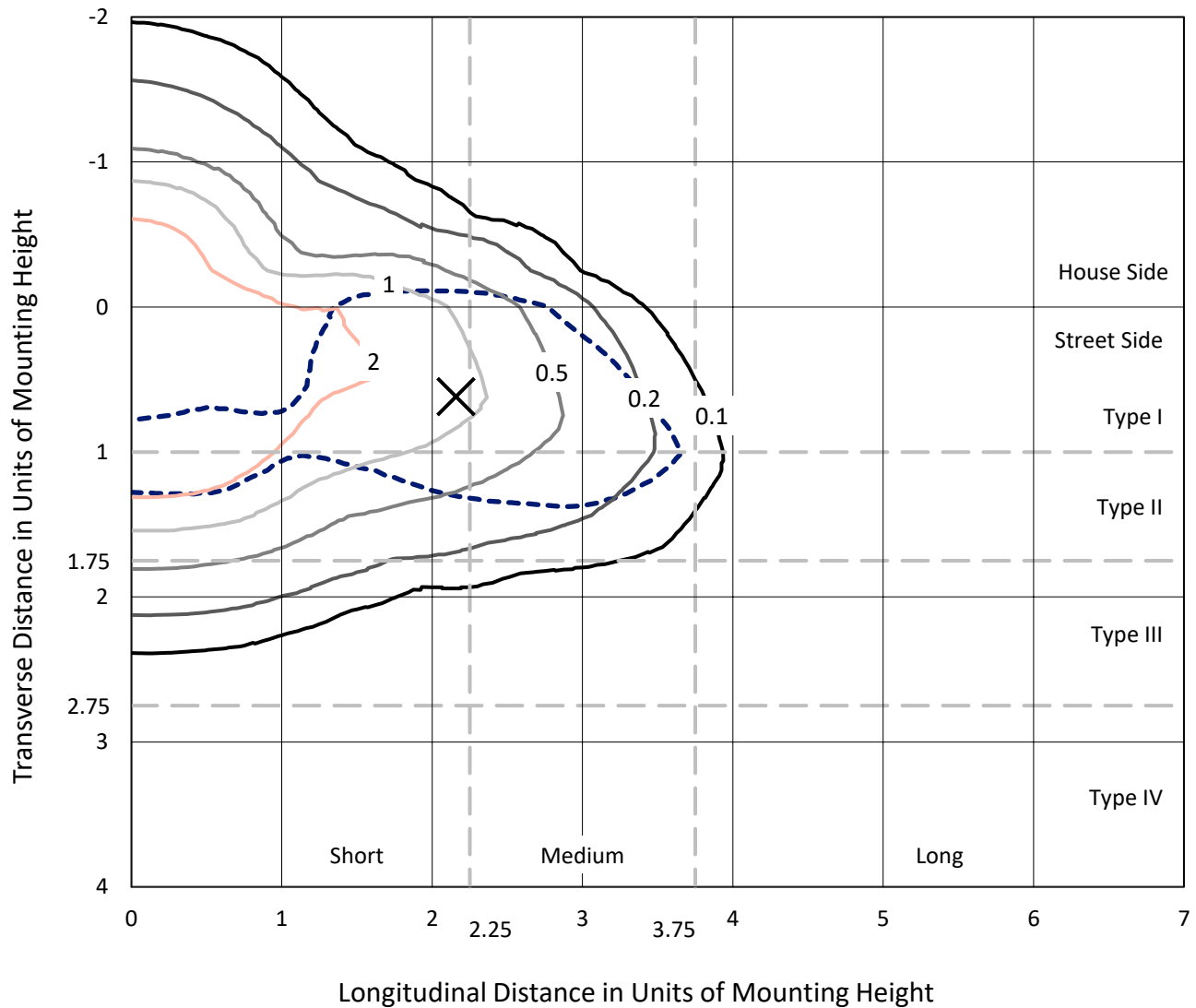


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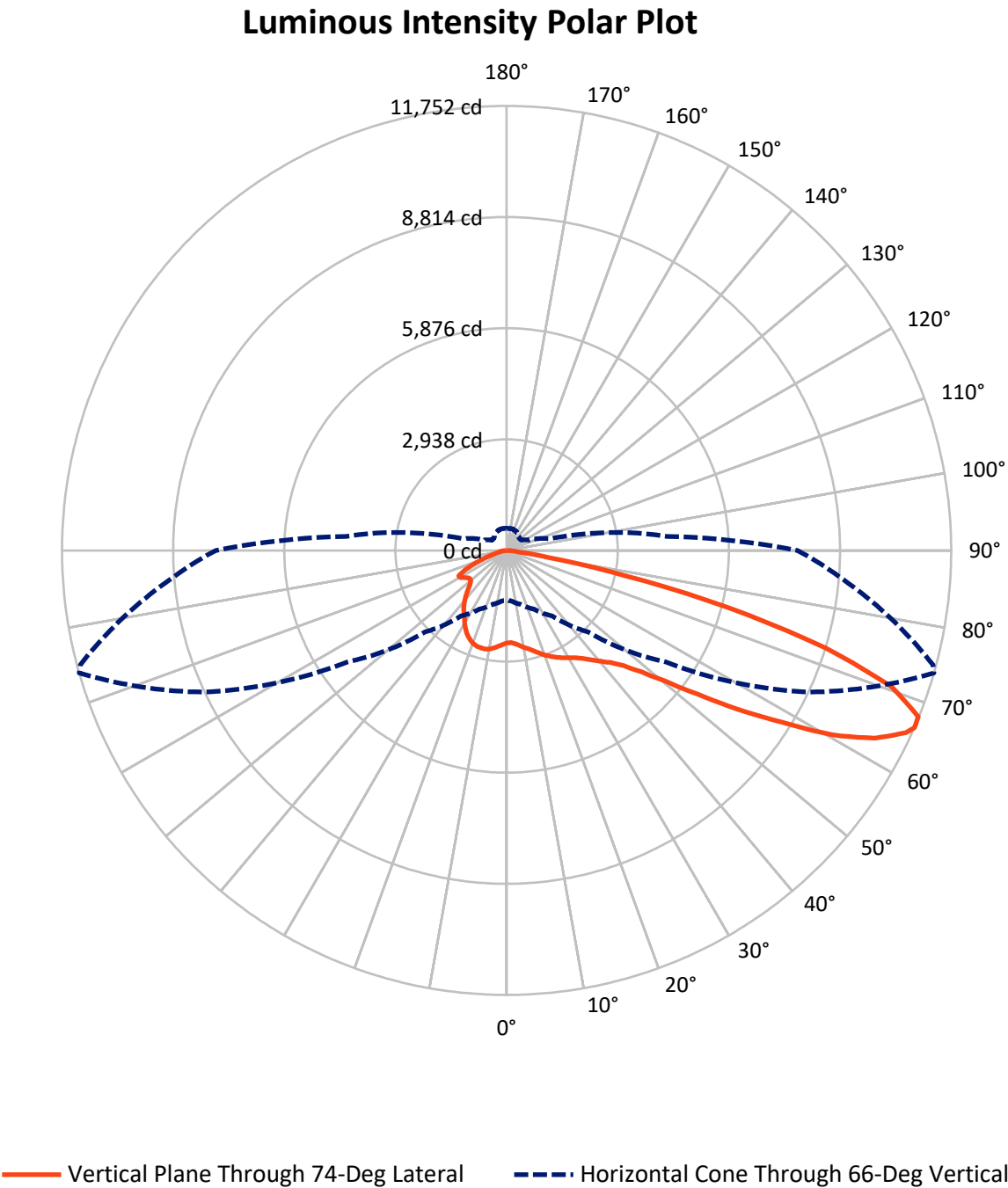
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3627.6	0.0	3627.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11268.4	0.0	11268.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	14896.0	0.0	14896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	1.6
10°-20°	716.3	4.8
20°-30°	1344.2	9.0
30°-40°	2067.7	13.9
40°-50°	2781.3	18.7
50°-60°	3289.2	22.1
60°-70°	3042.7	20.4
70°-80°	1280.0	8.6
80°-90°	141.6	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°	14896.0	100.0
0°-180°	14896.0	100.0

Coefficient of Utilization



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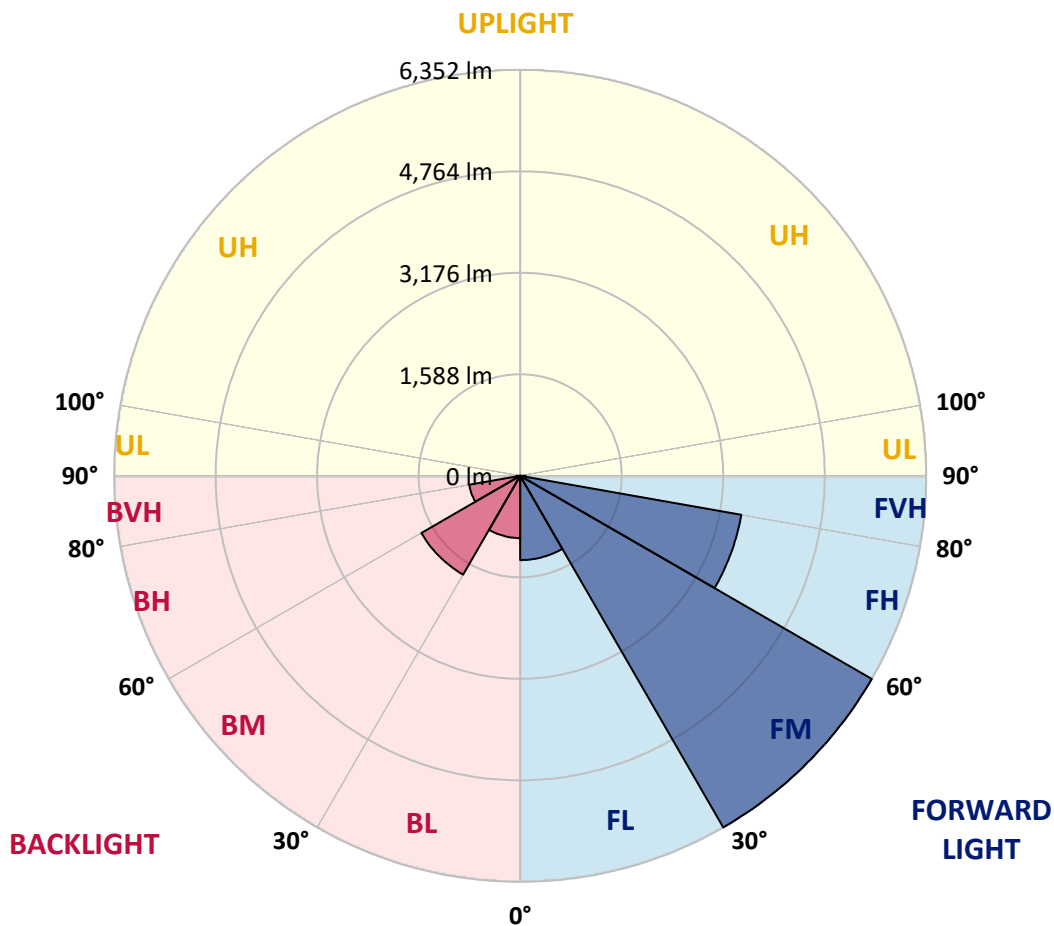
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1318.5	8.9			
FM	(30°-60°)	6352.3	42.6			
FH	(60°-80°)	3512.9	23.6			G2/5000
FVH	(80°-90°)	84.7	0.6			G1/100
BL	(0°-30°)	975.0	6.5	B2/1000		
BM	(30°-60°)	1785.9	12.0	B2/2500		
BH	(60°-80°)	809.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	56.9	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°	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9
2.5°	2434.3	2430.4	2438.1	2449.6	2455.4	2445.8	2441.9	2440.0	2440.0	2434.3	2443.9
5°	2319.3	2317.4	2334.6	2355.7	2395.9	2424.7	2463.0	2486.0	2478.4	2466.9	2474.5
7.5°	2169.8	2165.9	2187.0	2227.3	2282.9	2346.1	2440.0	2512.9	2541.6	2537.8	2535.9
10°	2227.3	2223.4	2221.5	2210.0	2229.2	2290.5	2388.3	2516.7	2614.5	2616.4	2618.3
12.5°	2426.6	2436.2	2426.6	2390.2	2348.0	2325.0	2382.5	2526.3	2675.8	2687.3	2735.2
15°	2698.8	2689.2	2670.0	2627.9	2562.7	2493.7	2451.5	2570.4	2764.0	2773.5	2879.0
17.5°	2938.4	2946.1	2934.6	2894.3	2817.6	2727.5	2599.1	2647.0	2857.9	2884.7	3032.3
20°	3199.1	3229.7	3214.4	3164.6	3101.3	2967.1	2806.1	2758.2	2961.4	2980.6	3191.4
22.5°	3500.0	3532.6	3503.8	3455.9	3404.2	3239.3	3032.3	2894.3	3047.6	3087.9	3344.7
25°	3860.4	3891.0	3864.2	3789.4	3724.3	3523.0	3275.7	3047.6	3132.0	3176.1	3469.3
27.5°	4145.9	4168.9	4193.9	4149.8	4050.1	3841.2	3528.8	3206.7	3216.3	3262.3	3584.3
30°	4400.9	4458.4	4479.5	4485.2	4400.9	4167.0	3787.5	3371.6	3289.2	3337.1	3699.3
32.5°	4749.7	4836.0	4801.5	4836.0	4786.1	4473.7	4055.9	3542.2	3383.1	3427.2	3808.6
35°	5259.6	5328.6	5238.5	5211.7	5131.2	4784.2	4314.6	3718.5	3507.7	3555.6	3912.1
37.5°	5807.8	5886.4	5756.0	5648.7	5495.3	5090.9	4537.0	3950.4	3680.2	3718.5	4007.9
40°	6287.0	6352.1	6239.0	6097.2	5840.4	5361.2	4728.6	4113.4	3852.7	3900.6	4119.1
42.5°	6729.7	6771.9	6645.4	6509.3	6166.2	5604.6	4935.7	4285.9	4053.9	4099.9	4209.2
45°	7178.3	7210.8	7034.5	6840.9	6438.4	5826.9	5163.7	4527.4	4349.1	4410.5	4354.9
47.5°	7258.8	7268.3	7237.7	7107.3	6653.1	6039.7	5445.5	4851.3	4799.6	4866.6	4606.0
50°	6701.0	6787.2	6977.0	7105.4	6739.3	6218.0	5727.3	5315.2	5420.6	5506.8	5127.3
52.5°	5618.0	5700.4	6139.4	6626.2	6532.3	6258.2	6030.1	5903.6	6296.5	6400.1	5836.5
55°	4475.6	4548.5	5012.3	5713.9	5863.4	6074.2	6354.1	6655.0	7414.0	7483.0	6614.7
57.5°	3685.9	3726.2	4057.8	4732.5	4972.1	5485.8	6528.5	7548.2	8550.7	8656.1	7291.3
60°	3022.7	3066.8	3314.1	3869.9	4188.1	4644.3	6390.5	8429.9	9907.7	9907.7	8159.6
62.5°	2275.2	2313.5	2543.5	2978.6	3513.4	3931.3	5949.6	9014.5	10931.3	10885.3	8788.3
65°	1562.2	1592.8	1759.6	2049.0	2530.1	3350.5	5347.8	9022.2	11609.8	11548.5	9056.7
66°	1311.1	1337.9	1479.7	1713.6	2118.0	3040.0	5135.0	8859.3	11751.6	11665.4	8943.6
67.5°	1035.0	1054.2	1148.1	1286.1	1552.6	2461.1	4799.6	8397.3	11738.2	11686.5	8656.1
70°	739.9	753.3	822.3	851.0	918.1	1424.2	3812.4	7354.6	10797.1	10812.4	7525.2
72.5°	573.1	594.2	636.4	642.1	626.8	757.1	2313.5	6135.5	8832.4	8826.7	5585.4
75°	461.9	473.4	494.5	506.0	502.2	488.8	979.5	4577.2	6080.0	6150.9	3128.1
77.5°	364.2	362.3	381.4	396.8	408.3	383.4	448.5	2683.5	3187.6	3097.5	1175.0
80°	268.3	268.3	295.2	300.9	318.2	322.0	299.0	1035.0	1094.5	994.8	304.8
82.5°	176.3	176.3	205.1	208.9	226.2	251.1	216.6	310.5	302.8	287.5	138.0
85°	95.8	92.0	101.6	115.0	124.6	147.6	130.3	155.3	159.1	157.2	92.0
87.5°	19.2	17.3	26.8	30.7	34.5	46.0	42.2	63.3	88.2	86.3	40.3
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°	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9	2441.9
2.5°	2457.3	2455.4	2476.5	2501.4	2530.1	2547.4	2555.0	2568.5	2558.9	2562.7	2574.2
5°	2493.7	2499.5	2530.1	2562.7	2576.1	2566.5	2545.5	2537.8	2520.5	2516.7	2512.9
7.5°	2547.4	2557.0	2587.6	2595.3	2555.0	2488.0	2440.0	2413.2	2384.4	2376.8	2372.9
10°	2635.5	2641.3	2649.0	2570.4	2470.7	2380.6	2321.2	2296.3	2277.1	2261.8	2265.6
12.5°	2746.7	2742.9	2683.5	2520.5	2378.7	2286.7	2246.4	2231.1	2217.7	2208.1	2206.2
15°	2886.6	2859.8	2689.2	2451.5	2292.4	2215.8	2187.0	2181.3	2165.9	2165.9	2164.0
17.5°	3028.5	2959.5	2685.4	2378.7	2210.0	2167.9	2150.6	2146.8	2142.9	2141.0	2146.8
20°	3170.3	3047.6	2654.7	2288.6	2152.5	2127.6	2123.8	2125.7	2121.9	2127.6	2123.8
22.5°	3294.9	3105.1	2597.2	2192.8	2112.3	2110.4	2100.8	2104.6	2118.0	2119.9	2125.7
25°	3390.7	3126.2	2512.9	2104.6	2083.5	2079.7	2091.2	2106.5	2118.0	2119.9	2129.5
27.5°	3469.3	3114.7	2407.4	2035.6	2033.7	2054.8	2089.3	2095.0	2096.9	2096.9	2089.3
30°	3528.8	3089.8	2273.3	1958.9	1968.5	2020.3	2052.8	2052.8	2037.5	2033.7	2045.2
32.5°	3542.2	3057.2	2127.6	1880.3	1895.7	1957.0	1997.3	1983.8	1966.6	1966.6	1974.3
35°	3553.7	3013.1	2010.7	1773.0	1796.0	1868.8	1907.2	1880.3	1861.2	1855.4	1853.5
37.5°	3549.8	2995.9	1905.3	1636.9	1667.6	1738.5	1763.4	1738.5	1709.7	1696.3	1713.6
40°	3553.7	2984.4	1773.0	1487.4	1518.1	1560.2	1592.8	1573.7	1546.8	1512.3	1529.6
42.5°	3576.7	2999.7	1627.3	1341.7	1341.7	1364.7	1420.3	1406.9	1341.7	1328.3	1343.6
45°	3699.3	3082.1	1481.7	1196.1	1175.0	1190.3	1247.8	1190.3	1150.1	1150.1	1163.5
47.5°	3996.4	3235.5	1353.2	1067.6	1017.8	1048.5	1063.8	1010.1	979.5	971.8	985.2
50°	4602.1	3542.2	1276.6	962.2	900.9	923.9	914.3	912.4	881.7	885.5	893.2
52.5°	5522.2	4140.2	1253.6	910.5	833.8	839.5	830.0	833.8	828.0	847.2	853.0
55°	6524.6	4770.8	1282.3	918.1	787.8	747.5	751.4	770.5	793.5	824.2	830.0
57.5°	7274.1	5087.1	1357.1	969.9	730.3	668.9	678.5	715.0	759.0	784.0	797.4
60°	7831.9	5048.7	1466.3	983.3	661.3	598.0	615.3	668.9	707.3	728.4	741.8
62.5°	8014.0	4809.1	1493.2	885.5	571.2	530.9	573.1	628.7	645.9	668.9	678.5
65°	7864.5	4469.9	1297.6	718.8	502.2	481.1	542.4	584.6	607.6	619.1	621.0
66°	7688.1	4266.7	1192.2	653.6	477.3	465.8	530.9	565.4	588.4	586.5	588.4
67.5°	7300.9	3841.2	1021.6	561.6	440.9	442.8	511.8	534.8	542.4	536.7	536.7
70°	5984.1	2704.5	732.2	425.5	387.2	414.0	460.0	465.8	483.0	475.4	475.4
72.5°	3689.8	1328.3	490.7	325.8	345.0	387.2	385.3	404.4	444.7	456.2	463.9
75°	1813.3	538.6	323.9	276.0	308.6	323.9	320.1	368.0	425.5	475.4	492.6
77.5°	688.1	268.3	226.2	241.5	249.2	243.4	254.9	333.5	425.5	515.6	532.9
80°	212.8	185.9	178.3	199.3	187.8	178.3	191.7	276.0	360.4	391.0	391.0
82.5°	128.4	145.7	138.0	136.1	126.5	128.4	138.0	197.4	277.9	291.3	291.3
85°	90.1	95.8	78.6	74.8	72.8	70.9	70.9	115.0	164.8	162.9	168.7
87.5°	34.5	38.3	28.8	28.8	26.8	19.2	15.3	19.2	19.2	13.4	9.6
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)